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***HISTORIA DE VIDA, CUIDADO PARENTAL, Y
TAMAÑO DEL CEREBRO EN AVES***

Tesis que para obtener el título de

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I. RESUMEN

El tejido cerebral es altamente costoso, por lo que el desarrollo de un cerebro grande está limitado por el presupuesto energético de la especie. Estudios previos con mamíferos y aves muestran que especies con tamaño de cerebro grande, dado su tamaño corporal, suelen tener historias de vida lentas, lo que permite invertir recursos energéticos en un cerebro grande. Por otro lado, un estudio reciente propuso que la energía provista por el cuidado parental es necesaria para el desarrollo del tejido cerebral. Alternativamente, el cuidado parental puede ser una consecuencia de una historia de vida lenta, que implica un periodo de desarrollo lento en el que las crías son vulnerables y deben ser cuidados por sus progenitores, como indica la teoría de historia de vida. En esta tesis, utilizando a las aves como modelo, empleé el método de Mínimos Cuadrados Generalizados Filogenéticos (PGLS) para determinar si el tamaño cerebral relativo está asociado al tiempo de aprovisionamiento parental, como indica la hipótesis del aprovisionamiento parental, o la edad de emplumado, como indica la teoría de historia de vida. Los resultados indican una asociación significativa entre cuidado parental y tamaño cerebral relativo, un mayor tamaño cerebral relativo en linajes con aprovisionamiento parental extendido, y una asociación de la presencia o ausencia de cuidado parental con diferencias significativas en las pendientes de la relación entre el tamaño del cerebro y masa corporal de aves altriciales y precoces, apoyando a la hipótesis de aprovisionamiento parental.

II. INTRODUCCIÓN

El tamaño del cerebro está estrechamente relacionado con el tamaño corporal en animales vertebrados. Es esta relación la que nos permite predecir que el cerebro de un caballo (*Equus ferus caballus*) será mucho más grande que el de un ratón casero (*Mus musculus*), y mucho más pequeño que el de una ballena azul (*Balaenoptera musculus*) (Dicke y Roth 2016). Sin embargo, a menudo se observan grandes diferencias en el tamaño del cerebro incluso en animales con el mismo tamaño corporal. Esto indica que otros factores, además del tamaño corporal, deben influir en la variación del tamaño del cerebro (Striedter 2005; Dicke y Roth 2016). Esta variación del tamaño del cerebro dado un tamaño corporal ha intrigado a especialistas en el área durante décadas, con una gran variedad de hipótesis propuestas para intentar determinar sus causas. Sin embargo, al día de hoy, las causas de esta variación no se comprenden en su totalidad. La presente investigación se enfocará en ayudar al esclarecimiento de estas causas en el marco de dos de las hipótesis más modernas: la hipótesis de aprovisionamiento parental y teoría de historia de vida.

El tamaño de los cerebros ha ido en aumento a lo largo de la historia evolutiva de los vertebrados (Roth y Dicke 2005; Dicke y Roth 2016; Northcutt 2002). Esta tendencia es evidente al comparar el tamaño del cerebro de diferentes taxones: el cerebro de los reptiles, en promedio, es de dos a tres veces mayor que el cerebro de la mayoría de los anfibios dado un tamaño corporal, y el cerebro de aves y mamíferos es, en promedio, 6 a 8 veces mayor que el de los reptiles dado un tamaño corporal (Northcutt 2002; Kverková et al 2022). Este proceso ha dado lugar a cerebros grandes relativo a su tamaño corporal que evolucionaron independientemente en distintos linajes, como ocurre con primates y cetáceos en mamíferos, y con loros, bucerótidos, pícidos, strigiformes, pelícanos, y córvidos en aves (Northcutt 2002; Kverková et al 2022).

La tendencia al aumento del tamaño del cerebro se debe muy probablemente a las ventajas cognitivas que implica tener un cerebro mayor al necesario para satisfacer las necesidades básicas de un animal (Sol 2009). El tamaño cerebral relativo se ha asociado al desempeño cognitivo (Iwaniuk et al 2001; Lefebvre et al 2004; Sol et al 2005), flexibilidad de comportamiento (Sol et al 2016; Sol et al 2002), éxito de

colonización, e innovaciones de forrajeo (Sol et al 2002), por lo que un cerebro grande podría representar una ventaja adaptativa en la obtención de alimento, para hacer frente a depredadores o situaciones o ambientes novedosos. Además, se han encontrado asociaciones entre el tamaño del cerebro y habilidades socio-cognitivas, por lo que un cerebro grande podría ser crucial para animales con una estructura social compleja (Dunbar y Shultz 2007a; Dunbar y Shultz 2007b). En conjunto, los resultados previos sugieren que el tamaño del cerebro impacta en una amplia gama de habilidades importantes para la adecuación biológica, pero, si ese es el caso, ¿por qué no todos los organismos han desarrollado un cerebro grande? No existe una respuesta definitiva a esta pregunta, sin embargo, diversas investigaciones apuntan a que se debe a una disyuntiva con los costos energéticos del tejido cerebral (Isler y van Schaik 2009; Isler y van Schaik 2006).

Los costos de un cerebro grande

El tejido cerebral es costoso en términos de energía, requiriendo cerca de un orden de magnitud más de energía por unidad de peso que muchos otros tejidos somáticos (Mink et al 1981). Cubrir estos costos representa un gran desafío, de manera que el desarrollo de un cerebro grande muy probablemente está limitado por el presupuesto energético de la especie (Isler y van Schaik 2006).

En la historia evolutiva del cerebro de los vertebrados, la aparición de los endotermos estuvo acompañada de un marcado aumento en el tamaño del cerebro y densidad neuronal (Kverková et al 2022). Esto significa que los endotermos deberían compartir alguna estrategia para aumentar su presupuesto energético y así pagar los costes de un cerebro de mayor tamaño.

La endotermia es metabólicamente cara, y requiere de un aporte energético mayor que la ectotermia. Este incremento en el aporte energético va de la mano con una disponibilidad de energía elevada con respecto a los animales ectotermos. Dicho incremento en disponibilidad de energía probablemente jugó un papel crucial en el aumento del tamaño del cerebro de aves y mamíferos, relajando las restricciones energéticas que impedían el desarrollo de cerebros más grandes (Kverková et al 2022).

A pesar de la clara relación entre endotermia y tamaño del cerebro, existe evidencia contradictoria en cuanto a la correlación del aumento del presupuesto energético y el tamaño del cerebro. Isler y van Schaik (2006) encontraron una relación significativamente positiva entre el tamaño cerebral relativo y la tasa metabólica basal relativa (BMR por sus siglas en inglés) en mamíferos. La BMR es un buen indicador del gasto energético diario promedio, por lo que ha sido utilizado para estimar el presupuesto energético de las especies (White y Seymour 2004). Martin (1998) también reporta una correlación significativamente positiva entre el tamaño del cerebro y la BMR en una muestra de 51 especies de mamíferos. Por otro lado, McNab y Eisenberg (1989) no encontraron una correlación significativa, pero su estudio contiene un error metodológico (Martin 1998). En cualquiera de los casos, los humanos no muestran una BMR significativamente mayor que la del resto de los primates (Leonard y Robertson 1994).

Es posible que la evidencia contradictoria en la asociación de la BMR y el tamaño del cerebro se deba a que el aumento de la BMR no sea la única estrategia para compensar los costos de un cerebro grande. Como sugiere la hipótesis del cerebro costoso, los costos de un cerebro grande pueden satisfacerse mediante una combinación de aumento del aporte energético total o reducción de la asignación de energía a otras funciones costosas como la digestión, la locomoción, el crecimiento y la reproducción (Isler y van Schaik 2009a). Dicha predicción se sostiene independientemente de la relación entre la BMR y el tamaño del cerebro.

Isler y van Schaik (2009a) proporcionan amplia evidencia para sustentar la hipótesis del cerebro costoso. Sus análisis en una amplia muestra de mamíferos indican que los mamíferos de cerebro relativamente grande reducen su tasa de fertilidad, ya sea reduciendo el número de crías por camada, o distribuyendo el esfuerzo reproductivo a lo largo de un periodo de tiempo más prolongado en el caso de especies con una sola cría por camada. En ambos casos, la disminución de fertilidad viene acompañada con una mayor longevidad, sin embargo, esta longevidad no es suficiente para compensar completamente la reducción de la fertilidad (Isler y van Schaik 2009). Además, se ha encontrado un efecto positivo del tamaño del cerebro en el tiempo de gestación y lactancia aun tomando en cuenta efectos alométricos (Gonzalez-Voyer et al 2016).

La dicotomía del modo de desarrollo altricial o precoz en aves y mamíferos proporciona un ejemplo ideal para las predicciones de la hipótesis del cerebro costoso. El modo de desarrollo está estrechamente ligado a la historia de vida de la especie: por un lado se encuentran las especies altriciales, que desarrollan cerebros relativamente grandes, nacen prácticamente ciegas, con movilidad limitada, y de desarrollo tardío, siendo completamente dependientes de sus progenitores. Por otro lado están las especies precoces, que desarrollan cerebros más pequeños a los de sus contrapartes altriciales, nacen con un mayor grado de desarrollo, con visión, movilidad, y una independencia parcial o completa de sus progenitores (Iwaniuk y Nelson 2003, Isler y van Schaik 2009). Las especies altriciales tienen cerebros más grandes dado el tamaño corporal, tienen un número de crías por camada reducido, y muestran o un aumento en la BMR o un tiempo de desarrollo más largo, comparado con contrapartes precoces (van Schaik et al 2023; Isler y van Schaik 2006; Jiménez-Ortega et al 2020). Es importante mencionar que estas asociaciones dejan de ser significativas cuando existe alguna forma de cuidado cooperativo de las crías (Isler y van Schaik 2009).

El aumento en el tamaño del cerebro en especies altriciales podría ser explicado por la distribución del costo del desarrollo del tejido cerebral en un tiempo de desarrollo más largo, resultando en un menor costo energético por unidad de tiempo. Esto permitiría una mayor inversión total de energía en el desarrollo del cerebro, facilitando el desarrollo de un cerebro grande a cambio de una historia de vida lenta y una fertilidad reducida (Isler y van Schaik 2009).

Longevidad y tamaño del cerebro

La asociación positiva entre longevidad y tamaño del cerebro de aves y mamíferos se ha observado en numerosas ocasiones (Allman et al 1993; Hofman 1993; González-Lagos et al 2010; Minias y Podlasczuk 2017). Esta asociación podría ser un efecto indirecto de la historia de vida lenta observada en especies de cerebro relativamente grande, lo que concuerda con lo predicho por la teoría de historia de vida, misma que propone que una mortalidad extrínseca reducida significaría una presión selectiva a favor de priorizar la reproducción futura, con edades de madurez sexual retardadas, inversiones reducidas por evento reproductivo, y longevidad prolongada (Promislow y Harvey 1990; Reznick et al 1990; Martin 2015;

Jiménez-Ortega et al 2020). La longevidad también podría ser un producto indirecto de los efectos alométricos que el tamaño corporal tiene en numerosos rasgos de historia de vida y en tamaño del cerebro (Hallmann y Griebeler 2018; Rogell et al 2019), o estar asociada al tamaño del cerebro indirectamente como un mecanismo para compensar la pérdida de fertilidad observada en especies altriciales con cerebro relativamente grande (Isler y van Schaik 2009).

Las hipótesis anteriores explican la asociación entre longevidad y tamaño del cerebro como producto indirecto de alguna otra asociación, sin embargo, existe evidencia de una relación directa entre el tamaño cerebral relativo y la longevidad. Dicha relación se mantiene aún al tomar en cuenta los posibles efectos indirectos de la alometría e historia de vida lenta en la longevidad de aves precoces y altriciales (Jiménez-Ortega et al 2020). La existencia de una relación directa no descarta la existencia de efectos indirectos de alometría e historia de vida en la longevidad, pero la relación directa entre longevidad y tamaño del cerebro debe entonces explicarse por otros motivos.

Alternativamente, esta asociación entre longevidad y tamaño del cerebro podría explicarse por el incremento en la capacidad cognitiva y flexibilidad de comportamiento que conlleva un cerebro grande. Una capacidad cognitiva y flexibilidad de comportamiento incrementadas podría ocasionar la disminución de las tasas de mortalidad extrínseca al mejorar la capacidad de evasión de depredadores y otros riesgos, lo que produciría un aumento en la longevidad promedio de las poblaciones con cerebro grande, como sugiere la hipótesis del búfer cognitivo (Allman et al 1993). Además, el aumento en la longevidad promedio causado por la reducción de la mortalidad extrínseca podría permitir que la selección natural actúe en la mortalidad intrínseca de estas poblaciones, lo que incrementaría aún más su longevidad (Sol 2009).

Existen varios estudios que apoyan la hipótesis del búfer cognitivo: Sol et al (2007) observó una disminución de las tasas de mortalidad en aves silvestres con cerebros grandes en comparación con aves con cerebro de menor tamaño. Similarmente, Kotrschal et al (2015) encontró que las hembras de pez guppy (*Poecilia reticulata*) artificialmente seleccionadas para tener un cerebro más grande presentan una mayor supervivencia frente a depredadores naturales en comparación con hembras seleccionadas para tener un cerebro más pequeño.

Un mecanismo adicional que podría explicar la asociación entre el tamaño del cerebro y la longevidad es a través de un mejor control homeostático, lo que reduciría la senescencia relacionada a especies reactivas de oxígeno (Monaghan et al 2009). Algunos estudios como el de Vágási et al (2016) han reportado una relación entre tamaño del cerebro y especies reactivas de oxígeno en aves, sin embargo esta hipótesis no ha recibido mucho apoyo en general. Es importante mencionar que los mecanismos recién mencionados no son mutuamente excluyentes, por lo que podrían estar actuando en conjunto para prolongar la longevidad de los animales con cerebros grandes.

Cuidado parental y tamaño del cerebro

Al hablar del cerebro adulto de aves y mamíferos, podemos vislumbrar cómo es que los beneficios cognitivos que trae un cerebro relativamente grande tienen más peso que los costos energéticos que provoca, sin embargo, al hablar de los cerebros en desarrollo nos encontramos con que estos aún no aportan suficientes beneficios cognitivos para pagar el aporte energético necesario para su propio crecimiento y mantenimiento (Bauernfeind et al 2014). De este modo, el desarrollo de un cerebro relativamente grande en los endotermos inmaduros se enfrenta a un “problema de arranque”, en el que el cerebro necesita de la energía producida por los beneficios de un cerebro maduro para su propio desarrollo, y por lo tanto no puede desarrollarse por cuenta propia (van Schaik et al 2023).

Para resolver este “problema de arranque”, el aporte energético requerido para el desarrollo de un cerebro relativamente grande debe ser provisto por la madre, el padre o ayudantes en el caso de especies con crianza cooperativa. A esta solución se le conoce como la hipótesis del aprovisionamiento parental (Griesser et al 2023). Es importante mencionar que, a diferencia de hipótesis predecesoras en materia de aporte energético de los progenitores (Martin 1996), la hipótesis del aprovisionamiento parental no considera a la inversión energética de los progenitores como una limitante para el desarrollo del cerebro grande, sino como una estrategia adaptativa que permite su desarrollo óptimo (van Schaik et al 2023). Esta hipótesis predice una asociación positiva entre el tamaño cerebral relativo y el tiempo de aprovisionamiento parental, así como un mayor tamaño cerebral relativo en linajes con un tiempo de aprovisionamiento parental extendido (van Schaik et al

2023). Diversos estudios apoyan estas predicciones; por ejemplo, Iwaniuk y Nelson (2003) encontraron una asociación positiva del tiempo de incubación y el tiempo de dependencia de los progenitores con el tamaño cerebral relativo en aves (Iwaniuk y Nelson 2003). Griesser et al (2023) encontró que el aprovisionamiento parental es un importante predictor del tamaño cerebral relativo en un análisis comparativo con 1,176 especies de aves.

El ritmo de crecimiento del cerebro también es consistente con la hipótesis de aprovisionamiento parental. En endotermos, el periodo de crecimiento rápido del cerebro se detiene al finalizar el cuidado parental. En el caso de ectotermos, el periodo de crecimiento rápido del cerebro se detiene con la eclosión, pues generalmente no suelen presentar cuidado parental posterior a la eclosión (van Schaik et al 2023). Además, Isler y van Schaik (2009) encontraron que en carnívoros con crianza cooperativa no existe la reducción en la fertilidad predicha por la hipótesis del cerebro costoso, lo que probablemente se debe al aumento en aporte energético ocasionado por la crianza cooperativa, concordando completamente con lo predicho por la hipótesis del aprovisionamiento parental.

Alternativamente, la asociación positiva entre cuidado parental y tamaño del cerebro podría ser explicada simplemente como producto indirecto de la asociación entre tamaño del cerebro e historia de vida lenta, pues la historia de vida lenta implica un periodo más largo de dependencia de los progenitores, lo que resultaría en un incremento del tiempo de aprovisionamiento parental para la supervivencia de las crías, tal como propone la teoría de historia de vida (Jiménez-Ortega et al 2020). Entre los estudios que apoyan esta interpretación está el trabajo de Jiménez-Ortega et al (2020), que encontró evidencia consistente de un efecto de la historia de vida en la longevidad. Además, el trabajo de Sol et al (2016) sugiere que la innovación y las historias de vida lentas están influidas por el tamaño del cerebro.

Tamaño del cerebro y número de neuronas

Cerebros con masas similares pueden tener diferencias considerables en la cantidad de neuronas (Herculano-Houzel 2017; Nemeč y Osten 2020). Si nuestro propósito es entender la evolución de la capacidad cognitiva por medio de la evolución del tamaño del cerebro, nos encontraremos con que el mejor ajuste entre los rasgos

cerebrales y los grados de inteligencia entre los mamíferos se alcanza mediante una combinación del número de neuronas corticales o paliales, la densidad de empaquetamiento neuronal, la distancia interneuronal y la velocidad de conducción axonal (Dicke y Roth 2016; Marois y Ivanoff 2005). Estos factores determinan la capacidad general de procesamiento de la información (IPC por sus siglas en inglés), la cual coincide con la noción de “inteligencia general”, definida en gran medida por la eficacia de la memoria de trabajo y, en consecuencia, por las capacidades de manipulación mental (Marois y Ivanoff 2005; Lefebvre y Sol 2008; Dicke y Roth 2016; Roth 2015). Debido a esto, el uso de variables como el número de neuronas puede brindar información de si las hipótesis que explican el tamaño del cerebro también explican en cierta medida la IPC, o “inteligencia” en un sentido vago, de los vertebrados.

Enfoque de investigación

Tanto la hipótesis del aprovisionamiento parental como la teoría de historia de vida proponen soluciones plausibles para explicar la asociación positiva entre el cuidado parental y el tamaño cerebral relativo. La hipótesis de aprovisionamiento parental atribuye esta asociación al periodo de desarrollo rápido del cerebro con altos requerimientos energéticos, los cuales deben ser provistos por los progenitores o ayudantes. Por otro lado, la teoría de historia de vida atribuye la asociación entre cuidado parental y tamaño cerebral relativo a una historia de vida lenta, que implica un periodo de desarrollo lento, en el que las crías son vulnerables y, por lo tanto, deben ser cuidados por sus progenitores. Ambas explicaciones cuentan con evidencia para apoyarlas, sin embargo, se desconoce cuál de ellas explica en mayor parte la asociación entre cuidado parental y tamaño cerebral relativo.

Descubrir las causas de la asociación entre cuidado parental y tamaño cerebral es crucial para nuestro entendimiento de la evolución del cerebro de los endotermos, pues nos permitiría esclarecer si la hipótesis del cuidado parental es o no una pieza clave en este rompecabezas. El desenredar los misterios de la evolución del cerebro de los endotermos es necesario para explicar y entender la aparición de los cerebros más grandes relativo a su tamaño corporal en el reino animal, incluyendo el cerebro humano. Dado que el cerebro e inteligencia humanas son el rasgo distintivo de nuestra especie, las investigaciones que se enfocan en entender la evolución del

cerebro son de crucial importancia no sólo en el ámbito científico, sino que también en la cultura y en la misma concepción de qué es lo que nos hace humanos.

En este estudio, utilizando a las aves como modelo, emplearé el método de Mínimos Cuadrados Generalizados Filogenéticos (PGLS por sus siglas en inglés) para determinar si el tamaño cerebral relativo de las aves está positivamente asociado al tiempo de aprovisionamiento parental, como indica la hipótesis del aprovisionamiento parental, o al tiempo que pasan los polluelos en el nido producto de su ritmo de historia de vida, como indica la teoría de historia de vida, todo tomando en cuenta los efectos de las relaciones filogenéticas de cada especie. Adicionalmente, puse a prueba la interacción de los modos de desarrollo altricial y precoz con el tamaño del cerebro relativo, con el fin de poner a prueba la predicción de la hipótesis de aprovisionamiento parental que establece que los linajes con aprovisionamiento parental extendido evolucionan cerebros más grandes relativo a su masa corporal. Y analicé los cambios ocasionados por la presencia y ausencia de aprovisionamiento parental de aves precoces en la interacción de las pendientes de la relación entre tamaño del cerebro y masa corporal de aves altriciales y precoces, con el fin de explorar el impacto del cuidado parental en estas pendientes. Por último, repetí los modelos utilizados para determinar si el tamaño cerebral relativo está positivamente asociado al tiempo de aprovisionamiento parental o al tiempo que pasan los polluelos en el nido producto de su ritmo de historia de vida, sustituyendo el tamaño del cerebro por el número de neuronas para tomar en cuenta los posibles cambios ocasionados por cualquier diferencia en número de neuronas que quedarían ocultos al utilizar solamente tamaño cerebral relativo.

III. HIPÓTESIS

1. El tamaño cerebral relativo en aves está positivamente asociado con la duración del aprovisionamiento parental, ya que este cuidado prolongado permite satisfacer los altos costos energéticos asociados con el desarrollo de un cerebro grande durante las etapas críticas de crecimiento (hipótesis del aprovisionamiento parental).
2. El tamaño cerebral relativo en aves está positivamente asociado al tiempo que los polluelos permanecen en el nido, producto de un ritmo de historia de vida más lento, lo que permite disminuir el costo energético por unidad de tiempo del desarrollo del cerebro (teoría de historia de vida).

IV. OBJETIVOS

Objetivo general:

1. Determinar si el tamaño cerebral relativo en aves está asociado al tiempo de aprovisionamiento parental, como indica la hipótesis del aprovisionamiento parental, o al ritmo de historia de vida, como indica la teoría de historia de vida.

Objetivos particulares:

1. Determinar el tamaño cerebral relativo de aves está asociado al ritmo de historia de vida, o al tiempo de aprovisionamiento parental.
2. Poner a prueba la predicción de la hipótesis de aprovisionamiento parental que establece que los linajes con aprovisionamiento parental extendido

tienden a evolucionar cerebros más grandes en relación con su masa corporal.

3. Analizar los cambios ocasionados por la presencia o ausencia del aprovisionamiento parental en la interacción de las pendientes de la relación entre tamaño del cerebro y masa corporal de aves altriciales y precoces.
4. Explorar los efectos de las diferencias en número total de neuronas como variables complementarias al tamaño cerebral relativo, para identificar patrones ocultos relacionados con la capacidad cognitiva y las estrategias de cuidado parental.

V. MATERIAL Y MÉTODOS

Se recolectaron datos para 2,198 especies de aves a partir de publicaciones científicas en revistas indizadas (ver Anexo). De estas 2,198 especies, 1,525 fueron altriciales, 548 precoces, y 125 especies no estaban clasificadas dentro de ninguna categoría, por lo que fueron omitidas de los modelos. En los casos donde más de un dato estaba disponible para una variable de una especie, se le dió prioridad a la fuente de datos con mayor número de datos para esa variable, con el fin de maximizar la homogeneidad de los datos.

Para llevar a cabo los PGLS es necesario un conjunto de datos completos para las variables utilizadas en cada modelo, por lo que el tamaño de muestra para cada modelo fue distinto debido a la disponibilidad de datos de cada variable. Para la información de las relaciones filogenéticas incluidas en los análisis de PGLS, se usó la filogenia de Jetz et al (2012), la cual se basa en filogenias publicadas para establecer las relaciones entre grandes grupos de aves, y utiliza la información molecular disponible para generar árboles con calibración de tiempos de divergencia basada en información de fósiles. Para colocar en la filogenia las especies para las cuales no se cuenta con datos moleculares los autores se basaron en información taxonómica y generan una pseudo-distribución posterior la cual refleja la incertidumbre tanto de los árboles generados con datos moleculares como la inclusión de especies basada en datos taxonómicos. Los árboles filogenéticos descargados corresponden a los árboles completos, que abarcan 9,993 especies de aves, utilizando la “espina dorsal” de Ericson et al (2006). A partir de los 500 árboles filogenéticos de Ericson et al (2006) se generó un árbol consenso de máxima credibilidad de clados el cual usé para los análisis posteriores.

Variables seleccionadas

Todos los datos utilizados en esta tesis fueron tomados de publicaciones científicas en revistas indizadas. La unidad de medida de los datos se homogeneizó a la unidad de medida prevalente en cada variable. Tanto masa corporal como tamaño del cerebro fueron reportados en kilogramos, el tiempo de aprovisionamiento parental se definió como número de días en que las crías son alimentadas por sus progenitores hasta la independencia nutricional (Griesser et al 2022), y la edad de emplumado se

definió como días transcurridos desde la eclosión hasta el momento en que el ave es capaz del vuelo (Myhrvold et al 2015).

En cuanto a la disponibilidad de datos, los datos disponibles para un mayor número de especies fueron masa corporal y tamaño del cerebro, con 2,099 especies para ambas variables. La edad de emplumado y longevidad máxima estuvieron disponibles para 1,341 y 920 especies respectivamente. Por último, los datos de tiempo de aprovisionamiento estuvieron disponibles para 1,176 especies.

Dada la variación en tamaño cerebral relativo e historia de vida observada en los modos de desarrollo, se separaron las especies de acuerdo a dicho modo de desarrollo con el fin de tomar en cuenta las diferencias en la relación entre tamaño del cerebro y tamaño corporal. Algunos estudios han clasificado al modo de desarrollo de las aves en hasta cinco categorías (Harvey y Pagel 1988; Iwaniuk y Nelson 2003; Griesser et al 2023), consistiendo en especies altriciales, semi altriciales, semi precoces, precoces y super precoces. Con el fin de maximizar el tamaño de muestra en cada categoría de modo de desarrollo, se utilizaron solamente dos categorías, combinando a altriciales y semi altriciales en la categoría de altriciales, y a semi precoces, precoces, y super precoces en la categoría de precoces.

Número de neuronas

Con el fin de tomar en cuenta las diferencias en la densidad neuronal que pasarían desapercibidas de sólo utilizar el tamaño del cerebro, se repitieron los modelos que utilizaron tamaño del cerebro como variable dependiente, sustituyéndolo por número de neuronas. Sustituir el tamaño del cerebro por el número de neuronas en nuestros modelos posiblemente brindaría información más precisa sobre la relación de cuidado parental e historia de vida con la IPC, sin embargo, la cantidad de datos neuronales disponibles en la literatura es muy limitada, con 58 especies de aves altriciales y 37 precoces disponibles, por lo que los modelos con número de neuronas tendrían un tamaño de muestra muy reducido. Debido a esto, se consideró necesario ejecutar todos los modelos utilizando el tamaño del cerebro, y posteriormente repetir los modelos para los cuales hay datos suficientes sustituyendo tamaño del cerebro por número de neuronas.

PGLS

Con el fin de estimar las asociaciones entre tamaño del cerebro, ritmo de vida, y cuidado parental tomando en cuenta la covarianza por cercanía filogenética en aves, se utilizó el método de Mínimos Cuadrados Generalizados Filogenéticos (PGLS, Martins y Hansen 1997) para poner a prueba las dos hipótesis mencionadas anteriormente. Se ejecutaron 19 modelos PGLS para explorar el comportamiento de los datos recabados y verificar que seguían los patrones reportados en la literatura (Ver Anexo). Posteriormente se ejecutaron los 6 modelos PGLS presentados en este estudio: Tres modelos de interacción entre modos de desarrollo, dos modelos con tamaño del cerebro como variable dependiente, y uno con número de neuronas como variable dependiente.

La técnica PGLS es una modificación de los mínimos cuadrados generalizados que utiliza el conocimiento de las relaciones filogenéticas para producir una estimación de la covarianza esperada entre los residuales del modelo (Symonds y Blomberg 2014). Es importante tomar en cuenta las relaciones de descendencia común de las especies al momento de realizar los análisis, puesto que al no hacerlo se sobre-estiman los grados de libertad lo que puede llevar a un elevado error de tipo I (Felsenstein 1985, Revell 2010). Los análisis se realizaron bajo un modelo de evolución incluyendo el parámetro lambda (λ) el cual provee una estima del grado de señal filogenética (estima de la covarianza esperada) en los residuales del modelo y provee una corrección más precisa de la no-independencia de los datos debido a las relaciones de ancestría común (Revell 2010). Todos los análisis se realizaron con el software estadístico R (v4.1.2; R Core Team 2021). Se hizo uso de los paquetes “ape” (Paradis y Schliep 2019), “caper” (Orme et al 2023), “dplyr” (Wickham et al 2022), y “phytools” (Revell 2012).

VI. RESULTADOS

La justificación para dividir las especies según su modo de desarrollo se basa en las diferencias en la relación alométrica entre tamaño del cerebro y la masa corporal en aves altriciales y precoces, como se describe en la literatura (Starck y Ricklefs 1998; Iwaniuk y Nelson 2003). Para confirmar que esta diferencia también se observa en los datos colectados para esta tesis, ejecuté un modelo PGLS analizando la interacción entre las pendientes de la relación entre el tamaño del cerebro y masa corporal de cada modo de desarrollo. Este modelo se ejecutó con 1,978 especies de aves, y los resultados (Tabla 1; modelo 1) indican que la interacción entre el tamaño corporal y el modo de desarrollo es significativa, por lo que hay una diferencia significativa en las pendientes de la relación entre el tamaño del cerebro y masa corporal de aves altriciales y aves precoces.

Posteriormente ejecuté dos modelos (Tabla 1; modelos 2a y 2b) para explorar si el tamaño cerebral relativo está asociado al tiempo de aprovisionamiento parental, como indica la hipótesis del aprovisionamiento parental, o al ritmo de historia de vida, como indica la teoría de historia de vida. Dichos modelos analizaron las asociaciones del tiempo de aprovisionamiento y la edad de emplumado con el tamaño del cerebro, controlando por masa corporal, con el fin de desenredar las asociaciones que el tiempo de aprovisionamiento parental y el tiempo pasado en el nido tienen con el tamaño cerebral relativo. Se utilizaron dos modelos PGLS, uno con aves altriciales y otro con precoces, dadas las diferencias observadas en la relación alométrica entre el tamaño del cerebro y el tamaño corporal así como la diferencia en inversión parental entre estos dos grupos. El modelo para las aves altriciales (Tabla 1; modelo 2a) se ejecutó con 428 especies, mientras que el modelo para las precoces (Tabla 1; modelo 2b) se ejecutó con 256 especies.

Los resultados de los modelos (Tabla 1; modelos 2a y 2b) indican una asociación significativa entre tamaño cerebral relativo y tiempo de aprovisionamiento, controlando por el efecto de edad de emplumado y masa corporal, y una asociación no significativa entre tamaño cerebral relativo y la edad de emplumado al controlar por tiempo de aprovisionamiento y masa corporal para ambos modos de desarrollo. La pendiente entre tamaño cerebral y tiempo de aprovisionamiento es más pronunciada para aves altriciales que para aves precoces, lo que indica que el

tamaño cerebral relativo incrementa con el tiempo de aprovisionamiento más rápidamente para altriciales que para precoces.

Para tomar en cuenta los posibles cambios ocasionados por la diferencia en número de neuronas que quedarían ocultos al utilizar solamente modelos de tamaño cerebral, se repitieron los modelos que analizaron las asociaciones del tiempo de aprovisionamiento y la edad de emplumado con el tamaño del cerebro, controlando por masa corporal (Tabla 1; modelos 2a y 2b), esta vez sustituyendo el tamaño del cerebro por número de neuronas. Este conjunto de datos estuvo disponible para 42 especies de aves altriciales, sin embargo, no hay datos para especies precoces en este conjunto de datos, por lo que solo fue posible repetir el modelo para aves altriciales. Los resultados de este modelo (Tabla 1; modelo 3) indican una ausencia de asociaciones significativas entre el número de neuronas, y el tiempo de aprovisionamiento o la edad de emplumado al controlar por masa corporal en aves altriciales, a diferencia de lo observado utilizando el tamaño del cerebro.

Tabla 1. Resultados de los modelos PGLS 1, 2a, 2b, y 3

El modelo 1 analiza la interacción de las pendientes de la relación entre tamaño del cerebro y masa corporal de aves altriciales y precoces. Este modelo se ejecutó con 1,978 especies. Los modelos 2a y 2b se ejecutaron con 428 y 256 especies respectivamente. El modelo 3 se ejecutó con 42 especies, todas ellas altriciales, debido a la cantidad limitada de datos neuronales.

Códigos de significancia: * < 0.001, ** < 0.01, * < 0.05.**

No.	Modelo	Coefficiente	SE	t	p	λ	R ²
1	Dependiente: Tamaño cerebral (Modelo de interacción)					0.89	0.86
	Intercepto	-2.2172	0.1200	-18.4710	< 2.2e-16 ***		
	Masa corporal	0.5474	0.0091	60.4150	< 2.2e-16 ***		
	Modo de desarrollo (1=Altriciales, 0=Precoces)	-0.2377	0.0821	-2.8960	0.003821 **		
	Masa corporal:Modo de desarrollo	0.0669	0.0110	6.0620	1.606e-09 ***		
2a	Dependiente: Tamaño cerebral (Altriciales)					0.88	0.89
	Intercepto	-2.6031	0.1284	-20.2728	< 2.2e-16 ***		
	Tiempo de aprovisionamiento	0.1167	0.0250	4.6723	3.997e-06 ***		
	Edad de emplumado	-0.0211	0.0386	-0.5450	0.5860		
	Masa corporal	0.6109	0.0143	42.6454	< 2.2e-16 ***		
2b	Dependiente: Tamaño cerebral (Precoces)					0.93	0.90

	Intercepto	-2.2398	0.1352	-16.5688	< 2.2e-16 ***		
	Tiempo de aprovisionamiento	0.0009	0.0003	2.6542	0.008451 **		
	Edad de emplumado	-0.0007	0.0004	-1.5277	0.1278		
	Masa corporal	0.5457	0.0123	44.4978	< 2.2e-16 ***		
3	Dependiente: Número de neuronas (Altriciales)					0.89	0.78
	Intercepto	17.0391	0.5004	34.0499	< 2.2e-16 ***		
	Tiempo de aprovisionamiento	-0.0008	0.0018	-0.4262	0.6722		
	Edad de emplumado	0.2716	0.1957	1.3881	0.1726		
	Masa corporal	0.4163	0.0723	5.7584	9.541e-07 ***		

Los resultados del primer modelo (Tabla 1) mostraron que existe una interacción entre el modo de desarrollo y la relación entre el tamaño del cerebro y el tamaño corporal. Posteriormente, los resultados mostraron que el aprovisionamiento parental explica mejor las diferencias en tamaño del cerebro que el tiempo de desarrollo (estimado en base a la edad al emplumado), tanto para aves precoces como altriciales.

Con estos resultados en mente, me pregunté si la diferencia en las pendientes de la relación tamaño corporal y tamaño del cerebro entre aves precoces y altriciales se debe meramente a la presencia del aprovisionamiento parental. Para poner esto a prueba, dividí las especies precoces en dos grupos: especies precoces con un tiempo de aprovisionamiento mayor a cero (Precoces que alimentan), y especies precoces con un tiempo de aprovisionamiento igual a cero (Precoces que no alimentan). Usando esta división repetí los análisis de PGLS de interacción por cada grupo de aves precoces, incluyendo a las aves altriciales sin alteración. Ambos modelos analizaron la interacción de las pendientes de la relación entre tamaño del cerebro y masa corporal de aves altriciales y precoces que alimentan o no alimentan a sus crías. El modelo para precoces que alimentan (Tabla 2; modelo 4) se ejecutó con 1,682 especies. El modelo para precoces que no alimentan (Tabla 2; modelo 5) se ejecutó con 1,755 especies.

Los resultados del modelo con aves precoces que alimentan (Tabla 2; modelo 4) muestran que la interacción con el modo de desarrollo no es significativa, en otras palabras las pendientes de la relación entre el *tamaño del cerebro* y *masa corporal* de altriciales y precoces dejan de ser significativamente distintas cuando sólo se toma en cuenta a las aves precoces que alimentan a sus polluelos. Por otro lado, los

resultados del modelo con aves precoces que no alimentan (Tabla 2; modelo 5) muestran que la interacción con el modo de desarrollo es significativa, con un valor p menor al obtenido en el modelo 1 (Tabla 1). Esto sugiere que las pendientes de la relación entre el tamaño del cerebro y masa corporal tienen una diferencia aún mayor en este modelo (Tabla 2; modelo 5) que la observada en el modelo con todas las aves precoces (Tabla 1; modelo 1).

Tabla 2. Resultados de los modelos PGLS 4 y 5, analizando la interacción de las pendientes de la relación entre tamaño del cerebro y masa corporal de aves altriciales y precoces. Para el modelo 4 se utilizaron aves precoces con un tiempo de aprovisionamiento mayor a cero (Precoces que alimentan) , dando un total de 1682 especies. Para el modelo 5 se utilizaron aves precoces con un tiempo de aprovisionamiento igual a cero (Precoces que no alimentan), dando un total de 1755 especies.

Códigos de significancia: * < 0.001, ** < 0.01, * < 0.05.**

No.	Modelo	Coficiente	SE	t	p	λ	R^2
4	Dependiente: Tamaño cerebral (Precoces que alimentan)					0.88	0.87
	Intercepto	-2.3126	0.1325	-17.4484	< 2e-16 ***		
	Masa corporal	0.5827	0.0129	45.0648	< 2e-16 ***		
	Modo de desarrollo (1=Altriciales, 0=Precoces)	-0.0520	0.1013	-0.5134	0.6077		
	Masa corporal:Modo de desarrollo	0.0329	0.0143	2.2958	0.0218		
5	Dependiente: Tamaño cerebral (Precoces que NO alimentan)					0.89	0.86
	Intercepto	-2.1001	0.1360	-15.4426	< 2.2e-16 ***		
	Masa corporal	0.5118	0.0125	40.9722	< 2.2e-16 ***		
	Modo de desarrollo (1=Altriciales, 0=Precoces)	-0.1774	0.1208	-1.4682	0.1422		
	Masa corporal:Modo de desarrollo	0.1062	0.0141	7.5537	6.772e-14 ***		

VII. DISCUSIÓN

El objetivo principal de esta tesis fue determinar si el tamaño cerebral relativo está asociado al tiempo de aprovisionamiento parental, como indica la hipótesis del aprovisionamiento parental, o al tiempo que pasan los polluelos en el nido producto de su ritmo de historia de vida, como indica la teoría de historia de vida. Encontré evidencia de una asociación significativa entre cuidado parental y tamaño cerebral relativo en aves altriciales y precoces, como predice la hipótesis de aprovisionamiento parental, y una ausencia de asociación significativa entre edad de emplumado y tamaño cerebral relativo de aves altriciales y precoces. Los modelos ideados para desenredar las asociaciones que el tiempo de aprovisionamiento parental y el tiempo pasado en el nido tienen con el tamaño cerebral relativo (Tabla 1; modelos 2a y 2b) indican una asociación significativa entre tamaño cerebral y tiempo de aprovisionamiento, controlando por el efecto de edad de emplumado y masa corporal, y una falta de asociación significativa entre tamaño cerebral y la edad de emplumado, controlando por tiempo de aprovisionamiento y masa corporal, todo para ambos modos de desarrollo. Además, encontré evidencia que sugiere que los linajes con aprovisionamiento parental extendido evolucionan cerebros más grandes relativo a su masa corporal tomando a las aves altriciales como linaje con aprovisionamiento parental extendido (Tabla 1; modelo 1), como predice la hipótesis de aprovisionamiento parental. Finalmente, los resultados sugieren que la presencia o ausencia de cuidado parental está asociado con diferencias significativas en las pendientes de la relación entre el *tamaño del cerebro y masa corporal* de altriciales y precoces (Tabla 2; modelos 4 y 5), apoyando aún más la hipótesis del aprovisionamiento parental.

Tamaño del cerebro y cuidado parental en los endotermos

Los modelos 2a y 2b (Tabla 1) indican una asociación positiva significativa entre cuidado parental y tamaño del cerebro de aves altriciales y precoces, controlando por edad de emplumado y masa corporal, y una ausencia de asociación significativa entre edad de emplumado y tamaño del cerebro de aves altriciales y precoces, controlando por aprovisionamiento parental y masa corporal. La asociación positiva

entre tamaño cerebral relativo y cuidado parental encontrada en este estudio concuerda con lo observado en estudios previos realizados en aves (Jiménez-Ortega et al 2020; Griesser et al 2023). Dicha asociación positiva también ha sido observada en mamíferos. Heldstab et al (2019) encontró una asociación positiva entre el tamaño cerebral relativo y el cuidado biparental, y una asociación significativamente positiva entre tamaño cerebral relativo y la crianza cooperativa siempre y cuando esta esté combinada con el cuidado biparental. Los resultados de Heldstab et al (2019) son consistentes con lo observado en estudios adicionales en mamíferos (Isler y van Schaik 2009b; Isler y van Schaik 2012). En conjunto, esta evidencia indica que la hipótesis de aprovisionamiento parental es una explicación plausible para las diferencias en el tamaño cerebral relativo de los endotermos.

La ausencia de una asociación significativa entre tamaño del cerebro y edad de emplumado controlando por aprovisionamiento parental y masa corporal de estos modelos (Tabla 1; modelos 2a y 2b) apunta a que interpretar al cuidado parental como un producto indirecto del tiempo de desarrollo prolongado y la necesidad de un cuidado prolongado de los polluelos que lo acompaña, como plantea la teoría de historia de vida, es probablemente incorrecto. No obstante, no se puede descartar que el cuidado parental sea un mejor sucedáneo del ritmo de vida que la edad al emplumado, pues en diversas especies de ave existe alimentación parental incluso posterior al emplumado de las crías.

La evidencia en la literatura en cuanto a la asociación entre tamaño cerebral relativo y edad de emplumado es contradictoria. Jiménez-Ortega et al (2020) encontraron una falta de relación directa entre tamaño cerebral relativo y edad de emplumado. Por otro lado, Iwaniuk y Nelson (2003) encontraron una asociación significativa entre tamaño cerebral relativo y edad de emplumado en aves altriciales y precoces. De cualquier modo, es importante resaltar que el objetivo de los modelos 2a y 2b es desenredar las asociaciones que el tiempo de aprovisionamiento parental y el tiempo pasado en el nido tienen con el tamaño cerebral relativo, por lo que determinar si existe una relación entre edad de emplumado y tamaño cerebral relativo sin tomar en cuenta el efecto del cuidado parental queda fuera del alcance del modelo.

En ambos modelos (Tabla 1; modelos 2a y 2b), el coeficiente de edad de emplumado es negativo, lo que probablemente se debe a efectos de multicolinealidad. Es importante considerar que la multicolinealidad de las variables

independientes en estos modelos podría afectar su capacidad para desenredar las asociaciones del tiempo de aprovisionamiento y edad de emplumado en el tamaño del cerebro. Esto sugiere además que ambas variables podrían estar proporcionando información que es complementaria, lo que dificultaría el desenredar dichas asociaciones.

Linajes con aprovisionamiento parental extendido evolucionan cerebros grandes

Una de las principales predicciones de la hipótesis de aprovisionamiento parental establece que los linajes con aprovisionamiento parental extendido evolucionan cerebros más grandes relativo a su masa corporal. Para poner esta predicción a prueba, analicé la interacción de las pendientes de la relación entre tamaño del cerebro y masa corporal de aves altriciales y precoces (Tabla 1; modelo 1). Encontré una diferencia significativa entre las pendientes de la relación entre el tamaño del cerebro y la masa corporal de aves altriciales y precoces. Las especies de aves precoces no abastecen a sus polluelos más allá de los recursos proporcionados en el huevo, mientras que las especies de linajes altriciales suelen presentar un aprovisionamiento parental posterior a la eclosión (van Schaik et al 2023). La pendiente de la relación entre el tamaño del cerebro y la masa corporal de aves altriciales es significativamente más aguda que la pendiente de aves precoces, lo que apoya a la predicción de que los linajes con aprovisionamiento parental extendido evolucionan cerebros grandes relativo a su masa corporal.

El aprovisionamiento parental comparado con el espectro altricial-precoc

Se analizaron los cambios ocasionados por la presencia o ausencia de aprovisionamiento parental de aves precoces en la interacción de las pendientes de la relación entre tamaño del cerebro y masa corporal de aves altriciales y precoces (Tabla 2; modelos 4 y 5). Los resultados cuando solamente se incluyen aves precoces que alimentan en el modelo, indican que la interacción de las pendientes de la relación entre tamaño del cerebro y masa corporal de aves altriciales y precoces deja de ser significativa (Tabla 2; modelo 4). Por otro lado, al incluir solamente a aves precoces que no presentan cuidado parental (Tabla 2; modelo 4), la diferencia es significativa, con un valor p aún menor que el observado en la

interacción de las pendientes del modelo inicial (Tabla 1; modelo 1).

Basado en estos resultados, propongo que se considere la posibilidad de que el contraste en las relaciones de tamaño del cerebro y masa corporal que se observa entre aves altriciales y precoces pueda ser ocasionado principalmente por diferencias en el aprovisionamiento parental, pues la categorización de las especies de aves precoces según la presencia o ausencia de aprovisionamiento parental parece producir una división más precisa de las pendientes de la relación entre el tamaño del cerebro y masa corporal de altriciales y precoces. El aprovisionamiento parental sería el factor clave en esta interpretación, por lo que estos resultados también apoyan a la hipótesis de aprovisionamiento parental.

Número de neuronas, cuidado parental, e historia de vida

Se repitieron los modelos que analizaron las asociaciones del tiempo de aprovisionamiento y la edad de emplumado con el tamaño del cerebro, controlando por masa corporal (Tabla 1; modelos 2a y 2b), esta vez sustituyendo el tamaño del cerebro por número de neuronas. Este conjunto de datos estuvo disponible para 42 especies de aves altriciales, sin embargo no hay datos para especies precoces en este conjunto, por lo que solo fue posible repetir el modelo para aves altriciales. Los resultados de este modelo (Tabla 1; modelo 3) indican una ausencia de asociaciones significativas entre el número de neuronas y el tiempo de aprovisionamiento controlando por edad de emplumado y masa corporal, una ausencia de asociaciones significativas entre el número de neuronas y la edad de emplumado controlando por tiempo de aprovisionamiento y masa corporal en aves altriciales, difiriendo de lo observado utilizando el tamaño del cerebro. La ausencia de asociaciones significativas no necesariamente implica que la hipótesis de aprovisionamiento parental o la teoría de historia de vida sean incapaces de predecir el número de neuronas. El reducido tamaño de muestra de este modelo afecta considerablemente su poder estadístico, pudiendo llevar a falsos negativos.

Una explicación alterna para la falta de asociaciones significativas observada en el modelo que utiliza número de neuronas es que tanto la hipótesis de aprovisionamiento parental como la teoría de historia de vida se basan en el elevado costo energético que implica desarrollar y mantener un cerebro grande, sin embargo,

el número de neuronas y la cantidad de energía que gasta el cerebro no son necesariamente proporcionales. Esto se debe a que la mayor parte de energía del cerebro es consumida por los astrocitos, que a su vez canalizan algo de esta energía a las neuronas, de modo que para estimar los costos energéticos del cerebro sería necesario tomar en cuenta tanto al número de astrocitos como al número de neuronas (Herculano-Houzel 2011).

La cantidad limitada de datos de número de neuronas hicieron imposible repetir el modelo que analizó la interacción entre el tamaño del cerebro y masa corporal con el modo de desarrollo (Tabla 1; modelo 1), sustituyendo el tamaño del cerebro por número de neuronas. Ocurrió lo mismo al intentar repetir los modelos que analizaron los cambios ocasionados por la presencia o ausencia de aprovisionamiento parental de aves precoces en la interacción de las pendientes de la relación entre tamaño del cerebro y masa corporal de aves altriciales y precoces (Tabla 2; modelos 4 y 5), sustituyendo al tamaño del cerebro por número de neuronas.

VIII. CONCLUSIONES

En esta tesis encontré una asociación significativa entre el tamaño del cerebro y el aprovisionamiento parental, controlando por edad de emplumado y masa corporal, tanto en aves altriciales como precoces, como predice la hipótesis de aprovisionamiento parental. Además, encontré evidencia que sugiere que los linajes con aprovisionamiento parental extendido evolucionan cerebros más grandes relativo a su masa corporal tomando a las aves altriciales como linaje con aprovisionamiento parental extendido, como predice la hipótesis de aprovisionamiento parental. Y encontré evidencia de que la presencia o ausencia de cuidado parental está asociado con diferencias significativas en las pendientes de la relación entre el tamaño del cerebro y masa corporal de altriciales y precoces, apoyando aún más la hipótesis del aprovisionamiento parental. Estos resultados en conjunto con la literatura apuntan a que la hipótesis de aprovisionamiento parental es una explicación más plausible para las diferencias en el tamaño cerebral relativo de los endotermos.

No encontré evidencia de una asociación significativa entre tamaño cerebral y la edad de emplumado, controlando por tiempo de aprovisionamiento y masa corporal, en aves altriciales y precoces, sin embargo, este resultado no es capaz de descartar la validez de lo propuesto por la teoría de historia de vida. No se puede descartar que el cuidado parental sea un mejor sucedáneo del ritmo de vida que la edad al emplumado, pues en diversas especies de aves existe alimentación parental incluso posterior al emplumado de las crías. Además, tanto el aprovisionamiento parental como la edad de emplumado podrían estar proporcionando información que es complementaria, lo que puede dificultar el desenredar dichas asociaciones.

Los resultados al utilizar número de neuronas indican una ausencia de asociaciones significativas entre el número de neuronas y el tiempo de aprovisionamiento controlando por edad de emplumado y masa corporal, una ausencia de asociaciones significativas entre el número de neuronas y la edad de emplumado controlando por tiempo de aprovisionamiento y masa corporal en aves altriciales, difiriendo de lo observado utilizando el tamaño del cerebro. Estos resultados pueden deberse al reducido tamaño de muestra de este modelo, que afecta considerablemente su poder estadístico. Además, la relación entre el número de neuronas y la cantidad de

energía que gasta el cerebro no es necesariamente proporcional, por lo que emplear el número de neuronas podría no ser de utilidad para poner a prueba las hipótesis de aprovisionamiento parental y teoría de historia de vida.

La cantidad de datos neuronales disponibles tanto para aves como mamíferos es una limitante en el área. Se necesitan más estudios que cuantifiquen el número de neuronas, densidad neuronal, número de astrocitos, distancia interneuronal, velocidad de conducción axonal del área cortical o palial del cerebro de aves y mamíferos, tanto para poner a prueba la utilidad del uso de número de neuronas en las hipótesis de aprovisionamiento parental y teoría de historia de vida, como para en un futuro esclarecer la relación entre tamaño del cerebro y la capacidad cognitiva de los cerebros de aves y mamíferos.

Por último, la hipótesis de aprovisionamiento parental podría tener grandes implicaciones en la historia evolutiva del ser humano. La hipótesis de aprovisionamiento parental explica el estado relativamente altricial de los neonatos humanos al nacer, brindando una alternativa al controvertido argumento del “dilema obstétrico” (Isler y van Schaik 2012). Además, algunos estudios reportan una correlación positiva entre tamaño cerebral relativo y crianza cooperativa en mamíferos, sugiriendo que la reproducción cooperativa permitió la evolución del cerebro humano por medio de un aumento en el aporte energético a los infantes (Isler y van Schaik 2012; Heldstab et al 2019). Sería interesante probar si hay un efecto del cuidado cooperativo en el tamaño del cerebro de las aves.

IX. BIBLIOGRAFÍA

- Allman, J., McLaughlin, T., & Hakeem, A. (1993). Brain weight and life-span in primate species. *Proceedings of the National Academy of Sciences*, 90(1), 118-122.
- Bauernfeind, A. L., Barks, S. K., Duka, T., Grossman, L. I., Hof, P. R., & Sherwood, C. C. (2014). Aerobic glycolysis in the primate brain: reconsidering the implications for growth and maintenance. *Brain Structure and Function*, 219, 1149-1167.
- Cockburn, A. (2006). Prevalence of different modes of parental care in birds. *Proceedings of the Royal Society B: Biological Sciences*, 273(1592), 1375-1383.
- David Orme, Rob Freckleton, Gavin Thomas, Thomas Petzoldt, Susanne Fritz, Nick Isaac and Will Pearse (2023). caper: Comparative Analyses of Phylogenetics and Evolution in R. R package version 1.0.3. <https://CRAN.R-project.org/package=caper>
- Dicke, U., & Roth, G. (2016). Neuronal factors determining high intelligence. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 371(1685), 20150180.
- Dunbar, R. I., & Shultz, S. (2007a). Evolution in the social brain. *science*, 317(5843), 1344-1347.
- Dunbar, R. I., & Shultz, S. (2007b). Understanding primate brain evolution. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 362(1480), 649-658.
- Ericson, P. G., Anderson, C. L., Britton, T., Elzanowski, A., Johansson, U. S., Källersjö, M., ... & Mayr, G. (2006). Diversification of Neoaves: integration of molecular sequence data and fossils. *Biology letters*, 2(4), 543-547.
- Felsenstein, J. (1985). Phylogenies and the comparative method. *The American Naturalist*, 125(1), 1-15.
- González-Lagos, C., Sol, D., & Reader, S. M. (2010). Large-brained mammals live longer. *Journal of evolutionary biology*, 23(5), 1064-1074.
- Gonzalez-Voyer, A., Gonzalez-Suarez, M., Vilà, C., & Revilla, E. (2016). Larger brain size indirectly increases vulnerability to extinction in mammals. *Evolution*, 70(6), 1364-1375.

- Griesser, M., Drobniak, S. M., Graber, S. M., & van Schaik, C. P. (2023). Parental provisioning drives brain size in birds. *Proceedings of the National Academy of Sciences*, 120(2), e2121467120.
- Hadley Wickham, Romain François, Lionel Henry and Kirill Müller (2022). *dplyr: A Grammar of Data Manipulation*. R package version 1.0.9. <https://CRAN.R-project.org/package=dplyr>
- Hallmann, K., & Griebeler, E. M. (2018). An exploration of differences in the scaling of life history traits with body mass within reptiles and between amniotes. *Ecology and Evolution*, 8(11), 5480-5494.
- Harrington, F. H., David Mech, L., & Fritts, S. H. (1983). Pack size and wolf pup survival: their relationship under varying ecological conditions. *Behavioral Ecology and Sociobiology*, 13, 19-26.
- Harvey, P. H., & Pagel, M. D. (1988). The allometric approach to species differences in brain size. *Human Evolution*, 3, 461-472.
- Healy, S. D., & Rowe, C. (2007). A critique of comparative studies of brain size. *Proceedings of the Royal Society B: Biological Sciences*, 274(1609), 453-464.
- Heldstab, S. A., Isler, K., Burkart, J. M., & van Schaik, C. P. (2019). Allomaternal care, brains and fertility in mammals: who cares matters. *Behavioral Ecology and Sociobiology*, 73, 1-13.
- Herculano-Houzel, S. (2011). Scaling of brain metabolism with a fixed energy budget per neuron: implications for neuronal activity, plasticity and evolution. *PLoS one*, 6(3), e17514.
- Herculano-Houzel, S. (2017). Numbers of neurons as biological correlates of cognitive capability. *Current Opinion in Behavioral Sciences*, 16, 1-7.
- Hofman, M. A. (1993). Encephalization and the evolution of longevity in mammals. *Journal of Evolutionary Biology*, 6(2), 209-227.
- Isler, K., & van Schaik, C. (2006). Costs of encephalization: the energy trade-off hypothesis tested on birds. *Journal of Human Evolution*, 51(3), 228-243.
- Isler, K., & van Schaik, C. P. (2009a). The expensive brain: a framework for explaining evolutionary changes in brain size. *Journal of human evolution*, 57(4), 392-400.
- Isler, K., & van Schaik, C. P. (2009b). Why are there so few smart mammals (but so many smart birds)? *Biology Letters*, 5(1), 125-129.

- Isler, K., & van Schaik, C. P. (2012). Allomaternal care, life history and brain size evolution in mammals. *Journal of human evolution*, 63(1), 52-63.
- Iwaniuk, A. N., & Nelson, J. E. (2003). Developmental differences are correlated with relative brain size in birds: a comparative analysis. *Canadian Journal of Zoology*, 81(12), 1913-1928.
- Iwaniuk, A.N., Nelson, J.E., Pellis, S.M., 2001. Do big-brained animals play more? comparative analyses of play and relative brain size in mammals. *J. Comp. Psychol.* 115, 29–41.
- Jetz, W., G. H. Thomas, J. B. Joy, K. Hartmann, and A. O. Mooers. 2012. The global diversity of birds in space and time. *Nature* 491:444-448.
- Jiménez-Ortega, D., Kolm, N., Immler, S., Maklakov, A. A., & Gonzalez-Voyer, A. (2020). Long life evolves in large-brained bird lineages. *Evolution*, 74(12), 2617-2628.
- Kotrschal, A., S. D. Buechel, S. M. Zala, A. Corral-Lopez, D. J. Penn, and N. Kolm. 2015. Brain size affects female but not male survival under predation threat. *Ecol. Lett.* 18:646–652.
- Kverková, K., Marhounová, L., Polonyiová, A., Kocourek, M., Zhang, Y., Olkowicz, S., ... & Němec, P. (2022). The evolution of brain neuron numbers in amniotes. *Proceedings of the National Academy of Sciences*, 119(11), e2121624119.
- Lefebvre, L., & Sol, D. (2008). Brains, lifestyles and cognition: are there general trends?. *Brain, behavior and evolution*, 72(2), 135-144.
- Lefebvre, L., Reader, S.M., Sol, D., 2004. Brains, innovations and evolution in birds and primates. *Brain Behav. Evol.* 63, 233–246.
- Leonard, W.R., Robertson, M.L., 1994. Evolutionary perspectives on human nutrition e the influence of brain and body size on diet and metabolism. *Am. J. Hum. Biol.* 6, 77e88.
- Malcolm, J. R., & Marten, K. (1982). Natural selection and the communal rearing of pups in African wild dogs (*Lycaon pictus*). *Behavioral Ecology and Sociobiology*, 10, 1-13.
- Marois, R., & Ivanoff, J. (2005). Capacity limits of information processing in the brain. *Trends in cognitive sciences*, 9(6), 296-305.
- Marshall, H. H., Sanderson, J. L., Mwanghuya, F., Businge, R., Kyabulima, S., Hares, M. C., ... & Cant, M. A. (2016). Variable ecological conditions promote male

- helping by changing banded mongoose group composition. *Behavioral Ecology*, 27(4), 978-987.
- Martin, R. D. (1996). Scaling of the mammalian brain: the maternal energy hypothesis. *Physiology*, 11(4), 149-156.
- Martin, R. D. (1998). Comparative aspects of human brain evolution: scaling, energy costs and confounding variables. The origin and diversification of language, 35-68.
- Martin, T. E. (2015). Age-related mortality explains life history strategies of tropical and temperate songbirds. *Science*, 349(6251), 966-970.
- Martins, E. P., & Hansen, T. F. (1997). Phylogenies and the comparative method: a general approach to incorporating phylogenetic information into the analysis of interspecific data. *The American Naturalist*, 149(4), 646-667.
- McNab, B.K., Eisenberg, J.F., 1989. Brain size and its relation to the rate of metabolism in mammals. *Am. Nat.* 133, 157e167.
- Minias, P., & Podlaszczuk, P. (2017). Longevity is associated with relative brain size in birds. *Ecology and evolution*, 7(10), 3558-3566.
- Mink, J. W., Blumenschine, R. J., & Adams, D. B. (1981). Ratio of central nervous system to body metabolism in vertebrates: its constancy and functional basis. *American Journal of Physiology-Regulatory, Integrative and Comparative Physiology*, 241(3), R203-R212.
- Monaghan, P., Metcalfe, N. B., & Torres, R. (2009). Oxidative stress as a mediator of life history trade-offs: mechanisms, measurements and interpretation. *Ecology letters*, 12(1), 75-92.
- Myhrvold, N. P., Baldrige, E., Chan, B., Sivam, D., Freeman, D. L., & Ernest, S. M. (2015). An amniote life-history database to perform comparative analyses with birds, mammals, and reptiles: *Ecological Archives* E096-269. *Ecology*, 96(11), 3109-3109.
- Němec, P., & Osten, P. (2020). The evolution of brain structure captured in stereotyped cell count and cell type distributions. *Current opinion in neurobiology*, 60, 176-183.
- Nichols, H. J., Amos, W., Bell, M. B., Mwanguhya, F., Kyabulima, S., & Cant, M. A. (2012). Food availability shapes patterns of helping effort in a cooperative mongoose. *Animal Behaviour*, 83(6), 1377-1385.

- Northcutt, R. G. (2002). Understanding vertebrate brain evolution. *Integrative and comparative biology*, 42(4), 743-756.
- Paradis E, Schliep K (2019). "ape 5.0: an environment for modern phylogenetics and evolutionary analyses in R." *Bioinformatics*, *35*, 526-528. doi:10.1093/bioinformatics/bty633 (URL: <https://doi.org/10.1093/bioinformatics/bty633>).
- Pfenning, A. R., Hara, E., Whitney, O., Rivas, M. V., Wang, R., Roulhac, P. L., ... & Jarvis, E. D. (2014). Convergent transcriptional specializations in the brains of humans and song-learning birds. *Science*, 346(6215), 1256846.
- Promislow, D. E., & Harvey, P. H. (1990). Living fast and dying young: A comparative analysis of life-history variation among mammals. *Journal of Zoology*, 220(3), 417-437.
- R Core Team (2021). R: A language and environment for statistical computing. R Foundation for Statistical Computing, Vienna, Austria. URL <https://www.R-project.org/>.
- Revell, L. J. (2010). Phylogenetic signal and linear regression on species data. *Methods in Ecology and Evolution*, 1(4), 319-329.
- Revell, L. J. (2012) phytools: An R package for phylogenetic comparative biology (and other things). *Methods in Ecology and Evolution*, 3, 217-223.
- Reznick, D. A., Bryga, H., & Endler, J. A. (1990). Experimentally induced life-history evolution in a natural population. *Nature*, 346(6282), 357-359.
- Rogell, B., Dowling, D. K., & Husby, A. (2020). Controlling for body size leads to inferential biases in the biological sciences. *Evolution Letters*, 4(1), 73-82.
- Roth, G. (2015). Convergent evolution of complex brains and high intelligence. *Philosophical Transactions of the Royal Society B: Biological Sciences*, 370(1684), 20150049.
- Roth, G., & Dicke, U. (2005). Evolution of the brain and intelligence. *Trends in cognitive sciences*, 9(5), 250-257.
- Sol D, Sayol F, Ducatez S, Lefebvre L. 2016 The life-history basis of behavioural innovations. *Phil. Trans. R. Soc. B* 371: 20150187.
- Sol, D. (2009). Revisiting the cognitive buffer hypothesis for the evolution of large brains. *Biology letters*, 5(1), 130-133.

- Sol, D., Duncan, R.P., Blackburn, T.M., Cassey, P., Lefebvre, L., 2005. Big brains, enhanced cognition, and response of birds to novel environments. *Proc. Natl. Acad. Sci.* 102, 5460–5465.
- Sol, D., Székely, T., Liker, A., & Lefebvre, L. (2007). Big-brained birds survive better in nature. *Proceedings of the Royal Society B: Biological Sciences*, 274(1611), 763-769.
- Sol, D., Timmermans, S., & Lefebvre, L. (2002). Behavioural flexibility and invasion success in birds. *Animal behaviour*, 63(3), 495-502.
- Starck, J. M., & Ricklefs, R. E. (Eds.). (1998). *Avian growth and development: evolution within the altricial-precocial spectrum* (No. 8). Oxford University Press, USA.
- Striedter, G. F. 2005. *Principles of brain evolution*. Sinauer Associates, Inc., Sunderland, MA.
- Symonds, M. R., & Blomberg, S. P. (2014). A primer on phylogenetic generalised least squares. *Modern phylogenetic comparative methods and their application in evolutionary biology: concepts and practice*, 105-130.
- Vágási, C. I., Vincze, O., Pătraș, L., Osváth, G., Marton, A., Bărbos, L., ... & Pap, P. L. (2016). Large-brained birds suffer less oxidative damage. *Journal of Evolutionary Biology*, 29(10), 1968-1976.
- van Schaik, C. P., Song, Z., Schuppli, C., Drobnik, S. M., Heldstab, S. A., & Griesser, M. (2023). Extended parental provisioning and variation in vertebrate brain sizes. *PLoS Biology*, 21(2), e3002016.
- White, C. R., & Seymour, R. S. (2004). Does basal metabolic rate contain a useful signal? Mammalian BMR allometry and correlations with a selection of physiological, ecological, and life-history variables. *Physiological and Biochemical Zoology*, 77(6), 929-941.

X. ANEXOS

Tabla 1A. Resultados de los modelos PGLS separados por modo de desarrollo. Los modelos altriciales y precoces se ejecutaron con 428 y 256 especies respectivamente, exceptuando al modelo 8, que se ejecutó con 42 especies debido a la cantidad limitada de datos neuronales.

Códigos de significancia: * < 0.001, ** < 0.01, * < 0.05.**

No.	Modelo	Coficiente	SE	t	p	λ	R ²
1a	Dependiente: Edad de emplumado (Altriciales)					0.94	0.21
	Intercepto	2.2495	0.1592	14.1270	< 2.2e-16 ***		
	Tiempo de aprovisionamiento	0.3195	0.0301	10.6040	< 2.2e-16 ***		
1b	Dependiente: Edad de emplumado (Precoces)					0.78	0.19
	Intercepto	21.3330	11.2435	1.8974	0.05891 .		
	Tiempo de aprovisionamiento	0.3488	0.0450	7.7562	2.078e-13 ***		
2a	Dependiente: Edad de emplumado (Altriciales)					0.95	0.40
	Intercepto	1.8653	0.1434	13.0064	< 2.2e-16 ***		
	Tiempo de aprovisionamiento	0.1547	0.0291	5.3084	1.78e-07 ***		
	Masa corporal	0.1924	0.0160	12.0065	< 2.2e-16 ***		
2b	Dependiente: Edad de emplumado (Precoces)					0.76	0.25
	Intercepto	-23.3373	14.4609	-1.6138	0.1078		
	Tiempo de aprovisionamiento	0.2913	0.0449	6.4814	4.668e-10 ***		
	Masa corporal	6.6668	1.4832	4.4948	1.057e-05 ***		
3a	Dependiente: Edad de emplumado (Altriciales)					0.97	0.34
	Intercepto	2.6880	0.1102	24.3900	< 2.2e-16 ***		
	Masa del huevo	0.3224	0.0217	14.8340	< 2.2e-16 ***		
3b	Dependiente: Edad de emplumado (Precoces)					0.78	0.14
	Intercepto	-30.3321	15.0197	-2.0195	0.04448 *		
	Masa del huevo	14.4175	2.2621	6.3736	8.542e-10 ***		
4a	Dependiente: Edad de emplumado (Altriciales)					0.98	0.36
	Intercepto	2.4039	0.1382	17.3948	< 2.2e-16 ***		
	Masa del huevo	0.1009	0.0693	1.4554	0.1463		
	Masa corporal	0.1628	0.0484	3.3628	0.0008411 ***		
4b	Dependiente: Edad de emplumado (Precoces)					0.78	0.14
	Intercepto	-32.2298	15.8422	-2.0344	0.04294 *		
	Masa del huevo	11.6112	6.6732	1.7400	0.08307 .		
	Masa corporal	2.0166	4.5533	0.4429	0.6582		
6a	Dependiente: Tiempo de aprovisionamiento (Altriciales)					0.79	0.26

	Intercepto	2.8467	0.1653	17.2233	<2e-16 ***		
	Longevidad máxima	-0.0005	0.0375	-0.0127	0.9898		
	Masa corporal	0.2514	0.0224	11.2233	<2e-16 ***		
6b	Dependiente: Tiempo de aprovisionamiento (Precoces)					0.84	0.09
	Intercepto	-45.8498	22.4144	-2.0456	0.04183 *		
	Longevidad máxima	2.1973	3.2374	0.6787	0.4979		
	Masa corporal	9.6702	2.1173	4.5671	7.703e-06 ***		
7a	Dependiente: Tamaño cerebral (Altriciales)					0.88	0.89
	Intercepto	-2.6031	0.1284	-20.2728	< 2.2e-16 ***		
	Tiempo de aprovisionamiento	0.1167	0.0250	4.6723	3.997e-06 ***		
	Edad de emplumado	-0.0211	0.0386	-0.5450	0.5860		
	Masa corporal	0.6109	0.0143	42.6454	< 2.2e-16 ***		
7b	Dependiente: Tamaño cerebral (Precoces)					0.93	0.90
	Intercepto	-2.2398	0.1352	-16.5688	< 2.2e-16 ***		
	Tiempo de aprovisionamiento	0.0009	0.0003	2.6542	0.008451 **		
	Edad de emplumado	-0.0007	0.0004	-1.5277	0.1278		
	Masa corporal	0.5457	0.0123	44.4978	< 2.2e-16 ***		
8	Dependiente: Número de neuronas (Altriciales)					0.89	0.78
	Intercepto	17.0391	0.5004	34.0499	< 2.2e-16 ***		
	Tiempo de aprovisionamiento	-0.0008	0.0018	-0.4262	0.6722		
	Edad de emplumado	0.2716	0.1957	1.3881	0.1726		
	Masa corporal	0.4163	0.0723	5.7584	9.541e-07 ***		

Tabla 2A. Resultados de los modelos PGLS de interacción. El modelo 9 se ejecutó con 1978 especies. Para el modelo 10 se excluyeron todas las especies precoces que no alimentan a los polluelos, dejando un total de 1682 especies. Para el modelo 11 se excluyeron todas las especies que alimentan a los polluelos, dejando a 1755 especies. El modelo 12 se ejecutó con 92 especies debido a la cantidad limitada de datos neuronales.

Códigos de significancia: * < 0.001, ** < 0.01, * < 0.05.**

No.	Modelo	Coficiente	SE	t	p	λ
9	Dependiente: Tamaño cerebral					0.89
	Intercepto	-2.2172	0.1200	-18.4710	< 2.2e-16 ***	
	Masa corporal	0.5474	0.0091	60.4150	< 2.2e-16 ***	
	Modo de desarrollo (1=Altriciales, 0=Precoces)	-0.2377	0.0821	-2.8960	0.003821 **	

	Masa corporal:Modo de desarrollo	0.0669	0.0110	6.0620	1.606e-09 ***	
10	Dependiente: Tamaño cerebral (Solo precoces que alimentan)					0.88
	Intercepto	-2.3126	0.1325	-17.4484	< 2e-16 ***	
	Masa corporal	0.5827	0.0129	45.0648	< 2e-16 ***	
	Modo de desarrollo (1=Altriciales, 0=Precoces)	-0.0520	0.1013	-0.5134	0.6077	
	Masa corporal:Modo de desarrollo	0.0329	0.0143	2.2958	0.0218	
11	Dependiente: Tamaño cerebral (Solo precoces que NO alimentan)					0.89
	Intercepto	-2.1001	0.1360	-15.4426	< 2.2e-16 ***	
	Masa corporal	0.5118	0.0125	40.9722	< 2.2e-16 ***	
	Modo de desarrollo (1=Altriciales, 0=Precoces)	-0.1774	0.1208	-1.4682	0.1422	
	Masa corporal:Modo de desarrollo	0.1062	0.0141	7.5537	6.772e-14 ***	
12	Dependiente: Número de neuronas (Altriciales)					0.97
	Intercepto	-418,645,625	388,188,573	-1.0785	0.2837	
	Masa corporal	141,216,341	37,852,478	3.7307	0.0003319 ***	
	Modo de desarrollo (1=Altriciales, 0=Precoces)	-651,726,233	457,990,091	-1.4230	0.1582	
	Masa corporal:Modo de desarrollo	199,893,834	50,358,401	3.9694	0.0001437 ***	

Tabla 3A. Datos utilizados en los modelos presentados en resultados. Las referencias para las columnas de “Griesser” y las referencias para el número de neuronas se listan al final de la tabla. Las referencias del resto de los datos se encuentra en la columna “ref.rest”

#	species	dev. mode. Griesser	time. fed. Griesser	total. neurons	neuron. ref	dev. mode	fledging. age	brain mass	body. mass	ref.rest
1	Abroscopus albogularis	NA	NA	NA	NA	A	NA	0.33152	5	(lifehistory)(Ali S, Ripley SD (1973) Handbook of the birds of India and Pakistan. Vol. 8. Warblers to redstarts. Oxford University Press: Bombay. , parental)
2	Acanthagenys rufogularis	A	28.5	NA	NA	A	16.5	1.20176	47.8	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)

3	Acanthiza chrysorrhoa	A	60	NA	NA	A	18.5	0.445 48	9.375	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
4	Acanthiza ewingii	NA	NA	NA	NA	A	NA	0.652 7031 44	3.998 82272 9	(Nicholls JA, Double MC, Rowell DM, Magrath RD (2000) The evolution of cooperative and pair breeding in thornbills Acanthiza (Pardalotidae). Journal of Avian Biology 31: 165-176.)(Sayol et al., 2016)
5	Acanthiza inornata	NA	NA	NA	NA	A	NA	0.455 8311 35	8.499 43762 9	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2017)
6	Acanthiza lineata	A	NA	NA	NA	A	18.5	0.528 36	7.1	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
7	Acanthiza nana	NA	NA	NA	NA	A	NA	0.383 4167 14	7.249 98935 1	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2018)
8	Acanthiza pusilla	A	61.2	NA	NA	A	15.7	0.466 2	7.6	(lifehistory)(Green DJ, Cockburn A (1999) Life history and demography of an uncooperative Australian passerine, the brown thornbill. Australian Journal of Zoology 47: 633-649., parental)
9	Acanthiza reguloides	A	63	NA	NA	A	15.2	0.404 04	7.7	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
10	Acanthiza uropygialis	NA	NA	NA	NA	A	NA	0.372 96	6.35	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
11	Acanthorhynchus tenuirostris	A	23.7	NA	NA	A	13.7	0.497 28	9.787 5	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
12	Accipiter brevipes	A	65	NA	NA	NA	42.5	3.3	203.5	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New

										world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
13	Accipiter cirrocephalus	A	88	NA	NA	SA	28.1	2.47604	180	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
14	Accipiter cooperii	A	72	NA	NA	SA	32	4.8692	452	(427444445732, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Boal CW, Spaulding RL (2000) Helping at a Cooper's hawk nest. Wilson Bulletin 112: 275-277., parental)
15	Accipiter erythrauchen	NA	NA	NA	NA	NA	42	4.64128	156	NA,(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona.)
16	Accipiter fasciatus	A	72.5	NA	NA	SA	30	4.662	453.5	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
17	Accipiter gentilis	A	67	813467765.8	Sol	SA	41.65	8.16368	988.75	(4.37444445450729E+21, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)

18	Accipiter haplochrous	A	NA	NA	NA	SA	NA	4.050 76	240.5	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
19	Accipiter nissus	A	52.5	401751 000	Kverkova + sol	NA	26.5	2.96	212	(4.5051072973282E+22, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Bos J, van Kooten T (1993) Brood sharing of two female sparrowhawks Accipiter nissus. Limosa 66: 161-163., parental)
20	Accipiter novaeholland iae	A	88	NA	NA	SA	37.5	4.910 64	479.5 83333 3	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
21	Accipiter striatus	A	51.5	NA	NA	SA	24.25	2.310 28	138.5	(427437444445, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
22	Accipiter tachiro	A	124	NA	NA	NA	32	4.3	298.5	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK,

										Newman K) p. 294-436. Academic Press: London., parental)
23	Aceros leucocephalus	NA	NA	NA	NA	A	92	13.27 116	1081	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
24	Aceros plicatus	NA	NA	NA	NA	A	NA	15.97 512	1737. 5	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
25	Aceros undulatus	A	270	NA	NA	A	96.5	18.90 7	2268. 75	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
26	Acridotheres tristis	A	68	NA	NA	A	23	2.569 28	113.5	(lifehistory)(Feare C, Craig A (1998) Starlings and mynas. Christopher Helm: London. , parental)
27	Acrocephalus arundinaceus	A	26	NA	NA	A	16	0.942 76	30.17 5	(435450729820, anage)(lifehistory)(Cramp S, ed. (1992) The birds of the western Palearctic Vol. VI. Warblers.Oxford University Press: Oxford., parental)
28	Acrocephalus schoenobaenus	A	27.5	NA	NA	A	13.5	0.466 2	11.9	(450510729820, anage)(lifehistory)(Cramp S, ed. (1992) The birds of the western Palearctic Vol. VI. Warblers.Oxford University Press: Oxford., parental)
29	Acrocephalus scirpaceus	A	23	NA	NA	NA	12	0.48	11.8	(450729732820, anage)(Cramp S, ed. (1992) The birds of the western Palearctic Vol. VI. Warblers.Oxford University Press: Oxford., parental)
30	Acryllium vulturinum	P	0	NA	NA	P	0.1	4.713 8	1333. 875	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
31	Actitis hypoleucos	P	0	NA	NA	P	17.5	0.890 96	48	(450729820, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
32	Actitis macularius	P	0	NA	NA	P	17.25	0.704 48	41.85 83333	(444445576, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
33	Actophilornis africanus	P	0	NA	NA	NA	NA	1.5	200.4 75	(Jenni DA (1996) Family Jacanidae (Jacanas). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 276-291. Lynx edicions: Barcelona., parental)

34	Adelomyia melanogenys	A	47	NA	NA	NA	NA	NA	NA	NA	
35	Aechmophorus occidentalis	P	71	NA	NA	P	70	3.843 56	1314		(1444445977, anage)(lifecycle)(Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. Storer RW, Nuechterlein GL (1992) Western grebe. Clark's grebe. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-22. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
36	Aegithalos caudatus	A	46	NA	NA	NA	16	0.45	8.6		(450510729820, anage)(Hatchwell BJ, Ross DJ, Chaline N, Fowle MK, Burke TA (2002) Parentage in the cooperative breeding system of long-tailed tits, Aegithalos caudatus. Animal Behaviour 64: 55-63. Hatchwell BJ, Anderson C, Ross DJ, Fowle MK, Blackwell PG (2001) Social organization of cooperatively breeding long-tailed tits: kinship and spatial dynamics. Journal of Animal Ecology 70: 820-830., parental)
37	Aegithalos concinus	A	25	NA	NA	A	NA	0.383 32	6.25		(lifecycle)(Harrap S, Quinn D (1996) Tits, nuthatches and treecreepers. Christopher Helm: London. , parental)
38	Aegithina tiphia	A	NA	NA	NA	A	NA	0.694 12	12.5		(lifecycle)(Wells DR (2005) Family Aegithidae (loras). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 278-290. Lynx edicions: Barcelona., parental)
39	Aegolius acadicus	A	73	NA	NA	SA	30.25	3.480 96	95.62 5		(444445510, anage)(lifecycle)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
40	Aegolius funereus	A	78	925100 819.4	Sol	SA	31.7	4.164 72	131.5		(4444457291143, anage)(lifecycle)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
41	Aegotheles cristatus	A	NA	NA	NA	SA	26	1.471 12	44.12 5		(lifecycle)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
42	Aegyptius monachus	A	167.5	NA	NA	NA	112.5	27.3	9625		(1821, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)

43	Aeronautes saxatalis	A	NA	NA	NA	A	43	0.694 12	31.95	(427444445, anage)(lifehistory)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
44	Aethia cristatella	P	33	NA	NA	NA	NA	NA	NA	NA
45	Aethia pusilla	P	29	NA	NA	SP	32	1.533 28	85	(427444445732, anage)(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
46	Aethopyga nipalensis	NA	NA	NA	NA	A	NA	0.341 88	6.325	(lifehistory)(Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
47	Agapornis canus	A	57	NA	NA	A	43	1.191 4	29.8	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III.Academic Press: London., parental)
48	Agapornis fischeri	A	NA	NA	NA	A	38.4	2.020 2	48.3	(600669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III.Academic Press: London., parental)
49	Agapornis lilianae	A	NA	NA	NA	A	44.2	1.585 08	37.3	(669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III.Academic Press: London., parental)
50	Agapornis nigrigenis	A	NA	NA	NA	NA	NA	NA	NA	NA
51	Agapornis personatus	NA	NA	NA	NA	A	44.3	1.937 32	52.5	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press:

										Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III.Academic Press: London., parental)
52	Agapornis pullarius	NA	NA	NA	NA	A	45.5	1.49184	39.5	(575669, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III.Academic Press: London., parental)
53	Agapornis roseicollis	A	133	NA	NA	A	42.8	1.92696	54.25	(979988989, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III.Academic Press: London., parental)
54	Agapornis swindernianus	NA	NA	NA	NA	A	NA	1.58508	40	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III.Academic Press: London., parental)
55	Agapornis taranta	A	NA	NA	NA	A	49.3	2.05128	57.5	(669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III.Academic Press: London., parental)
56	Agelaioides badius	A	43.5	NA	NA	A	NA	1.53328	43.5	(lifehistory)(Birks SM, Edwards SV (2002) A phylogeny of the megapodes (Aves: Megapodiidae) based on nuclear and mitochondrial DNA sequences. Molecular Phylogenetics and Evolution 23: 408-421. Hams MJ (1994) Belted kingfisher. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-16. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C. Pereira SL, Baker AJ, Wajntal A (2002) Combined nuclear and mitochondrial DNA sequences resolve generic

										relationships within the Cracidae (Galliformes, Aves). Systematic Biology 51: 946-958., parental)
57	Agelaius phoeniceus	A	26.1	NA	NA	A	16.05	1.750 84	54	(61444445732, anage)(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
58	Agelaiocercus coelestis	NA	NA	NA	NA	NA	NA	0.22	5.7	(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
59	Agelaiocercus kingi	NA	NA	NA	NA	NA	NA	0.22	4.9	(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
60	Ailuroedus crassirostris	A	101	NA	NA	A	21	4.154 36	207	(lifehistory)(Frith CB, Frith DW (2004) The bowerbirds Ptilonorhynchidae. Oxford University Press: Oxford. , parental)
61	Ailuroedus melanotis	A	69	NA	NA	A	19.5	4.560 2030 17	165.0 08997 1	(Frith CB, Frith DW (2004) The bowerbirds Ptilonorhynchidae. Oxford University Press: Oxford.)(Sayol et al., 2019)
62	Aimophila cassinii	A	33	NA	NA	A	9	0.808 08	18.82 5	(lifehistory)(Dunning JB, Jr., Bowers RK, Jr., Suter SJ, Bock CE (1999) Cassin's sparrow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
63	Aix galericulata	P	0	354952 373.6	Sol	P	42.5	4.371 92	560	(553820, anage)(lifehistory)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks. Oxford University Press: Oxford., parental)
64	Aix sponsa	P	0	305816 000	Kverkova + sol	P	61.5	4.403	657.5	(4374444455105770000, anage)(lifehistory)(Hepp GR, Bellrose FC (1995) Wood duck. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
65	Alauda arvensis	A	34.5	NA	NA	A	15.25	0.994 56	37.5	(435444445450729000, anage)(lifehistory)(de Juana E, Suar_z F, Ryan PG, Alstr_m P, Donald PF (2004) Family Alaudidae (Larks). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 496-601. Lynx edicions: Barcelona. Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes. Oxford University Press: Oxford., parental)

66	Alca torda	P	80	NA	NA	SP	17.2	5.573 68	720	(444445450729732000, anage)(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
67	Alcedo atthis	A	31.5	NA	NA	A	25	0.766 64	31.4	(450510729820, anage)(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
68	Alcedo azurea	A	42	NA	NA	A	28	1.015 28	34.37 5	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
69	Alcedo cristata	A	39.5	NA	NA	NA	NA	0.34	15.7	(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
70	Alcippe nipalensis	NA	NA	NA	NA	A	NA	0.963 48	15.8	(lifehistory)(Ali S, Ripley SD (1972) Handbook of the birds of India and Pakistan. Vol. 7. Laughing thrushes to the mangrove whistler. Oxford University Press: Bombay. , parental)
71	Alectoris barbara	P	0	NA	NA	NA	NA	2.8	418.5	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
72	Alectoris chukar	P	0	NA	NA	P	8	2.569 28	535.5	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
73	Alectoris graeca	P	0	NA	NA	NA	8	2.1	597.5	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
74	Alectoris rufa	P	0	197175 549.5	Sol	NA	NA	2	516	(575820, anage)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
75	Alectura lathamii	P	0	NA	NA	SUP	0.01	5.884 48	2330	(2732820, anage)(lifehistory)(Jones DN, Dekker RWRJ, Roselaar CS (1995) The Megapodes: Megapodiidae. Oxford University Press: Oxford. , parental)
76	Alethe diademata	A	NA	NA	NA	A	12.5	1.077 44	31.9	(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
77	Alisterus scapularis	A	49	NA	NA	A	35	4.641 28	232.5	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to

										dollarbird.Oxford University Press: Melbourne., parental)
78	Alle alle	P	28	NA	NA	SP	27	2.1756	160	(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
79	Alophoixus pallidus	NA	NA	NA	NA	A	NA	1.28464	46.25	(lifehistory)(Fishpool LDC, Tobias JA (2005) Family Pycnonotidae (Bulbuls). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 124-250. Lynx edicions: Barcelona., parental)
80	Alopochen aegyptiaca	P	0	NA	NA	P	72.5	7.17948	1900	(427448575, anage)(lifehistory)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
81	Amadina fasciata	A	45	NA	NA	A	22	0.61124	17.9	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
82	Amalocichla incerta	NA	NA	NA	NA	A	NA	1.139246574	26.49616485	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2020)
83	Amandava amandava	A	33	NA	NA	A	19	0.39368	9.6	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London. Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
84	Amaurolimnas concolor	NA	NA	NA	NA	P	NA	1.79228	133	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
85	Amauornis flavirostra	P	50.5	NA	NA	P	NA	1.52292	94	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
86	Amauornis olivacea	P	NA	NA	NA	P	NA	2.23776	281	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
87	Amauornis phoenicurus	P	NA	NA	NA	P	NA	2.42424	215.5	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
88	Amazilia tzacatl	A	58	NA	NA	A	21.5	0.22792	5.05	(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)

89	Amazona aestiva	A	NA	NA	NA	A	63	8.536 64	400	(669732820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
90	Amazona albifrons	NA	NA	NA	NA	A	NA	5.470 08	209	(669, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
91	Amazona amazonica	A	NA	NA	NA	A	60	8.588 44	370	(575669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
92	Amazona auropalliata	A	NA	NA	NA	A	60	9.914 52	432.1 6	(575979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
93	Amazona autumnalis	NA	NA	NA	NA	A	56	8.422 68	411.49	(669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
94	Amazona farinosa	A	140	NA	NA	A	62.5	10.50 504	664.8 05	(820979, anage)(lifehistory)(Hilty SL (2003) Birds of Venezuela. Princeton University Press: Princeton. Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
95	Amazona finschi	A	NA	NA	NA	NA	NA	7.92	302	(669732820, anage)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)

96	Amazona leucocephala	NA	NA	NA	NA	A	56	5.83268	235.5	(820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
97	Amazona ochrocephala	A	NA	NA	NA	A	60	8.95104	432.16	(669732, anage)(lifehistory)(Hilty SL (2003) Birds of Venezuela. Princeton University Press: Princeton. Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
98	Amazona oratrix	A	NA	NA	NA	A	60	8.93032	434.83	(820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
99	Amazona ventralis	NA	NA	NA	NA	A	59	6.18492	235.45	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
100	Amazona versicolor	NA	NA	NA	NA	NA	NA	7.8	714.25	(820979, anage)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
101	Amazona vinacea	NA	NA	NA	NA	A	67.5	7.72856	254	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
102	Amazona viridigenalis	A	88	NA	NA	A	53	7.13804	319	(820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)

103	Amazona vittata	NA	NA	NA	NA	A	NA	6.057 9238 59	229.0 6367	(669979)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2021)
104	Amazonetta brasiliensis	P	0	NA	NA	P	NA	4.040 4	400	(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
105	Amblycercus holosericeus	A	NA	NA	NA	A	NA	2.289 56	64.65	(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
106	Amblyornis macgregoriae	A	NA	NA	NA	A	NA	3.708 88	118.5	(lifehistory)(Frith CB, Frith DW (2004) The bowerbirds Ptilonorhynchidae. Oxford University Press: Oxford. , parental)
107	Amblyramphus holosericeus	A	NA	NA	NA	A	NA	2.413 88	53.8	(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
108	Ammodramus savannarum	A	27.5	NA	NA	A	9	0.673 4	17.9	(42743544444552000, anage)(lifehistory)(Kaspari M, O'Leary H (1988) Non-parental attendants in a north-temperate migrant. Auk 105: 792-793. Vickery PD (1996) Grasshopper sparrow (Ammodramus savannarum). in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
109	Ammoperdix heyi	P	0	NA	NA	NA	NA	1.5	185.5	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
110	Amphispiza bilineata	A	23.5	NA	NA	A	NA	0.704 48	13.5	(435444445580820, anage)(lifehistory)(Johnson MJ, van Riper C, Pearson KM (2002) Black-throated sparrow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
111	Amytornis goyderi	NA	NA	NA	NA	A	NA	0.808 08	16.7	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
112	Anas acuta	P	0	NA	NA	P	45	4.889 92	872.2 5	(437444445450, anage)(lifehistory)(Austin JE, Miller MR (1995) Northern pintail. in Birds of North America: Life Histories for the Twenty-First

										Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
113	Anas americana	P	0	NA	NA	P	48.25	4.1958	786	(444445576, anage)(lifehistory)(Mowbray T (1999) American wigeon. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
114	Anas andium	P	0	NA	NA	NA	NA	NA	NA	NA
115	Anas bahamensis	P	0	420381 925.6	Sol	NA	NA	3.9	532.5	(427820849, anage)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
116	Anas castanea	P	0	NA	NA	P	0.1	3.864 28	590	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne., parental)
117	Anas clypeata	P	0	479523 924.7	Sol	P	44.75	3.688 16	613	(425444445553729000, anage)(lifehistory)(Dubowy PJ (1996) Northern shoveler. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
118	Anas crecca	P	0	375409 000	Kverkova + sol	P	39	2.797 2	343.8	(425437444445450000, anage)(lifehistory)(Johnson KP (1995) Green-winged teal. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
119	Anas cyanoptera	P	0	NA	NA	P	49	3.377 36	383	(444445576, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. Gammonley JH (1996) Cinnamon teal. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
120	Anas discors	P	0	NA	NA	P	41.25	3.035 48	398.5	(427437444445, anage)(lifehistory)(Rohwer FC, Johnson WP, Loos ER (2002) Blue-winged teal. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim

										P, Gill F) p. 1-36. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
121	Anas eatoni	P	0	NA	NA	P	45	3.523 1911 08	454.8 64694 5	(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne.)(Sayol et al., 2022)
122	Anas erythrorhyncha	P	0	NA	NA	NA	56	4.4	577.2 5	(Newman K (1982) Anatidae, swans, geese and ducks. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 220-293. Academic Press: London., parental)
123	Anas flavirostris	P	0	NA	NA	P	46	3.688 16	420.2 5	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne. Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
124	Anas georgica	P	0	NA	NA	NA	NA	4.3	585.6 66666 7	(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
125	Anas gracilis	P	0	NA	NA	P	56	3.646 72	488.7 5	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne., parental)
126	Anas hottentota	P	0	NA	NA	P	0.1	3.118 36	240	(lifehistory)(Newman K (1982) Anatidae, swans, geese and ducks. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 220-293. Academic Press: London., parental)
127	Anas laysanensis	NA	NA	NA	NA	P	55.5	3.677 8	1082	(445576, anage)(lifehistory)(Moulton DW, Marshall AP (1996) Laysan duck. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
128	Anas luzonica	P	0	NA	NA	NA	NA	5.1	866.7 5	(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. , parental)
129	Anas penelope	P	0	285523 184.3	Sol	NA	42.5	4.2	757	(425444450729, anage)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks. Oxford University Press: Oxford. Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. , parental)

130	Anas platalea	P	0	NA	NA	P	0.1	3.626	523	(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
131	Anas platyrhynchos	P	0	367466 000	Kverkova + sol	P	55.5	5.635 84	1121	(6.1394437444445E+22, anage)(lifehistory)(Drilling N, Titman R, McKinney F (2002) Mallard. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-44. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
132	Anas poecilorhyncha	P	0	NA	NA	NA	NA	6	1163	(Carboneras C (1992) Family Anatidae (Ducks, geese and swans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 536-628. Lynx edicions: Barcelona. Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. , parental)
133	Anas querquedula	P	0	NA	NA	NA	37.75	2.8	334	(450729820, anage)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
134	Anas rhynchos	P	0	NA	NA	P	49	3.667 44	665	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne., parental)
135	Anas sibilatrix	P	0	NA	NA	NA	NA	4.3	830	(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
136	Anas smithii	P	0	NA	NA	P	56	3.905 72	606.7 5	(lifehistory)(Newman K (1982) Anatidae, swans, geese and ducks. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 220-293. Academic Press: London. Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. , parental)
137	Anas strepera	P	0	NA	NA	P	49.5	4.040 4	850	(437444445450732000, anage)(lifehistory)(Leschack CR, McKnight SK, Hepp GR (1997) Gadwall. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
138	Anas superciliosa	P	0	NA	NA	P	0.1	5.521 88	981	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne. Kear J (2005) Ducks, Geese and Swans Vol 2:

										Species accounts (Cairana to Mergus). Oxford University Press: Oxford. , parental)
139	Anas undulata	P	0	NA	NA	NA	68	5.5	917	(Newman K (1982) Anatidae, swans, geese and ducks. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 220-293. Academic Press: London. Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. , parental)
140	Anas versicolor	P	0	NA	NA	P	0.1	3.760 68	483.7 5	(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
141	Anas wyvilliana	P	0	NA	NA	P	55.5	4.703 44	1105	(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. Engilis A, Uyehara KJ, Giffin JG (2002) Hawaiian duck. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
142	Anastomus lamelligerus	A	NA	NA	NA	SA	52.5	10.65 008	1077. 16666 7	(668820, anage)(lifehistory)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
143	Anastomus oscitans	A	NA	NA	NA	NA	NA	11	1400	(668, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. Datta T, Pal BC (1995) Polygyny in the Asian openbill (Anastomus oscitans). Auk 112: 257-260., parental)
144	Andigena hypoglauca	NA	NA	NA	NA	A	NA	5.389 0393 66	297.9 72142 3	(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford.)(Sayol et al., 2023)
145	Anhima cornuta	P	0	NA	NA	NA	NA	8.5	3125	(Carboneras C (1992) Family Anhimidae (Screamers). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 528-535. Lynx edicions: Barcelona., parental)
146	Anhinga anhinga	A	42	NA	NA	NA	42	4.6	1235	(1425445, anage)(Orta J (1992) Family Anhingidae (Darters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 354-361. Lynx edicions: Barcelona., parental)
147	Anhinga melanogaster	A	60	NA	NA	A	52.5	4.724 16	1518	(1820, anage)(lifehistory)NA

148	Anisognathus somptuosus	NA	NA	NA	NA	A	NA	1.543 64	44.5	(lifehistory)(Strewe R (2001) First breeding records of black-chinned mountain-tanager Anisognathus notabilis and first nesting records in the wild of blue-winged mountain-tanager A. flavinucha with ecological notes. Cotinga 15: 38-42., parental)
149	Anodorhynchus hyacinthinus	NA	NA	NA	NA	A	90	25.62 028	1360. 77	(669979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
150	Anous minutus	P	180	NA	NA	NA	NA	NA	NA	NA
151	Anous stolidus	P	71	NA	NA	SP	35	2.310 28	180	(425444445732818000, anage)(lifehistory)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona., parental)
152	Anser albifrons	P	0	NA	NA	P	41.5	9.417 24	2387. 5	(437444445, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. Ely CR, Dzubin AX (1994) Greater white-fronted goose. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
153	Anser anser	P	0	738232 000	Kverkova + sol	NA	55	11.6	5	(543575729732820, anage)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
154	Anser cygnoides	P	0	917876 156	Sol	NA	70	10.3	3475	(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
155	Anser erythropus	P	0	NA	NA	NA	37.5	6.7	25	(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
156	Anser fabalis	P	0	NA	NA	P	56	11.03 34	2933	(444450729, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
157	Anseranas semipalmata	P	121	NA	NA	P	80.66	9.116 8	2071	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to

											ducks.Oxford University Press: Melbourne., parental)
158	Anthochaera carunculata	A	38	NA	NA	A	17	2.2792	102.55		(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
159	Anthochaera chrysoptera	A	29	NA	NA	A	15	1.7612	66.075		(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
160	Anthracoceros coronatus	NA	NA	NA	NA	A	NA	8.21548	755		(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
161	Anthracoceros malayanus	NA	NA	NA	NA	NA	NA	11.5	1050		(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
162	Anthracothorax dominicus	NA	NA	NA	NA	A	NA	0.23828	5.95		(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
163	Anthracothorax viridigula	A	NA	NA	NA	NA	NA	NA	NA	NA	NA
164	Anthreptes malacensis	NA	NA	NA	NA	A	NA	0.60088	11.35		(lifehistory)(Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
165	Anthus berthelotii	A	NA	NA	NA	NA	NA	0.52	16.2		(Tyler SJ (2004) Family Motacillidae (Pipits and wagtails). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 686-786. Lynx edicions: Barcelona., parental)
166	Anthus campestris	A	27.5	NA	NA	NA	14	0.48	22.95		(Tyler SJ (2004) Family Motacillidae (Pipits and wagtails). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 686-786. Lynx edicions: Barcelona., parental)
167	Anthus novaeseelandiae	A	NA	NA	NA	A	15	0.87024	25		(lifehistory)(Tyler SJ (2004) Family Motacillidae (Pipits and wagtails). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 686-786. Lynx edicions: Barcelona., parental)
168	Anthus pratensis	A	32.5	NA	NA	NA	13.5	0.53	18.65		(450510729820, anage)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes.Oxford University Press: Oxford. Tyler SJ (2004) Family Motacillidae (Pipits and wagtails). in Handbook of the birds of

											the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 686-786. Lynx edicions: Barcelona., parental)
169	Anthus trivialis	A	30	NA	NA	A	12.5	0.6216	23.4		(450510729820, anage)(lifecycle)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes. Oxford University Press: Oxford. Tyler SJ (2004) Family Motacillidae (Pipits and wagtails). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 686-786. Lynx edicions: Barcelona., parental)
170	Anumbius annumbi	A	NA	NA	NA	A	21.5	1.22248	41.5		(lifecycle)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
171	Apalis binotata	A	NA	NA	NA	NA	NA	NA	NA	NA	NA
172	Apalis thoracica	A	47	NA	NA	NA	NA	NA	NA	NA	NA
173	Apaloderma narina	A	86.5	NA	NA	NA	NA	NA	NA	NA	NA
174	Aphelocephala leucopsis	A	NA	NA	NA	A	NA	0.55944	12.35		(lifecycle)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne., parental)
175	Aphelocephala nigricincta	NA	NA	NA	NA	A	NA	0.48692	10.45		(lifecycle)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne., parental)
176	Aphelocoma coerulescens	A	107	NA	NA	A	18	2.9526	78.725		(4.12427437444445E+21, anage)(lifecycle)(Woolfenden GE, Fitzpatrick JW (1984) The Florida Scrub Jay: Demography of a cooperative-breeding bird. Princeton University Press: Princeton. , parental)
177	Aphelocoma ultramarina	A	54.5	NA	NA	A	24.25	3.73996	124		(1444445972, anage)(lifecycle)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
178	Aphrastura spinicauda	NA	NA	NA	NA	A	NA	0.83916	11.325		(lifecycle)(Moreno J, Merino S, Vasquez RA, Armesto JJ (2005) Breeding biology of the thorn-tailed rayadito (Furnariidae) in south-temperate rainforests of Chile. Condor 107: 69-77., parental)

179	Aplonis metallica	A	NA	NA	NA	A	NA	1.636 88	56.62 5	(lifehistory)(Feare C, Craig A (1998) Starlings and mynas. Christopher Helm: London. , parental)
180	Aprosmictus erythropterus	A	49	NA	NA	A	35	3.988 6	136	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
181	Aptenodytes forsteri	NA	NA	NA	NA	SA	157.5	47.85 284	29750	(762993, anage)(lifehistory)(Williams TD (1995) The Penguins: Spheniscidae. Oxford University Press: Oxford. , parental)
182	Aptenodytes patagonicus	A	350	NA	NA	SA	345	28.90 44	12775	(510575732993, anage)(lifehistory)(Williams TD (1995) The Penguins: Spheniscidae. Oxford University Press: Oxford. , parental)
183	Apteryx australis	P	0	NA	NA	NA	6	11.3	2600	(1435438732, anage)(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. Colbourne R (2002) Incubation behaviour and egg physiology of kiwi (Apteryx spp.) in natural habitats. New Zealand Journal of Ecology 26: 129-138., parental)
184	Apteryx owenii	NA	NA	NA	NA	NA	NA	7	1200	(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. Colbourne R (2002) Incubation behaviour and egg physiology of kiwi (Apteryx spp.) in natural habitats. New Zealand Journal of Ecology 26: 129-138., parental)
185	Apus apus	A	NA	NA	NA	A	42.5	0.694 12	39	(2436450510729730000, anage)(lifehistory)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
186	Apus pallidus	A	NA	NA	NA	A	46.4	0.745 92	41.9	(lifehistory)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
187	Aquila audax	A	184	NA	NA	SA	79	16.82 464	3466	(1820, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)

188	Aquila chrysaetos	A	190	NA	NA	SA	74.5	17.80 884	4383	(61425437440445700, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Salvo G (1993) Probabile caso di collaborazione nella riproduzione da parte di un'aquila reale, Aquila chrysaetos, immatura. Rivista Italiana di Ornitologia 63: 102-103. Bergo G (1988) Trios in the golden eagle Aquila chrysaetos (L.). Fauna Norvegica Series C Cinclus 11: 40-44., parental)
189	Aquila clanga	A	93.5	NA	NA	NA	62.5	11.8	1934. 65	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
190	Aquila fasciatus	A	125	NA	NA	SA	62.5	10.87 8	2000	(1732820, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Domingo M (1995) Poliandria en l'aliga perdiuera Hieraaetus fasciatus. Butlleti del Grup Catala d'Anellament 11: 83084., parental)
191	Aquila heliaca	A	98.5	NA	NA	NA	70.5	15.5	3262	(1821, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
192	Aquila pomarina	A	86	NA	NA	NA	58	11.3	1431. 66666 7	(1820, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del

										Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
193	Aquila rapax	A	120.5	NA	NA	SA	84	13.78 916	2347	(575732821, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 294-436. Academic Press: London., parental)
194	Aquila verreauxii	A	111.5	NA	NA	NA	94	17	4195	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 294-436. Academic Press: London., parental)
195	Ara ararauna	A	NA	313578 5303	Olowicz	A	91	18.73 088	1125	(575669732979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Forshaw JM, Cooper WT (1973) Parrots of the world. Lansdowne: Melbourne. , parental)
196	Ara chloropterus	A	103	NA	Massen	A	103	21.63 168	1217	(669732979, anage)(lifehistory)(Hilty SL (2003) Birds of Venezuela. Princeton University Press: Princeton. Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)

197	<i>Ara macao</i>	A	NA	NA	NA	A	84	18.57 548	1015	(575669732979986, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Forshaw JM, Cooper WT (1973) Parrots of the world. Lansdowne: Melbourne. , parental)
198	<i>Ara militaris</i>	NA	NA	NA	NA	A	84	19.50 788	1134	(669732820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Forshaw JM, Cooper WT (1973) Parrots of the world. Lansdowne: Melbourne. , parental)
199	<i>Ara severus</i>	A	NA	NA	NA	NA	NA	NA	NA	NA
200	<i>Arachnothera longirostris</i>	A	NA	NA	NA	A	NA	0.538 72	13	(lifehistory)(Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
201	<i>Aramides cajanea</i>	P	29	NA	NA	P	1.5	4.133 64	432.5	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
202	<i>Aramides ypecaha</i>	NA	NA	NA	NA	P	3.5	5.076 4	747.2 5	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
203	<i>Aramus guarauna</i>	P	59.5	NA	NA	P	NA	6.858 32	1085	(lifehistory)(Bryan DC (1996) Family Aramididae (Limpkin). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 90-95. Lynx edicions: Barcelona., parental)
204	<i>Aratinga aurea</i>	NA	NA	NA	NA	A	48	3.346 28	82.8	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
205	<i>Aratinga canicularis</i>	A	NA	NA	NA	A	42	3.377 36	83.25	(669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)

206	Aratinga finschi	NA	NA	NA	NA	A	50	5.47008	168.91	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
207	Aratinga holochlora	NA	NA	NA	NA	A	50	5.41828	138	(669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
208	Aratinga leucophthalm	NA	NA	NA	NA	A	63	5.78088	162.5	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
209	Aratinga nana	NA	NA	NA	NA	A	50	4.15436	78.2	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
210	Aratinga pertinax	A	NA	NA	NA	A	42	3.61564	86.375	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
211	Aratinga solstitialis	A	NA	NA	NA	A	56	4.6616391	86.22843537	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2024)
212	Aratinga weddellii	NA	NA	NA	NA	A	50	4.15436	108.15	(lifehistory)(Brightsmith DJ (1999) Cooperative breeding in parrots and introduction to the column Wild Science. Bird Talk October 1999: http://www.duke.edu/~djb4/ , parental)
213	Archilochus colubris	A	27	NA	NA	A	21.25	0.1554	3.1425	(425427444445818000, anage)(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal

										J) p. 388-457. Lynx Editions: Barcelona., parental)
214	Ardea cinerea	A	70	NA	NA	NA	48.5	8.4218	1443	(450729732820, anage)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
215	Ardea cocoi	A	85	NA	NA	NA	NA	9	1585	(575820, anage)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
216	Ardea herodias	A	81	NA	NA	SA	60	9.19968	2388.666667	(61427444445732, anage)(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
217	Ardea melanocephala	A	60	NA	NA	NA	47.5	7.8	1071.45	(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
218	Ardea pacifica	A	NA	NA	NA	SP	NA	5.351447815	858.3397499	(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford.)(Sayol et al., 2025)
219	Ardea sumatrana	A	NA	NA	NA	SA	63	9.04428	2024	(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
220	Ardeola ralloides	A	NA	NA	NA	NA	35	2.4	290	(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
221	Ardeotis arabs	P	0	NA	NA	NA	NA	10	5337.5	(Collar NJ (1996) Family Otidae (Bustards). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 240-275. Lynx edicions: Barcelona., parental)
222	Ardeotis australis	P	0	NA	NA	P	NA	12.0694	4320	(lifehistory)(Collar NJ (1996) Family Otidae (Bustards). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 240-275. Lynx edicions: Barcelona., parental)
223	Ardeotis kori	P	0	NA	NA	NA	31.5	13.4	10900	(Collar NJ (1996) Family Otidae (Bustards). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 240-275. Lynx edicions: Barcelona., parental)
224	Arenaria interpres	P	0	NA	NA	P	19.5	1.38824	135	(4.3544444553729E+20, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)

225	Arenaria melanocephala	P	0	NA	NA	P	NA	1.600 5817 29	121.8 75496 1	(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona.)(Sayol et al., 2026)
226	Argusianus argus	P	0	NA	NA	P	0.1	5.884 48	2280. 5	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
227	Arremon aurantirostris	NA	NA	NA	NA	A	NA	1.118 88	34.5	(lifehistory)(Skutch AF (1954) Life histories of Central American Birds I Families Fringillidae, Thraupidae, Icteridae, Parulidae and Corebidae. Cooper Ornithological Society: Berkeley. , parental)
228	Arremon brunneinucha	NA	NA	NA	NA	A	13	1.595 44	44.05	(lifehistory)(Stiles FG, Skutch AF (1989) A guide to the birds of Costa Rica. Cornell University Press: Ithaca. , parental)
229	Arremonops conirostris	A	62.5	NA	NA	A	11.5	1.336 44	37.2	(lifehistory)(Byers C, Olsson U, Curson J (1995) Buntings and sparrows: a guide to the buntings and North American sparrows. Pica Press: Sussex. , parental)
230	Arses telescopthalmus	A	NA	NA	NA	A	NA	0.642 3429 96	13.99 91974 1	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland. Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde.)(Sayol et al., 2027)
231	Artamus cinereus	A	NA	NA	NA	A	18	0.953 12	35.6	(lifehistory)(Rowley I (1999) Co-operative breeding by black-faced woodswallows Artamus cinereus. Corella 23: 63-66., parental)
232	Artamus cyanopterus	A	48	NA	NA	A	17.2	1.036	33	(lifehistory)(Rowley I (2000) Cooperative breeding by dusky woodswallows. Canberra Bird Notes 25: 49-58., parental)
233	Artamus leucorhynchus	A	NA	NA	NA	A	NA	1.118 88	41.85	(lifehistory)(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland. Rowley I (1976) Co-operative breeding in Australian birds. in Proceedings of the 16th International Ornithological Congress. (ed. Frith HJ, Calaby JH) p. 657-666. Australian Academy of Science: Canberra., parental)
234	Artamus maximus	NA	NA	NA	NA	A	NA	1.709 7841 66	66.02 27909 6	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2028)

235	Artamus minor	NA	NA	NA	NA	A	18	0.533 3204 29	14.99 9247	(Rowley I (1976) Co-operative breeding in Australian birds. in Proceedings of the 16th International Ornithological Congress. (ed. Frith HJ, Calaby JH) p. 657-666. Australian Academy of Science: Canberra.)(Sayol et al., 2029)
236	Artamus personatus	A	24	NA	NA	A	18	1.067 08	34.6	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
237	Artamus superciliosus	A	49.1	NA	NA	A	13.2	1.077 44	35.5	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
238	Ashbyia lovensis	NA	NA	NA	NA	A	NA	0.694 12	17.5	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
239	Asio capensis	A	46	NA	NA	SA	16	6.195 28	328.3 33333 3	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
240	Asio flammeus	A	65	NA	NA	SA	25.5	5.490 8	343.7 5	(437444445729732, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
241	Asio otus	A	111	991310 000	Kverkova + sol	SA	34	5.501 16	262.7 5	(435444445579729000, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. Marks JS, Dickinson JL, Haydock J (2002) Serial polyandry and alloparenting in long-eared owls. Condor 104: 202-204., parental)
242	Athene cucularia	A	89	NA	NA	SA	44	3.916 08	150.6	(427437444445, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. Johnson BS (1997) Reproductive success, relatedness, and mating patterns of colonial burrowing owls. Raptor Research Report 9: 64-67., parental)
243	Athene noctua	A	122.5	585923 000	Kverkova + sol	SA	32.5	3.833 2	169	(450729820, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
244	Atrichornis clamosus	A	164.5	NA	NA	NA	NA	NA	NA	NA
245	Attila spadiceus	NA	NA	NA	NA	A	18	1.222 48	39.1	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits

										and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Skutch AF (1981) New studies of tropical American birds. Publications of the Nuttall Ornithological Club 19: 1-281., parental)
246	Aulacorhynchus sulcatus	NA	NA	NA	NA	A	NA	2.838 64	171	(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
247	Auriparus flaviceps	A	34	NA	NA	A	18	0.455 84	7	(444445578818820, anage)(lifehistory)(Webster MD (1999) Verdin. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
248	Automolus infuscatus	NA	NA	NA	NA	A	NA	1.170 68	33.05	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
249	Automolus ochrolaemus	A	NA	NA	NA	A	18	1.181 04	37.6	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
250	Aviceda leuphotes	NA	NA	NA	NA	NA	NA	3.4	196	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. , parental)
251	Aviceda subcristata	A	55.5	NA	NA	SA	33.5	4.869 2	328	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. , parental)
252	Aythya affinis	P	0	NA	NA	P	48	4.330 48	788.5	(4444455767321140, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. Austin JE, Custer CM, Afton AD (1998) Lesser scaup. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
253	Aythya americana	P	0	NA	NA	P	64.75	5.656 56	1056. 25	(427444445732, anage)(lifehistory)(Woodin MC, Michot TC (2002) Redhead. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-40. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)

254	Aythya australis	P	0	NA	NA	P	1	5.066 04	840	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne., parental)
255	Aythya collaris	P	0	NA	NA	P	52.25	5.573 68	730	(444445577, anage)(lifehistory)(Hohman WL, Eberhardt RT (1998) Ring-necked duck. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
256	Aythya ferina	P	0	NA	NA	NA	92.5	5.3	853.5	(450729820, anage)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
257	Aythya fuligula	P	0	NA	NA	NA	47.5	4.2	701.5	(450729732820, anage)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford. Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. , parental)
258	Aythya marila	P	0	NA	NA	NA	42.75	5.1	959	(444445576729, anage)(Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. Kessel B, Rocque DA, Barclay JS (2002) Greater scaup. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
259	Aythya nyroca	P	0	NA	NA	NA	57.5	5.6	574	(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
260	Aythya valisineria	P	0	NA	NA	P	66	7.024 08	1218. 66666 7	(427437444445732, anage)(lifehistory)(Mowbray TB (2002) Canvasback. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-40. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
261	Baeolophus bicolor	A	58	NA	NA	A	17.5	1.046 36	21.6	(444445579818, anage)(lifehistory)(Grubb TC, Jr., Pravousudov VV (1994) Tufted titmouse. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-16. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)

262	Balaeniceps rex	A	112	NA	NA	SP	105	23.18 568	5268	(575820, anage)(lifehistory)(Elliott A (1992) Family Balaenicipitidae (Shoebill). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 466-471. Lynx edicions: Barcelona., parental)
263	Balearica pavonina	P	100	NA	NA	P	63	13.34 368	3590	(lifehistory)(Archibald GW, Meine CD (1996) Family Gruidae (Cranes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-89. Lynx edicions: Barcelona., parental)
264	Bambusicola thoracicus	P	0	NA	NA	P	0.1	1.844 08	271	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
265	Barnardius zonarius	A	49	NA	NA	A	35	3.881 6848	127	(435669979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
266	Bartramia longicauda	P	0	NA	NA	P	33	1.346 8	152.2 5	(427444445, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
267	Baryphtheng us ruficapillus	NA	NA	NA	NA	A	NA	2.745 4	142.5	(lifehistory)(Snow DW (2001) Family Momotidae (Motmots). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 264-285. Lynx edicions: Barcelona., parental)
268	Basileuterus culicivorus	A	NA	NA	NA	A	NA	0.600 88	10.75	(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
269	Batis capensis	NA	NA	NA	NA	A	NA	0.704 48	11.65	(lifehistory)(Urban EK, Fry CH, Keith S, eds. (1997) The birds of Africa Vol V.Academic Press: London., parental)
270	Bias musicus	A	81	NA	NA	A	NA	0.870 24	21.9	(lifehistory)(Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. , parental)
271	Biziura lobata	P	0	NA	NA	P	1	9.033 92	1697. 5	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne. Johnsgard PA, Carbonell M (1996) Ruddy ducks and other stiftails. University of Oklahoma Press: Norman. McCracken KG, Paton DC, Afton AD

										(2000) Sexual size dimorphism of the musk duck. Wilson Bulletin 112: 457-466., parental)
272	Bolbopsittacus lunulatus	NA	NA	NA	NA	A	NA	2.746 6092 31	67.02 05976 7	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2030)
273	Bolborhynchus lineola	A	NA	NA	NA	A	35	2.154 88	54.91	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
274	Bombycilla cedrorum	A	23.5	NA	NA	A	20.5	0.922 04	32.04 81666 7	(427444445732, anage)(lifehistory)(Mountjoy DJ (2005) Family Bombycillidae (Waxwings). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 304-318. Lynx edicions: Barcelona., parental)
275	Bombycilla garrulus	A	28.5	NA	NA	A	20.5	1.201 76	54.45	(444445450510729000, anage)(lifehistory)(Mountjoy DJ (2005) Family Bombycillidae (Waxwings). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 304-318. Lynx edicions: Barcelona., parental)
276	Bombycilla japonica	NA	NA	NA	NA	NA	NA	1.1	42.9	(Mountjoy DJ (2005) Family Bombycillidae (Waxwings). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 304-318. Lynx edicions: Barcelona., parental)
277	Bonasa bonasia	P	0	NA	NA	NA	NA	2	406.7 5	(450732820, anage)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
278	Bonasa umbellus	P	0	NA	NA	P	0.1	2.548 56	532	(435437444445732000, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
279	Bostrychia hagedash	A	95	NA	NA	SP	35	10.54 648	1245. 25	(649820, anage)(lifehistory)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
280	Botaurus lentiginosus	A	28	NA	NA	SA	10.5	4.682 72	706	(425444445576820, anage)(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)

281	Botaurus poiciloptilus	A	50	NA	NA	SA	1	6.008 8	1110.3 5	(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
282	Botaurus stellaris	A	54	NA	NA	NA	52.5	6.1	1277. 75	(450729820, anage)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
283	Brachygalba lugubris	NA	NA	NA	NA	A	NA	0.445 4666 67	17.25 32408 3	(Tobias JA, ZÁ¼chner T, de Melo-J_nior TA (2002) Family Galbulidae (Jacamars). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 74-101. Lynx edicions: Barcelona.)(Sayol et al., 2031)
284	Brachypteryx montana	NA	NA	NA	NA	A	NA	0.859 88	16.9	(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
285	Brachyramphus marmoratus	P	34	NA	NA	SP	21	2.434 6	222	(427818, anage)(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
286	Branta bernicla	P	0	NA	NA	P	45.75	6.319 6	1347. 25	(444445450729732, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. Reed A, Ward DH, Derksen DV, Sedinger JS (1998) Brant. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-30. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
287	Branta canadensis	P	0	913483 929.6	Sol	P	50.75	13.7	3984. 5	(437444445729732, anage)(lifehistory)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
288	Branta leucopsis	P	0	NA	NA	NA	42.5	8	1708. 5	(4507298201143, anage)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
289	Branta ruficollis	P	0	482705 000	Kverkova + sol	NA	NA	5.1	1242	(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
290	Branta sandvicensis	P	0	NA	NA	NA	NA	NA	NA	NA
291	Brotogeris chrysoptera	NA	NA	NA	NA	A	45.5	2.154 88	56.75	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a

										guide to the parrots of the world. Pica Press: Sussex. , parental)
292	Brotogeris jugularis	NA	NA	NA	NA	A	42	2.196 32	65.38	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
293	Brotogeris versicolurus	A	100	NA	NA	A	56	2.476 04	69.6	(445669979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
294	Bubalornis albirostris	NA	NA	NA	NA	A	NA	2.206 68	62.07 5	(575820, anage)(lifehistory)(Grimes LG (1976) The occurrence of cooperative breeding behaviour in African birds. Ostrich 47: 1-15. Crook JH (1958) _tudes sur le comportement social de Bubalornis a. albirostris. Alauda 26: 161-195. Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
295	Bubo africanus	A	94	NA	NA	SA	34	8.909 6	655.5	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
296	Bubo bubo	A	189	189786 7000	Kverkova + sol	SA	55	17.70 524	2533	(543729732820, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
297	Bubo capensis	A	135	NA	NA	NA	NA	11.5	1138	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
298	Bubo lacteus	A	182.5	NA	NA	NA	NA	17.5	2182. 25	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. Pitman CRS, Adamson J (1987) Notes on the ecology of the giant eagle owl Bubo lactus. Honeyguide 95: 3-23., parental)
299	Bubo poensis	NA	NA	NA	NA	NA	NA	9	660.5	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
300	Bubo scandiaca	A	82.5	NA	NA	SA	47.7	16.44 132	1954	(1435444445732820, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
301	Bubo scandiacus	NA	NA	180797 9000	Kverkova + sol	NA	NA	NA	NA	NA

302	Bubo virginianus	A	168	NA	NA	SA	68.25	15.26 028	1377. 25	(4.27435437444445E+24, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
303	Bubulcus ibis	A	28	NA	NA	SA	35	3.947 16	372	(1444445448729730, anage)(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
304	Bucephala albeola	P	0	NA	NA	P	52.5	4.247 6	400	(427438445, anage)(lifehistory)(Gauthier G (1993) Bufflehead. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
305	Bucephala clangula	P	0	NA	NA	P	61.25	6.164 2	895.9 3	(427444451143, anage)(lifehistory)(Eadie JM, Mallory ML, Lumsden HG (1995) Common goldeneye. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
306	Bucephala islandica	P	0	NA	NA	P	56	6.039 88	978.5 75	(444445576, anage)(lifehistory)(Eadie JM, Savard J-PL, Mallory ML (2000) Barrow's goldeneye. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
307	Buceros bicornis	A	217	NA	NA	A	84	18.90 7	2899. 25	(575820, anage)(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
308	Buceros hydrocorax	NA	NA	NA	NA	A	NA	17.60 8242 99	1399. 68151 4	(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford.)(Sayol et al., 2032)
309	Buceros rhinoceros	NA	NA	NA	NA	A	79	18.00 568	2382. 5	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. Smythies BE, Davidson GWH (1999) Birds of Borneo 4th ed. Natural History Publications: Kinabalu. , parental)
310	Bucorvus abyssinicus	NA	NA	NA	NA	A	73	24.60 5	4000	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
311	Bucorvus cafer	NA	NA	NA	NA	NA	86	27.3	3920. 5	(1820, anage)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
312	Bulweria bulwerii	A	62	NA	NA	SP	62	1.388 24	99.5	(425445818820, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J,

										Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
313	Burhinus bistriatus	P	NA	NA	NA	P	NA	4.827 76	787	(lifecycle)(Hume RA (1996) Family Burhinidae (Thick-knees). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 348-363. Lynx edicions: Barcelona., parental)
314	Burhinus capensis	P	43	NA	NA	NA	NA	3.8	425	(Hume RA (1996) Family Burhinidae (Thick-knees). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 348-363. Lynx edicions: Barcelona., parental)
315	Burhinus grallarius	P	51	NA	NA	P	NA	4.465 16	667.9 66666 7	(lifecycle)(Hume RA (1996) Family Burhinidae (Thick-knees). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 348-363. Lynx edicions: Barcelona., parental)
316	Burhinus oedicnemus	P	40	NA	NA	NA	39	3.5	459	(450732820, anage)(Hume RA (1996) Family Burhinidae (Thick-knees). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 348-363. Lynx edicions: Barcelona., parental)
317	Busarellus nigricollis	A	NA	NA	NA	SA	1	9.065	614	(lifecycle)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
318	Butastur liventer	NA	NA	NA	NA	NA	NA	5	338	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
319	Butastur teesa	NA	NA	NA	NA	NA	NA	4.9	325	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)

320	Buteo albicaudatus	A	259	NA	NA	NA	50.5	15	889	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
321	Buteo auguralis	A	NA	NA	NA	NA	NA	7	670	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 294-436. Academic Press: London., parental)
322	Buteo buteo	A	105	100136 8000	Kverkova + sol	SA	36.75	8.225 84	878.2 5	(450729732, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
323	Buteo jamaicensis	A	86	NA	NA	SA	45.25	9.510 48	1126	(1427437444445730, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
324	Buteo lagopus	A	72	NA	NA	SA	41	9.531 2	945.5	(437444445450, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)

325	Buteo lineatus	A	115	NA	NA	SA	42	7.448 84	616	(427435440444445000, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Kimball RT, Parker PG, Bednarz JC (2003) Occurrence and evolution of cooperative breeding among the diurnal raptors (Accipitridae and Falconidae). Auk 120: 717-729. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
326	Buteo magnirostris	A	NA	NA	NA	SA	NA	4.724 16	276	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
327	Buteo platypterus	A	50	NA	NA	SA	39.75	5.304 32	437	(444445577732, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
328	Buteo polyosoma	NA	NA	NA	NA	SA	45	9.096 08	880	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
329	Buteo regalis	A	53	NA	NA	SA	46	9.842	1469. 5	(427437445448732, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Kimball RT, Parker PG, Bednarz JC (2003) Occurrence and evolution of cooperative breeding among the diurnal raptors (Accipitridae and Falconidae). Auk 120: 717-729. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New

										world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
330	Buteo rufinus	A	NA	NA	NA	NA	46.5	9.5	1174.5	(450820, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
331	Buteo rufofuscus	A	122	NA	NA	NA	48.5	9.5	1062.333333	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 294-436. Academic Press: London. Allan D (2000) Jackal buzzards crowded house. Africa Birds & Birding 5: 64-69., parental)
332	Buteo swainsoni	A	72	NA	NA	SA	43	7.62496	969.57	(427437444445732000, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. England AS, Bechard MJ, Houston CS (1997) Swainson's hawk. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
333	Buteogallus anthracinus	A	106.8	NA	NA	SA	46.5	7.42812	996	(1444445, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures

											to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
334	Buteogallus meridionalis	A	327.5	NA	NA	SA	47.5	8.122 24	808		(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
335	Buteogallus urubitinga	A	105	NA	NA	SA	NA	10.53 612	1230		(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
336	Butorides striata	A	76.5	NA	NA	SA	34.5	2.569 28	198		(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
337	Bycanistes bucinator	NA	NA	NA	NA	NA	NA	6	653		(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
338	Bycanistes cylindricus	NA	NA	NA	NA	A	NA	10.49 468	921		(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
339	Bycanistes fistulator	NA	NA	NA	NA	NA	NA	8.3	586.5		(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
340	Bycanistes subcylindricus	NA	NA	NA	NA	NA	NA	14.3	1242		(972, anage)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
341	Cacatua alba	NA	NA	NA	NA	A	91.32	14.66 976	570		(669670732, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
342	Cacatua galerita	A	112	212192 7189	Olowicz	A	70	14.75 264	723.5		(435491669979, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
343	Cacatua haematuropygia	NA	NA	NA	NA	A	NA	9.119 0637 87	209.9 77419 8		(669732820979)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona.)(Sayol et al., 2033)

344	Cacatua leadbeateri	A	117	NA	NA	A	57.5	8.774 92	407.5	(669852979, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
345	Cacatua moluccensis	A	NA	NA	NA	A	NA	16.19 268	835	(491669979, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
346	Cacatua pastinator	A	150	NA	NA	A	60	11.38 564	600	(669820, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
347	Cacatua roseicapilla	A	100	NA	NA	A	49.4	6.661 48	337	(435575732979, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
348	Cacatua sanguinea	A	90	NA	NA	A	62	9.230 76	515	(669732979, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
349	Cacatua sulphurea	A	NA	NA	NA	A	70	9.966 32	332	(491669732979, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
350	Cacatua tenuirostris	A	78	NA	NA	A	59	11.02 304	567	(669820, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
351	Cacicus cela	A	80	NA	NA	A	NA	87.99 2.517 48	16666 7	(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
352	Cacomantis castaneiventris	NA	NA	NA	NA	A	NA	0.984 4887 03	31.00 03966 6	(Payne RB (2005) The cuckoos. Oxford University Press: Oxford.)(Sayol et al., 2034)
353	Cacomantis flabelliformis	NA	NA	NA	NA	A	17	1.129 24	49.85	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
354	Cacomantis variolosus	A	46	NA	NA	A	18	1.103 3678 05	34.88 30138	(Payne RB (2005) The cuckoos. Oxford University Press: Oxford.)(Sayol et al., 2035)

355	Cairina moschata	P	0	520115 649.7	Sol	P	NA	7.614 6	2228	(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
356	Calamanthus fuliginosus	NA	NA	NA	NA	A	NA	0.724 9643 08	13.00 06583 7	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne.)(Sayol et al., 2036)
357	Calamospiza melanocorys	A	17	NA	NA	A	8.5	1.222 48	37.4	(427444445, anage)(lifehistory)(Shane TG (2000) Lark bunting: Calamospiza melanocorys. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
358	Calandrella cinerea	A	NA	NA	NA	A	12	0.694 12	23.37 5	(lifehistory)(Keith S, Urban EK, Fry CH, eds. (1992) The birds of Africa Vol IV. Academic Press: London. de Juana E, Suar_z F, Ryan PG, Alstr_m P, Donald PF (2004) Family Alaudidae (Larks). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 496-601. Lynx edicions: Barcelona., parental)
359	Calcarius lapponicus	A	23	NA	NA	A	12	0.901 32	28	(444445580732, anage)(lifehistory)(Hussell DJT, Montgomerie R (2002) Lapland longspur. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
360	Calidris acuminata	P	0	NA	NA	P	0.1	1.025 64	67.7	(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
361	Calidris alba	P	0	NA	NA	P	17	1.046 36	55.55	(444445450729, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
362	Calidris alpina	P	0	NA	NA	P	20	1.036	54.6	(61444445450729, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)

363	Calidris bairdii	P	0	NA	NA	P	20	0.735 9207 4	38.09 18367 3	(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona.)(Sayol et al., 2037)
364	Calidris canutus	P	0	NA	NA	P	18	1.367 52	137.0 66666 7	(444445553729, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
365	Calidris ferruginea	P	0	NA	NA	P	0.1	1.025 64	59.6	(450729820, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
366	Calidris fuscicollis	P	0	NA	NA	P	16.5	0.808 08	44.55	(444445576, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
367	Calidris himantopus	P	0	NA	NA	P	17.25	0.953 12	57.5	(577820977, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
368	Calidris maritima	P	0	NA	NA	NA	21	1.195	69.47 5	(445450729820, anage)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
369	Calidris mauri	P	0	NA	NA	P	19	0.657 2880 95	26.02 35006 3	(445576977)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona.)(Sayol et al., 2038)
370	Calidris melanotos	P	0	NA	NA	P	21	1.056 72	85	(444445577, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3.

											Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
371	Calidris minuta	P	0	NA	NA	P	0.1	0.54908	22		(450729820, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
372	Calidris minutilla	P	0	NA	NA	P	0.1	0.5698	23.45		(444445577, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
373	Calidris ptilocnemis	P	0	NA	NA	NA	NA	NA	NA	NA	NA
374	Calidris pusilla	P	0	NA	NA	P	16.5	0.52836	26.36666667		(427445, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
375	Calidris ruficollis	P	0	NA	NA	P	0.1	0.68376	26.95		(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
376	Calidris subminuta	P	0	NA	NA	P	0.1	0.61124	30.1		(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
377	Calidris tenuirostris	P	0	NA	NA	P	0.1	1.59544	179.16666667		(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
378	Callipepla californica	P	0	172387708.6	Sol	P	10	1.37788	171.5		(444445, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
379	Callipepla gambelii	P	0	NA	NA	P	0.1	1.36752	169.25		(435444445576820, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)

380	Callipepla squamata	P	0	NA	NA	NA	3	1.5	191	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
381	Callocephalon fimbriatum	A	125	NA	NA	A	56	7.749 28	256	(669820979, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
382	Callonetta leucophrys	P	0	NA	NA	P	NA	3.367	321	(820, anage)(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
383	Caloenas nicobarica	A	NA	303150 095.1	Sol	A	90	3.170 16	505.7 5	(986, anage)(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
384	Calonectris diomedea	A	91	NA	NA	SP	91.5	5.097 12	775.2 25	(450729820, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
385	Calorhamphus fuliginosus	NA	NA	NA	NA	A	NA	1.139 6	42.85	(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
386	Calyptorhynchus banksii	A	177	NA	NA	A	80	12.38 02	723.6 83333 4	(669820979, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
387	Calyptorhynchus baudinii	A	NA	NA	NA	A	NA	15.15 668	631.4 25	(669820, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
388	Calyptorhynchus funereus	A	180	NA	NA	A	76	15.62 288	678.5	(669732820, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird. Oxford University Press: Melbourne. Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)

389	<i>Calyptorhynchus lathamii</i>	A	180	NA	NA	A	60	10.13 208	431.9 75	(820979, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
390	<i>Calyptorhynchus latirostris</i>	A	163.5	NA	NA	A	73.5	14.76 3	622.9 25	(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
391	<i>Campephaga phoenicea</i>	NA	NA	NA	NA	A	NA	1.087 8	27.42 5	(lifehistory)(Taylor PB (2005) Family Campephagidae (Cuckoo-shrikes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 40-122. Lynx edicions: Barcelona., parental)
392	<i>Campephilus guatemalensis</i>	NA	NA	NA	NA	A	35	6.153 84	262	(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
393	<i>Campethera nivosa</i>	A	NA	NA	NA	A	NA	1.636 88	38.52 5	(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
394	<i>Camptostoma obsoletum</i>	NA	NA	NA	NA	A	17	0.372 96	8	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
395	<i>Campylopterus largipennis</i>	A	NA	NA	NA	A	NA	0.321 16	8.475	(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Saragatal J) p. 388-457. Lynx Editions: Barcelona., parental)
396	<i>Campylorhynchus pusillus</i>	NA	NA	NA	NA	A	NA	1.388 24	40.5	(lifehistory)(Marantz CA, Aleixo A, Bevier LR, Patten MA (2003) Family Dendrocolaptidae (Woodcreepers). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 358-447. Lynx edicions: Barcelona., parental)

397	Campylorhynchus brunneicapillus	A	50	NA	NA	A	20.95	1.388 24	38.9	(427444445732, anage)(lifehistory)(Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsma DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona. Proudfoot GA, Sherry DA, Johnson S (2000) Cactus wren. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
398	Campylorhynchus griseus	NA	NA	NA	NA	A	NA	1.357 16	42.07 5	(lifehistory)(Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsma DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona., parental)
399	Capito niger	NA	NA	NA	NA	A	34	1.398 6	55.2	(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
400	Caprimulgus carolinensis	P	31	NA	NA	SP	17	1.408 96	115	(445, anage)(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
401	Caprimulgus europaeus	P	32.5	NA	NA	SP	16.5	0.911 68	70.5	(450729820, anage)(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
402	Caprimulgus macrurus	P	36	NA	NA	SP	1	1.046 36	66.2	(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
403	Caprimulgus vociferus	P	33	NA	NA	SP	20	0.849 52	53.7	(444445, anage)(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
404	Caracara cheriway	A	116	NA	NA	SA	42	9.593 36	1118.2 5	(445575, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)

405	Caracara plancus	A	105.5	NA	NA	SA	42	10.42 216	1348	(427575820, anage)(lifehistory)NA
406	Cardellina rubrifrons	A	19	NA	NA	A	12	0.445 48	9.8	(1445, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
407	Cardinalis cardinalis	A	48.5	NA	NA	A	14.25	1.574 72	43.05	(435444445732820, anage)(lifehistory)(Halkin SL, Linville SU (1999) Northern cardinal. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
408	Carduelis ambigua	NA	NA	NA	NA	NA	NA	0.66	14.1	(Clement P, Harris A, Davis J (1993) Finches and sparrows. Christopher Helm: London. , parental)
409	Carduelis cannabina	A	26	NA	NA	NA	14	0.688 6	18.95	(450729820, anage)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
410	Carduelis carduelis	A	23.2	NA	NA	A	13.5	0.673 4	16	(405729, anage)(lifehistory)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
411	Carduelis chloris	A	29	NA	NA	NA	13.5	0.898 7	27.65	(450729820, anage)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
412	Carduelis flammea	A	28	NA	NA	A	12	0.611 24	13	(425444445450729000, anage)(lifehistory)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
413	Carduelis pinus	A	36	NA	NA	A	14.5	0.590 52	13.05	(444445510820, anage)(lifehistory)(Dawson WR (1995) Pine siskin. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
414	Carduelis spinus	A	35	NA	NA	NA	14	0.553 7	13.5	(450729820, anage)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
415	Carduelis tristis	A	35	NA	NA	A	13.5	0.559 44	12.8	(435444445820, anage)(lifehistory)(Middleton ALA (1993) American goldfinch. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and

										Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
416	Cariama cristata	A	NA	855127 745.5	Sol	P	14	11.55 14	1575	(lifehistory)(Gonzaga LP (1996) Family Cariamidae (Seriemas). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 234-239. Lynx edicions: Barcelona., parental)
417	Carpodacus mexicanus	A	35	NA	NA	A	15.05	0.808 08	21.4	(435444445580820, anage)(lifehistory)(Hill GE (1993) House finch. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
418	Carpodacus purpureus	A	21.5	NA	NA	A	14	0.932 4	25.23 33333 3	(444445, anage)(lifehistory)(Wootton JT (1996) Purple finch. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
419	Carpodacus roseus	NA	NA	NA	NA	NA	NA	1.01	28	(Clement P, Harris A, Davis J (1993) Finches and sparrows. Christopher Helm: London. , parental)
420	Caryothraustes polioaster	NA	NA	NA	NA	A	NA	1.481 48	37.65	(lifehistory)(Skutch AF (1987) Helpers at birds' nests: a worldwide survey of cooperative breeding and related behaviour. Iowa University Press: Iowa City. Moermond TC (1981) Cooperative feeding, defense of young, and flocking in the black-faced grosbeak. Condor 83: 82-83., parental)
421	Casmerodius albus	A	47.5	NA	NA	SA	41	5.221 44	873.5	(444445576729820, anage)(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
422	Casuarius bennetti	P	0	NA	NA	NA	273.96	24.5	30500	(575820, anage)(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
423	Casuarius casuarius	P	0	NA	NA	P	0.1	37.65 86	44000	(8201142, anage)(lifehistory)(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
424	Casuarius unappendiculatus	NA	NA	NA	NA	NA	NA	32	47300	(575820, anage)(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
425	Catharacta maccormicki	NA	NA	NA	NA	SP	49.5	7.034 44	1382. 5	(427820, anage)(lifehistory)(Furness RW (1996) Family Stercorariidae (Skuas). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks.

										(ed. del Hoyo J, Elliott A, Saragatal J) p. 556-571. Lynx edicions: Barcelona., parental)			
426	Catharacta skua	P	90	NA	NA	NA	44	7.5	1420.25	(4,507,297,328,201,140)(Furness RW (1996) Family Stercorariidae (Skuas). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 556-571. Lynx edicions: Barcelona.)			
427	Cathartes aura	A	145	NA	NA	SA	75	10.33	928	1776	(444445732977, anage)(lifehistory)(Houston DC (1994) Family Cathartidae (New World vultures). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 24-41. Lynx edicions: Barcelona., parental)		
428	Catharus fuscescens	A	25	NA	NA	A	11	0.953	12	31.92	5	(1444445732, anage)(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)	
429	Catharus minimus	A	20	NA	NA	NA	12	0.83		31.6		(444445578, anage)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)	
430	Catharus ustulatus	A	NA	NA	NA	NA	12	0.83		30.06	66666	7	(444445732818, anage)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
431	Catoptrophorus semipalmatus	P	0	NA	NA	P	0.1	2.413	88	263.1	25		(427444445, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
432	Celeus castaneus	NA	NA	NA	NA	A	NA	2.185	96	85.6			(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
433	Centrocercus urophasianus	P	0	NA	NA	P	14	4.144		1930			(444445, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
434	Centropus bengalensis	A	NA	NA	NA	A	NA	2.351	72	159.3			(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
435	Centropus phasianinus	A	33.6	NA	NA	A	12.6	4.268	32	373.5			(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)

436	Centropus senegalensis	A	NA	NA	NA	NA	19	2.7	170	(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
437	Cephus columba	P	40	NA	NA	NA	NA	NA	NA	NA
438	Cephus grylle	P	36	NA	NA	SP	39.5	3.739 96	390.5	(444445450729, anage)(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
439	Ceratogymna atrata	NA	NA	NA	NA	NA	NA	15.5	1203. 5	(575820, anage)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
440	Ceratogymna elata	NA	NA	NA	NA	NA	NA	14.8	2012. 5	(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
441	Cercomacra nigrescens	A	NA	NA	NA	A	NA	0.870 24	17.5	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
442	Cercomacra tyrannina	A	NA	NA	NA	A	11	0.766 64	16.65	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
443	Cereopsis novaehollandiae	P	0	462303 775	Sol	P	70	9.147 88	3770	(575820, anage)(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne., parental)
444	Cerorhinca monocerata	P	52	NA	NA	SP	38.5	4.796 68	505	(427444445732, anage)(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
445	Certhia familiaris	A	29.5	NA	NA	A	15.5	0.404 04	9.1	(450729, anage)(lifehistory)(Harrap S, Quinn D (1996) Tits, nuthatches and treecreepers. Christopher Helm: London. , parental)
446	Certhiaxis cinnamomeus	NA	NA	NA	NA	A	NA	0.714 84	14.95	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
447	Certhionyx niger	NA	NA	NA	NA	A	NA	0.424 5893 31	10.90 25859	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2039)
448	Certhionyx variegatus	NA	NA	NA	NA	A	NA	1.015 4858 26	23.49 99901	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2040)

449	Ceryle rudis	A	69.5	NA	NA	A	24.5	1.647 24	84.4	(450820, anage)(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
450	Ceuthmochares aereus	A	NA	NA	NA	A	NA	1.377 88	65.85	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
451	Ceyx lepidus	NA	NA	NA	NA	A	NA	0.580 16	25.12 5	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
452	Ceyx pictus	A	23	NA	NA	A	NA	0.445 48	13.15	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
453	Chaetura pelagica	NA	NA	NA	NA	A	30	0.476 56	23.5	(444445579732, anage)(lifehistory)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
454	Chalcophaps indica	A	NA	168488 654.2	Sol	A	12.5	1.295	136.9 83333 4	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
455	Chalcophaps stephani	NA	NA	NA	NA	A	NA	1.088 0282 83	107.0 18316 3	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2041)
456	Chalcopsitta atra	NA	NA	NA	NA	NA	NA	5.9	227.5	(669, anage)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
457	Chamaea fasciata	A	45.5	NA	NA	A	15.5	0.797 72	14.7	(445578, anage)(lifehistory)(Geupel GR, Ballard G (2002) Wren tit. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American

										Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
458	Chamaeza campanisona	NA	NA	NA	NA	NA	NA	1.9	95	(Krabbe NK, Schulenberg TS (2003) Family Formicariidae (Ground-antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 682-731. Lynx edicions: Barcelona., parental)
459	Charadrius alexandrinus	P	0	NA	NA	NA	29	1.1	42.3	(444445450729, anage)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
460	Charadrius australis	P	0	NA	NA	P	NA	1.191 6836 56	80.96 36266 4	(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona.)(Sayol et al., 2042)
461	Charadrius bicinctus	P	0	NA	NA	P	0.1	1.149 96	59.4	(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
462	Charadrius collaris	P	0	NA	NA	NA	NA	NA	NA	NA
463	Charadrius dubius	P	0	NA	NA	NA	23.5	1	38.72 5	(450510729732820, anage)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
464	Charadrius falklandicus	P	0	NA	NA	P	NA	1.208 4845 59	70.52 73092 5	(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona.)(Sayol et al., 2043)
465	Charadrius hiaticula	P	0	NA	NA	NA	24	1.2	64.1	(450729732820, anage)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona. Wallander J, Blomqvist D, Liffeld JT (2001) Genetic and social monogamy - does it occur without mate guarding in the ringed plover? Ethology 107: 561-572., parental)
466	Charadrius leschenaultii	P	0	NA	NA	P	30	1.305 36	75	(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del

											Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
467	Charadrius melodus	P	0	NA	NA	P	32.5	0.994 3829 79	51.31 58668 7		(440444445576732)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona.)(Sayol et al., 2044)
468	Charadrius modestus	P	0	NA	NA	P	NA	1.285 7820 65	77.63 35749 1		(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona.)(Sayol et al., 2045)
469	Charadrius mongolus	P	0	NA	NA	P	32.5	1.170 68	64		(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
470	Charadrius pecuarius	P	0	NA	NA	P	25	0.849 52	33.5		(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
471	Charadrius placidus	P	0	NA	NA	NA	NA	NA	NA	NA	NA
472	Charadrius ruficapillus	P	0	NA	NA	P	29	0.849 52	41.2		(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
473	Charadrius semipalmatus	P	0	NA	NA	P	25.25	0.994 56	52		(427444445, anage)(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
474	Charadrius tricollaris	P	0	NA	NA	NA	NA	1	31.35		(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
475	Charadrius vociferus	P	0	NA	NA	P	27.5	1.160 32	94.27 5		(444445576, anage)(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)

476	Charadrius wilsonia	P	0	NA	NA	P	21	1.062 2264 65	65.75 92272 8	(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona.)(Sayol et al., 2046)
477	Chamosyna papou	NA	NA	NA	NA	A	49	3.574 2	83	(669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
478	Chamosyna pulchella	NA	NA	NA	NA	A	60	1.440 04	34.37 5	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
479	Chauna chavaria	P	3	NA	NA	P	NA	8.816 36	2603. 5	(lifehistory)(Carboneras C (1992) Family Anhimidae (Screamers). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 528-535. Lynx edicions: Barcelona., parental)
480	Chauna torquata	P	0	NA	NA	NA	67.5	9	3450	(Carboneras C (1992) Family Anhimidae (Screamers). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 528-535. Lynx edicions: Barcelona., parental)
481	Chelidoptera tenebrosa	NA	NA	NA	NA	A	NA	0.880 6	35.25	(lifehistory)(Rasmussen PC, Collar NJ (2002) Family Bucconidae (Puffbirds). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 102-139. Lynx edicions: Barcelona., parental)
482	Chen caerulescens	P	0	NA	NA	P	43.5	11.06 448	2630. 75	(4274444457297320000, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. Mowbray TB, Cooke F, Ganter B (2000) Snow goose. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-40. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
483	Chen rossii	P	0	NA	NA	P	41	7.096 6	1597. 5	(444445818, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. Ryder JP, Alisauskas RT (1995) Ross' goose. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and

										Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
484	Chenonetta jubata	P	0	390857 971.2	Sol	P	0.1	4.226 88	812.5	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne., parental)
485	Cheramoeca leucosterna	NA	NA	NA	NA	A	NA	0.455 8311 35	12.00 11202 5	(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona.)(Sayol et al., 2047)
486	Chersomane s albofasciata	NA	NA	NA	NA	A	10	0.973 84	23.97 5	(lifehistory)(Keith S, Urban EK, Fry CH, eds. (1992) The birds of Africa Vol IV. Academic Press: London. de Juana E, Suar_z F, Ryan PG, Alstr_m P, Donald PF (2004) Family Alaudidae (Larks). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 496-601. Lynx edicions: Barcelona. Steyn P (1988) Cooperative breeding in the spike-headed lark. Ostrich 59: 182., parental)
487	Chionis albus	P	85	NA	NA	SP	55	4.112 92	663.2 5	(lifehistory)(Burger AE (1996) Family Chionidae (Sheathbills). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 546-555. Lynx edicions: Barcelona., parental)
488	Chionis minor	P	42	NA	NA	NA	55	3.6	551	(Burger AE (1996) Family Chionidae (Sheathbills). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 546-555. Lynx edicions: Barcelona., parental)
489	Chiroxiphia caudata	NA	NA	NA	NA	A	NA	0.828 8	25.6	(lifehistory)(Snow DW (2004) Family Pipridae (Manakins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
490	Chiroxiphia linearis	NA	NA	NA	NA	A	NA	0.704 48	17.9	(lifehistory)(Snow DW (2004) Family Pipridae (Manakins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
491	Chlamydera maculata	A	NA	NA	NA	A	NA	4.093 3640 74	142.5 93795 9	(Frith CB, Frith DW (2004) The bowerbirds Ptilonorhynchidae. Oxford University Press: Oxford.)(Sayol et al., 2048)
492	Chlamydera nuchalis	A	NA	NA	NA	A	NA	5.190 36	216	(lifehistory)(Frith CB, Frith DW (2004) The bowerbirds Ptilonorhynchidae. Oxford University Press: Oxford. , parental)

493	Chlamydotis undulata	P	0	NA	NA	NA	35	5.5	5	1502.	(820, anage)(Collar NJ (1996) Family Otidae (Bustards). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 240-275. Lynx edicions: Barcelona., parental)
494	Chlidonias hybrida	P	8	NA	NA	SP	23	1.533	28	88	(lifehistory)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona., parental)
495	Chlidonias leucopterus	P	NA	NA	NA	NA	24.5	1.4	54.1		(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona., parental)
496	Chloephaga hybrida	P	0	NA	NA	P	NA	7.883	96	2327	(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
497	Chloephaga melanoptera	P	0	NA	NA	NA	NA	7.5		3090	(Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
498	Chloephaga picta	P	0	NA	NA	NA	NA	6.5		2930	(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
499	Chloephaga poliocephala	P	0	NA	NA	P	NA	6.008	8	2227.75	(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
500	Chloroceryle amazona	NA	NA	NA	NA	A	29.5	2.020	2	126.75	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
501	Chloroceryle americana	A	55	NA	NA	A	26	0.953	12	33.86666667	(427445, anage)(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
502	Chlorocichla flavicollis	NA	NA	NA	NA	A	NA	1.533	28	47.95	(lifehistory)(Fishpool LDC, Tobias JA (2005) Family Pycnonotidae (Bulbuls). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 124-250. Lynx edicions: Barcelona., parental)
503	Chlorophonia cyanea	NA	NA	NA	NA	A	NA	0.631	96	14	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
504	Chloropsis hardwickii	NA	NA	NA	NA	NA	NA	0.76		32.75	(Wells DR (2005) Family Chloropseidae (Leafbirds). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del

											Hoyo J, Elliott A, Christie D) p. 252-266. Lynx edicions: Barcelona., parental)
505	Chloropsis palawanensis	NA	NA	NA	NA	A	NA	1.0878	30.65		(lifehistory)(Wells DR (2005) Family Chloropseidae (Leafbirds). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 252-266. Lynx edicions: Barcelona., parental)
506	Chlorospingus ophthalmicus	NA	NA	NA	NA	A	13	1.01528	23.1		(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
507	Chlorospingus pileatus	NA	NA	NA	NA	A	NA	1.149546071	19.80629864		(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London.)(Sayol et al., 2049)
508	Chlorostilbon mellisugus	NA	NA	NA	NA	NA	18	0.123	2.725		(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
509	Chlorostilbon ricordii	A	NA	NA	NA	A	20.5	0.13468	3.445		(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
510	Chlorothraupis carmioli	NA	NA	NA	NA	A	NA	1.3468	38.95		(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
511	Chondrohierax uncinatus	A	NA	NA	NA	NA	NA	NA	NA	NA	NA
512	Chordeiles minor	P	25	NA	NA	SP	21	0.8806	79.3		(427435444445820, anage)(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
513	Chrysococcyx basalis	A	46	NA	NA	A	17	0.64232	23.5		(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
514	Chrysococcyx caprius	A	41	NA	NA	A	21	0.79772	33.575		(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
515	Chrysococcyx lucidus	A	54	NA	NA	A	20	0.71484	24.45		(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
516	Chrysococcyx minutillus	NA	NA	NA	NA	A	NA	0.600716088	15.50247983		(Payne RB (2005) The cuckoos. Oxford University Press: Oxford.)(Sayol et al., 2050)
517	Chrysococcyx osculans	NA	NA	NA	NA	A	NA	0.756061274	27.9942743		(Payne RB (2005) The cuckoos. Oxford University Press: Oxford.)(Sayol et al., 2051)

518	Chrysocolaptes lucidus	A	NA	NA	NA	A	25	4.765 3316 88	119.94 10054	(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona.)(Sayol et al., 2052)
519	Chrysolampis mosquitos	A	NA	NA	NA	NA	NA	NA	NA	NA
520	Chrysolophus amherstiae	P	0	NA	NA	P	0.1	3.895 36	714	(986, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
521	Chrysolophus pictus	P	0	NA	NA	P	0.1	3.439 52	633.7 5	(986987, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
522	Chrysomus ruficapillus	NA	NA	NA	NA	NA	NA	0.81	33	(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London.)
523	Chthonicola sagittatus	A	56	NA	NA	A	NA	0.621 4916 17	13.50 41899	(Gardner JL (2002) Breeding biology of the speckled warbler, Chthonicola sagittata. Australian Journal of Zoology 50: 169-181. Gardner JL, Magrath RD, Kokko H (2003) Stepping stones of life: Natal dispersal in the group-living but noncooperative speckled warbler. Animal Behaviour 66: 521-530.)(Sayol et al., 2053)
524	Chunga burmeisteri	A	NA	NA	NA	NA	NA	7.5	1303. 75	(Gonzaga LP (1996) Family Cariamidae (Seriemas). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 234-239. Lynx edicions: Barcelona., parental)
525	Cicinnurus regius	A	31	NA	NA	A	14	1.802 64	53	(lifehistory)(Frith CB, Beehler BM (1998) The Birds of Paradise: Paradisaeidae. Oxford University Press: Oxford. , parental)
526	Ciconia abdimii	A	NA	NA	NA	NA	55	8.3	1398	(668820, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
527	Ciconia boyciana	A	NA	NA	NA	NA	61	20.9	3538	(668820, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
528	Ciconia ciconia	A	74.5	NA	Massen	SA	61	15.19 812	3350	(438450732972, anage)(lifehistory)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
529	Ciconia episcopus	A	81	NA	NA	NA	60	10.8	2061	(668820, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)

530	Ciconia maguari	NA	NA	NA	NA	NA	66.5	20.5	4000	(668732820, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
531	Ciconia nigra	A	81	NA	NA	NA	67	11.8	3000	(668820, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
532	Cinclidium leucurum	NA	NA	NA	NA	A	NA	0.92204	27	(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
533	Cinclodes fuscus	NA	NA	NA	NA	A	NA	0.91168	29.925	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
534	Cinclodes patagonicus	NA	NA	NA	NA	A	NA	1.28464	35.525	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
535	Cincloramphus cruralis	NA	NA	NA	NA	A	NA	1.16032	53.5	(lifehistory)(Magrath MJL (2002) personal communication., parental)
536	Cincloramphus mathewsi	A	NA	NA	NA	A	NA	0.9324	30	(lifehistory)(Magrath MJL (2002) personal communication., parental)
537	Cinclsoma cinnamomeum	NA	NA	NA	NA	A	NA	1.52292	57.375	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
538	Cinclsoma punctatum	NA	NA	NA	NA	A	NA	2.141201551	100.8868912	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2054)
539	Cinclus cinclus	A	36	NA	NA	NA	22	1.3643	61.7	(4507298201143, anage)(Ormerod SJ, Tyler SJ (2005) Family Cinclidae (Dippers). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 332-355. Lynx edicions: Barcelona., parental)
540	Cinclus mexicanus	A	49	NA	NA	A	20.25	1.4504	55.9	(427445, anage)(lifehistory)(Ormerod SJ, Tyler SJ (2005) Family Cinclidae (Dippers). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 332-355. Lynx edicions: Barcelona., parental)
541	Cinnyricinclus leucogaster	A	NA	NA	NA	A	21	1.22248	44.15	(lifehistory)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Feare C, Craig A (1998)

											Starlings and mynas. Christopher Helm: London. , parental)
542	Circaetus cinereus	A	112	NA	NA	NA	104.5	14.5	2048		(1732820, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
543	Circaetus fasciolatus	NA	NA	NA	NA	NA	NA	9.5	1021.5		(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
544	Circaetus gallicus	A	100	NA	NA	NA	NA	NA	NA	NA	NA
545	Circus aeruginosus	A	57.5	687876 943.3	Sol	NA	37.5	5.846 3	607		(450729820, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Buczek T (1994) [An unusual case of breeding cooperation in the marsh harrier (Circus aeruginosus)]. Notatki Ornitologiczne 35: 321-329. Tryjanowski P, Winiiecki A (1995) Polyandrie bei Weißen (Circus spec.). Ornithologische Mitteilungen 47: 75., parental)
546	Circus cyaneus	A	57	NA	NA	SA	36.25	4.952 08	436.5		(437444445450732, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Simmons R, Barnard P, MacWhirter B, Hansen GL (1986) The influence of microtines on polygyny, productivity, age and provisioning of breeding northern harriers: a 5-year study. Canadian Journal of Zoology 64: 2447-2456., parental)

547	Cissa chinensis	A	NA	NA	NA	A	NA	3.574 2	129.2 5	(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
548	Cissopis leverianus	NA	NA	NA	NA	A	NA	1.771 56	78.7	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
549	Cisticola cherina	NA	NA	NA	NA	A	NA	0.445 48	9.85	(lifehistory)(Urban EK, Fry CH, Keith S, eds. (1997) The birds of Africa Vol V.Academic Press: London., parental)
550	Cisticola exilis	A	NA	NA	NA	A	NA	0.404 04	7.325	(lifehistory)(Lewis MJ (2002) personal communication., parental)
551	Cisticola fulvicapilla	A	NA	NA	NA	A	NA	0.528 36	8.25	(lifehistory)(Urban EK, Fry CH, Keith S, eds. (1997) The birds of Africa Vol V.Academic Press: London., parental)
552	Cistothorus palustris	A	26	NA	NA	A	13	0.538 72	11.25	(lifehistory)(Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsma DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona. Kroodsma DE, Verner J (1997) Marsh wren (Cistothorus palustris). in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
553	Cladorhynchus leucocephalus	P	0	NA	NA	P	4.5	1.667 96	215.2 5	(lifehistory)(Pierce RJ (1996) Family Recurvirostridae (Stilts and Avocets). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 332-347. Lynx edicions: Barcelona., parental)
554	Clamator glandarius	A	64.5	NA	NA	A	24	1.968 4	151.5	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
555	Clangula hyemalis	P	0	NA	NA	P	35	5.055 68	814	(444445450, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. Robertson GJ, Savard J-PL (2002) Long-tailed duck. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)

556	Claravis pretiosa	A	NA	NA	NA	A	11.5	0.9324	70.4	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
557	Climacteris erythroptus	A	91	NA	NA	NA	NA	NA	NA	NA
558	Climacteris melanurus	NA	NA	NA	NA	A	NA	0.860163444	33.51523126	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2055)
559	Climacteris picumnus	A	55.5	NA	NA	A	NA	1.036	29.4	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
560	Climacteris rufus	A	56	NA	NA	A	26	1.06708	32.675	(lifehistory)(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland. , parental)
561	Clytolaema rubicauda	NA	NA	NA	NA	NA	NA	0.28	7.9	(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
562	Clytorhynchus pachycephaloides	NA	NA	NA	NA	A	NA	1.088028283	41.51272472	(Hannecart F, Letocart Y (1980) Oiseaux de Nouvelle Calédonie et des Loyautés. Tome 1 Volume 1. Les Editions Cardinaux: Noumea.)(Sayol et al., 2056)
563	Cnemotriccus fuscatus	A	NA	NA	NA	A	NA	0.47656	13.6	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
564	Coccothraustes coccothraustes	A	33.5	NA	NA	NA	14	1.63	56.05	(444450729820, anage)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)

565	Coccothraustes vespertinus	A	55.5	NA	NA	A	13.5	1.761 2	59.5	(425444445, anage)(lifehistory)(Gillihan SW, Byers B (2001) Evening grosbeak: Coccothraustes vespertinus. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-23. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
566	Coccyzus americanus	A	NA	NA	NA	A	21	1.212 12	61	(444445579, anage)(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. Hughes JM (1999) Yellow-billed cuckoo. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
567	Coccyzus erythrophthalmus	A	23	NA	NA	A	22.5	1.046 36	49.57 33333 3	(444445579, anage)(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
568	Coccyzus merlini	NA	NA	NA	NA	NA	NA	2.5	173.5	(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
569	Coccyzus minor	A	NA	NA	NA	NA	NA	1.2	65.82 5	(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
570	Coccyzus vetula	NA	NA	NA	NA	A	NA	2.072	95.75	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
571	Cochlearius cochlearius	A	NA	NA	NA	SA	NA	6.039 88	635.7 5	(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
572	Coereba flaveola	A	NA	NA	NA	A	18	0.455 84	10	(427820, anage)(lifehistory)(Stiles FG, Skutch AF (1989) A guide to the birds of Costa Rica. Cornell University Press: Ithaca. , parental)
573	Colaptes auratus	A	39	NA	NA	A	28	3.170 16	130.6 71666 7	(444445579, anage)(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
574	Colibri coruscans	A	NA	NA	NA	NA	NA	0.24	6.7	(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
575	Colinus virginianus	P	0	148399 000	Kverkova + sol	P	14	1.346 8	173.3 33333 3	(437444445, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
576	Colius striatus	A	40.5	NA	NA	A	17.5	1.181 04	52.5	(986, anage)(lifehistory)(Decoux JP (1988) Coliidae, mousebirds or colies. in The Birds of

											Africa. Vol III. (ed. Fry CH, Keith S, Urban EK) p. 197-242. Academic Press: London., parental)
577	Collocalia esculenta	A	NA	NA	NA	A	42	0.207 2	6.85		(lifehistory)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
578	Collocalia spodiopygia	A	NA	NA	NA	A	48	0.248 64	9.3		(lifehistory)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
579	Colluricincla harmonica	A	NA	NA	NA	A	17.5	2.072	67.62 5		(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
580	Colluricincla megarhyncha	A	NA	NA	NA	A	NA	1.388 24	34.05		(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
581	Colonia colonus	NA	NA	NA	NA	A	NA	0.486 92	18		(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
582	Columba arquatrix	A	34	NA	NA	A	19	2.485 2348 05	500.1 95989 2		(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2057)
583	Columba guinea	A	NA	258217 412.5	Sol	A	21.5	2.071 6950 64	375.0 27741 3		(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2058)

584	Columba leucomela	NA	NA	NA	NA	A	21.5	2.372 44	419.9 5	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
585	Columba leuconota	A	NA	NA	NA	NA	NA	NA	NA	NA
586	Columba livia	A	49	309958 204	Olowicz	NA	31	2.279 4	320	(1,61,62,399,400,404,405,444,445,732, anage)(NA, parental)
587	Columba oenas	A	NA	NA	NA	NA	25	2.2	296	(450729732820, anage)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
588	Columba palumbus	A	66	258681 034.4	Kverkova + sol	NA	33.3	2.556	490	(450729732820, anage)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
589	Columba vitiensis	NA	NA	NA	NA	A	18	2.312 5877 69	379.9 34929 5	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2059)
590	Columbina cruziana	NA	NA	NA	NA	NA	NA	0.53	49.02 5	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
591	Columbina inca	A	21	NA	NA	A	15	0.756 28	48.75	(444445575579, anage)(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and

											Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
592	Columbina minuta	A	NA	NA	NA	A	13	0.588 2325 85	29.72 53435 5		(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2060)
593	Columbina passerina	A	33	896303 70.4	Sol	A	11	0.663 04	35		(444445577, anage)(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
594	Columbina picui	A	NA	NA	NA	A	12.5	0.779 8662 44	51.62 46876		(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2061)
595	Columbina squammata	NA	NA	NA	NA	NA	NA	1	52.45		(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
596	Columbina talpacoti	A	25	NA	NA	A	115	0.745 92	46.37 5		(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
597	Conopophaga lineata	A	59	NA	NA	A	14	0.725 2	25.35		(lifehistory)(Whitney BM (2003) Family Conopophagidae (Gnateaters). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 732-747. Lynx edicions: Barcelona., parental)

598	Conopophila albogularis	A	39	NA	NA	A	NA	0.580 0547 08	10.49 60605 4	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2062)
599	Conopophila rufogularis	NA	NA	NA	NA	A	12	0.455 84	10.8	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
600	Contopus cooperi	A	27	NA	NA	A	17	0.663 04	32.76 66666 7	(427445, anage)(lifehistory)(Altman B, Sallabanks R (2000) Olive-sided flycatcher. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
601	Contopus latirostris	NA	NA	NA	NA	A	NA	0.393 68	11.2	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
602	Contopus virens	A	41.5	NA	NA	A	16	0.466 2	13.95	(427435444820977, anage)(lifehistory)(McCarty JP (1996) Eastern wood-pewee. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
603	Copsychus saularis	A	38.4	NA	NA	A	16	1.139 6	36.75	(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
604	Coracias caudatus	A	55	NA	NA	A	35	2.134 16	122.5	(986, anage)(lifehistory)(Fry CH (2001) Family Coraciidae (Rollers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 342-377. Lynx edicions: Barcelona., parental)
605	Coracias garrulus	A	49	NA	NA	A	26.5	2.403 52	146	(450820, anage)(lifehistory)(Aviles JM, Sanchez JM (1999) Uncommon helper behaviour in the roller Coracias garrulus. Alauda 67: 75., parental)
606	Coracina caledonica	NA	NA	NA	NA	A	NA	3.097 64	144.2 5	(lifehistory)(Taylor PB (2005) Family Campephagidae (Cuckoo-shrikes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes

											to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 40-122. Lynx edicions: Barcelona., parental)
607	Coracina maxima	NA	NA	NA	NA	A	29	2.278 1578 23	134.6 93253 9		(Taylor PB (2005) Family Campephagidae (Cuckoo-shrikes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 40-122. Lynx edicions: Barcelona.)(Sayol et al., 2063)
608	Coracina novaehollandiae	A	86	NA	NA	A	22.5	2.486 4	115.13 33333		(lifehistory)(Taylor PB (2005) Family Campephagidae (Cuckoo-shrikes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 40-122. Lynx edicions: Barcelona., parental)
609	Coracina papuensis	A	NA	NA	NA	A	NA	2.103 08	66.76 66666 7		(lifehistory)(Taylor PB (2005) Family Campephagidae (Cuckoo-shrikes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 40-122. Lynx edicions: Barcelona., parental)
610	Coracina tenuirostris	A	NA	NA	NA	A	28	1.776 0062 15	58.73 28972 5		(Taylor PB (2005) Family Campephagidae (Cuckoo-shrikes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 40-122. Lynx edicions: Barcelona.)(Sayol et al., 2064)
611	Coragyps atratus	A	260	100936 6000	Kverkova + sol	SA	75	12.42 164	2080. 5		(444445576732, anage)(lifehistory)(Houston DC (1994) Family Cathartidae (New World vultures). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 24-41. Lynx edicions: Barcelona., parental)
612	Corcorax melanorhamphos	A	227.6	NA	NA	A	25.5	5.387 2	364		(575820, anage)(lifehistory)(Heinsohn R, Dunn P, Legge S, Double M (2000) Coalitions of relatives and reproductive skew in cooperatively breeding white-winged choughs. Proceedings of the Royal Society Biological Sciences Series B 267: 243-249. Rowley I (1978) Communal activities among white-winged choughs Corcorax melanorhamphos. Ibis 120: 178-97., parental)
613	Cormobates leucophaea	A	61	NA	NA	A	25.5	0.839 16	22.3		(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
614	Corvus albicollis	A	NA	NA	NA	NA	NA	12	942		(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
615	Corvus albus	A	NA	NA	NA	A	40	9.065	560.5		(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)

616	Corvus bennetti	A	NA	NA	NA	A	31	6.671 84	396.2 5	(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
617	Corvus brachyrhynchos	A	92	NA	NA	A	30.15	7.428 12	453	(61444445732, anage)(lifehistory)(Verbeek NAM, Caffrey C (2002) American crow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-36. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
618	Corvus capensis	A	127.5	NA	NA	NA	NA	8	553	(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
619	Corvus caurinus	A	108.7	NA	NA	A	31.7	7.697 48	387	(427444445732, anage)(lifehistory)(Verbeek NAM, Butler RW (1999) Northwestern crow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
620	Corvus corax	A	83	217067 7586	Olowicz	A	41.5	14.97 02	1097	(62405425444445400, anage)(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
621	Corvus corone	A	67	NA	Strockens	A	34	8.816 36	544.5	(61425450729732, anage)(lifehistory)(Baglione V, Marcos JM, Canestrari D (2002) Cooperatively breeding groups of carrion crow (Corvus corone corone) in northern Spain. Auk 119: 790-799., parental)
622	Corvus coronoides	A	133.1	NA	NA	A	43.1	10.18 388	640	(575820, anage)(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
623	Corvus cryptoleucus	A	NA	NA	NA	A	36	9.272 2	536.5	(425427444445732000, anage)(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
624	Corvus dauuricus	NA	NA	NA	NA	A	NA	4.921	204.5	(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
625	Corvus frugilegus	A	75	150872 0534	Olowicz	A	32.5	7.883 96	453.5	(425450729820, anage)(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
626	Corvus mellori	A	66.7	NA	NA	A	37.3	8.806	536.7 5	(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)

627	Corvus monedula	A	67	967985019	Olowicz	A	32.5	5.3354	246	(450729732820868, anage)(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
628	Corvus moneduloides	NA	NA	NA	NA	A	NA	7.49028	309	(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. Kenward BJ, Rutz C, Weir AAS, Chappell J, Kacelnik A (2004) Morphology and sexual dimorphism of the New Caledonian crow Corvus moneduloides, with notes on its behaviour and ecology. Ibis 146: 652-660., parental)
629	Corvus orru	A	101	NA	NA	A	39.7	9.23076	550	(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
630	Corvus ossifragus	A	66	NA	NA	A	36	6.20564	285.05	(444445579, anage)(lifehistory)(McGowan KJ (2001) Fish crow: Corvus ossifragus. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-27. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
631	Corvus ruficollis	A	NA	NA	NA	NA	43.5	10.5	593	(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
632	Corydon sumatranus	NA	NA	NA	NA	A	NA	2.4864	140	(lifehistory)(Lambert F, Woodcock M (1996) Pittas, broadbills and asities. Pica: Sussex. Bruce MD (2003) Family Eurylaimidae (Broadbills). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 54-93. Lynx edicions: Barcelona., parental)
633	Coryphistera alaudina	NA	NA	NA	NA	A	NA	0.97384	29.75	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona. Fraga RA (1979) Helpers at the nest in passerines from Buenos Aires Province. Auk 96: 608. Masmaron DO (1971) Contribucion al estudio de las aves de San Luis. El Hornero 11: 113-123., parental)
634	Coryphospingus cucullatus	NA	NA	NA	NA	A	NA	0.69412	14.1	(lifehistory)(Ridgley RS, Tudor G (1989) The birds of South America. Vol. I. The oscine passerines. Oxford University Press: Oxford. , parental)
635	Corythaeola cristata	NA	NA	NA	NA	NA	NA	6.2	1000	(Forshaw JM, Cooper WT (2002) Turacos: a natural history of the Musophagidae. Nokomis: Melbourne. , parental)

636	Corythaixoides concolor	A	45	NA	NA	NA	33	3.6	263.25	(Forshaw JM, Cooper WT (2002) Turacos: a natural history of the Musophagidae. Nokomis: Melbourne. , parental)
637	Coscorobacoscoroba	P	0	NA	NA	P	70	9.48976	4050	(lifehistory)(Carboneras C (1992) Family Anatidae (Ducks, geese and swans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 536-628. Lynx edicions: Barcelona., parental)
638	Cossyphacaffra	A	58.5	NA	NA	A	16.5	1.05672	28.475	(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
639	Coturnicops noveboracensis	P	25	NA	NA	P	35	0.76664	60.9	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
640	Coturnix chinensis	P	0	80478000	Kverkova + sol	NA	NA	0.5	41	(952, anage)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
641	Coturnix coturnix	P	0	11776000	Kverkova + sol	P	0.1	0.97384	98.75	(450510729732820, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. Rodriguez-Teijeiro JD, Puigcerver M, Gallego S, Cordero PJ, Parkin DT (2003) Pair bonding and multiple paternity in the polygamous common quail Coturnix coturnix. Ethology 109: 291-302., parental)
642	Coturnix pectoralis	P	0	NA	NA	P	0.1	0.99456	100.975	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
643	Couacaerulea	NA	NA	NA	NA	NA	NA	4.2	245.75	(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
644	Cracticus nigrogularis	A	58.25	NA	NA	A	29.5	3.12872	126.65	(lifehistory)(Rowley I (1976) Co-operative breeding in Australian birds. in Proceedings of the 16th International Ornithological Congress. (ed. Frith HJ, Calaby JH) p. 657-666. Australian Academy of Science: Canberra., parental)
645	Cracticus quoyi	A	NA	NA	NA	A	NA	3.677992709	180.007767	(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney.)(Sayol et al., 2065)
646	Cracticus torquatus	A	62.8	NA	NA	A	28	2.88008	80.675	(lifehistory)(Rowley I (1976) Co-operative breeding in Australian birds. in Proceedings of the 16th International Ornithological Congress. (ed. Frith HJ, Calaby JH) p. 657-666. Australian Academy of Science: Canberra., parental)

647	Crateroscelis nigrorufa	NA	NA	NA	NA	A	NA	0.828 9189 84	15.50 24798 3	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2066)
648	Crax alector	P	NA	NA	NA	NA	NA	7	2912. 5	(del Hoyo J (1994) Family Cracidae (Chachalacas, guans and curassows). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
649	Crax rubra	P	NA	NA	NA	P	20	9.904 16	4133	(1820, anage)(lifehistory)(del Hoyo J (1994) Family Cracidae (Chachalacas, guans and curassows). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
650	Crex crex	P	36	NA	NA	P	36	1.429 68	155.5	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
651	Crinifer piscator	NA	NA	NA	NA	SA	NA	4.869 2	370	(lifehistory)(Forshaw JM, Cooper WT (2002) Turacos: a natural history of the Musophagidae. Nokomis: Melbourne. , parental)
652	Crossoptilon auritum	P	0	NA	NA	NA	NA	5.9	1785	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
653	Crossoptilon crossoptilon	P	0	NA	NA	P	0.1	6.091 68	1962. 5	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
654	Crotophaga ani	NA	NA	NA	NA	A	10.25	1.616 16	112.62 5	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
655	Crypturellus obsoletus	P	0	NA	NA	NA	NA	3.3	425	(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
656	Crypturellus soui	P	0	NA	NA	P	21	1.543 64	211.25	(lifehistory)(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
657	Crypturellus tataupa	P	0	NA	NA	NA	NA	NA	NA	NA
658	Cuculus canorus	A	56	NA	NA	A	19	1.626 52	111.5	(450510729820, anage)(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
659	Cuculus pallidus	NA	NA	NA	NA	A	NA	1.481 48	87.7	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)

660	Cuculus saturatus	NA	NA	NA	NA	A	NA	1.636 88	88.1	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
661	Culicicapa helianthea	NA	NA	NA	NA	A	NA	0.321 16	8.2	(lifehistory)(Kennedy RS, Gonzales PC, Dickinson EC, Miranda HC, Fisher TH (2000) A guide to the birds of the Phillipines. Oxford University Press: Oxford. , parental)
662	Curaeus curaeus	NA	NA	NA	NA	A	NA	2.558 92	83.55	(lifehistory)(Orians GH, Orians CE, Orians KJ (1977) Helpers at the nest in some Argentine blackbirds. in Evolutionary Ecology. (ed. Stonehouse B, Perrins CM) p. 137-151. University Park Press: Baltimore., parental)
663	Cursorius cursor	P	NA	NA	NA	P	0.1	1.491 84	138	(lifehistory)(Maclean GL (1996) Family Glareolidae (Coursers and pratincoles). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 364-383. Lynx edicions: Barcelona., parental)
664	Cursorius temminckii	P	NA	NA	NA	NA	NA	1.3	69.2	(Maclean GL (1996) Family Glareolidae (Coursers and pratincoles). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 364-383. Lynx edicions: Barcelona., parental)
665	Cyanerpes cyaneus	A	NA	NA	NA	A	14	0.569 8	14	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
666	Cyanocitta cristata	A	79	NA	NA	A	19	3.025 12	85.25	(61444445579, anage)(lifehistory)(Tarvin KA, Woolfenden GE (1999) Blue jay. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
667	Cyanocitta stelleri	A	47	NA	NA	A	16	3.667 44	120	(444445577818, anage)(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
668	Cyanocorax affinis	NA	NA	NA	NA	A	NA	4.680 3230 9	203.9 75522 7	(Hilty SL (2003) Birds of Venezuela. Princeton University Press: Princeton. Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London.)(Sayol et al., 2067)
669	Cyanocorax chrysops	NA	NA	NA	NA	NA	NA	4.3	162	(Amaral MF, Macedo RHF (2003) Breeding patterns and habitat use in the endemic curl-crested jay of central Brazil. Journal of Field Ornithology 74: 331-340., parental)
670	Cyanocorax morio	A	112	NA	NA	A	24.75	4.972 8	214	(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)

671	Cyanocorax yncas	A	50	NA	NA	NA	19	2.4	79.116 66667	(427444445820, anage)(Gayou DC (1995) Green jay. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-12. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
672	Cyanopica cyanus	NA	NA	740589 144	Olowicz	NA	NA	3	92	(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
673	Cyanoramphus auriceps	A	NA	NA	NA	A	40	2.880 08	45.97 5	(669820, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
674	Cyanoramphus novaezelandiae	A	61	NA	NA	A	NA	2.331 1626 72	59.02 72971 2	(669820979)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne.)(Sayol et al., 2068)
675	Cyanoramphus unicolor	A	64	NA	NA	A	50	4.175 08	150.1	(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
676	Cyclarhis gujanensis	NA	NA	NA	NA	A	NA	1.305 36	28.75	(lifehistory)(Stiles FG, Skutch AF (1989) A guide to the birds of Costa Rica. Cornell University Press: Ithaca. , parental)
677	Cyclopsitta diophthalma	A	45.7	NA	NA	A	NA	1.761 8548 46	33.01 62544 7	(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne.)(Sayol et al., 2069)
678	Cyclopsitta guillemittii	NA	NA	NA	NA	A	NA	1.579 9088 32	29.48 84894 8	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2070)
679	Cygnus atratus	P	0	NA	NA	P	160	12.58 74	5656	(820, anage)(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne., parental)
680	Cygnus buccinator	P	0	NA	NA	P	98.5	21.02 044	10300	(1437438445, anage)(lifehistory)(Carboneras C (1992) Family Anatidae (Ducks, geese and swans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 536-628. Lynx edicions: Barcelona., parental)

681	Cygnus columbianus	P	0	NA	NA	P	60.25	17.97 46	6350	(4374444454501140, anage)(lifehistory)(Carboneras C (1992) Family Anatidae (Ducks, geese and swans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 536-628. Lynx edicions: Barcelona. Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. , parental)
682	Cygnus cygnus	P	0	NA	NA	P	98.5	20.20 2	9413	(450729820, anage)(lifehistory)(Carboneras C (1992) Family Anatidae (Ducks, geese and swans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 536-628. Lynx edicions: Barcelona. Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. , parental)
683	Cygnus melancoryphus	P	0	NA	NA	NA	70	10.7	4275	(Carboneras C (1992) Family Anatidae (Ducks, geese and swans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 536-628. Lynx edicions: Barcelona., parental)
684	Cygnus olor	P	0	100111 6000	Kverkova + sol	NA	135	15.4	10230	(6.14444457127297E+27, anage)(Carboneras C (1992) Family Anatidae (Ducks, geese and swans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 536-628. Lynx edicions: Barcelona. Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. Wlodarczyk R, Kolacinski S (2001) "A helper" at the mute swan's nest? Ornis Fennica 78: 135-138., parental)
685	Cymbilaimus lineatus	NA	NA	NA	NA	A	NA	1.263 92	36.65	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
686	Cymbirhynchus macrorhynchus	NA	NA	NA	NA	NA	NA	1.5	59.4	(Lambert F, Woodcock M (1996) Pittas, broadbills and asities. Pica: Sussex. Bruce MD (2003) Family Eurylaimidae (Broadbills). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 54-93. Lynx edicions: Barcelona., parental)
687	Cyornis rubeculoides	A	NA	NA	NA	A	NA	0.569 8	14.35	(lifehistory)(Ali S, Ripley SD (1972) Handbook of the birds of India and Pakistan. Vol. 7. Laughing thrushes to the mangrove whistler. Oxford University Press: Bombay.)

688	Cyphorhinus arada	NA	NA	NA	NA	A	NA	0.94276	20.85	(lifehistory)(Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsma DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona., parental)
689	Cypsiurus parvus	A	NA	NA	NA	A	31	0.3108	13.6	(lifehistory)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
690	Cyrtonyx montezumae	P	0	NA	NA	P	0.1	1.51256	185.55	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
691	Dacelo gaudichaud	A	NA	NA	NA	NA	NA	NA	NA	NA
692	Dacelo leachii	A	116	NA	NA	A	36	4.38228	321.6	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
693	Dacelo novaeguineae	A	108	NA	NA	A	35	4.46516	340.325	(986, anage)(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
694	Dacnis cayana	NA	NA	NA	NA	A	13	0.5698	12.875	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
695	Daphoenositta chrysoptera	A	78.5	NA	NA	A	17.5	0.5595441	13.5041899	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne.)(Sayol et al., 2071)
696	Daption capense	A	50	NA	NA	SP	48.5	5.20072	424.75	(427444732, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
697	Daptrius ater	NA	NA	NA	NA	SA	NA	5.47008	362.5	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)

698	Dasyornis brachypterus	A	NA	NA	NA	A	NA	1.502 8557 69	43.99 16569	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne.)(Sayol et al., 2072)
699	Dasyornis broadbenti	A	NA	NA	NA	A	NA	1.947 68	67.9	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne., parental)
700	Delichon urbicum	A	42	NA	NA	A	21.5	0.497 28	16.77 5	(450729732820, anage)(lifehistory)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes. Oxford University Press: Oxford. Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona., parental)
701	Dendragapus canadensis	P	0	NA	NA	P	0.1	2.527 84	456	(1440445732, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
702	Dendragapus obscurus	P	0	NA	NA	P	10	3.180 52	1059	(143544445732820, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
703	Dendrocincia fuliginosa	A	45	NA	NA	A	24	1.098 16	40.72 5	(lifehistory)(Marantz CA, Aleixo A, Bevier LR, Patten MA (2003) Family Dendrocolaptidae (Woodcreepers). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 358-447. Lynx edicions: Barcelona., parental)
704	Dendrocitta vagabunda	A	NA	NA	NA	NA	NA	2.8	109	(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
705	Dendrocolapt es certhia	NA	NA	NA	NA	A	NA	1.802 64	69.72 5	(lifehistory)(Marantz CA, Aleixo A, Bevier LR, Patten MA (2003) Family Dendrocolaptidae (Woodcreepers). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 358-447. Lynx edicions: Barcelona., parental)
706	Dendrocopos major	A	31.5	NA	NA	NA	NA	2.708	76.5	(450729732820, anage)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona. Kotaka N (1998) Classical polyandry in the great spotted woodpecker Dendrocopos major. Ibis 140: 335-336., parental)

707	Dendrocopos medius	A	NA	NA	NA	NA	23	2.3	59	(729820, anage)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona. Pasinelli G (1993) Nachweis eines Helfers bei einer Brut des Mittelspechts Dendrocopos medius. Ornithologische Beobachter 90: 303-304., parental)
708	Dendrocopos minor	A	35	NA	NA	NA	21	1.2	20	(450729820, anage)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona. Wiktander U, Olsson O, Nilsson SG (2000) Parental care and social mating system in the lesser spotted woodpecker Dendrocopos minor. Journal of Avian Biology 31: 447-456., parental)
709	Dendrocygna arborea	P	0	NA	NA	NA	NA	6	1150	(Carboneras C (1992) Family Anatidae (Ducks, geese and swans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 536-628. Lynx edicions: Barcelona., parental)
710	Dendrocygna arcuata	P	0	398626 142.7	Sol	P	1	4.672 36	776.6 66666 7	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne., parental)
711	Dendrocygna autumnalis	P	0	NA	NA	NA	58	4.7	826.5	(444445576732, anage)(James JD, Thompson JE (2001) Black-bellied whistling duck. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
712	Dendrocygna eytoni	P	0	NA	NA	P	NA	4.724 16	792	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne., parental)
713	Dendrocygna viduata	P	0	NA	NA	NA	NA	4.9	674	(448, anage)(Carboneras C (1992) Family Anatidae (Ducks, geese and swans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 536-628. Lynx edicions: Barcelona., parental)
714	Dendroica caerulescens	A	30	NA	NA	A	9.5	0.445 48	10.2	(425445577818820, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)

715	Dendroica castanea	A	15.5	NA	NA	NA	11.5	0.44	12.113 33333	(427444445, anage)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
716	Dendroica coronata	A	26	NA	NA	A	13	0.528 36	12.55	(427435444445820, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
717	Dendroica magnolia	A	34.5	NA	NA	NA	9	0.38	8.6	(427444445, anage)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
718	Dendroica pensylvanica	A	38.5	NA	NA	NA	11	0.39	9.6	(444445578977, anage)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
719	Dendroica petechia	A	30	NA	NA	A	10	0.538 72	10	(427445732, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
720	Dendropicos fuscescens	A	27	NA	NA	A	27	1.263 92	29.8	(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
721	Dendroplex picus	NA	NA	NA	NA	A	NA	1.346 8	39.5	(lifehistory)(Marantz CA, Aleixo A, Bevier LR, Patten MA (2003) Family Dendrocolaptidae (Woodcreepers). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 358-447. Lynx edicions: Barcelona., parental)
722	Deroptylus accipitrinus	A	NA	NA	NA	A	63	8.018 64	246	(575669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
723	Dicaeum aeruginosum	NA	NA	NA	NA	A	NA	0.518	9	(lifehistory)NA
724	Dicaeum hirundinaceu m	A	NA	NA	NA	A	15	0.383 32	8.8	(lifehistory)(Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
725	Dicrurus bracteatus	A	NA	NA	NA	NA	NA	NA	NA	NA
726	Dicrurus hottentottus	NA	NA	NA	NA	A	NA	2.030 56	79.18 33333 3	(lifehistory)(Ali S, Ripley SD (1972) Handbook of the birds of India and Pakistan. Vol. 5. Larks to the grey hypocolius. Oxford University Press: Bombay. , parental)

727	Didunculus strigirostris	NA	NA	NA	NA	NA	NA	3	400	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
728	Dinemellia dinemelli	NA	NA	NA	NA	NA	NA	1.735	64	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings. Christopher Helm: London. Wilkinson R, McLeod W (1994) Breeding the white-headed (Bohm's) buffalo weaver and the Taveta golden weaver at Chester Zoo. Avicultural Magazine 100: 24-28., parental)
729	Dinopium javanense	A	NA	NA	NA	A	NA	2.766 12	76.77 5	(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
730	Diomedea exulans	P	271	NA	NA	SP	277.7	29.26 7	7990	(4357328209521140, anage)(lifehistory)(Carboneras C (1992) Family Diomedidae (Albatrosses). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 198-215. Lynx edicions: Barcelona., parental)
731	Diopsittaca nobilis	NA	NA	NA	NA	A	60	6.050 24	149	(669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
732	Diuca diuca	NA	NA	NA	NA	A	NA	1.326 08	36.4	(lifehistory)(Fjelds_ J, Krabbe N (1990) Birds of the high Andes. University of Copenhagen and Apollo Books: Svenborg. Chesser RT (1994) Migration in South America: an overview of the austral system. Bird Conservation International 4: 91-107., parental)
733	Dives dives	A	NA	NA	NA	A	NA	2.279 2	95.4	(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
734	Dolichonyx oryzivorus	A	38.5	NA	NA	A	12	1.108 52	34.45	(1444445, anage)(lifehistory)(Beason RC, Trout LL (1984) Cooperative breeding in the bobolink. Wilson Bulletin 96: 709-710., parental)
735	Donacobius atricapilla	A	NA	NA	NA	A	17	1.191 4	37.5	(lifehistory)(Kiltie RA, Fitzpatrick JW (1984) Reproduction and social organization of the black-capped donacobius (Donacobius atricapillus) in southeastern Peru. Auk 101: 804-811. Ragusa-Netto J (1996) Nestling development, size and juvenile survival in

										Donacobius atricapillus (Passeriformes: Troglodytidae). Ararajuba 4: 81-85., parental)
736	Dromaius novaehollandiae	P	0	1335397761	Olowicz	P	0.1	29.91968	36200	(13171142, anage)(lifehistory)(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
737	Dromas ardeola	A	NA	NA	NA	NA	NA	3.9	309.25	(Rands MRW (1996) Family Dromadidae (Crab plover). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 302-307. Lynx edicions: Barcelona., parental)
738	Drymodes brunneopygia	A	NA	NA	NA	A	NA	0.9842	33.95	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
739	Dryocopus lineatus	NA	NA	NA	NA	NA	NA	4.3	198.833333	(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
740	Dryocopus martius	A	NA	NA	NA	NA	27	7.7	321	(450729732820, anage)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
741	Dryocopus pileatus	A	90	NA	NA	A	27	7.0448	303.875	(427444445732, anage)(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
742	Dryoscopus cubla	A	38	NA	NA	A	NA	1.17068	26.25	(lifehistory)(Harris T, Arnott G (1988) The shrikes of southern Africa. Struik Winchester: Cape Town. , parental)
743	Dryotriorchis spectabilis	NA	NA	NA	NA	NA	NA	7	NA	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)

744	Ducula aenea	A	NA	NA	NA	A	NA	3.170 16	587	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
745	Ducula badia	A	NA	NA	NA	NA	NA	NA	NA	NA
746	Ducula bicolor	A	28	NA	NA	A	23	3.159 8	457.5 5	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
747	Ducula goliath	NA	NA	NA	NA	A	NA	3.495 1180 22	779.7 70776 3	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2073)
748	Ducula lacemulata	NA	NA	NA	NA	NA	NA	2.4	NA	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
749	Ducula melanochroa	NA	NA	NA	NA	A	NA	3.936 7958	744.7 13812 3	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2074)
750	Ducula oceanica	NA	NA	NA	NA	NA	NA	1.9	373	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)

751	Ducula pacifica	NA	NA	NA	NA	A	NA	2.485 2348 05	401.0 15467 9	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2075)
752	Dulus dominicus	NA	NA	NA	NA	A	NA	1.315 72	47.67 5	(lifehistory)(Temple HJ (2005) Family Dulidae (Palmchat). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 326-331. Lynx edicions: Barcelona., parental)
753	Dumetella carolinensis	A	22.5	NA	NA	A	11.7	1.181 04	35.35	(427437444445, anage)(lifehistory)(Cimprich DA, Moore FR (1995) Gray catbird. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C. Cody ML (2005) Family Mimidae (Mockingbirds and thrashers). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 448-495. Lynx edicions: Barcelona., parental)
754	Dysithamnus mentalis	A	NA	NA	NA	A	9	0.725 2	15.1	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
755	Eclectus roratus	NA	NA	NA	Massen	A	84	7.624 96	434	(669732979, anage)(lifehistory)(Heinsohn R, Legge S (2003) Breeding biology of the reverse-dichromatic, co-operative parrot Eclectus roratus. Journal of Zoology, London 259: 197-208., parental)
756	Egretta caerulea	A	NA	NA	NA	NA	30	3.7	339.5	(444445576732820, anage)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
757	Egretta garzetta	A	NA	NA	NA	NA	42.5	3.7	495	(450729732820, anage)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
758	Egretta novaehollandiae	A	76	NA	NA	SA	40	4.050 76	540.6	(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
759	Egretta rufescens	A	72	NA	NA	NA	28	3.5	613.7 5	(444445820972, anage)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
760	Egretta thula	A	NA	NA	NA	NA	NA	NA	NA	NA

761	Elaenia frantzii	NA	NA	NA	NA	A	15.5	0.631 96	19.05	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
762	Elaenia martinica	NA	NA	NA	NA	A	NA	0.673 4	21.3	(427820, anage)(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
763	Elanus axillaris	A	65	NA	NA	SA	22.5	3.491 32	265.5	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London., parental)
764	Elsayornis melanops	P	0	NA	NA	P	0.1	0.870 24	31.5	(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
765	Emberiza cirlus	A	33	NA	NA	NA	12.5	0.79	25.25	(729820, anage)(Cramp S, Perrins CM, eds. (1994b) The birds of the western Palearctic Vol. IX. Buntings and New World Warblers.Oxford University Press: Oxford., parental)
766	Emberiza citrinella	A	26	NA	NA	NA	12.55	0.821 5	29.7	(450510729820, anage)(Cramp S, Perrins CM, eds. (1994b) The birds of the western Palearctic Vol. IX. Buntings and New World Warblers.Oxford University Press: Oxford., parental)
767	Emberiza hortulana	A	17.5	NA	NA	A	12.5	0.725 2	21.07 5	(450510820, anage)(lifehistory)(Cramp S, Perrins CM, eds. (1994b) The birds of the western Palearctic Vol. IX. Buntings and New World Warblers.Oxford University Press: Oxford., parental)
768	Emberiza rutila	A	NA	NA	NA	NA	NA	0.59	17.37 5	(Byers C, Olsson U, Curson J (1995) Buntings and sparrows: a guide to the buntings and North American sparrows. Pica Press: Sussex., parental)
769	Emberiza schoeniclus	A	31	NA	NA	NA	11.5	0.685	18.8	(450510729820, anage)(Cramp S, Perrins CM, eds. (1994b) The birds of the western Palearctic Vol. IX. Buntings and New World Warblers.Oxford University Press: Oxford., parental)

770	Emberiza spodocephala	A	NA	NA	NA	A	NA	0.963 48	17.72 5	(lifehistory)(Byers C, Olsson U, Curson J (1995) Buntings and sparrows: a guide to the buntings and North American sparrows. Pica Press: Sussex. , parental)
771	Empidonax minimus	A	32	NA	NA	A	15.15	0.383 32	10.27 5	(444445577, anage)(lifehistory)(Briskie JV (1994) Least flycatcher. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
772	Empidonax virescens	A	28	NA	NA	A	13.85	0.445 48	12.7	(427435444445820, anage)(lifehistory)(Whitehead DR, Taylor T (2002) Acadian woodpecker. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
773	Enicognathus ferrugineus	A	NA	NA	NA	NA	NA	7.05	166.9 5	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
774	Enicurus scouleri	A	NA	NA	NA	A	NA	0.787 36	15.9	(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
775	Entomyzon cyanotis	A	46.5	NA	NA	A	23.5	2.310 28	101.4 25	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
776	Eopsaltria australis	A	68	NA	NA	A	12.6	0.890 96	20.25	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
777	Eopsaltria georgiana	A	55.5	NA	NA	A	NA	0.777	19.15	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne. Russell EM, Brown RJ, M.N. B (2004) Life history of the white-breasted robin, Eopsaltria georgiana (Petroicidae), in south-western Australia. Australian Journal of Zoology 52: 111-145., parental)

778	Eopsaltria griseogularis	NA	NA	NA	NA	A	NA	0.859 88	19.87 5	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
779	Eos bornea	NA	NA	NA	NA	A	56	4.952 08	156	(669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
780	Eos cyanogenia	NA	NA	NA	NA	A	81	5.024 6	167	(669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
781	Eos squamata	NA	NA	NA	NA	A	80	3.967 88	100	(669, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
782	Ephippiorhynchus asiaticus	A	NA	NA	NA	NA	60.88	18.3	4100	(668820, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
783	Ephippiorhynchus senegalensis	A	NA	NA	NA	NA	85	20.7	6162. 5	(668820, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
784	Epinecrophylla fulviventris	NA	NA	NA	NA	A	NA	0.497 28	10.4	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
785	Epthianura albifrons	A	28	NA	NA	NA	NA	NA	NA	NA
786	Epthianura aurifrons	A	31	NA	NA	A	10	0.445 48	10.5	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
787	Epthianura tricolor	A	24	NA	NA	A	9.8	0.455 84	10.7	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)

788	Eremophila alpestris	A	24	NA	NA	A	17.5	0.92204	34.25	(1.05444445510577E+20, anage)(lifehistory)(de Juana E, Suar_z F, Ryan PG, Alstr_m P, Donald PF (2004) Family Alaudidae (Larks). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 496-601. Lynx edicions: Barcelona. Beason RC (1995) Horned lark. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C. Beason RC (1984) Altruism in the horned lark Eremophila alpestris. Journal of Field Ornithology 55: 489-490., parental)
789	Eremophila bilopha	NA	NA	NA	NA	NA	NA	0.85	38.5	(Keith S, Urban EK, Fry CH, eds. (1992) The birds of Africa Vol IV.Academic Press: London. de Juana E, Suar_z F, Ryan PG, Alstr_m P, Donald PF (2004) Family Alaudidae (Larks). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 496-601. Lynx edicions: Barcelona., parental)
790	Erithacus rubecula	A	33	NA	NA	A	13.5	0.66304	17.55	(2,61,436,450,510,729,732, anage)(lifehistory)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes.Oxford University Press: Oxford. Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
791	Erythrogonys cinctus	NA	NA	NA	NA	P	NA	1.088028283	49.99884974	(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona.)(Sayol et al., 2076)
792	Erythropygia coryphaeus	A	41.5	NA	NA	A	12	0.74592	20.4	(lifehistory)(NA, parental)
793	Erythrura gouldiae	A	42	NA	NA	A	21.5	0.54908	14.5	(986, anage)(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
794	Erythrura trichroa	A	42	NA	NA	A	21	0.60088	14.25	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
795	Esacus giganteus	P	51	NA	NA	P	NA	5.88448	1012.5	(lifehistory)(Hume RA (1996) Family Burhinidae (Thick-knees). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 348-363. Lynx edicions: Barcelona., parental)

796	Estrilda astrild	A	29	NA	NA	NA	17	0.35	8.183 33333 3	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London. Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
797	Estrilda caerulescens	A	31.5	NA	NA	A	17	0.424 76	8.9	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
798	Estrilda melpoda	A	32.5	NA	NA	A	20.5	0.393 68	7.675	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
799	Estrilda troglodytes	A	NA	NA	NA	NA	17	0.36	7.575	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
800	Eubucco bourcierii	NA	NA	NA	NA	NA	NA	1.1	36	(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
801	Eudocimus albus	A	60	NA	NA	SP	35	6.588 96	900	(444445649732, anage)(lifehistory)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
802	Eudocimus ruber	A	NA	NA	NA	NA	38.5	8.5	615	(444649, anage)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
803	Eudromia elegans	P	0	217768 000	Kverkova + sol	P	NA	2.579 64	678	(lifehistory)(Davies SJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
804	Eudynamis scolopaceus	A	68	NA	NA	A	19	2.548 56	209.5	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
805	Eudynamis taitensis	NA	NA	NA	NA	A	29	2.072	117	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
806	Eudyptes chrysocome	A	134	NA	NA	SA	70	13.05 36	2470	(lifehistory)(Williams TD (1995) The Penguins: Spheniscidae. Oxford University Press: Oxford. , parental)
807	Eudyptes chrysolophus	A	NA	NA	NA	NA	65	13.46 8	4550	(Williams TD (1995) The Penguins: Spheniscidae. Oxford University Press: Oxford.)
808	Eudyptes schlegeli	A	86	NA	NA	NA	NA	NA	NA	NA

809	Eudiptula minor	A	100	NA	NA	SA	45.5	7.624 96	1157.2 95833	(9861143, anage)(lifehistory)(Williams TD (1995) The Penguins: Spheniscidae. Oxford University Press: Oxford. , parental)
810	Eulampis holosericeus	A	46	NA	NA	A	21	0.248 64	5.8	(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
811	Eulampis jugularis	NA	NA	NA	NA	A	18.5	0.331 52	9.533 33333	(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
812	Euneornis campestris	NA	NA	NA	NA	A	NA	0.725 2	16.2	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
813	Eunymphicus cornutus	NA	NA	NA	NA	A	NA	3.449 88	130	(575820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
814	Eunymphicus uvaensis	NA	NA	NA	NA	A	NA	3.109 2052	93.97 22945	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2077)
815	Euphagus carolinus	A	31.5	NA	NA	A	13.5	1.564 36	60.4	(1444445, anage)(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
816	Euphagus cyanocephalus	A	38	NA	NA	A	13.5	1.491 84	62.65	(444445580732, anage)(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
817	Euphonia jamaica	NA	NA	NA	NA	A	NA	0.673 4	16.8	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
818	Euplectes orix	A	33	NA	NA	A	19	0.787 36	21.1	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings. Christopher Helm: London., parental)
819	Eupodotis afra	P	0	NA	NA	NA	NA	3.9	689	(Collar NJ (1996) Family Otidae (Bustards). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 240-275. Lynx edicions: Barcelona., parental)

820	Eupodotis senegalensis	NA	NA	NA	NA	NA	NA	4.2	775	(Collar NJ (1996) Family Otididae (Bustards). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 240-275. Lynx edicions: Barcelona., parental)
821	Eupodotis vigorsii	P	0	NA	NA	NA	NA	3.4	1500	(Collar NJ (1996) Family Otididae (Bustards). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 240-275. Lynx edicions: Barcelona., parental)
822	Eurostopodus argus	NA	NA	NA	NA	SP	30	1.015 4858 26	72.02 40434 4	(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford.)(Sayol et al., 2078)
823	Eurostopodus macrotis	NA	NA	NA	NA	SP	NA	1.512 56	132.5	(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
824	Eurostopodus mystacalis	P	NA	NA	NA	SP	NA	1.377 88	140.2 5	(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
825	Eurypyga helias	A	86	NA	NA	P	21	2.569 28	222.7 5	(448820, anage)(lifehistory)(Thomas BT (1996) Family Eurypygidae (Sunbittern). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 226-233. Lynx edicions: Barcelona., parental)
826	Eurystomus glaucurus	A	NA	NA	NA	NA	NA	1.8	108.5	(Fry CH (2001) Family Coraciidae (Rollers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 342-377. Lynx edicions: Barcelona., parental)
827	Eurystomus orientalis	A	NA	NA	NA	A	24.5	2.051 28	148.3 83333 3	(lifehistory)(Fry CH (2001) Family Coraciidae (Rollers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 342-377. Lynx edicions: Barcelona., parental)
828	Falco berigora	A	80	NA	NA	SA	38	6.464 64	561.7 5	(820972, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
829	Falco biarmicus	A	101	NA	NA	NA	41	6.3	619	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)

830	Falco cenchroides	A	54	NA	NA	SA	30	3.253 04	172.5	(lifecycle)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
831	Falco columbarius	A	57	NA	NA	SA	30	3.201 24	187.5 75	(444445450729732000, anage)(lifecycle)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona. Cosnette BL (1991) Apparent bigamy in merlins and co-operation of two females with large young. North-East Scotland Bird Report 1991: 74-75. James PC, Oliphant LW (1986) Extra birds and helpers at the nests of Richardson's merlin. Condor 88: 533-534., parental)
832	Falco eleonora	A	51.5	NA	NA	SA	37.5	4.185 44	379.5	(450820, anage)(lifecycle)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
833	Falco longipennis	A	78	NA	NA	SA	36.5	3.470 6	246	(lifecycle)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
834	Falco mexicanus	A	73	NA	NA	SA	38.5	7.106 96	754.5	(427437444445, anage)(lifecycle)(Steenhof K (1998) Prairie falcon. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
835	Falco moluccensis	NA	NA	NA	NA	SA	NA	3.615 64	212	(lifecycle)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J,

										Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
836	Falco naumanni	A	42.5	NA	NA	SA	27	2.807 56	152.5	(450729820, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona. Cordero PJ, Aparico JM, Parkin DT (2002) Genetic evidence of alloparental care of a female lesser kestrel in an alien nest. Journal of Raptor Research 36: 70-73., parental)
837	Falco peregrinus	A	110	105987 4481	Sol	SA	39	6.412 84	827.2 5	(437440444445732, anage)(lifehistory)(NA, parental)
838	Falco ruficularis	A	NA	NA	NA	SA	37.5	3.294 48	167.2 5	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
839	Falco rupicoloides	A	58	NA	NA	NA	33.5	3.9	261	(1820, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 294-436. Academic Press: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
840	Falco rusticolus	A	92	NA	NA	NA	47.75	8	1415. 75	(427445, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)

841	Falco sparverius	A	44	469942 416.7	Sol	SA	30	2.579 64	115.5	(61218437444445700, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Kimball RT, Parker PG, Bednarz JC (2003) Occurrence and evolution of cooperative breeding among the diurnal raptors (Accipitridae and Falconidae). Auk 120: 717-729. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
842	Falco subbuteo	A	71	NA NA	NA	SA	31	3.719 24	210	(510553729732820, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Kimball RT, Parker PG, Bednarz JC (2003) Occurrence and evolution of cooperative breeding among the diurnal raptors (Accipitridae and Falconidae). Auk 120: 717-729. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Zuberogoitia I, Martinez JA, Azkona A, Iraeta A, Castillo I, Alonso R, Hidalgo S (2003) Two cases of cooperative breeding in Eurasian hobbies. Journal of Raptor Research 37: 342-344., parental)
843	Falco subniger	A	63	NA NA	NA	SA	42.5	6.734	692.7 75	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
844	Falco tinnunculus	A	66	624582 229.2	Kverkova + sol	SA	29.5	4.009 32	204.7 5	(450729732820, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona. Harper D (1991) Two male kestrels at same nest. British Birds 84: 221-222. Packham C (1985) Bigamy by the kestrel. British Birds 78: 194., parental)

845	Falco vespertinus	A	42	NA	NA	SA	23.5	2.797 2	156.7 5	(450820972, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
846	Falcunculus frontatus	A	106	NA	NA	A	16	1.284 64	28.1	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
847	Ficedula albicollis	A	26.5	NA	NA	A	15.9	0.466 2	12.55	(4.50719720721722E+31, anage)(lifehistory)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
848	Ficedula hypoleuca	A	26.5	NA	NA	NA	15.5	0.45	12.77 5	(5107297328201140, anage)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
849	Florisuga mellivora	A	NA	NA	NA	A	NA	0.269 36	7.1	(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
850	Formicarius analis	A	NA	NA	NA	A	18	1.346 8	61.92 5	(lifehistory)(Krabbe NK, Schulenberg TS (2003) Family Formicariidae (Ground-antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 682-731. Lynx edicions: Barcelona., parental)
851	Formicarius colma	NA	NA	NA	NA	A	NA	1.118 88	47.25	(lifehistory)(Krabbe NK, Schulenberg TS (2003) Family Formicariidae (Ground-antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 682-731. Lynx edicions: Barcelona., parental)
852	Formicivora grisea	NA	NA	NA	NA	A	NA	0.466 2	10.4	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
853	Forpus coelestis	NA	NA	NA	NA	A	30	1.388 24	27.05	(669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M

										(1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
854	Forpus passerinus	A	NA	227204428	Olowicz	A	35	1.1396	24	(669732, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
855	Foudia madagascariensis	NA	NA	NA	NA	A	17.5	0.777	16.175	(lifehistory)(Langrand O (1990) Guide to the birds of Madagascar. Yale University Press: New Haven. , parental)
856	Francolinus leucoscepus	P	0	NA	NA	P	0.1	3.3152	701	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
857	Francolinus levaillantii	P	0	NA	NA	NA	NA	2.5	433.5	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
858	Francolinus levaillantis	NA	NA	NA	NA	NA	NA	2.7	NA	(anage)(lifeh)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London.)
859	Francolinus pondicerianus	P	0	NA	NA	NA	NA	1.7	274	(445, anage)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
860	Francolinus sephaena	P	0	NA	NA	P	0.1	2.331	354.75	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
861	Francolinus swainsonii	P	0	NA	NA	NA	NA	3.8	621	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
862	Fratercula arctica	P	48.5	NA	NA	SP	47.7	4.1958	437.9166667	(4444454507297320000, anage)(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
863	Fratercula cirrhata	P	48	NA	NA	NA	50	5.9	775	(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
864	Fratercula corniculata	P	42	NA	NA	SP	36.5	5.37684	581	(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
865	Fregata aquila	NA	NA	NA	NA	NA	154	9.45	1435	(Orta J (1992) Family Fregatidae (Frigatebirds). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 362-375. Lynx edicions: Barcelona., parental)
866	Fregata magnificens	A	440	NA	NA	NA	178	9.2	1462	(444445732, anage)(Orta J (1992) Family Fregatidae (Frigatebirds). in Handbook of the

											birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 362-375. Lynx edicions: Barcelona., parental)
867	Fregata minor	A	429	NA	NA	A	175	9.562 28	1400		(427445732, anage)(lifehistory)(Orta J (1992) Family Fregatidae (Frigatebirds). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 362-375. Lynx edicions: Barcelona., parental)
868	Fregetta grallaria	A	NA	NA	NA	SP	68	0.932 4	49.5		(lifehistory)(Carboneras C (1992) Family Hydrobatidae (Storm-petrels). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 258-271. Lynx edicions: Barcelona., parental)
869	Fringilla coelebs	A	34.9	NA	NA	A	13.5	0.839 16	22.62 5		(1,61,510,729, anage)(lifehistory)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
870	Fringilla montifringilla	A	34.5	NA	NA	NA	14	0.791 7	22.92 5		(510729820, anage)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford. Lohmus M, Silverin B (1999) Male aggressiveness and the possible occurrence of group territoriality in the brambling Fringilla montifringilla. Ornis Svecica 9: 75-82., parental)
871	Fulica americana	P	71	NA	NA	P	54.25	3.035 48	620.5		(444445577732, anage)(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
872	Fulica atra	P	38.5	NA	NA	P	57.5	2.952 6	775		(4.44450510729732E+20, anage)(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. Carr G (1993) Juvenile common coot incubating eggs. British Birds 86: 626-627. Wood NA (1974) The breeding behaviour and biology of the moorhen. British Birds 67: 137-158., parental)
873	Fulmarus glacialis	A	53	NA	NA	SP	52	6.557 88	785		(2,23,444,445,732,1143, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
874	Fulmarus glacialisoides	A	52	NA	NA	SP	52	7.728 56	795		(8209191150, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)

875	Furnarius rufus	A	NA	NA	NA	A	25	1.377 88	45	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
876	Galbula albirostris	NA	NA	NA	NA	A	NA	0.631 96	22	(lifehistory)(Tobias JA, Z_chner T, de Melo-J_nior TA (2002) Family Galbulidae (Jacamars). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 74-101. Lynx edicions: Barcelona., parental)
877	Galbula galbula	NA	NA	NA	NA	NA	NA	0.6	23	(Tobias JA, Z_chner T, de Melo-J_nior TA (2002) Family Galbulidae (Jacamars). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 74-101. Lynx edicions: Barcelona., parental)
878	Galerida cristata	A	NA	NA	NA	A	9	1.212 12	43.15	(450729820, anage)(lifehistory)(de Juana E, Suar_z F, Ryan PG, Alstr_m P, Donald PF (2004) Family Alaudidae (Larks). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 496-601. Lynx edicions: Barcelona. Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes.Oxford University Press: Oxford., parental)
879	Gallicolumba beccarii	NA	NA	NA	NA	A	NA	1.088 0282 83	90.01 71313	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2079)
880	Gallicolumba luzonica	NA	NA	236599 718	Sol	A	24.5	1.419 32	196	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
881	Gallinulex cinerea	P	NA	NA	NA	P	NA	2.652 16	352.3 33333 3	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
882	Gallinago gallinago	P	0	NA	NA	P	18.75	1.460 76	113	(444445450729, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)

883	Gallinago hardwickii	P	0	NA	NA	P	NA	2.061 64	155.5 66666 7	(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
884	Gallinago media	P	0	NA	NA	NA	24.5	2.1	174.5	(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
885	Gallinago nobilis	P	0	NA	NA	P	NA	2.278 1578 23	175.9 14837 5	(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona.)(Sayol et al., 2080)
886	Gallinago stenura	P	0	NA	NA	NA	NA	NA	NA	NA
887	Gallinago undulata	P	0	NA	NA	P	NA	2.990 2803 45	284.8 60617 7	(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona.)(Sayol et al., 2081)
888	Gallinula chloropus	P	51	NA	NA	P	45	2.486 4	377	(444445450729, anage)(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. Ritter MW (1994) Notes on the nesting and growth of Mariana common moorhens on Guam. Micronesica 27: 127-132., parental)
889	Gallinula melanops	NA	NA	NA	NA	P	NA	1.574 72	191	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
890	Gallinula mortierii	P	51	NA	NA	NA	NA	4.2	1313. 25	(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
891	Gallinula tenebrosa	P	31.5	NA	NA	P	3.5	2.807 56	531.5	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
892	Gallinula ventralis	NA	NA	NA	NA	P	NA	2.869 72	387	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
893	Gallirallus australis	P	82.5	NA	NA	P	2.5	5.293 96	893.5	(575820, anage)(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)

894	Gallirallus owstoni	P	NA	NA	NA	P	NA	2.227 4	230.2 5	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
895	Gallirallus philippensis	P	22	NA	NA	P	NA	2.040 92	208.7 5	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
896	Galloperdix spadicea	P	0	NA	NA	NA	NA	2	369	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
897	Gallus gallus	P	0	220839 857	Olowicz	NA	NA	3.013	912.5	(1,80,135,136,137,138,139,435,607,732,820,870 , anage)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
898	Gallus sonneratii	P	0	NA	NA	NA	NA	3.322 5	855.5	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
899	Garrulax leucolophus	NA	NA	NA	NA	NA	NA	2.55	123.5	(Young RA (1978) Co-operative breeding in the white-crested laughing thrush Garrulax leucolophus with notes on its hand rearing at Busch Bird Park, Houston. International Zoo Yearbook 18: 106-109., parental)
900	Garrulus glandarius	A	53.5	108542 2713	Olowicz	NA	22	4.168 9	160.8 5	(425729820, anage)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
901	Garrulus lidthi	NA	NA	NA	NA	NA	NA	4.3	NA	(Collar NJ, Andreev AV, Chan S, Crosby MJ, Surbramanya S, Tobias JA (2001) Threatened birds of Asia: The Bird Life International Red Data Book Part B. Bird Life International: Cambridge. Ishida K, Takashi M, Ueta M (1998) A breeding record of Lidth's jay in a nest box at a natural forest of Kinsakubaru on Amami Island. Strix 16: 148-151., parental)
902	Gavia arctica	P	51	NA	NA	NA	61.25	7.5	2665	(1444445729, anage)(Carboneras C (1992) Family Gaviidae (Divers). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 162-173. Lynx edicions: Barcelona., parental)
903	Gavia immer	P	91	NA	NA	P	75.25	10.46 36	4400	(427440444445, anage)(lifehistory)(Carboneras C (1992) Family Gaviidae (Divers). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 162-173. Lynx edicions: Barcelona., parental)
904	Gavia stellata	P	48	NA	NA	P	43	5.739 44	1603	(444445553729, anage)(lifehistory)(Carboneras C (1992) Family Gaviidae (Divers). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 162-173. Lynx edicions: Barcelona., parental)

905	Geococcyx californianus	A	59	NA	NA	A	19.5	3.615 64	376	(435444445732820, anage)(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
906	Geoffroyus geoffroyi	NA	NA	NA	NA	A	NA	4.413 36	152.4 5	(lifehistory)(NA, parental)
907	Geopelia cuneata	A	21	878793 26.8	Kverkova + sol	A	11.5	0.808 08	31.55	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
908	Geopelia humeralis	A	NA	NA	NA	A	18.5	1.305 36	128.6 5	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
909	Geopelia placida	A	22.5	NA	NA	A	16	0.818 44	48.9	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
910	Geopelia striata	A	37	NA	NA	A	NA	0.814 1319 25	46.94 60936 6	(575820)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2082)
911	Geophaps plumifera	NA	NA	NA	NA	A	NA	1.222 48	90.5	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
912	Geophaps smithii	A	NA	NA	NA	A	10	1.440 04	194	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook

											of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
913	Geositta cunicularia	NA	NA	NA	NA	A	NA	1.004 92	28.2		(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
914	Geothlypis trichas	A	31	NA	NA	A	8.65	0.538 72	9.666 66666 7		(425427444445732000, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
915	Geotrygon chrysis	NA	NA	NA	NA	A	NA	1.398 4537 25	118.03 72202		(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2083)
916	Geotrygon costaricensis	NA	NA	NA	NA	A	NA	1.968 6876 31	215.0 77838		(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2084)
917	Geotrygon montana	A	NA	NA	NA	A	10	1.181 04	135		(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
918	Geranospiza caerulescens	A	NA	NA	NA	NA	NA	NA	NA	NA	NA
919	Geronticus calvus	A	NA	NA	NA	NA	55	9	1630		(649, anage)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
920	Geronticus eremita	A	NA	NA	NA	NA	45	8.2	1202		(649732820, anage)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)

921	Gerygone flavolateralis	NA	NA	NA	NA	A	NA	0.352 24	6.15	(lifehistory)(Hannecart F, Letocart Y (1980) Donnees sur la reproduction de Gerygone flavolateralis. Oiseau et la Revue Francaise d'Ornithologie 50: 65-68., parental)
922	Gerygone fusca	A	NA	NA	NA	NA	NA	NA	NA	NA
923	Gerygone hypoxantha	NA	NA	NA	NA	A	NA	0.430 1450 27	6.501 28597 7	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2085)
924	Gerygone magnirostris	A	NA	NA	NA	NA	NA	NA	NA	NA
925	Glareola nuchalis	P	25	NA	NA	P	0.1	0.880 6	62.7	(lifehistory)(Maclean GL (1996) Family Glareolidae (Coursers and pratincoles). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 364-383. Lynx edicions: Barcelona., parental)
926	Glaucidium brasilianum	A	60	NA	NA	SA	28.5	2.600 36	69.5	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
927	Glaucidium gnoma	A	44	NA	NA	SA	28	3.729 8467 38	46.99 30632 3	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex.)(Sayol et al., 2086)
928	Glaucidium minutissimum	NA	NA	NA	NA	NA	NA	2.8	50	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
929	Glaucidium passerinum	A	58.5	533263 164.6	Kverkova + sol	SA	30.5	2.683 24	65.5	(450729820821, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
930	Glaucis hirsutus	A	47	NA	NA	A	22	0.259	6.85	(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
931	Glossopsitta concinna	A	62	NA	NA	A	48	2.973 32	70.8	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
932	Glossopsitta porphyrocephala	A	44	NA	NA	A	42	1.958 04	44.5	(669979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)

933	Glossopsitta pusilla	A	55	NA	NA	A	42	1.647 24	40.22 5	(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird. Oxford University Press: Melbourne., parental)
934	Glyphorhynchus spirurus	NA	NA	NA	NA	A	NA	0.642 32	14.55	(lifehistory)(Marantz CA, Aleixo A, Bevier LR, Patten MA (2003) Family Dendrocolaptidae (Woodcreepers). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 358-447. Lynx edicions: Barcelona., parental)
935	Gnorimopsar chopi	NA	NA	NA	NA	A	NA	1.864 8	66.45	(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
936	Goura cristata	A	56	NA	NA	NA	33	5.5	2000	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
937	Goura victoria	NA	NA	578697 288	Kverkova + sol	A	28	5.625 48	2192	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
938	Gracula religiosa	A	34	906127 446	Olowicz	A	26.5	3.812 48	193.5	(lifehistory)(Feare C, Craig A (1998) Starlings and mynas. Christopher Helm: London. , parental)
939	Grallaria quitensis	NA	NA	NA	NA	A	NA	2.123 8	65.8	(lifehistory)(Krabbe NK, Schulenberg TS (2003) Family Formicariidae (Ground-antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 682-731. Lynx edicions: Barcelona., parental)
940	Grallina bruijni	NA	NA	NA	NA	A	NA	1.036	33.51 52312 6	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2087)
941	Grallina cyanoleuca	A	42	NA	NA	A	20	1.740 48	79.9	(lifehistory)(Hall ML, Magrath RD (2000) Duetting and mate-guarding in Australian magpie-larks (Grallina cyanoleuca). Behavioral Ecology and Sociobiology 47: 180-187., parental)

942	Grantiella picta	A	NA	NA	NA	A	NA	0.724 9643 08	22.98 86358 4	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2088)
943	Grus antigone	P	111	NA	NA	P	120	20.78 216	7150	(986, anage)(lifehistory)(Archibald GW, Meine CD (1996) Family Gruidae (Cranes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-89. Lynx edicions: Barcelona., parental)
944	Grus canadensis	P	71	NA	NA	P	70.5	15.35 352	4170	(61427437444445700, anage)(lifehistory)(Archibald GW, Meine CD (1996) Family Gruidae (Cranes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-89. Lynx edicions: Barcelona., parental)
945	Grus grus	P	NA	NA	NA	NA	67.75	17.6	5500	(444729732820, anage)(Archibald GW, Meine CD (1996) Family Gruidae (Cranes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-89. Lynx edicions: Barcelona., parental)
946	Grus japonensis	P	NA	NA	NA	NA	95	20.7	8500	(438575732, anage)(Archibald GW, Meine CD (1996) Family Gruidae (Cranes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-89. Lynx edicions: Barcelona., parental)
947	Grus leucogeranus	P	NA	NA	NA	NA	76	20.5	5724. 75	(575732820, anage)(Archibald GW, Meine CD (1996) Family Gruidae (Cranes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-89. Lynx edicions: Barcelona., parental)
948	Grus paradisea	P	169	NA	NA	NA	110	13.3	4341. 75	(Archibald GW, Meine CD (1996) Family Gruidae (Cranes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-89. Lynx edicions: Barcelona., parental)
949	Grus rubicunda	P	91	NA	NA	P	98	18.32 684	6250. 5	(575820, anage)(lifehistory)(Archibald GW, Meine CD (1996) Family Gruidae (Cranes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-89. Lynx edicions: Barcelona., parental)
950	Grus virgo	P	NA	NA	NA	P	60	10.59 828	2400	(448732, anage)(lifehistory)(Archibald GW, Meine CD (1996) Family Gruidae (Cranes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-89. Lynx edicions: Barcelona., parental)

951	Guaruba guarouba	NA	NA	NA	NA	A	49	7.749 28	249.6 2	(669979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Oren DC, Novaes FC (1986) Observations on the golden parakeet Aratinga guarouba in northern Brazil. Biological Conservation 36: 329-337., parental)
952	Gubernatrix cristata	NA	NA	NA	NA	NA	NA	1.216 5	48	(Collar NJ, Gonzaga LP, Krabbe N, Madro_o NA, Naranjo LG, Parker TA, Wege DC (1992) Threatened birds of the Americas. The ICBP/IUCN Red Data Book. 3rd ed, part 2. Smithsonian Institution Press: Wahington DC. , parental)
953	Guira guira	NA	NA	NA	NA	A	15	1.989 12	138.5	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
954	Guttera pucherani	P	0	NA	NA	P	0.1	5.076 4	1149	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
955	Gygis alba	P	98	NA	NA	SP	47.5	1.999 48	115.5	(425445732977, anage)(lifehistory)(Niethammer KR, Patrick LB (1998) White tern. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
956	Gymnocichla nudiceps	NA	NA	NA	NA	A	NA	1.098 16	30.75	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
957	Gymnoderus foetidus	NA	NA	NA	NA	A	NA	3.657 08	277	(lifehistory)(Hilty SL (2003) Birds of Venezuela. Princeton University Press: Princeton. Snow DW (2004) Family Cotingidae (Cotingas). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 32-109. Lynx edicions: Barcelona., parental)
958	Gymnogyps californianus	A	345	NA	NA	NA	NA	NA	NA	NA
959	Gymnophaps albertisii	NA	NA	NA	NA	A	NA	2.175 6	259	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)

960	Gymnophis leucaspis	NA	NA	NA	NA	A	NA	0.787 36	28.43 33333 3	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
961	Gymnorhina tibicen	A	88	NA	NA	A	28	4.817 4	290.5	(lifehistory)(Finn PG, Hughes JM (2001) Helping behaviour in Australian magpies, Gymnorhina tibicen. Emu 101: 57-63., parental)
962	Gymnorhinus cyanocephalus	A	50.5	NA	NA	A	21	3.636 36	105	(427444445732818, anage)(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
963	Gypaetus barbatus	A	418	NA	NA	NA	107.5	24.1	5606. 04166 7	(1, anage)(NA, parental)
964	Gypohierax angolensis	A	NA	NA	NA	SA	90	10.49 468	1600	(575820, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
965	Gyps africanus	A	305	NA	NA	SA	125	18.90 7	5442. 5	(575732820, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
966	Gyps bengalensis	NA	NA	NA	NA	NA	91.32	19	4871	(575820, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
967	Gyps coprotheres	A	NA	NA	NA	NA	115	19	7862	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)

968	Gyps fulvus	A	240	NA	NA	NA	113.75	26	7436	(1729820, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
969	Gyps himalayensis	A	NA	NA	NA	NA	138	28	10000	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
970	Habia fuscicauda	NA	NA	NA	NA	A	9	1.388 24	38.47 5	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
971	Habroptila wallacii	NA	NA	NA	NA	P	NA	5.376 84	1000	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
972	Haematopus ater	P	NA	NA	NA	P	NA	5.335 4175 29	825.5 08863 1	(Hockey PAR (1996) Family Haematopodidae (Oystercatchers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 308-325. Lynx edicions: Barcelona.)(Sayol et al., 2089)
973	Haematopus bachmani	P	41	NA	NA	P	30	4.682 72	555	(444445, anage)(lifehistory)(Hockey PAR (1996) Family Haematopodidae (Oystercatchers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 308-325. Lynx edicions: Barcelona., parental)
974	Haematopus leucopodus	NA	NA	NA	NA	P	NA	4.713 2002 87	659.1 82215 9	(Hockey PAR (1996) Family Haematopodidae (Oystercatchers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 308-325. Lynx edicions: Barcelona.)(Sayol et al., 2090)
975	Haematopus longirostris	P	51	NA	NA	NA	30	4.4	566.2 5	(Hockey PAR (1996) Family Haematopodidae (Oystercatchers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 308-325. Lynx edicions: Barcelona., parental)
976	Haematopus ostralegus	P	35	NA	NA	NA	30	3.9	526	(435444450729732, anage)(Heg D, van Treuren R (1998) Female-female cooperation in polygynous oystercatchers. Nature 391: 687-691. Hockey PAR (1996) Family Haematopodidae (Oystercatchers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J,

										Elliott A, Saragatal J) p. 308-325. Lynx edicions: Barcelona., parental)
977	Haematopus palliatus	P	41	NA	NA	P	30	4.682 72	560	(1444445, anage)(lifehistory)(NA, parental)
978	Halcyon leucocephala	A	108.5	NA	NA	A	25	1.118 88	43	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
979	Halcyon senegalensis	A	54.5	NA	NA	A	23	1.502 2	64.5	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
980	Halcyon smyrnensis	A	NA	NA	NA	A	19	1.906 24	91.4	(450820, anage)(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
981	Haliaeetus albicilla	A	121	165419 0379	Kverkova + sol	NA	73.75	19	4793	(14447321146, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Kimball RT, Parker PG, Bednarz JC (2003) Occurrence and evolution of cooperative breeding among the diurnal raptors (Accipitridae and Falconidae). Auk 120: 717-729. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
982	Haliaeetus leucocephalus	A	120	NA	NA	SA	74.25	18.68 944	4740	(6.14374384404444E+23, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Hopkins DA, Mersereau GS, Nordell AC (1999) A third adult again assists at a Connecticut bald eagle nest. Connecticut Warbler 19: 26-27. Garcelon DK, Slater GL, Danilson CD, Helm RC (1995) Cooperative nesting by a trio of bald eagles. Journal of Raptor Research 29: 210-213., parental)
983	Haliaeetus leucogaster	A	140	NA	NA	SA	67.5	13.08 468	2751. 5	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London., parental)

984	Haliaeetus vocifer	A	130	NA	NA	SA	70	12.62 884	2806. 5	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. , parental)
985	Haliastur indus	A	102.5	NA	NA	SA	52.5	6.319 6	529	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. , parental)
986	Haliastur sphenurus	A	100	NA	NA	SA	43	6.847 96	755	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. , parental)
987	Halobaena caerulea	A	53	NA	NA	SP	58	2.869 72	190	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
988	Halocyptena microsoma	A	NA	NA	NA	SP	NA	0.528 36	20.5	(lifehistory)(Carboneras C (1992) Family Hydrobatidae (Storm-petrels). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 258-271. Lynx edicions: Barcelona., parental)
989	Hamirostra melanosternon	A	130	NA	NA	NA	NA	NA	NA	NA
990	Harpactes ardens	NA	NA	NA	NA	A	NA	1.833 72	97.3	(lifehistory)(Collar NJ (2001) Family Trogonidae (Trogons). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona., parental)
991	Harpactes erythrocephalus	A	NA	NA	NA	A	NA	1.891 4942 85	74.51 49666 6	(Collar NJ (2001) Family Trogonidae (Trogons). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona.)(Sayol et al., 2091)
992	Harpagus bidentatus	NA	NA	NA	NA	SA	NA	3.967 88	198.5	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. , parental)
993	Harpia harpyja	A	330	NA	NA	NA	NA	NA	NA	NA
994	Harpohaliaetus coronatus	NA	NA	NA	NA	NA	NA	4.6	2950	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)

995	Heliornis fulica	A	NA	NA	NA	NA	NA	1.4	132	(Bertram BCR (1996) Family Heliornithidae (Finfoots). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 210-217. Lynx edicions: Barcelona., parental)
996	Heliodytes barroetii	NA	NA	NA	NA	NA	NA	0.24	5.55	(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
997	Helmitheros vermivorum	A	31	NA	NA	A	10.5	0.611 24	13.2	(427444445818, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
998	Hemiphaga novaeseelandiae	A	52	NA	NA	A	41	3.076 92	652.5	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
999	Hemiprocne mystacea	A	NA	NA	NA	A	NA	1.139 6	69	(lifehistory)(Wells DR (1999) Family Hemiprocnidae (Tree-swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 458-467. Lynx Editions: Barcelona., parental)
1000	Hemithraupis guiraca	NA	NA	NA	NA	A	NA	0.590 52	12	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
1001	Hemitriccus margaritaceiventer	NA	NA	NA	NA	A	NA	0.466 2	8.725	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1002	Henicophaps albifrons	NA	NA	NA	NA	A	NA	2.175 7363 17	260.0 82789 1	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2092)

1003	Henicorhina leucosticta	A	NA	NA	NA	A	NA	0.80808	14.8	(lifecycle)(Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsmas DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona., parental)
1004	Herpetotheres cachinnans	A	NA	NA	NA	SA	NA	6.7858	638.25	(lifecycle)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
1005	Heteromyias albispecularis	A	58.5	NA	NA	A	NA	1.088028283	38.51315996	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne.)(Sayol et al., 2093)
1006	Heterophasia melanoleuca	NA	NA	NA	NA	A	NA	1.20176	33.025	(lifecycle)(Robson C (2000) A field guide to the birds of south-east Asia. New Holland: London. , parental)
1007	Heteroscelus brevipes	P	0	NA	NA	P	NA	1.38824	112.8333333	(lifecycle)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1008	Heteroscelus incanus	P	0	NA	NA	P	0.1	1.33644	111.25	(lifecycle)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1009	Hieraaetus morphnoides	A	120	NA	NA	SA	60.88	8.09116	791	(1820, anage)(lifecycle)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
1010	Hieraaetus pennatus	A	82	NA	NA	NA	52	5.5	842	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J,

										Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
101 1	Himantopus mexicanus	P	0	NA	NA	P	29	1.968 4	169	(444445820, anage)(lifehistory)(Pierce RJ (1996) Family Recurvirostridae (Stilts and Avocets). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 332-347. Lynx edicions: Barcelona., parental)
101 2	Himatione sanguinea	A	27	NA	NA	A	16	0.694 12	14.4	(435445580, anage)(lifehistory)(Pratt HD (2005) The Hawaiian honeycreepers: Drepanidinae. Oxford University Press: Oxford. Fancy SG, Ralph CJ (1997) Apapane. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-16. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
101 3	Hippolais icterina	A	26.5	NA	NA	A	14.5	0.486 92	13.2	(450510729820, anage)(lifehistory)(Cheke AS (1987c) Observations on the surviving endemic birds of Rodriguez. in Studies on Mascarene Birds. (ed. Diamond AW) p. 364-400. Cambridge University Press: Cambridge., parental)
101 4	Hirundapus caudacutus	A	NA	NA	NA	A	41	1.336 44	113.1	(lifehistory)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
101 5	Hirundo ariel	A	NA	NA	NA	A	22.1	0.372 96	11.025	(lifehistory)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona., parental)
101 6	Hirundo neoxena	A	42	NA	NA	A	21.5	0.497 28	15	(lifehistory)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona., parental)
101 7	Hirundo nigricans	A	NA	NA	NA	A	NA	0.538 72	15.4	(lifehistory)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona., parental)
101 8	Hirundo rustica	A	25.8	NA	NA	A	20.75	0.569 8	19	(8.84444455107237E+29, anage)(lifehistory)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J,

											Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona., parental)
1019	Hirundo senegalensis	A	NA	NA	NA	NA	NA	0.53	44.05		(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona., parental)
1020	Histrionicus histrionicus	P	0	NA	NA	P	40	5.03496	561.25		(427445, anage)(lifehistory)(Robertson GJ, Goudie RI (2000) Harlequin duck. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1021	Hydrophasia nus chirurgus	P	0	NA	NA	P	0.1	1.4504	178.5		(lifehistory)(Jenni DA (1996) Family Jacanidae (Jacanas). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 276-291. Lynx edicions: Barcelona., parental)
1022	Hydropsalis torquata	NA	NA	NA	NA	NA	NA	1.6	57.75		(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
1023	Hylacola cauta	A	NA	NA	NA	NA	NA	NA	NA	NA	NA
1024	Hylacola pyrrhopygia	A	33	NA	NA	A	NA	1.067550897	19.90557812		(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne.)(Sayol et al., 2094)
1025	Hylocichla mustelina	A	28.5	NA	NA	A	12.25	1.295	48.65		(614274444457321000, anage)(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
1026	Hylophylax naevius	NA	NA	NA	NA	A	11	0.61124	14.2		(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
1027	Hymenops perspicillatus	NA	NA	NA	NA	A	NA	0.78736	22.925		(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)

1028	Hypargos niveoguttatus	NA	NA	NA	NA	NA	21	0.5495	14.65	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings. Christopher Helm: London., parental)
1029	Hypocnemis cantator	A	NA	NA	NA	A	NA	0.65268	12.3	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
1030	Hypothymis azurea	A	60	NA	NA	A	NA	0.53872	11.15	(lifehistory)(Kennedy RS, Gonzales PC, Dickinson EC, Miranda HC, Fisher TH (2000) A guide to the birds of the Phillipines. Oxford University Press: Oxford. , parental)
1031	Ichthyophaga humilis	A	NA	NA	NA	NA	NA	NA	NA	NA
1032	Icteria virens	A	NA	NA	NA	A	8.75	0.94276	25.3	(444445578, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
1033	Icterus galbula	A	26.5	NA	NA	A	13	1.17068	33.9	(43544445820, anage)(lifehistory)(Birks SM, Edwards SV (2002) A phylogeny of the megapodes (Aves: Megapodiidae) based on nuclear and mitochondrial DNA sequences. Molecular Phylogenetics and Evolution 23: 408-421. G_th A, Vogel U (2004) Is monogamy in the Polynesian megapode (Megapodius pritchardii) related to its high relative egg-weight. Auk 121: 308-317. Kimwele CN, Graves JA (2003) A molecular genetic analysis of the communal nesting of the ostrich (Struthio camelus). Molecular Ecology 12: 229-236., parental)
1034	Icterus spurius	A	35	NA	NA	A	12.5	0.89096	20.05	(427444445, anage)(lifehistory)(Scharf WC, Kren J (1996) Orchard oriole. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1035	Ictinia mississippiensis	A	54	NA	NA	SA	34	3.82284	281	(427444445732, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Parker JW, Ports M (1982) Helping at the nest by yearling Mississippi kites. Raptor Research 16: 14-17., parental)
1036	Ifrita kowaldi	NA	NA	NA	NA	A	NA	1.2948141	27.99	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2095)

1037	Illadopsis fulvescens	A	NA	NA	NA	A	NA	1.23284	27.2	(lifehistory)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI. Academic Press: London., parental)
1038	Irediparra gallinacea	P	0	NA	NA	P	0.1	1.17068	108	(lifehistory)(Jenni DA (1996) Family Jacanidae (Jacanas). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 276-291. Lynx edicions: Barcelona., parental)
1039	Irena puella	A	NA	NA	NA	A	NA	1.40896	64.025	(lifehistory)(Wells DR (2005) Family Irenidae (Fairy-bluebirds). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 268-277. Lynx edicions: Barcelona., parental)
1040	Iridosornis rufivertex	NA	NA	NA	NA	A	NA	1.37788	23	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
1041	Ithaginis cruentus	P	0	NA	NA	P	0.1	3.29448	525	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1042	Ixobrychus exilis	A	30	NA	NA	SA	14	1.32608	86.3	(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
1043	Ixobrychus flavicollis	A	NA	NA	NA	NA	NA	NA	NA	NA
1044	Ixobrychus minutus	A	44	NA	NA	NA	27.5	1.6	105.5	(450729820, anage)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
1045	Ixobrychus sturmii	A	NA	NA	NA	NA	NA	3.7	142	(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
1046	Ixos philippinus	NA	NA	NA	NA	A	NA	1.16032	38	(lifehistory)(Fishpool LDC, Tobias JA (2005) Family Pycnonotidae (Bulbuls). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 124-250. Lynx edicions: Barcelona., parental)
1047	Jabiru mycteria	NA	NA	NA	NA	SA	100	24.346	5470	(668, anage)(lifehistory)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
1048	Jacamerops aureus	NA	NA	NA	NA	A	NA	1.14996	62.2	(lifehistory)(Tobias JA, Z_chner T, de Melo-J_nior TA (2002) Family Galbulidae (Jacamars). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 74-101. Lynx edicions: Barcelona., parental)
1049	Jacana spinosa	P	0	NA	NA	P	35	1.42968	116.15	(lifehistory)(Jenni DA (1996) Family Jacanidae (Jacanas). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 276-291. Lynx edicions: Barcelona., parental)

1050	Junco hyemalis	A	27	NA	NA	A	11.25	0.85988	19.475	(435444445818911, anage)(lifehistory)(Nolan V, Jr., Ketterson ED, Cristol DA, Rogers CM, Clotfelter ED, Titus RC, Schoech SJ, Snajor E (2002) Dark-eyed junco. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-44. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1051	Jynx torquilla	A	33	NA	NA	A	20.5	0.97384	35.8666667	(729732820, anage)(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1052	Kaupifalco monogrammicus	A	90	NA	NA	SA	40	4.17508	278	(1820, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 294-436. Academic Press: London., parental)
1053	Lagonosticta senegala	A	28.5	NA	NA	A	18	0.40404	8.725	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings. Christopher Helm: London., parental)
1054	Lagopus lagopus	P	0	NA	NA	P	12	2.46568	595	(444445450510729000, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1055	Lagopus muta	P	0	NA	NA	P	0.1	2.59	521	(450820, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1056	Lalage sueurii	A	22.5	NA	NA	A	NA	0.90132	18.9	(lifehistory)(Taylor PB (2005) Family Campephagidae (Cuckoo-shrikes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 40-122. Lynx edicions: Barcelona., parental)
1057	Lalage tricolor	A	22.5	NA	NA	NA	NA	NA	NA	NA
1058	Lampornis amethystinus	NA	NA	NA	NA	NA	NA	0.2	5.2	(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed.

										del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
1059	Lamprotornis purpureus	A	32	NA	NA	A	NA	2.19632	101	((lifehistory)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Feare C, Craig A (1998) Starlings and mynas. Christopher Helm: London., parental)
1060	Lamprotornis superbus	NA	NA	NA	NA	NA	NA	1.782	64.9	(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Feare C, Craig A (1998) Starlings and mynas. Christopher Helm: London., parental)
1061	Laniarius erythrogaster	A	NA	NA	NA	A	NA	1.61616	47.5	((lifehistory)(Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London., parental)
1062	Lanius collaris	A	62.5	NA	NA	NA	20	1.11	35.5625	(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. Lefranc N, Worfolk T (1997) Shrikes: a guide to shrikes of the world. Pica Press: Sussex., parental)
1063	Lanius collurio	A	37	NA	NA	A	13.5	0.99456	28.75	(450510729732820, anage)((lifehistory)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
1064	Lanius cristatus	A	29.5	NA	NA	A	NA	1.0878	31.975	((lifehistory)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. Lefranc N, Worfolk T (1997) Shrikes: a guide to shrikes of the world. Pica Press: Sussex., parental)
1065	Lanius excubitor	A	51	NA	NA	NA	20	1.48	63.98333334	(444445510729820, anage)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. Lefranc N, Worfolk T (1997) Shrikes: a guide to shrikes of the world. Pica Press: Sussex., parental)

1066	Lanius ludovicianus	A	43.5	NA	NA	A	18.8	1.58508	47.225	(440444445578732, anage)(lifehistory)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. Lefranc N, Worfolk T (1997) Shrikes: a guide to shrikes of the world. Pica Press: Sussex. , parental)
1067	Lanius senator	A	45	NA	NA	A	19.5	1.10852	36	(450729820, anage)(lifehistory)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. Lefranc N, Worfolk T (1997) Shrikes: a guide to shrikes of the world. Pica Press: Sussex. , parental)
1068	Larus argentatus	P	51	NA	NA	SP	40	6.93084	1085	(2,61,435,436,444,445,732,820,1143, anage)(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
1069	Larus atricilla	P	85	NA	NA	NA	35	3.2	308	(61427444445, anage)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
1070	Larus californicus	P	63	NA	NA	SP	45	5.250730154	692.9792109	(4274444457321140)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona.)(Sayol et al., 2096)
1071	Larus canus	P	31	NA	NA	NA	33	3.9588	415.75	(4.44445450510729E+24, anage)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
1072	Larus crassirostris	P	NA	NA	NA	NA	NA	NA	NA	NA
1073	Larus delawarensis	P	51	NA	NA	SP	1	4.59984	518.5	(14254444458201100, anage)(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
1074	Larus dominicanus	P	75	NA	NA	SP	50	6.84796	989	(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)

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107 5	Larus fuscus	P	NA	NA	NA	NA	40	5.7	1010. 25		(450729732820, anage)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
107 6	Larus glaucescens	P	45	NA	NA	SP	42	7.894 32	1010		(14444457321143, anage)(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
107 7	Larus glaucooides	P	43	NA	NA	NA	NA	7.5	863		(445, anage)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
107 8	Larus hartlaubii	NA	NA	NA	NA	SP	NA	3.181 5456 87	271.5 10279 4		(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona.)(Sayol et al., 2097)
107 9	Larus heermanni	P	46	NA	NA	NA	NA	NA	NA	NA	NA
108 0	Larus hemprichii	NA	NA	NA	NA	NA	NA	2.9	482.2 5		(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
108 1	Larus hyperboreus	P	61	NA	NA	NA	43.75	8	1605. 5		(444445972, anage)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
108 2	Larus leucophthalmus	P	NA	NA	NA	NA	NA	3.2	330		(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
108 3	Larus maculipennis	NA	NA	NA	NA	SP	NA	3.419 0650 75	304.9 04923		(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona.)(Sayol et al., 2098)
108 4	Larus marinus	P	85	NA	NA	NA	52.5	7.9	1658. 5		(444445450729732000, anage)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3.

											Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)	
1085	Larus minutus	P	25	NA	NA	NA	22.5	1.9	118.5		(445450732, anage)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)	
1086	Larus novaehollandiae	P	49	NA	NA	SP	42	3.232	32	312	(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona. parental)	
1087	Larus occidentalis	P	73.5	NA	NA	NA	NA	NA	NA	NA		
1088	Larus pacificus	P	NA	NA	NA	NA	NA	NA	NA	NA		
1089	Larus philadelphia	P	NA	NA	NA	NA	NA	2.5	191		(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)	
1090	Larus pipixcan	P	45	NA	NA	SP	39	2.615	2694	302.4	75414	(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona.)(Sayol et al., 2099)
1091	Larus ridibundus	P	NA	NA	NA	SP	35	3.159	8	271.6	66666	(4447297328561140, anage)(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
1092	Larus thayeri	P	43	NA	NA	SP	40	6.529	7401	995.2	56009	(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona.)(Sayol et al., 2100)
1093	Laterallus albigularis	NA	NA	NA	NA	P	NA	1.077	44	44.5		(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
1094	Laterallus leucopyrrhus	NA	NA	NA	NA	NA	NA	0.915		45.5		(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
1095	Lathamus discolor	A	91	NA	NA	A	42	2.455	32	64.67	5	(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)

1096	Legatus leucophaeus	A	NA	NA	NA	A	19	0.68376	22.5	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1097	Leiothrix argentauris	NA	NA	NA	NA	NA	NA	0.968	28.4	(Ali S, Ripley SD (1972) Handbook of the birds of India and Pakistan. Vol. 7. Laughing thrushes to the mangrove whistler. Oxford University Press: Bombay. , parental)
1098	Leiothrix lutea	A	NA	NA	NA	A	11	0.95312	21.5	(445575, anage)(lifehistory)(Male TD, Fancy SG, Ralph CJ (1998) Red-billed leiothrix. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-12. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1099	Leipoa ocellata	P	0	NA	NA	SUP	0.01	4.662	1867.5	(lifehistory)(Jones DN, Dekker RWRJ, Roselaar CS (1995) The Megapodes: Megapodiidae. Oxford University Press: Oxford. , parental)
1100	Lepidocolaptes affinis	A	49	NA	NA	A	19	1.17068	35	(lifehistory)(Marantz CA, Aleixo A, Bevier LR, Patten MA (2003) Family Dendrocolaptidae (Woodcreepers). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 358-447. Lynx edicions: Barcelona., parental)
1101	Lepidocolaptes souleyetii	A	48.5	NA	NA	A	19	1.07744	25.7	(lifehistory)(Marantz CA, Aleixo A, Bevier LR, Patten MA (2003) Family Dendrocolaptidae (Woodcreepers). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 358-447. Lynx edicions: Barcelona., parental)
1102	Leptoptilos crumeniferus	A	70	NA	NA	SA	105	28.14812	6400	(438668732, anage)(lifehistory)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
1103	Leptoptilos dubius	NA	NA	NA	NA	NA	NA	26	5500	(668, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)
1104	Leptoptilos javanicus	NA	NA	NA	NA	NA	NA	21.5	5180.5	(668, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London. , parental)

110	Leptotila 5 cassini	NA	NA	NA	NA	A	NA	1.346 3094 98	193.0 59802 8	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2101)
110	Leptotila 6 jamaicensis	NA	NA	NA	NA	A	NA	1.406 8696 7	165.1 74088 6	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2102)
110	Leptotila 7 plumbeiceps	NA	NA	NA	NA	A	NA	1.310 4454 84	145.0 38612 5	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2103)
110	Leptotila 8 rufaxilla	NA	NA	NA	NA	A	12.5	1.320 9710 95	140.4 70850 9	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2104)
110	Leptotila 9 verreauxi	A	42	NA	NA	A	16	1.471 12	147.5	(444445510579820, anage)(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
111	Lessonia 0 rufa	NA	NA	NA	NA	NA	NA	0.44	13.45	(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)

111	Leucophaeus scoresbii	NA	NA	NA	NA	SP	NA	4.80704	525	(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
111	Leucopternis albigollis	A	NA	NA	NA	SA	NA	8.443248634	609.7201004	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona.)(Sayol et al., 2105)
111	Leucopternis schistaceus	NA	NA	NA	NA	NA	NA	7	1000	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
111	Leucosarcia melanoleuca	A	NA	NA	NA	A	18.5	2.49676	429.075	(435575820, anage)(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
111	Leucosticte arctoa	A	NA	NA	NA	A	19	1.35716	29.825	(lifehistory)(Clement P, Harris A, Davis J (1993) Finches and sparrows. Christopher Helm: London. , parental)
111	Lewinia pectoralis	P	NA	NA	NA	P	NA	1.38824	83.8333333	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
111	Lichenostomus chrysops	A	31.5	NA	NA	A	13.5	0.74592	16.525	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne. Tyson D (1993) Co-operative feeding of young in two species of honeyeater. Wingspan 9: 29., parental)
111	Lichenostomus cratitius	NA	NA	NA	NA	A	NA	0.95312	20.4	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)

1119	Lichenostomus flavescens	NA	NA	NA	NA	A	14	0.53872	12.7	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1120	Lichenostomus flavus	A	38	NA	NA	A	13.2	0.73556	22	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1121	Lichenostomus frenatus	NA	NA	NA	NA	A	NA	1.0772022	29.99407913	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2106)
1122	Lichenostomus fuscus	A	45.7	NA	NA	NA	NA	NA	NA	NA
1123	Lichenostomus hindwoodi	NA	NA	NA	NA	A	NA	0.925304084	24.65550002	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2107)
1124	Lichenostomus keartlandi	NA	NA	NA	NA	A	NA	0.71484	15.25	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1125	Lichenostomus leucotis	A	NA	NA	NA	A	NA	0.92204	23.525	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1126	Lichenostomus melanops	A	54.5	NA	NA	A	15	0.95312	31.85	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne. Tyson D (1993) Co-operative feeding of young in two species of honeyeater. Wingspan 9: 29., parental)
1127	Lichenostomus ornatus	A	23	NA	NA	A	13	0.7775	17.275	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1128	Lichenostomus penicillatus	A	26.88	NA	NA	A	12.9	0.85988	19.175	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)

1129	Lichenostomus unicolor	NA	NA	NA	NA	A	NA	0.843 9746 2	29.99 40791 3	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2108)
1130	Lichenostomus virescens	NA	NA	NA	NA	A	13.4	0.953 12	24	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne. Christy MT (1995) Co-operative care in the singing honeyeater Lichenostomus virescens. Corella 19: 115-117., parental)
1131	Lichmera indistincta	A	NA	NA	NA	A	13.9	0.528 36	10.8	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1132	Limicola falcinellus	P	0	NA	NA	P	NA	0.745 92	37.1	(450820, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1133	Limnodromus griseus	P	0	NA	NA	P	0.1	1.429 68	110.37 5	(444445577, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1134	Limnodromus scolopaceus	P	0	NA	NA	P	0.1	1.419 32	108.1 25	(427444445, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1135	Limnothlypis swainsonii	A	29	NA	NA	A	11.5	0.694 12	17.35	(427444445, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
1136	Limosa fedoa	P	0	NA	NA	P	0.1	2.828 28	370.2 5	(427444445818, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)

113	Limosa 7 haemastica	P	0	NA	NA	P	30	2.394 9614 72	245.4 27110 3	(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona.)(Sayol et al., 2109)
113	Limosa 8 lapponica	P	0	NA	NA	P	28	2.869 72	311.5	(444445553729, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona. Hussell DJT (2004) Incubation period and behavior at a bar-tailed godwit nest. Wilson Bulletin 116: 177-178., parental)
113	Limosa 9 limosa	P	0	NA	NA	NA	27.5	2.9	306.5	(444450729732, anage)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
114	Lipaugus 0 vociferans	NA	NA	NA	NA	A	NA	1.688 68	75.1	(lifehistory)(Snow DW (2004) Family Cotingidae (Cotingas). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 32-109. Lynx edicions: Barcelona., parental)
114	Locustella 1 luscinioides	A	28	NA	NA	A	13	0.569 8	14.75	(450729820, anage)(lifehistory)(Cramp S, ed. (1992) The birds of the western Palearctic Vol. VI. Warblers.Oxford University Press: Oxford., parental)
114	Locustella 2 naevia	A	26	NA	NA	NA	10.55	0.5	13.3	(450729820, anage)(Cramp S, ed. (1992) The birds of the western Palearctic Vol. VI. Warblers.Oxford University Press: Oxford., parental)
114	Lonchura 3 atricapilla	NA	NA	NA	NA	NA	NA	0.56	12.7	NANA
114	Lonchura 4 bicolor	NA	NA	NA	NA	NA	NA	0.44	9.5	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
114	Lonchura 5 cucullata	A	48	NA	NA	A	22.5	0.393 68	9.1	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
114	Lonchura 6 flaviprymna	A	42.5	NA	NA	NA	NA	0.43	11.65	(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
114	Lonchura 7 grandis	NA	NA	NA	NA	NA	NA	0.665	13.75	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and

										Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland. , parental)
1148	Lonchura malacca	A	35	NA	NA	A	21	0.6216	12.6	(lifehistory)(Goodwin D (1982) Estrildid finches of the world. Oxford University Press: Oxford. , parental)
1149	Lonchura molucca	NA	NA	NA	NA	NA	NA	0.4	12	(Goodwin D (1982) Estrildid finches of the world. Oxford University Press: Oxford. , parental)
1150	Lonchura pallida	NA	NA	NA	NA	NA	NA	0.506	NA	(Goodwin D (1982) Estrildid finches of the world. Oxford University Press: Oxford. , parental)
1151	Lonchura spectabilis	A	NA	NA	NA	NA	21	0.485	9.65	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland. , parental)
1152	Lonchura striata	A	NA	NA	NA	NA	21	0.77	12.3	(2425732820, anage)(Goodwin D (1982) Estrildid finches of the world. Oxford University Press: Oxford. , parental)
1153	Lophaetus occipitalis	A	76.5	NA	NA	SA	55	9.4794	1179.125	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 294-436. Academic Press: London., parental)
1154	Lophodytes cucullatus	P	0	NA	NA	P	0.1	4.77596	617	(61427438444445900, anage)(lifehistory)(Dugger BD, Dugger KM, Fredrickson LH (1994) Hooded merganser. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1155	Lophoictinia isura	A	110	NA	NA	NA	NA	NA	NA	NA
1156	Lopholaimus antarcticus	A	NA	NA	NA	A	24	2.80756	497	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)

1157	Lophonetta specularioides	P	0	517733292	Sol	P	NA	5.01424	949	(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
1158	Lophophorus impejanus	P	0	NA	NA	P	0.1	6.4232	2077.75	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1159	Lophorina superba	A	NA	NA	NA	A	20	2.6936	666667	(lifehistory)(Frith CB, Beehler BM (1998) The Birds of Paradise: Paradisaeidae. Oxford University Press: Oxford. , parental)
1160	Lophura diardi	NA	NA	NA	NA	P	NA	4.040494736	874.8041214	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London.)(Sayol et al., 2110)
1161	Lophura edwardsi	NA	NA	NA	NA	NA	NA	3.4	1082.5	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1162	Lophura nycthemera	P	0	NA	NA	P	0.1	4.91064	1250	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1163	Lophura swinhoii	P	0	NA	NA	P	0.1	4.403	1100	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1164	Loriculus amabilis	NA	NA	NA	NA	A	NA	1.18104	20	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1165	Loriculus galgulus	NA	NA	NA	NA	A	35	1.54364	28	(669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1166	Loriculus philippensis	NA	NA	NA	NA	A	35	1.53328	34.9	(669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1167	Loriculus stigmatus	NA	NA	NA	NA	NA	NA	1.5	30	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a

										guide to the parrots of the world. Pica Press: Sussex. , parental)
1168	Loriculus vernalis	NA	NA	NA	NA	NA	NA	1.4	35.7	(669820, anage)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1169	Lorius garrulus	NA	NA	NA	NA	A	76	5.356 12	143	(669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1170	Lorius lory	NA	NA	NA	NA	A	60	5.304 32	177	(669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1171	Loxia curvirostra	A	67	NA	NA	A	19.5	1.471 12	39.5	(425427444445729, anage)(lifehistory)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
1172	Loxia leucoptera	A	58	NA	NA	A	21	1.429 68	29.8	(1425444445820, anage)(lifehistory)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
1173	Loxia pytyopsittacus	A	NA	NA	NA	NA	NA	1.82	53.25	(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
1174	Loxigilla violacea	NA	NA	NA	NA	A	NA	1.201 76	21.62 5	(lifehistory)(Raffaele H, Wiley J, Garrido O, Keith A, Raffaele J (1998) Birds of the West Indies. Christopher Helm: London. , parental)
1175	Loxipasser anoxanthus	NA	NA	NA	NA	A	NA	0.590 52	11.45	(lifehistory)(Raffaele H, Wiley J, Garrido O, Keith A, Raffaele J (1998) Birds of the West Indies. Christopher Helm: London. , parental)
1176	Lugensa brevirostris	A	61	NA	NA	SP	60	4.413 36	238.1 5	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)

1177	Luscinia luscinia	A	NA	NA	NA	NA	NA	0.67	25	(729820, anage)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
1178	Luscinia megarhynchos	A	25	NA	NA	A	11	0.7252	19.9333333	(450729820, anage)(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
1179	Lybius torquatus	NA	NA	NA	NA	A	34	1.20176	53.2	(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
1180	Lycocorax pyrrhopterus	NA	NA	NA	NA	A	NA	4.96244	285.5	(lifehistory)(Frith CB, Beehler BM (1998) The Birds of Paradise: Paradisaeidae. Oxford University Press: Oxford. , parental)
1181	Lymnocyptes minimus	P	0	NA	NA	NA	NA	1	52	(450729820, anage)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1182	Machetornis rixosa	NA	NA	NA	NA	A	NA	0.99456	30.3	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1183	Macrodipteryx vexillarius	P	NA	NA	NA	SP	NA	0.90132	73.575	(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
1184	Macronectes giganteus	A	120	NA	NA	SP	119	18.58584	4447.5	(427820, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
1185	Macronous gularis	NA	NA	NA	NA	A	NA	0.6734	11.5	(lifehistory)(Kennedy RS, Gonzales PC, Dickinson EC, Miranda HC, Fisher TH (2000) A guide to the birds of the Phillipines. Oxford University Press: Oxford. Hails C (1987) Birds of Singapore. Times Editions: Singapore. Duckworth JW (1997) Mobbing of a drongo

										cuckoo <i>Surniculus lugubris</i> . Ibis 139: 190-192., parental)
1186	<i>Macropsalis forcipata</i>	NA	NA	NA	NA	NA	NA	1.1	NA	(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
1187	<i>Macropygia amboinensis</i>	A	NA	NA	NA	A	16	1.54364	236.75	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1188	<i>Macropygia phasianella</i>	NA	NA	NA	NA	A	NA	1.462821557	145.1837236	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2111)
1189	<i>Malaconotus cruentus</i>	A	NA	NA	NA	A	NA	2.36208	75.125	(lifehistory)(Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. , parental)
1190	<i>Malacoptila panamensis</i>	A	NA	NA	NA	A	20	1.1914	42.6	(lifehistory)(Rasmussen PC, Collar NJ (2002) Family Bucconidae (Puffbirds). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 102-139. Lynx edicions: Barcelona., parental)
1191	<i>Malacorhynchus membranaceus</i>	P	0	NA	NA	P	0.1	2.9526	360.75	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne., parental)
1192	<i>Malurus alboscapulatus</i>	NA	NA	NA	NA	A	30	0.486930997	7.996468446	(Rowley I, Russell E (1997) Fairy-wrens and Grasswrens: Maluridae. Oxford University Press: Oxford.)(Sayol et al., 2112)
1193	<i>Malurus coronatus</i>	A	40.5	NA	NA	A	10	0.492316805	8.997979031	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2113)
1194	<i>Malurus cyaneus</i>	A	42	NA	NA	A	12.7	0.48692	10.5	(820958, anage)(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)

119	Malurus elegans	A	41.5	NA	NA	A	12	0.59052	9.75	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
119	Malurus lamberti	A	41	NA	NA	A	10.8	0.47656	8.15	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
119	Malurus leucopterus	A	40.5	NA	NA	A	10.5	0.40404	7.4	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
119	Malurus melanocephalus	A	41.5	NA	NA	A	11.5	0.4662	7.9	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
119	Malurus pulcherrimus	A	41	NA	NA	A	11	0.43512	9.2	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
120	Malurus splendens	A	41.5	NA	NA	A	11.2	0.4662	9.3125	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
120	Manacus candei	A	NA	NA	NA	A	14	0.59052	17.75	(lifehistory)(Snow DW (2004) Family Pipridae (Manakins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
120	Manacus manacus	A	24.5	NA	NA	A	14	0.61124	17.225	(lifehistory)(Snow DW (2004) Family Pipridae (Manakins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
120	Manacus vitellinus	A	NA	NA	NA	A	14	0.64232	17.5	(lifehistory)(Snow DW (2004) Family Pipridae (Manakins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
120	Manorina flavigula	A	NA	NA	NA	A	16	1.41932	52.6	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5:

											Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1205	Manorina melanocephala	A	106	NA	NA	A	16	1.92696	60.575		(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1206	Manorina melanophrys	A	71.7	NA	NA	A	13	1.18104	29.725		(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1207	Margarops fuscatus	NA	NA	NA	NA	A	21	2.4346	100.483333		(427820, anage)(lifehistory)(Cody ML (2005) Family Mimidae (Mockingbirds and thrashers). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 448-495. Lynx edicions: Barcelona., parental)
1208	Margarops fuscus	NA	NA	NA	NA	NA	NA	1.59544	69.825		(Cody ML (2005) Family Mimidae (Mockingbirds and thrashers). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 448-495. Lynx edicions: Barcelona., parental)
1209	Mecocerculus leucophrys	NA	NA	NA	NA	A	NA	0.49728	11		(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1210	Megaceryle alcyon	A	49	NA	NA	A	28	2.54856	152.166666		(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona. Hams MJ (1994) Belted kingfisher. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-16. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1211	Megaceryle torquata	A	NA	NA	NA	A	35.25	3.69852	317		(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)

121	Megalaima 2 asiatica	NA	NA	NA	NA	NA	NA	1.64	90.5	(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
121	Megalaima 3 lineata	A	NA	NA	NA	A	NA	2.082 36	147.7 5	(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
121	Megalaima 4 virens	A	84	NA	NA	NA	NA	2.2	202	(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
121	Megalaima 5 zeylanica	NA	NA	NA	NA	A	NA	1.968 4	121.5	(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
121	Megalurus 6 gramineus	A	NA	NA	NA	A	NA	0.590 5902 28	12.19 46825 5	(Blakers M, Davies SJJF, Reilly PN (1984) The atlas of Australian birds. Melbourne University Press: Melbourne.)(Sayol et al., 2114)
121	Megalurus 7 palustris	A	NA	NA	NA	A	NA	1.181 04	42	(lifehistory)(Ali S, Ripley SD (1973) Handbook of the birds of India and Pakistan. Vol. 8. Warblers to redstarts. Oxford University Press: Bombay. , parental)
121	Megapodius 8 eremita	P	0	NA	NA	SUP	0.01	3.325 56	711	(lifehistory)(Jones DN, Dekker RWRJ, Roselaar CS (1995) The Megapodes: Megapodiidae. Oxford University Press: Oxford. , parental)
121	Megapodius 9 freycinet	P	0	NA	NA	SUP	0.01	3.916 08	648.5	(lifehistory)(Jones DN, Dekker RWRJ, Roselaar CS (1995) The Megapodes: Megapodiidae. Oxford University Press: Oxford. , parental)
122	Megarynchus 0 pitangua	NA	NA	NA	NA	A	24	1.212 12	63.5	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
122	Megascops 1 asio	A	96	NA	NA	SA	28	5.086 76	175	(435437444445732, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. Smith DG, Hiestand E (1990) Alloparenting at an eastern screech-owl nest. Condor 92: 246-247., parental)
122	Megascops 2 choliba	A	NA	NA	NA	SA	NA	3.532 76	138.5	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)

1223	Megascops nudipes	NA	NA	NA	NA	SA	NA	3.84356	136	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1224	Melanerpes aurifrons	A	NA	NA	NA	NA	30	2.2	81.9083333	(444445579, anage)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1225	Melanerpes carolinus	A	97	NA	NA	A	25	2.23776	71.775	(444445, anage)(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1226	Melanerpes erythrocephalus	A	52	NA	NA	A	26	1.84408	71.6	(444445, anage)(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1227	Melanerpes formicivorus	A	61	NA	NA	A	31	2.06164	79.05	(427435444445820, anage)(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1228	Melanerpes lewis	A	38	NA	NA	A	31.25	2.29992	113	(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona. Tobalske BW (1997) Lewis' woodpecker. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1229	Melanerpes striatus	NA	NA	NA	NA	A	NA	2.11344	76.75	(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1230	Melanerpes superciliosus	NA	NA	NA	NA	NA	NA	2.6	84.2	(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)

123	Melanitta 1 fusca	P	0	NA	NA	P	60	7.1	1732	(444445450729, anage)(lifehistory)(Brown PW, Fredrickson LH (1997) White-winged scoter. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
123	Melanitta 2 nigra	P	0	NA	NA	P	45.75	6.060 6	1052. 2	(445450, anage)(lifehistory)(Bordage D, Savard J-PL (1995) Black scoter. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
123	Melanitta 3 perspicillata	P	0	NA	NA	P	0.1	5.905 2	1047	(427820977, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. Savard J-PL, Bordage D, Reed A (1998) Surf scoter. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
123	Melanocharis 4 nigra	NA	NA	NA	NA	A	NA	0.559 5441 44	11.496 00979	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2115)
123	Melanocharis 5 striativentris	NA	NA	NA	NA	A	NA	0.704 2422 65	18.30 18106 9	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2116)
123	Melanocoryp 6 ha calandra	A	NA	NA	NA	NA	NA	1.36	60.65	(Keith S, Urban EK, Fry CH, eds. (1992) The birds of Africa Vol IV.Academic Press: London. de Juana E, Suar_z F, Ryan PG, Alstr_m P, Donald PF (2004) Family Alaudidae (Larks). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 496-601. Lynx edicions: Barcelona., parental)
123	Melanodryas 7 cucullata	A	40.4	NA	NA	A	13	0.828 8	21.57 5	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
123	Melanodryas 8 vittata	A	45	NA	NA	A	NA	1.036	26.6	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to

										Figbird.Oxford University Press: Melbourne., parental)
123	Melanoperdi 9 x niger	P	0	NA	NA	P	0.1	1.978 76	280	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
124	Melanoptila 0 glabrirostris	NA	NA	NA	NA	A	NA	1.243 2	35.12 5	(lifehistory)(Cody ML (2005) Family Mimidae (Mockingbirds and thrashers). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 448-495. Lynx edicions: Barcelona., parental)
124	Meleagris 1 gallopavo	P	0	492873 297.4	Kverkova + sol	P	14	8.505 56	5811	(1288437444445730000, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
124	Meleagris 2 ocellata	NA	NA	NA	NA	P	NA	6.050 24	5525	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
124	Melierax 3 canorus	A	131	NA	NA	SA	53	7.127 68	636	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Malan G, Jenkins AR (1996) Territory and nest defence in polyandrous pale chanting goshawks: do co-breeders help? South African Journal of Zoology 31: 170-176., parental)
124	Melilestes 4 megarhynch us	A	NA	NA	NA	A	NA	1.398 4537 25	47.22 86169 4	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2117)
124	Meliphaga 5 graciliis	NA	NA	NA	NA	A	10.5	0.676 6285 3	14.99 9247	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2118)
124	Meliphaga 6 lewinii	A	36	NA	NA	A	15	1.212 12	34.4	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
124	Meliphaga 7 notata	NA	NA	NA	NA	A	14.7	0.901 32	26.32 5	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)

1248	Melithreptus albogularis	A	21	NA	NA	A	14	0.65268	10.9	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1249	Melithreptus brevirostris	A	NA	NA	NA	A	13	0.70448	12.825	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne. Noske RA (1983) Communal behaviour of brown-headed honeyeaters. Emu 83: 38-41., parental)
1250	Melithreptus lunatus	NA	NA	NA	NA	A	14.9	0.6216	13.85	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1251	Mellisuga minima	NA	NA	NA	NA	NA	NA	0.13	2.2	(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
1252	Melopsittacus undulatus	A	48	321821838	Olowicz	A	35.25	1.554	29.05	(62403405425444600000, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
1253	Melopyrrha nigra	NA	NA	NA	NA	A	NA	0.87024	14.25	(lifehistory)(Raffaele H, Wiley J, Garrido O, Keith A, Raffaele J (1998) Birds of the West Indies. Christopher Helm: London. , parental)
1254	Melospiza georgiana	A	25	NA	NA	A	12.5	0.83916	16.575	(427435444445820, anage)(lifehistory)(Mowbray TB (1997) Swamp sparrow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1255	Melospiza melodia	A	27	NA	NA	NA	10	0.88	23.35	(3.84354444455808E+23, anage)(Arcese P, Sogge MK, Marr AB, Patten MA (2002) Song sparrow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-40. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1256	Menura novaehollandiae	A	182	NA	NA	A	47	11.10592	979.95	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5:

										Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1257	Mergellus albellus	P	0	438961 107.2	Sol	NA	NA	4.4	630	(450820, anage)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
1258	Mergus merganser	P	0	NA	NA	P	65	5.034 96	1462. 5	(444445450729, anage)(lifehistory)(Mallory M, Metz K (1999) Common merganser. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1259	Mergus serrator	P	0	NA	NA	P	60.75	5.003 88	1042. 58333 3	(444445450729732, anage)(lifehistory)(Titman RD (1999) Red-breasted merganser. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1260	Merops albicollis	NA	NA	NA	NA	NA	NA	0.53	25.9	(Fry CH (2001) Family Meropidae (Bee-eaters). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 286-341. Lynx edicions: Barcelona., parental)
1261	Merops apiaster	NA	NA	NA	NA	A	30.5	0.911 68	56.6	(450729820, anage)(lifehistory)(Fry CH (2001) Family Meropidae (Bee-eaters). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 286-341. Lynx edicions: Barcelona., parental)
1262	Merops nubicus	NA	NA	NA	NA	NA	30	0.9	43	(Fry CH (1988) Meropidae, bee-eaters. in The Birds of Africa. Vol III. (ed. Fry CH, Keith S, Urban EK) p. 302-337. Academic Press: London., parental)
1263	Merops orientalis	NA	NA	NA	NA	A	NA	0.497 28	16.37 5	(lifehistory)(Burt DB (2002) Social and breeding biology of bee-eaters in Thailand. Wilson Bulletin 114: 275-279. Sridhar S, Praveen Karanth K (1993) Helpers in cooperatively breeding small green bee-eater (Merops orientalis). Current Science 65: 489-490., parental)
1264	Merops ornatus	A	42	NA	NA	A	30	0.642 32	29.5	(lifehistory)(Boland CRJ (2004) Breeding biology of rainbow bee-eaters (Merops ornatus): a migratory, colonial, cooperative bird. Auk 121: 811-823., parental)
1265	Merops pusillus	NA	NA	NA	NA	A	23.5	0.424 76	15.1	(lifehistory)(Douthwaite RJ (1986) Effects of drift sprays of endosulfan, applied for testse-fly control, on breeding little bee-eaters in Somalia. Environmental Pollution (ser A) 41: 11-22. Fry CH (1988) Meropidae, bee-eaters. in The Birds of Africa. Vol III. (ed. Fry CH, Keith S, Urban EK) p. 302-337. Academic Press: London., parental)

1266	Mesembrinibiscayennensis	A	NA	NA	NA	SP	25	6.56824	756	(lifehistory)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
1267	Mesophoyx intermedia	A	58.5	NA	NA	SA	33	4.2994	470.5	(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
1268	Micrathene whitneyi	A	30	NA	NA	SA	30.5	1.44971523	33.21494748	(425444445820)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex.)(Sayol et al., 2119)
1269	Microeca fascians	A	30.5	NA	NA	A	18.2	0.55944	14.75833334	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1270	Microeca flavigaster	NA	NA	NA	NA	A	NA	0.52836	12	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1271	Microeca papuana	NA	NA	NA	NA	A	NA	0.598318023	12.25580865	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2120)
1272	Microhierax erythrogenys	A	NA	NA	NA	SA	NA	1.4504	43.5	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
1273	Microhierax fringillarius	NA	NA	NA	NA	NA	NA	1.2	42.9	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
1274	Micropsitta pusio	NA	NA	NA	NA	A	NA	1.015485826	14.49784474	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2121)

127 5	Miliaria calandra	A	25	NA	NA	NA	12.5	1.2	48.8	(450729820, anage)(Cramp S, Perrins CM, eds. (1994b) The birds of the western Palearctic Vol. IX. Buntings and New World Warblers. Oxford University Press: Oxford., parental)
127 6	Milvago chimango	NA	NA	NA	NA	SA	NA	4.755 24	296	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)
127 7	Milvus migrans	A	90	825989 943.5	Sol	SA	42.75	6.029 52	828.5	(617297321143, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
127 8	Milvus milvus	A	85	639482 758.9	Sol	NA	58	8	1090	(1729820, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Kimball RT, Parker PG, Bednarz JC (2003) Occurrence and evolution of cooperative breeding among the diurnal raptors (Accipitridae and Falconidae). Auk 120: 717-729. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
127 9	Mimus polyglottos	A	32	NA	NA	A	12.5	1.429 68	48.5	(1444445732, anage)(lifehistory)(Cody ML (2005) Family Mimidae (Mockingbirds and thrashers). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 448-495. Lynx edicions: Barcelona. Derrickson KC, Breitwisch R (1992) Northern mockingbird. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-26. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
128 0	Minla ignotincta	NA	NA	NA	NA	A	NA	0.735 56	14.3	(lifehistory)(Ali S, Ripley SD (1972) Handbook of the birds of India and Pakistan. Vol. 7. Laughing thrushes to the mangrove whistler. Oxford University Press: Bombay. , parental)

128	Mionectes 1 oleagineus	A	NA	NA	NA	A	19	0.466 2	11.233 33333	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Westcott D, Smith JNM (1997) Lek size variation and its consequences in the ochre-bellied flycatcher, Mionectes oleagineus. Behavioral Ecology 8: 396-403. Westcott DA, Smith JNM (1994) Behavior and social organization during the breeding season in Mionectes oleagineus, a lekking flycatcher. Condor 96: 672-683., parental)
128	Mirafra 2 javanica	A	NA	NA	NA	A	NA	0.756 28	23.07 5	(lifehistory)(de Juana E, Suar_z F, Ryan PG, Alstr_m P, Donald PF (2004) Family Alaudidae (Larks). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 496-601. Lynx edicions: Barcelona., parental)
128	Mitrephanes 3 phaeocercus	NA	NA	NA	NA	A	NA	0.331 52	8.6	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
128	Mitrospingus 4 cassinii	NA	NA	NA	NA	A	NA	1.357 16	40.7	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
128	Mniotilta 5 varia	A	NA	NA	NA	A	10.5	0.455 84	10.9	(425427444445818000, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
128	Molothrus 6 ater	A	42.5	NA	NA	A	10	1.191 4	42.55	(425437444445577000, anage)(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
128	Molothrus 7 oryzivorus	NA	NA	NA	NA	A	NA	3.253 04	156	(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
128	Momotus 8 momota	A	NA	NA	NA	A	30.5	2.268 84	120	(986, anage)(lifehistory)(Snow DW (2001) Family Motmotidae (Motmots). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 264-285. Lynx edicions: Barcelona., parental)

1289	Monachella muelleriana	NA	NA	NA	NA	A	NA	0.77675301	21.99906605	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2122)
1290	Monarcha guttula	NA	NA	NA	NA	A	NA	0.70448	16.275	(lifehistory)(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland. , parental)
1291	Monarcha leucotis	A	NA	NA	NA	NA	NA	NA	NA	NA
1292	Monarcha melanopsis	A	NA	NA	NA	A	NA	0.95312	23	(lifehistory)(Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde. , parental)
1293	Monarcha trivirgatus	A	56.5	NA	NA	A	NA	0.65268	13.1	(lifehistory)(Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde. , parental)
1294	Monasa nigrifrons	NA	NA	NA	NA	A	NA	1.57472	80.7	(lifehistory)(Rasmussen PC, Collar NJ (2002) Family Bucconidae (Puffbirds). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 102-139. Lynx edicions: Barcelona., parental)
1295	Monias benschi	P	NA	NA	NA	NA	NA	NA	NA	NA
1296	Monticola saxatilis	A	35	NA	NA	A	15	1.33644	50	(lifehistory)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes.Oxford University Press: Oxford. Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
1297	Montifringilla nivalis	A	NA	NA	NA	NA	NA	1.09	36	(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
1298	Morus bassanus	A	90	NA	NA	NA	90	19.2	2999.5	(444445450729732, anage)(Carboneras C (1992) Family Sulidae (Gannets and Boobies). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 312-325. Lynx edicions: Barcelona., parental)
1299	Morus serrator	A	102	NA	NA	A	100	5.00388	2350	(1820, anage)(lifehistory)(Carboneras C (1992) Family Sulidae (Gannets and Boobies). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A,

										Saragatal J) p. 312-325. Lynx edicions: Barcelona., parental)
1300	Motacilla alba	A	19.2	NA	NA	A	14.5	0.6216	24.1	(445450510729820, anage)(lifehistory)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes.Oxford University Press: Oxford., parental)
1301	Motacilla flava	A	25	NA	NA	A	17	0.5698	17.575	(444445450510729000, anage)(lifehistory)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes.Oxford University Press: Oxford. Tyler SJ (2004) Family Motacillidae (Pipits and wagtails). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 686-786. Lynx edicions: Barcelona., parental)
1302	Mulleripicus fulvus	NA	NA	NA	NA	A	NA	4.58948	200	(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1303	Muscicapa striata	A	31	NA	NA	A	15	0.50764	15.9	(510575729820, anage)(lifehistory)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
1304	Muscisaxicola alpinus	NA	NA	NA	NA	A	NA	0.80808	26.1	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1305	Musophaga rossae	A	NA	NA	NA	NA	NA	4.2	360	(Forshaw JM, Cooper WT (2002) Turacos: a natural history of the Musophagidae. Nokomis: Melbourne. , parental)
1306	Musophaga violacea	NA	NA	NA	NA	NA	NA	3.7	360	(Berry RJ, Todd WW (2002) Turacos in aviculture. in Turacos: a natural history of the Musophagidae. (ed. Forshaw JM, Cooper WT) p. 35-45. Nokomis: Melbourne., parental)
1307	Myadestes genibarbis	NA	NA	NA	NA	A	NA	0.95312	29.35	(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
1308	Myadestes townsendi	A	24	NA	NA	A	12.5	1.04636	33.475	(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del

										Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
1309	Mycteria americana	A	60	NA	NA	SA	53.75	15.41 568	2500	(444445668732, anage)(lifehistory)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London., parental)
1310	Mycteria ibis	A	95	NA	NA	NA	55	15.4	2000	(668820, anage)(Hancock JA, Kushlan JA, Kahl MP (1992) Storks, ibises and spoonbills of the world. Academic Press: London., parental)
1311	Myiagra alecto	A	NA	NA	NA	A	NA	0.756 28	24.6	(lifehistory)(Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde., parental)
1312	Myiagra caledonica	NA	NA	NA	NA	A	NA	0.611 24	10.9	(lifehistory)(Hannecart F, Letocart Y (1980) Oiseaux de Nouvelle Caledonie et des Loyautés. Tome 1 Volume 1. Les Editions Cardinalis: Noumea., parental)
1313	Myiagra cyanoleuca	A	NA	NA	NA	A	NA	0.652 7031 44	14.80 55187 5	(Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde.)(Sayol et al., 2123)
1314	Myiagra inquieta	A	24	NA	NA	A	14	0.787 36	20.75	(lifehistory)(Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde., parental)
1315	Myiagra rubecula	A	43.1	NA	NA	A	NA	0.559 5441 44	14.99 9247	(Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde.)(Sayol et al., 2124)
1316	Myiarchus cinerascens	A	29	NA	NA	A	16.5	0.797 72	28.2	(427444445732, anage)(lifehistory)(Cardiff SW, Dittmann DL (2002) Ash-throated flycatcher. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C. Simpkin JL, Gubanich AA (1991) Ash-throated flycatchers (Myiarchus cinerascens) raise mountain bluebird (Sialia currucoides) young. Condor 93: 461-462., parental)
1317	Myiarchus stolidus	NA	NA	NA	NA	A	NA	0.673 4	21.3	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1318	Myiarchus tuberculifer	A	NA	NA	NA	A	13.5	0.683 76	18.15	(lifehistory)(Tweit RC, Tweit JC (2002) Dusky-capped flycatcher. in Birds of North America: Life Histories for the Twenty-First

										Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1319	Myiarchus tyrannulus	A	NA	NA	NA	A	16.5	1.01528	36.5625	(427445, anage)(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Mezquida ET (2002) Nidificaci3n de ocho especies de Tyrannidae en La Reserva de _acu_, Mendoza, Argentina. Hornero 17: 31-40. Cardiff SW, Dittmann DL (2000) Brown-chested flycatcher. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1320	Myiarchus validus	NA	NA	NA	NA	A	NA	1.239077491	40.97655197	(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona.)(Sayol et al., 2125)
1321	Myiobius barbatus	NA	NA	NA	NA	A	23.5	0.3626	11.4	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Skutch AF (1960) Life histories of Central American Birds II Families Vireonidae, Sylviidae, Turdidae, Troglodytidae, Paridae, Corvidae, Hirundinidae and Tyrannidae. Cooper Ornithological Society: Berkeley. Skutch AF (1981) New studies of tropical American birds. Publications of the Nuttall Ornithological Club 19: 1-281., parental)
1322	Myioborus pictus	A	29	NA	NA	A	13	0.40404	9.775	(444445577, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)

1323	Myiodynastes maculatus	NA	NA	NA	NA	A	19.5	1.17068	43.35	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Skutch AF (1960) Life histories of Central American Birds II Families Vireonidae, Sylviidae, Turdidae, Troglodytidae, Paridae, Corvidae, Hirundinidae and Tyrannidae. Cooper Ornithological Society: Berkeley. , parental)
1324	Myiopagis cotta	NA	NA	NA	NA	A	NA	0.43512	11.575	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1325	Myiophobus fasciatus	NA	NA	NA	NA	A	16	0.38332	9.9	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Skutch AF (1960) Life histories of Central American Birds II Families Vireonidae, Sylviidae, Turdidae, Troglodytidae, Paridae, Corvidae, Hirundinidae and Tyrannidae. Cooper Ornithological Society: Berkeley. Fraga RM (1984) Notas sobre la conducta y nidificacion de la mosqueta Myiophobus fasciatus en Buenos Aires, Argentina. Hornero 12: 96-106., parental)
1326	Myiopsitta monachus	A	130	NA	NA	NA	NA	NA	NA	NA
1327	Myiozetetes similis	A	NA	NA	NA	A	21	0.84952	27.55	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Skutch AF (1960) Life histories of Central

										American Birds II Families Vireonidae, Sylviidae, Turdidae, Troglodytidae, Paridae, Corvidae, Hirundinidae and Tyrannidae. Cooper Ornithological Society: Berkeley. Dyrce A (2002) Breeding ecology of the social (<i>Myiozetetes similis</i>) and Rusty-margined (<i>M. cayanensis</i>) flycatchers at Barro Colorado Island, Republic of Panama. <i>Ornitologia Neotropical</i> 13: 143-151., parental)
1328	<i>Myrmeciza exsul</i>	A	NA	NA	NA	A	10	1.06708	26.375	(lifehistory)(Zimmer KJ, Isler ML (2003) Family <i>Thamnophilidae</i> (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
1329	<i>Myrmeciza ferruginea</i>	A	NA	NA	NA	A	NA	0.84952	26.1	(lifehistory)(Zimmer KJ, Isler ML (2003) Family <i>Thamnophilidae</i> (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
1330	<i>Myrmotherula axillaris</i>	A	NA	NA	NA	A	8	0.40404	8.05	(lifehistory)(Zimmer KJ, Isler ML (2003) Family <i>Thamnophilidae</i> (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
1331	<i>Myzomela obscura</i>	NA	NA	NA	NA	A	NA	0.52836	12.25	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1332	<i>Myzomela sanguinolenta</i>	A	21.5	NA	NA	A	11.5	0.35224	8.1	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1333	<i>Nannopsittaca panychlora</i>	NA	NA	NA	NA	A	NA	1.5022	44.175	(lifehistory)(Collar NJ (1997) Family <i>Psittacidae</i> (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1334	<i>Necrosyrtes monachus</i>	A	225	NA	NA	NA	NA	NA	NA	NA
1335	<i>Nectarinia calcostetha</i>	NA	NA	NA	NA	A	NA	0.42476	8.6	(lifehistory)(Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
1336	<i>Nectarinia coccinigaster</i>	NA	NA	NA	NA	NA	NA	0.55	14.3	(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Cheke RA, Mann CF, Allen R (2001) Sunbirds: a

										guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
1337	Nectarinia fuliginosa	NA	NA	NA	NA	NA	NA	0.43	12.05	(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
1338	Nectarinia jugularis	NA	NA	NA	NA	A	14.7	0.4144	8.6	(lifehistory)(Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
1339	Nectarinia olivacea	A	NA	NA	NA	A	14	0.569707131	9.69877898	(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London.)(Sayol et al., 2126)
1340	Nectarinia venusta	A	NA	NA	NA	NA	18	0.31	6.5	(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
1341	Nectarinia verticalis	NA	NA	NA	NA	NA	NA	0.52	13.7	(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
1342	Nectarinia violacea	A	35.5	NA	NA	A	19	0.44548	9.55	(lifehistory)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
1343	Neochen jubata	P	0	NA	NA	P	NA	6.0088	1250	(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
1344	Neochmia phaeton	A	42	NA	NA	A	21	0.518	9.7	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
1345	Neochmia temporalis	A	40.6	NA	NA	A	15	0.53872	11.45	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
1346	Neophema chrysostoma	A	NA	NA	NA	A	30	1.761854846	57.97431108	(669820979)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds.

										Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne.)(Sayol et al., 2127)
1347	Neophema elegans	A	58	NA	NA	A	30	1.32608	44.3	(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
1348	Neophema petrophila	A	58	NA	NA	NA	NA	NA	NA	NA
1349	Neophema pulchella	A	58	NA	NA	A	28	1.33644	41.4	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
1350	Neophema splendida	A	51	NA	NA	A	30	1.32608	38.6	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
1351	Neophron percnopterus	A	110	NA	NA	NA	80	2039.33333	11	(1732820, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Tella JL (1993) Polyandrous trios in a population of Egyptian vultures (Neophron percnopterus). Journal of Raptor Research 27: 119-120. Perennou C, Fily M, Cantournet D (1987) Note sur un cas de polyandrie chez le Vautour percnoptere Neophron percnopterus. Alauda 55: 73-75., parental)
1352	Neopsephotus bourkii	A	37	NA	NA	A	27	1.2955	44.72	(669979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
1353	Neopsittacus mussschenbroekii	NA	NA	NA	NA	A	NA	2.537976586	56.99707781	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2128)
1354	Neotis denhami	P	0	NA	NA	P	NA	12.691	3850	(lifehistory)(Collar NJ (1996) Family Otidae (Bustards). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A,

										Saragatal J) p. 240-275. Lynx edicions: Barcelona., parental)
1355	Nesofregatta fuliginosa	A	NA	NA	NA	SP	NA	0.91168	66.5	(lifehistory)(Carboneras C (1992) Family Hydrobatidae (Storm-petrels). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 258-271. Lynx edicions: Barcelona., parental)
1356	Nesospingus speculiferus	NA	NA	NA	NA	A	NA	1.48148	35.2	(427820, anage)(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
1357	Nestor meridionalis	A	163	NA	NA	NA	NA	9.5	429	(669820979, anage)(NA, parental)
1358	Nestor notabilis	A	96	2148672996	Olowicz	A	91	14.9184	867.5	(669820979, anage)(lifehistory)(NA, parental)
1359	Netta rufina	P	0	NA	NA	P	47.5	5.55296	1118	(450729820, anage)(lifehistory)(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
1360	Nettapus coromandeli anus	P	0	NA	NA	NA	NA	2.5	347	(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne., parental)
1361	Nettapus pulchellus	P	0	NA	NA	P	NA	2.77648	305.5	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne., parental)
1362	Nicator chloris	A	NA	NA	NA	A	13.5	1.32608	44.4	(lifehistory)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London. Fishpool LDC, Tobias JA (2005) Family Pycnonotidae (Bulbuls). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 124-250. Lynx edicions: Barcelona., parental)
1363	Ninox boobook	A	125	NA	NA	SA	39	5.802954265	231.3657982	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex.)(Sayol et al., 2129)
1364	Ninox connivens	A	136	NA	NA	SA	35	6.628424499	699.9437677	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex.)(Sayol et al., 2130)
1365	Ninox jacquinoti	NA	NA	NA	NA	SA	NA	4.532923719	175.7390106	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex.)(Sayol et al., 2131)
1366	Ninox novaeseelandiae	A	100	1171047156	Sol	SA	40	5.72908	195	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)

1367	Ninox rufa	A	150	NA	NA	NA	NA	NA	NA	NA
1368	Ninox scutulata	A	NA	NA	NA	NA	NA	3.1	191	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1369	Ninox squamipila	NA	NA	NA	NA	SA	NA	4.560 2030 17	130.0 60535 5	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex.)(Sayol et al., 2132)
1370	Ninox strenua	A	156	NA	NA	SA	60	11.85 184	1324. 925	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1371	Ninox variegata	NA	NA	NA	NA	SA	NA	4.537 68	175.7	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1372	Nipponia nippon	NA	NA	NA	NA	NA	NA	10	1900	(649820, anage)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
1373	Nisaetus cirrhatus	A	NA	NA	NA	NA	NA	10	1585	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
1374	Northiella haematogaster	A	42	NA	NA	A	30	2.486 4	85.75	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird. Oxford University Press: Melbourne., parental)
1375	Notharchus macrorhynchos	NA	NA	NA	NA	A	NA	1.761 2	108.7 83333 3	(lifehistory)(Hilty SL (2003) Birds of Venezuela. Princeton University Press: Princeton. Rasmussen PC, Collar NJ (2002) Family Bucconidae (Puffbirds). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 102-139. Lynx edicions: Barcelona., parental)
1376	Nothoprocta ornata	P	0	NA	NA	P	0.1	2.952 6	623	(lifehistory)(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
1377	Nothura maculosa	P	0	NA	NA	P	28	1.636 88	250.1 25	(lifehistory)(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae,

										Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
1378	Nucifraga caryocatactes	A	137	NA	NA	NA	23	5.506	183	(450510729732820, anage)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
1379	Numenius americanus	P	0	NA	NA	P	43	3.9368	635.75	(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1380	Numenius arquata	P	0	NA	NA	NA	45	4.3	735	(444450729732, anage)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1381	Numenius madagascariensis	P	0	NA	NA	P	NA	4.8692	824.75	(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1382	Numenius phaeopus	P	0	NA	NA	P	37.5	3.24268	383	(444445450553729000, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1383	Numenius tahitiensis	P	0	NA	NA	NA	NA	3.7	418.3	(427444445, anage)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1384	Numida meleagris	P	0	447115541.9	Sol	P	0.1	4.22688	1375	(820, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1385	Nyctanassa violacea	A	56.9	NA	NA	SA	36.9	6.19528	682.5	(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
1386	Nyctibius griseus	A	NA	NA	NA	SP	43.5	2.05128	172.5	(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)

1387	Nycticorax caledonicus	A	NA	NA	NA	SA	45.5	5.7498	856	(lifecycle)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
1388	Nycticorax nycticorax	A	54	NA	NA	SA	43.5	6.89976	800	(1438444445, anage)(lifecycle)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
1389	Nyctidromus albicollis	P	NA	NA	NA	SP	NA	0.94276	54	(lifecycle)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
1390	Nyctiphrynus ocellatus	P	NA	NA	NA	SP	NA	0.76664	41.55	(lifecycle)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
1391	Nyctiproga leucopyga	NA	NA	NA	NA	SP	NA	0.52836	27.3	(lifecycle)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
1392	Nymphicus hollandicus	A	42	452765647	Olowicz	A	31.5	2.47604	90	(669979, anage)(lifecycle)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird. Oxford University Press: Melbourne. Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
1393	Oceanites oceanicus	A	60	NA	NA	SP	52	0.73556	34	(lifecycle)(Carboneras C (1992) Family Hydrobatidae (Storm-petrels). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 258-271. Lynx edicions: Barcelona., parental)
1394	Oceanodroma leucorhoa	A	64.5	NA	NA	SP	66.75	0.92204	40.29	(1.43244444573275E+22, anage)(lifecycle)(Carboneras C (1992) Family Hydrobatidae (Storm-petrels). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 258-271. Lynx edicions: Barcelona., parental)
1395	Oceanodroma tethys	A	NA	NA	NA	SP	76	0.6216	23.5	(lifecycle)(Carboneras C (1992) Family Hydrobatidae (Storm-petrels). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 258-271. Lynx edicions: Barcelona., parental)
1396	Ocreatus underwoodii	A	NA	NA	NA	NA	NA	0.14	3.025	(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)

1397	Ocyphaps lophotes	A	45	NA	NA	A	15	1.7612	204.5	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1398	Oenacapensis	A	NA	94489587.8	Sol	A	16	0.63196	40.6	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1399	Oenanthe oenanthe	A	29.5	NA	NA	A	15	0.80808	23.775	(444445450729732, anage)(lifehistory)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes. Oxford University Press: Oxford. Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
1400	Ognorhynchus icterotis	NA	NA	NA	NA	A	NA	9.1686	285	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1401	Onychognathus salvadorii	NA	NA	NA	NA	A	NA	2.52784	147.75	(lifehistory)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI. Academic Press: London. Feare C, Craig A (1998) Starlings and mynas. Christopher Helm: London. , parental)
1402	Onychorhynchus coronatus	A	NA	NA	NA	A	NA	0.48692	15.71666667	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Skutch AF (1960) Life histories of Central American Birds II Families Vireonidae, Sylviidae, Turdidae, Troglodytidae, Paridae, Corvidae, Hirundinidae and Tyrannidae. Cooper Ornithological Society: Berkeley. , parental)

1403	Opisthocomus hoazin	A	75	NA	NA	SA	17.5	4.03004	793	(lifehistory)(Thomas BT (1996) Family Opisthocomidae (Hoatzin). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 24-33. Lynx edicions: Barcelona., parental)
1404	Oreocharis arfaki	NA	NA	NA	NA	A	NA	0.714885523	19.4919196	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2133)
1405	Oreoica gutturalis	A	72	NA	NA	A	NA	1.73012	63.125	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1406	Oreopsittacus arfaki	NA	NA	NA	NA	A	NA	1.1914	20.175	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1407	Oreortyx pictus	P	0	NA	NA	P	14	1.74048	233	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. Pope MD, Crawford JA (2001) Male incubation and biparental care in mountain quail. Condor 103: 865-870., parental)
1408	Origma solitaria	NA	NA	NA	NA	A	22	0.880176471	13.00065837	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2134)
1409	Oriolus flavocinctus	A	NA	NA	NA	A	NA	2.175736317	89.03236898	(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney.)(Sayol et al., 2135)
1410	Oriolus oriolus	A	NA	NA	NA	NA	14.5	1.5	77.85	(729820, anage)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
1411	Oriolus sagittatus	A	NA	NA	NA	A	16	2.03056	96.6	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
1412	Ortalis canicollis	P	NA	NA	NA	NA	NA	3.495	539	(del Hoyo J (1994) Family Cracidae (Chachalacas, guans and curassows). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)

141	3	Ortalis vetula	P	22	NA	NA	P	0.1	3.346	28	560	(427444445, anage)(lifehistory)(Peterson MJ (2001) Plain chachalaca. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)		
141	4	Orthonyx spaldingii	A	38	NA	NA	NA	NA	NA	NA	NA	NA		
141	5	Orthonyx temminckii	A	NA	NA	NA	A	17	1.823	36	58.15		(lifehistory)(Green DJ (2002) personal communication., parental)	
141	6	Orthopsittaca manilata	NA	NA	NA	NA	NA	NA	8.36		372		(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)	
141	7	Orthorhynchus cristatus	A	45.5	NA	NA	A	20.5	0.145	04	33333	3	(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)	
141	8	Oryzoborus angolensis	A	NA	NA	NA	A	11	0.704	48	12.96	66666	7	(lifehistory)(Stiles FG, Skutch AF (1989) A guide to the birds of Costa Rica. Cornell University Press: Ithaca. , parental)
141	9	Otidiphaps nobilis	A	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	
142	0	Otis tarda	P	0	NA	NA	NA	33.75	10.8		7895.	5		(575732820, anage)(Collar NJ (1996) Family Otidae (Bustards). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 240-275. Lynx edicions: Barcelona., parental)
142	1	Otus bakkamoena	A	NA	NA	NA	SA	NA	4.185	44		112		(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
142	2	Otus leucotis	NA	NA	NA	NA	NA	NA	5.3			204		(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
142	3	Otus magicus	NA	NA	NA	NA	SA	NA	3.895	36		126.6	5	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
142	4	Otus scops	A	35	570997	449.2	Sol	SA	2.579	64		92		(450729820, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)

1425	Oxyura australis	P	0	NA	NA	P	1	4.16472	850	(1820, anage)(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne. Johnsgard PA, Carbonell M (1996) Ruddy ducks and other stiffetails. University of Oklahoma Press: Norman. , parental)
1426	Oxyura jamaicensis	P	0	NA	NA	P	55.75	3.64672	550	(444445576, anage)(lifehistory)(Johnsgard PA, Carbonell M (1996) Ruddy ducks and other stiffetails. University of Oklahoma Press: Norman. , parental)
1427	Oxyura maccoa	P	0	NA	NA	P	35	4.84848	666667	(lifehistory)(Johnsgard PA, Carbonell M (1996) Ruddy ducks and other stiffetails. University of Oklahoma Press: Norman. , parental)
1428	Pachycephala olivacea	A	NA	NA	NA	A	NA	1.528622715	44.25640028	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2136)
1429	Pachycephala pectoralis	A	NA	NA	NA	A	10.1	1.16032	32.7	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1430	Pachycephala rufiventris	A	76.5	NA	NA	A	10.1	1.06708	23.125	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1431	Pachycephala rufogularis	A	NA	NA	NA	A	NA	1.129039356	36.05335772	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2137)
1432	Pachycephala simplex	NA	NA	NA	NA	A	NA	0.860163444	18.99166123	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2138)
1433	Pachycephala poliosoma	NA	NA	NA	NA	A	NA	1.09816	37.25	(lifehistory)(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland. , parental)
1434	Pachyptila belcheri	A	50	NA	NA	SP	49.5	2.072	145	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)

1435	Pachyptila desolata	A	51	NA	NA	SP	50	2.1756	153.25	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
1436	Pachyptila salvini	A	60	NA	NA	SP	55	2.13416	175	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
1437	Pachyptila turtur	A	50	NA	NA	SP	49	2.072	138.05	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
1438	Pachyramphus cinnamomeus	NA	NA	NA	NA	A	20	0.91168	20.325	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Skutch AF (1969) Life histories of Central American Birds III Families Cotingidae, Pipridae, Formicariidae, Furnariidae, Dendrocolaptidae, and Picidae. Cooper Ornithological Society: Berkeley. , parental)
1439	Pachyramphus niger	NA	NA	NA	NA	A	NA	1.346309498	38.90022365	(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona.)(Sayol et al., 2139)
1440	Pachyramphus polychopterus	NA	NA	NA	NA	A	21	0.76664	21.6	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Skutch AF (1969) Life histories of Central American Birds III Families Cotingidae, Pipridae,

										Formicariidae, Furnariidae, Dendrocolaptidae, and Picidae. Cooper Ornithological Society: Berkeley. , parental)
144	Padda oryzivora	A	33.5	NA	NA	A	16	0.8806	24.8	(445, anage)(lifehistory)(Goodwin D (1982) Estrildid finches of the world. Oxford University Press: Oxford. , parental)
144	Pagodroma nivea	A	46	NA	NA	SP	46	4.54804	317	(7328209191143, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
144	Pagophila eburnea	P	NA	NA	NA	SP	NA	5.00388	550	(427,444,445,820)(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona.)
144	Pandion haliaetus	A	115	NA	NA	SA	52.5	9.71768	1527.5	(427437444445732, anage)(lifehistory)(Fisher PR, Newton SF, Tatwany HMA, Goldspink CR (2001) The status and breeding biology of the osprey Pandion haliaetus in the Middle East. Vogelwelt 122: 191-204. Poole AF (1994) Family Pandionidae (Osprey). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 42-51. Lynx edicions: Barcelona., parental)
144	Panurus biarmicus	A	25.5	NA	NA	NA	NA	0.57	14.2	(553729820, anage)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
144	Parabuteo unicinctus	A	160	NA	NA	SA	40	8.26728	939.63	(1444445, anage)(lifehistory)(NA, parental)
144	Pardalotus punctatus	A	30	NA	NA	A	21.5	0.4144	8.875	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
144	Pardalotus striatus	NA	NA	NA	NA	A	25	0.53872	11.775	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
144	Pardirallus maculatus	P	NA	NA	NA	P	NA	1.95804	173	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
145	Paroaria coronata	NA	NA	NA	NA	A	14	1.27428	38.7666667	(lifehistory)(Ridgley RS, Tudor G (1989) The birds of South America. Vol. I. The oscine passerines. Oxford University Press: Oxford. , parental)

145	1	Paroaria dominicana	NA	NA	NA	NA	NA	NA	1.16	31.1	(Ridgley RS, Tudor G (1989) The birds of South America. Vol. I. The oscine passerines. Oxford University Press: Oxford. , parental)
145	2	Parotia lawesii	A	NA	NA	NA	A	NA	4.154	158.1	(lifehistory)(Frith CB, Beehler BM (1998) The Birds of Paradise: Paradisaeidae. Oxford University Press: Oxford. , parental)
145	3	Parula americana	A	NA	NA	NA	A	10.5	0.404	04	(425444445578820, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
145	4	Parus ater	A	NA	NA	NA	NA	16.5	0.641	25	(729732820, anage)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
145	5	Parus atricapillus	A	30	NA	NA	A	16.5	0.787	36	(435437444445579000, anage)(lifehistory)(Smith SM (1993) Black-capped chickadee. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
145	6	Parus caeruleus	A	29	NA	NA	NA	NA	0.665	7	(450729732820, anage)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
145	7	Parus carolinensis	A	39	NA	NA	A	16.7	0.621	6	(61444445579, anage)(lifehistory)(Mostrom AM, Curry RL, Lohr B (2002) Carolina chickadee. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
145	8	Parus cristatus	A	38.5	NA	NA	NA	21	0.7	11.075	(450729820, anage)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
145	9	Parus cyanus	NA	NA	NA	NA	NA	NA	0.66	13.65	(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
146	0	Parus gambeli	A	39	NA	NA	A	20	0.777	5	(444445579, anage)(lifehistory)(McCallum DA, Grundel R, Dahlsten DL (1999) Mountain chickadee. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-27. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)

146	Parus 1 hudsonicus	A	32	NA	NA	A	18	0.735 56	9.8	(427444445, anage)(lifehistory)(Ficken MS, McLaren MA, Hailman JP (1996) Boreal chickadee. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
146	Parus 2 major	A	32	225982 159	Olowicz	NA	16.5	0.856 3	18	(6145072973211430000, anage)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
146	Parus 3 montanus	A	30.5	NA	NA	NA	18	0.79	11.2	(450732820, anage)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
146	Parus 4 palustris	A	25.5	NA	NA	NA	18	0.68	11.35	(450729732820, anage)(Cramp S, Perrins CM, eds. (1993) The birds of the western Palearctic Vol. VII. Flycatchers to shrikes.Oxford University Press: Oxford., parental)
146	Parus 5 venustulus	NA	NA	NA	NA	NA	NA	0.53	11.625	(Harrap S, Quinn D (1996) Tits, nuthatches and treecreepers. Christopher Helm: London. , parental)
146	Passer 6 domesticus	A	28	NA	Massen	A	15	1.004 92	27.7	(6.14444457297329E+20, anage)(lifehistory)(Sappington JN (1977) Breeding biology of house sparrows in north Mississipi. Wilson Bulletin 89: 300-309., parental)
146	Passer 7 griseus	A	NA	NA	NA	NA	NA	0.97	28.1	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London. Summers-Smith JD (1988) The sparrows: a study of the genus Passer. Poyser: Calton. , parental)
146	Passer 8 hispaniolensis	A	28	NA	NA	A	13.2	1.004 92	24.2	(729820, anage)(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London. Summers-Smith JD (1988) The sparrows: a study of the genus Passer. Poyser: Calton. , parental)
146	Passer 9 montanus	A	26	NA	NA	NA	13	0.775 46	22.05	(61425444445450700000, anage)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
147	Passer 0 rutilans	A	NA	NA	NA	NA	NA	0.68	18.87 5	(Ali S, Ripley SD (1974) Handbook of the birds of India and Pakistan. Vol. 10. Flowerpeckers to buntings. Oxford University Press: Bombay. , parental)
147	Passerculus 1 sandwichensis	A	24	NA	NA	A	11.5	0.704 48	20.2	(427435444445820, anage)(lifehistory)(Wheelwright NT, Rising JD (1993) Savannah sparrow. in Birds of North

										America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
147	Passerina 2 cyanea	A	27.5	NA	NA	A	9.5	0.673 4	14.7	(1444445818, anage)(lifehistory)(Payne RB (1992) Indigo bunting. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
147	Patagioenas 3 cayennensis	NA	NA	NA	NA	A	NA	1.830 0936 56	231.5 97279 7	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2140)
147	Patagioenas 4 fasciata	NA	NA	NA	NA	A	30	2.196 32	352.5	(444577818, anage)(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
147	Patagioenas 5 leucocephala	A	30	NA	NA	A	20	1.802 64	247	(444577818, anage)(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
147	Patagioenas 6 maculosa	NA	NA	NA	NA	A	NA	2.105 1087 82	318.6 20264 4	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2141)
147	Patagioenas 7 picazuro	NA	NA	NA	NA	A	NA	2.589 2471 14	405.0 45740 4	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed.

										del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2142)
1478	Patagioenas speciosa	NA	NA	NA	NA	A	16.5	2.05128	262	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1479	Patagioenas squamosa	NA	NA	NA	NA	A	NA	1.916244237	310.4429039	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2143)
1480	Pavo cristatus	P	0	570934480.7	Kverkova + sol	P	14	7.10696	4093.75	(2438445575732, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1481	Pavo muticus	P	0	NA	NA	NA	14	6.5	4256.25	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1482	Pedionomus torquatus	P	0	NA	NA	P	0.1	0.79772	67.8	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1483	Pelagodroma marina	A	57	NA	NA	NA	NA	NA	NA	NA
1484	Pelargopsis capensis	NA	NA	NA	NA	A	NA	2.92152	182.5	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
1485	Pelecanoide s georgicus	A	50	NA	NA	SP	45.5	1.52292	120.5	(lifehistory)(Carboneras C (1992) Family Pelecanoididae (Diving-petrels). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 272-279. Lynx edicions: Barcelona., parental)
1486	Pelecanoide s urinatrix	A	52	NA	NA	SP	53.9	1.75084	134	(lifehistory)(Carboneras C (1992) Family Pelecanoididae (Diving-petrels). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 272-279. Lynx edicions: Barcelona., parental)
1487	Pelecanus conspicillatus	A	115	NA	NA	A	60.88	25.77568	5452.5	(lifehistory)(Elliott A (1992) Family Pelecanidae (Pelicans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 290-311. Lynx edicions: Barcelona., parental)

1488	Pelecanus erythrorhynchos	A	80	NA	NA	A	75	25.123	6129.5	(444445576, anage)(lifehistory)(Elliott A (1992) Family Pelecanidae (Pelicans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 290-311. Lynx edicions: Barcelona., parental)
1489	Pelecanus occidentalis	A	73	NA	NA	NA	75.5	24.2	3174	(6143844445732, anage)(Elliott A (1992) Family Pelecanidae (Pelicans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 290-311. Lynx edicions: Barcelona., parental)
1490	Pelecanus onocrotalus	A	70	NA	NA	NA	72.5	33	9520	(575820, anage)(Elliott A (1992) Family Pelecanidae (Pelicans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 290-311. Lynx edicions: Barcelona., parental)
1491	Pelecanus philippensis	NA	NA	NA	NA	NA	90	21.5	4900	(Elliott A (1992) Family Pelecanidae (Pelicans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 290-311. Lynx edicions: Barcelona., parental)
1492	Pelecanus rufescens	A	NA	NA	NA	NA	72	19.5	5366.666667	(Elliott A (1992) Family Pelecanidae (Pelicans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 290-311. Lynx edicions: Barcelona., parental)
1493	Penelope purpurascens	P	NA	NA	NA	P	NA	6.475	2060	(lifehistory)(del Hoyo J (1994) Family Cracidae (Chachalacas, guans and curassows). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1494	Penelope superciliaris	P	NA	NA	NA	NA	NA	4.6	895	(del Hoyo J (1994) Family Cracidae (Chachalacas, guans and curassows). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1495	Penelopides panini	NA	NA	NA	NA	A	NA	7.12768	472	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
1496	Peneothello cyanus	NA	NA	NA	NA	A	NA	0.989423473	27.05846783	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2144)
1497	Perdix perdix	P	0	170286578.5	Kverkova + sol	NA	NA	1.8437	405.5	(1425444445729730, anage)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)

1498	Pericrocotus ethologus	NA	NA	NA	NA	A	NA	0.91168	19	(lifecycle)(Taylor PB (2005) Family Campephagidae (Cuckoo-shrikes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 40-122. Lynx edicions: Barcelona., parental)
1499	Perisoreus canadensis	A	48.5	NA	NA	A	18	2.62108	71.1	(444445579, anage)(lifecycle)(Waite TA, Strickland D (1997) Cooperative breeding in gray jays: philopatric offspring provision juvenile siblings. Condor 99: 523-525., parental)
1500	Perissocephalus tricolor	NA	NA	NA	NA	A	27	4.8692	351.5	(lifecycle)(Snow DW (2004) Family Cotingidae (Cotingas). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 32-109. Lynx edicions: Barcelona., parental)
1501	Pernis apivorus	A	142	NA	NA	NA	42	7.2	762.5	(1425729820, anage)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Steiner H (1997) Ein Trio beim Wespenbussard (Pernis apivorus). Egretta 40: 45-47., parental)
1502	Petrochelidon fulva	A	26	NA	NA	A	19	0.5184	19.13333334	(427444445972, anage)(lifecycle)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona. West S (1995) Cave swallow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1503	Petroica goodenovii	A	56	NA	NA	A	12.5	0.38332	8.875	(lifecycle)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1504	Petroica macrocephala	A	43	NA	NA	NA	NA	NA	NA	NA
1505	Petroica multicolor	A	59	NA	NA	A	15	0.53872	12.1	(lifecycle)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1506	Petroica phoenicea	A	51.5	NA	NA	A	17.3	0.50764	13	(lifecycle)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)

1507	Petroica rodinogaster	A	NA	NA	NA	A	NA	0.507 64	10.25	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1508	Petroica rosea	A	NA	NA	NA	A	NA	0.518 0762 45	10.69 73922 8	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2145)
1509	Petrophassa albipennis	A	45	NA	NA	NA	NA	NA	NA	NA
1510	Pezoporus wallicus	A	35	NA	NA	A	NA	2.821 7778 9	76.55 42775 7	(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne.)(Sayol et al., 2146)
1511	Phacellodomus ruber	NA	NA	NA	NA	A	NA	1.149 96	42.2	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
1512	Phaenicophaeus chlorophaeus	NA	NA	NA	NA	NA	NA	1.3	52.35	(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
1513	Phaenicophaeus curvirostris	NA	NA	NA	NA	A	NA	3.025 12	152.2 5	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
1514	Phaenicophaeus superciliosus	NA	NA	NA	NA	A	NA	2.600 36	122.2 5	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
1515	Phaenicophaeus tristis	NA	NA	NA	NA	A	NA	2.382 8	115	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
1516	Phaenicophilus palmarum	NA	NA	NA	NA	A	10	1.170 68	32	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
1517	Phaenostictus mcleannani	NA	NA	NA	NA	A	NA	1.108 52	51.1	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona. Buehler DM, Castillo AI, Brawn JD (2004) First nest description for the ocellated antbird (Phaenostictus mcleannani). Wilson Bulletin 116: 277-279., parental)
1518	Phaeomyias murina	NA	NA	NA	NA	A	17	0.383 32	10.31 66666 7	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family

											Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1519	Phaeothlypis fulvicauda	A	64.5	NA	NA	A	13.5	0.58016	14.9		(lifecycle)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London., parental)
1520	Phaethon aethereus	A	NA	NA	NA	NA	86.5	3.3	750		(427444820, anage)(Orta J (1992) Family Phaethonidae (Tropicbirds). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-289. Lynx edicions: Barcelona., parental)
1521	Phaethon rubricauda	A	82	NA	NA	SA	91.3	4.68272	645		(427444445, anage)(lifecycle)(Orta J (1992) Family Phaethonidae (Tropicbirds). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-289. Lynx edicions: Barcelona., parental)
1522	Phaethornis ruber	A	NA	NA	NA	NA	NA	NA	NA	NA	NA
1523	Phaethornis superciliosus	A	NA	NA	NA	A	21	0.26936	5.75		(lifecycle)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Saragatal J) p. 388-457. Lynx Editions: Barcelona., parental)
1524	Phaetusa simplex	NA	NA	NA	NA	SP	NA	3.108	239.25		(lifecycle)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona., parental)
1525	Phainopepla nitens	A	27	NA	NA	A	18.5	0.81844	22.55		(lifecycle)(Chu MC (2005) Family Ptilonotidae (Silky-flycatchers). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 292-302. Lynx edicions: Barcelona., parental)
1526	Phalacrocorax africanus	A	56	NA	NA	A	28	4.69308	542.875		(lifecycle)(Orta J (1992) Family Phalacrocoracidae (Cormorants). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 326-353. Lynx edicions: Barcelona., parental)
1527	Phalacrocorax atriceps	A	86	NA	NA	A	56	14.63428618	3050.314564		(Orta J (1992) Family Phalacrocoracidae (Cormorants). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 326-353. Lynx edicions: Barcelona.)(Sayol et al., 2147)
1528	Phalacrocorax auritus	A	56	NA	NA	NA	40.25	7.587	1876.5		(4.27435444445732E+20, anage)(Orta J (1992) Family Phalacrocoracidae (Cormorants). in Handbook of the birds of the world. Vol. 1.

											Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 326-353. Lynx edicions: Barcelona., parental)
1529	Phalacrocorax brasilianus	A	86	NA	NA	NA	NA	7.5	1275		(444445576, anage)(Orta J (1992) Family Phalacrocoracidae (Cormorants). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 326-353. Lynx edicions: Barcelona., parental)
1530	Phalacrocorax capensis	A	91	NA	NA	NA	63	10	1191		(Orta J (1992) Family Phalacrocoracidae (Cormorants). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 326-353. Lynx edicions: Barcelona., parental)
1531	Phalacrocorax carbo	A	78	NA	NA	A	50	10.8262	2200		(4444454507321140, anage)(lifehistory)(Orta J (1992) Family Phalacrocoracidae (Cormorants). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 326-353. Lynx edicions: Barcelona., parental)
1532	Phalacrocorax fuscescens	A	NA	NA	NA	A	NA	9.21004	1420		(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne., parental)
1533	Phalacrocorax harrisi	A	NA	NA	NA	NA	NA	NA	NA	NA	NA
1534	Phalacrocorax melanoleucos	A	NA	NA	NA	A	NA	5.53224	750		(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne., parental)
1535	Phalacrocorax pygmeus	NA	NA	NA	NA	NA	70	4.7	629.833333		(Orta J (1992) Family Phalacrocoracidae (Cormorants). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 326-353. Lynx edicions: Barcelona., parental)
1536	Phalacrocorax sulcirostris	A	NA	NA	NA	A	49	5.84304	1000		(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne., parental)
1537	Phalacrocorax urile	A	77	NA	NA	A	56	8.51592	2138		(lifehistory)(Orta J (1992) Family Phalacrocoracidae (Cormorants). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 326-353. Lynx edicions: Barcelona., parental)
1538	Phalacrocorax varius	A	133	NA	NA	A	28	9.54156	1715		(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to

											ducks.Oxford University Press: Melbourne., parental)	
153	Phalaenoptilus nuttallii	P	30	NA	NA	NA	NA	NA	NA	NA	NA	
154	Phalaropus fulicarius	P	0	NA	NA	P	19.3	0.580	16	55.9	(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)	
154	Phalaropus lobatus	P	0	NA	NA	P	19	0.466	2	35	(553818, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)	
154	Phalacrocorax albogularis	NA	NA	NA	NA	NA	NA	3		791.5	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona., parental)	
154	Phalacrocorax australis	A	NA	141056	8583	Sol	SA	NA	10.87	8	1187	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Kimball RT, Parker PG, Bednarz JC (2003) Occurrence and evolution of cooperative breeding among the diurnal raptors (Accipitridae and Falconidae). Auk 120: 717-729. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
154	Phapitreron amethystinus	NA	NA	NA	NA	A	NA	1.336	44	145	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)	
154	Phapitreron leucotis	NA	NA	NA	NA	A	NA	1.170	68	110.32	5	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to

										cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
154 6	Phaps chalcoptera	A	NA	216703 333.8	Sol	A	18	1.844 08	338.5	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
154 7	Phaps elegans	A	NA	NA	NA	A	22	1.709 4	211.17 5	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
154 8	Phaps histrionica	A	NA	NA	NA	A	10	1.709 4	290	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
154 9	Pharomachrus mocinno	A	NA	NA	NA	A	34	2.424 24	206	(lifehistory)(Collar NJ (2001) Family Trogonidae (Trogons). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona., parental)
155 0	Phasianus colchicus	P	0	321360 592.9	Sol	P	11	3.998 96	1043. 75	(61437444445575700, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
155 1	Pheucticus ludovicianus	A	31.5	NA	NA	A	10.5	1.367 52	45.1	(444445, anage)(lifehistory)(Wyatt VE, Francis CM (2002) Rose-breasted grosbeak. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
155 2	Philemon argenteiceps	NA	NA	NA	NA	A	NA	1.761 8548 46	99.98 29828 5	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats. Oxford University Press: Melbourne.)(Sayol et al., 2148)
155 3	Philemon bucerooides	A	36	NA	NA	A	15	2.227 4	101	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5:

											Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
155 4	Philemon citreogularis	A	35	NA	NA	A	14	1.631 2835 25	62.17 79229 3		(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2149)
155 5	Philemon corniculatus	A	48	NA	NA	A	18.5	2.051 28	103.3 75		(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
155 6	Philemon diemenensis	NA	NA	NA	NA	A	NA	1.605 8	66.4		(lifehistory)(Hannecart F, Letocart Y (1980) Oiseaux de Nouvelle Caledonie et des Loyautés. Tome 1 Volume 1. Les Editions Cardinais: Noumea., parental)
155 7	Philomachus pugnax	P	0	NA	NA	P	26.5	1.616 16	140.2 5		(4507297328201140, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
155 8	Pheocryptes melanops	NA	NA	NA	NA	A	15	0.714 84	14.55		(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
155 9	Phoebastria nigripes	P	140	NA	NA	SP	140	16.36 88	3195		(427445977, anage)(lifehistory)(Carboneras C (1992) Family Diomedidae (Albatrosses). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 198-215. Lynx edicions: Barcelona., parental)
156 0	Phoebetria palpebrata	P	155	NA	NA	SP	140	17.54 984	2825		(lifehistory)(Carboneras C (1992) Family Diomedidae (Albatrosses). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 198-215. Lynx edicions: Barcelona., parental)
156 1	Phoeniconai as minor	A	NA	NA	NA	NA	72.75	7.2	1760		(820991, anage)(del Hoyo J (1992) Family Phoenicopteridae (Flamingoes). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 508-527. Lynx edicions: Barcelona., parental)
156 2	Phoenicoparr us jamesi	A	NA	NA	NA	NA	NA	9.3	2000		(del Hoyo J (1992) Family Phoenicopteridae (Flamingoes). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 508-527. Lynx edicions: Barcelona., parental)

1563	Phoenicopterus roseus	A	71	NA	NA	SA	72.5	10.83050992	2599.30661	(1,61,438,729)(del Hoyo J (1992) Family Phoenicopteridae (Flamingoes). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 508-527. Lynx edicions: Barcelona.)(Sayol et al., 2150)
1564	Phoenicopterus ruber	A	72.5	NA	NA	SA	72.5	11.1888	3043.5	(4278201143, anage)(lifehistory)(del Hoyo J (1992) Family Phoenicopteridae (Flamingoes). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 508-527. Lynx edicions: Barcelona., parental)
1565	Phoeniculus purpureus	A	119	NA	NA	A	30	2.124140275	78.02271483	(Ligon JD (2001) Family Phoeniculidae (Woodhoopoes). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 412-435. Lynx edicions: Barcelona.)(Sayol et al., 2151)
1566	Phoenicurus ochruros	A	32	NA	NA	NA	14.5	0.7	16.5	(450729820, anage)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes.Oxford University Press: Oxford. Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona. Andersson R (1996) Helping behaviour in black redstart Phoenicurus ochruros. Ornis Svecica 6: 130-132., parental)
1567	Phoenicurus phoenicurus	A	34.5	NA	NA	A	13	0.52836	14.85	(450729820, anage)(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
1568	Phrygilus patagonicus	NA	NA	NA	NA	A	NA	1.059044561	22.73714657	(FjeldsÅ J, Krabbe N (1990) Birds of the high Andes. University of Copenhagen and Apollo Books: Svenborg. Chesser RT (1994) Migration in South America: an overview of the austral system. Bird Conservation International 4: 91-107.)(Sayol et al., 2152)
1569	Phylidonyris albigularis	A	41.3	NA	NA	A	11.3	0.74592	17.1	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1570	Phylidonyris melanops	NA	NA	NA	NA	A	12.5	0.64232	18.25	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1571	Phylidonyris niger	A	28.25	NA	NA	A	NA	0.828918984	15.39434139	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to

										Chats.Oxford University Press: Melbourne.)(Sayol et al., 2153)
157 2	Phylidonyris novaeholland iae	A	45	NA	NA	A	14	0.932 4	18.5	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
157 3	Phyllastreph us terrestris	A	NA	NA	NA	A	NA	1.067 08	31.2	(lifehistory)(Fishpool LDC, Tobias JA (2005) Family Pycnonotidae (Bulbuls). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 124-250. Lynx edicions: Barcelona., parental)
157 4	Phylloscopus bonelli	A	NA	NA	NA	A	12	0.352 24	8.9	(lifehistory)(Cramp S, ed. (1992) The birds of the western Palearctic Vol. VI. Warblers.Oxford University Press: Oxford., parental)
157 5	Phylloscopus collybita	A	25	NA	NA	NA	15	0.361 25	8.3	(450510729732820, anage)(Cramp S, ed. (1992) The birds of the western Palearctic Vol. VI. Warblers.Oxford University Press: Oxford., parental)
157 6	Phylloscopus sibilatrix	A	28	NA	NA	A	12	0.372 96	9.95	(450729732820, anage)(lifehistory)(Cramp S, ed. (1992) The birds of the western Palearctic Vol. VI. Warblers.Oxford University Press: Oxford., parental)
157 7	Phylloscopus trochilus	A	24	NA	NA	NA	13.5	0.328 18	8.85	(444450510729732000, anage)(Cramp S, ed. (1992) The birds of the western Palearctic Vol. VI. Warblers.Oxford University Press: Oxford. Lawn MR (1996) Two male willow warblers at same nest. British Birds 89: 319-320., parental)
157 8	Phytotoma rara	NA	NA	NA	NA	NA	NA	1.2	46.87 5	(Walther BA (2004) Genus Phytotoma. in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 73-74. Lynx edicions: Barcelona., parental)
157 9	Phytotoma rutila	NA	NA	NA	NA	A	17	0.756 0612 74	36.01 73223 8	(Walther BA (2004) Genus Phytotoma. in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 73-74. Lynx edicions: Barcelona.)(Sayol et al., 2154)
158 0	Piaya cayana	A	NA	NA	NA	A	8	1.906 24	103.2 5	(lifehistory)(Payne RB (2005) The cuckoos. Oxford University Press: Oxford. , parental)
158 1	Pica pica	A	80.2	897273 541	Olowicz	A	25.75	4.838 12	213.3 75	(614507297321143, anage)(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
158 2	Picoides arcticus	A	NA	NA	NA	A	25	3.263 4	72	(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers.

										(ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
158	Picoides 3 borealis	A	87	NA	NA	A	25.5	1.719 76	48	(427437444445, anage)(lifecycle)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
158	Picoides 4 pubescens	A	41	NA	NA	A	21.75	1.253 56	27.5	(427435444445820, anage)(lifecycle)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona. Jackson JA, Ouellet HR (2002) Downy woodpecker. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
158	Picoides 5 scalaris	A	NA	NA	NA	A	NA	1.429 68	30.6	(444445579, anage)(lifecycle)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
158	Picoides 6 tridactylus	A	54	NA	NA	A	24	2.724 68	65.65	(450820, anage)(lifecycle)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
158	Picoides 7 villosus	A	58	NA	NA	A	29	3.056 2	65.87 5	(427444445, anage)(lifecycle)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
158	Piculus 8 flavigula	A	NA	NA	NA	A	NA	1.688 68	60	(lifecycle)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
158	Picumnus 9 temminckii	NA	NA	NA	NA	A	NA	0.621 6	12	(lifecycle)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)

1590	Picus canus	A	NA	NA	NA	A	25	3.81248	137	(450732820, anage)(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona. Sudbeck P, Meinecke H (1992) Grauspecht-Weibchen Picus canus als Helfer an der Bruthohle. Journal f_r Ornithologie 133: 443-446., parental)
1591	Picus viridis	A	60	NA	NA	NA	23	4.38409	184.666667	(450729820, anage)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1592	Pinicola enucleator	A	35	NA	NA	A	20	1.63688	57	(427444445977, anage)(lifehistory)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches. Oxford University Press: Oxford., parental)
1593	Pionites leucogaster	NA	NA	NA	NA	A	70	5.3872	155	(669820979, anage)(lifehistory)(Brightsmith DJ (1999) Cooperative breeding in parrots and introduction to the column Wild Science. Bird Talk October 1999: http://www.duke.edu/~djb4/ ., parental)
1594	Pionites melanocephalus	NA	NA	NA	NA	A	73	5.36648	149	(669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1595	Pionus menstruus	A	NA	NA	NA	A	57.5	5.9052	251	(669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1596	Pionus senilis	NA	NA	NA	NA	A	NA	6.217495319	209.9774198	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2155)
1597	Pipile pipile	NA	NA	NA	NA	P	NA	5.4908	1675	(lifehistory)(del Hoyo J (1994) Family Cracidae (Chachalacas, guans and curassows). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)

1598	Pipilo erythrophthalmus	A	38.5	NA	NA	A	11	1.40896	40.3	(444445580732, anage)(lifehistory)(Greenlaw JS (1996) Spotted towhee. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C. Greenlaw JS (1996) Eastern towhee. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1599	Pipra erythrocephala	A	NA	NA	NA	A	NA	0.50764	13.6	(lifehistory)(Snow DW (2004) Family Pipridae (Manakins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1600	Pipra fasciicauda	NA	NA	NA	NA	A	NA	0.64232	15.9	(lifehistory)(Snow DW (2004) Family Pipridae (Manakins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1601	Pipra mentalis	A	NA	NA	NA	A	NA	0.61124	14.925	(lifehistory)(Snow DW (2004) Family Pipridae (Manakins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1602	Pipra pipra	NA	NA	NA	NA	A	NA	0.515492329	11.92932912	(Snow DW (2004) Family Pipridae (Manakins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona.)(Sayol et al., 2156)
1603	Piranga ludoviciana	A	25.3	NA	NA	A	13	1.01528	30	(444445, anage)(lifehistory)(Hudon J (1999) Western tanager. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1604	Piranga rubra	A	30	NA	NA	A	10	1.05672	30	(427444445, anage)(lifehistory)(Robinson WD (1996) Summer tanager. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)

160	Pitangus sulphuratus	A	NA	NA	NA	A	15	1.3986	61.91666667	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Brush T, Fitzpatrick JW (2002) Great kiskadee. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
160	Pithys albifrons	NA	NA	NA	NA	A	NA	0.64232	19.5	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
160	Pitohui dichrous	NA	NA	NA	NA	A	NA	1.943260328	71.66482203	(Legge S, Heinsohn R (1996) Cooperative breeding in hooded pitohuis Pitohui dichrous. Emu 96: 139-140.)(Sayol et al., 2157)
160	Pitohui ferrugineus	NA	NA	NA	NA	A	NA	2.56928	90	(lifehistory)(Bell HL (1983) A bird community of lowland rainforest in New Guinea. 5. Mixed-species feeding flocks. Emu 82: 256-275., parental)
160	Pitta brachyura	A	20	NA	NA	A	15	1.44004	56.5	(lifehistory)(Lambert F, Woodcock M (1996) Pittas, broadbills and asities. Pica: Sussex. , parental)
161	Pitta erythrogaster	A	NA	NA	NA	NA	NA	0.95	75.1	(Lambert F, Woodcock M (1996) Pittas, broadbills and asities. Pica: Sussex. , parental)
161	Pitta guajana	NA	NA	NA	NA	NA	NA	1.42	75.75	(Lambert F, Woodcock M (1996) Pittas, broadbills and asities. Pica: Sussex. , parental)
161	Pitta maxima	NA	NA	NA	NA	A	NA	2.62108	190	(lifehistory)(Lambert F, Woodcock M (1996) Pittas, broadbills and asities. Pica: Sussex. , parental)
161	Pitta sordida	A	NA	NA	NA	A	NA	1.35716	64	(lifehistory)(Lambert F, Woodcock M (1996) Pittas, broadbills and asities. Pica: Sussex. , parental)
161	Pitta versicolor	A	30	NA	NA	A	16	1.93732	90.75	(lifehistory)(Lambert F, Woodcock M (1996) Pittas, broadbills and asities. Pica: Sussex. , parental)
161	Platalea ajaja	NA	NA	NA	NA	NA	52.5	11.3	1500	(61438444445, anage)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A,

										Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
161 6	Platalea alba	A	92	NA	NA	NA	35	10	1521	(649820, anage)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
161 7	Platalea flavipes	A	56	NA	NA	SP	28	11.52 032	1842. 5	(649820, anage)(lifehistory)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
161 8	Platalea leucorodia	A	NA	NA	NA	NA	47.5	10.8	1868	(649729732820, anage)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
161 9	Platalea regia	A	70	NA	NA	SP	47.5	11.44 2873 61	1788. 26293 4	(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona.)(Sayol et al., 2158)
162 0	Platycercus adscitus	A	49	NA	NA	A	35	3.170 16	116.45	(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
162 1	Platycercus caledonicus	A	49	NA	NA	A	35	3.558 66	130.1 75	(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
162 2	Platycercus elegans	A	61	NA	NA	A	35	4	129.7 5	(669820, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
162 3	Platycercus eximius	A	64	641879 038	Olowicz	A	35	3.118 36	104	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
162 4	Platycercus icterotis	A	51	NA	NA	A	30	2.465 68	62.25	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)

1625	Platycercus venustus	A	NA	NA	NA	A	49	2.65216	89.5	(669820, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
1626	Platyrinchus canrominus	NA	NA	NA	NA	A	NA	0.50764	9.25	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1627	Platyrinchus mystaceus	A	NA	NA	NA	A	NA	0.4144	9.36666667	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1628	Platysteira cyanea	A	NA	NA	NA	A	NA	0.81844	14.6	(lifehistory)(Urban EK, Fry CH, Keith S, eds. (1997) The birds of Africa Vol V.Academic Press: London., parental)
1629	Plectrophenax nivalis	A	25	NA	NA	A	13.5	1.05672	40.3333333	(427444445729732, anage)(lifehistory)(Cramp S, Perrins CM, eds. (1994b) The birds of the western Palearctic Vol. IX. Buntings and New World Warblers.Oxford University Press: Oxford., parental)
1630	Plectropterus gambensis	P	0	NA	NA	P	75	12.56668	4480	(575820, anage)(lifehistory)(Newman K (1982) Anatidae, swans, geese and ducks. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 220-293. Academic Press: London., parental)
1631	Plegadis chihi	A	54	NA	NA	SP	12	5.22144	583.75	(444445649, anage)(lifehistory)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
1632	Plegadis falcinellus	A	47.5	NA	NA	SP	42	5.30432	633.75	(444445649729, anage)(lifehistory)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)

1633	Plocepasser mahali	A	110	NA	NA	A	22	1.27428	42.775	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London. Lewis DM (1982) Cooperative breeding in a population of white-browed sparrow weavers Plocepasser mahali. Ibis 124: 511-522. Lewis DM (1981) Determinants of reproductive success of the white-browed sparrow weaver, Plocepasser mahali. Behavioral Ecology and Sociobiology 9: 83-93., parental)
1634	Ploceus cucullatus	A	NA	NA	NA	A	17.6	1.41932	37.55	(820985, anage)(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London. Din NA (1992) Pattern of nest destruction in two village weavers (Ploceus cucullatus and P. nigerrimus) at Ife, Nigeria. African Journal of Ecology 30: 261-268. Maclean GL (1993) Roberts' birds of southern Africa. Sixth edition. John Voelcker Bird Book Fund: Cape Town. , parental)
1635	Pluvialis apricaria	P	0	NA	NA	P	29	2.31028	213.25	(450729732820, anage)(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
1636	Pluvialis dominica	P	0	NA	NA	P	33	1.88552	151	(427444445537, anage)(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
1637	Pluvialis fulva	P	0	NA	NA	P	33	1.709784166	145.0386125	(427820977)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona.)(Sayol et al., 2159)
1638	Pluvialis squatarola	P	0	NA	NA	P	23	2.65216	224	(444445450729, anage)(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
1639	Podager nacunda	NA	NA	NA	NA	SP	NA	1.33644	159	(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
1640	Podargus strigoides	A	60	NA	NA	SA	31	5.03496	349	(lifehistory)(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)

164	Podiceps 1 auritus	P	26	NA	NA	P	57.75	2.517 48	420.5 83333	(444445450972, anage)(lifehistory)(Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. Stedman SJ (2000) Horned grebe. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
164	Podiceps 2 cristatus	P	71	NA	NA	P	75	3.221 96	739	(450729820, anage)(lifehistory)(NA, parental)
164	Podiceps 3 grisegena	P	51	NA	NA	P	66	4.185 44	946.5	(427444445, anage)(lifehistory)(Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. Stout BE, Nuechterlein GL (1999) Red-necked grebe. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
164	Podiceps 4 major	NA	NA	NA	NA	NA	NA	4.7	1646	(Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. , parental)
164	Podiceps 5 nigricollis	P	21	NA	NA	P	45	1.750 84	380	(444445450, anage)(lifehistory)(Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. Cullen SA, Jehl JR, Nuechterlein GL (1999) Eared grebe. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-27. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
164	Podilymbus 6 podiceps	P	51	NA	NA	P	0.1	3.273 76	440	(445, anage)(lifehistory)(Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. Forbes MRL (1987) Extrapair feeding in pied-billed grebes. Wilson Bulletin 99: 109-111. Muller MJ, Storer RW (1999) Pied-billed grebe. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
164	Podoces 7 hendersoni	NA	NA	NA	NA	A	NA	3.398 08	121.5	(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London. , parental)
164	Poecilodryas 8 albonotata	NA	NA	NA	NA	A	NA	1.346 3094 98	38.01 57291 8	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2160)

1649	Poecilodryas cerviniventris	NA	NA	NA	NA	A	NA	0.745550165	16.99637354	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne.)(Sayol et al., 2161)
1650	Poecilodryas placens	NA	NA	NA	NA	A	NA	1.015485826	26.60236176	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2162)
1651	Poecilodryas superciliosa	A	NA	NA	NA	A	NA	0.953483789	20.00535525	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne.)(Sayol et al., 2163)
1652	Poebroptera lugubris	NA	NA	NA	NA	A	NA	1.02564	39	(lifehistory)(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI. Academic Press: London. Feare C, Craig A (1998) Starlings and mynas. Christopher Helm: London. , parental)
1653	Poephila acuticauda	A	51.5	NA	NA	A	21	0.52836	14	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
1654	Poephila cincta	A	39	NA	NA	A	21.5	0.48692	14.95	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
1655	Poephila personata	A	52	NA	NA	A	21.5	0.518	13.375	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
1656	Pogoniulus scolopaceus	NA	NA	NA	NA	A	NA	0.45584	14.5	(lifehistory)(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
1657	Poicephalus cryptoxanthus	A	NA	NA	NA	NA	NA	NA	NA	NA
1658	Poicephalus gulielmi	NA	NA	NA	NA	A	66.5	6.0088	275	(669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III. Academic Press: London., parental)
1659	Poicephalus meyeri	A	NA	NA	NA	A	56	4.56876	116.75	(575820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M

										(1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III. Academic Press: London., parental)
1660	Poicephalus robustus	A	216.5	NA	NA	A	67	8.50556	320	(669820979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III. Academic Press: London., parental)
1661	Poicephalus senegalus	A	NA	NA	NA	A	63	4.87956	147	(669, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III. Academic Press: London., parental)
1662	Polemaetus bellicosus	A	280	NA	NA	NA	NA	NA	NA	NA
1663	Polhierax semitorquatus	A	60	350366578.6	Kverkova + sol	SA	30	1.52292	61.025	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. White CM, Olsen PD, Kiff LF (1994) Family Falconidae (Falcons and caracaras). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-277. Lynx Edicions: Barcelona. Spottiswoode C, Herrmann E, Rasa OAE, Sapsford CW (2004) Co-operative breeding in the pygmy falcon Polhierax semitorquatus. Ostrich 75: 322-324. Thomsett S (1991) Polyandrous pygmy falcons? Gabar 6: 73., parental)
1664	Poliocephalus poliocephalus	P	NA	NA	NA	P	NA	1.78192	240.5	(lifehistory)(Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. , parental)
1665	Polioptila caerulea	A	33	NA	NA	A	12.25	0.3108	6.125	(444445578, anage)(lifehistory)(Ellison WG (1992) Blue-gray gnatcatcher. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1666	Polioptila dumicola	NA	NA	NA	NA	NA	NA	0.43	7.325	(Ridgley RS, Tudor G (1989) The birds of South America. Vol. I. The oscine passerines. Oxford University Press: Oxford. , parental)

1667	Polyboroides radiatus	NA	NA	NA	NA	NA	NA	7.7	700	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
1668	Polyboroides typus	A	60	NA	NA	SA	52.5	8.288	637.5	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 294-436. Academic Press: London., parental)
1669	Polyplectron bicalcaratum	P	0	NA	NA	NA	NA	3.1	685	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1670	Polysticta stelleri	P	0	NA	NA	P	50	5.47008	842	(444445818, anage)(lifehistory)(Fredrickson LH (2001) Steller's eider. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1671	Polytelis alexandrae	A	77	NA	NA	A	38.5	2.67288	104.15	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
1672	Polytelis anthopeplus	A	77	NA	NA	A	42	3.9886	170	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
1673	Polytelis swainsonii	A	NA	NA	NA	A	37.5	3.4706	153	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
1674	Pomatorhinus ruficollis	A	NA	NA	NA	A	NA	1.58508	30.5	(lifehistory)(Ali S, Ripley SD (1971) Handbook of the birds of India and Pakistan. Vol. 6.

										Cuckoo-shrikes to babaxes. Oxford University Press: Bombay. , parental)
1675	Pomatostomus halli	A	NA	NA	NA	A	NA	1.6576	41.8	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1676	Pomatostomus isidorei	NA	NA	NA	NA	A	NA	2.25848	70	(lifehistory)(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland. , parental)
1677	Pomatostomus ruficeps	A	NA	NA	NA	A	NA	2.4346	57.8	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1678	Pomatostomus superciliosus	A	123.5	NA	NA	A	NA	1.57472	43.2	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1679	Pomatostomus temporalis	A	126	NA	NA	A	21	1.9684	71	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1680	Poocetes gramineus	A	34.5	NA	NA	A	9.25	0.8133182	25.99749013	(425444445577732000)(Jones SL, Cornely JE (2002) Vesper sparrow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C.)(Sayol et al., 2164)
1681	Poospiza nigrorufa	NA	NA	NA	NA	A	NA	0.7252	17.4	(lifehistory)(Fjelds_ J, Krabbe N (1990) Birds of the high Andes. University of Copenhagen and Apollo Books: Svenborg. , parental)
1682	Porphyrio hochstetteri	P	120	NA	NA	NA	NA	NA	NA	NA
1683	Porphyrio martinica	NA	NA	NA	NA	P	2.5	2.55892	236	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
1684	Porphyrio porphyrio	P	45	NA	NA	P	60	4.8692	850	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
1685	Porzana atra	NA	NA	NA	NA	P	NA	1.31572	77.5	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)

168	Porzana carolina	P	17.5	NA	NA	P	36	1.20176	79.65	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
168	Porzana fluminea	P	NA	NA	NA	P	NA	1.06708	61.975	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
168	Porzana porzana	P	NA	NA	NA	NA	35	1.2	87.1	(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
168	Porzana pusilla	P	5	NA	NA	NA	NA	NA	NA	NA
169	Primolius auricollis	NA	NA	NA	NA	A	84	7.80108	228.835	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
169	Prinia leucopogon	NA	NA	NA	NA	A	NA	0.61124	12	(lifehistory)(Urban EK, Fry CH, Keith S, eds. (1997) The birds of Africa Vol V.Academic Press: London., parental)
169	Prioniturus platurus	NA	NA	NA	NA	A	NA	4.93136	66.3	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
169	Prionochilus plateni	NA	NA	NA	NA	A	NA	0.4144	8.5	(lifehistory)(Cheke RA, Mann CF, Allen R (2001) Sunbirds: a guide to the sunbirds, flowerpeckers, spiderhunters and sugarbirds of the world. Christopher Helm: London. , parental)
169	Prionodura newtoniana	A	NA	NA	NA	NA	NA	NA	NA	NA
169	Prionops plumatus	A	90	NA	NA	A	18	1.20176	33.25	(lifehistory)(Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. , parental)
169	Priotelus roseigaster	NA	NA	NA	NA	A	NA	1.35716	74.2	(lifehistory)(Collar NJ (2001) Family Trogonidae (Trogons). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona., parental)
169	Priotelus temnurus	NA	NA	NA	NA	A	NA	1.20176	53.4	(lifehistory)(Collar NJ (2001) Family Trogonidae (Trogons). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J,

										Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona., parental)
1698	Probosciger aterrimus	A	102	NA	NA	A	105	21.23 8	841	(669820, anage)(lifehistory)(Rowley I (1997) Family Cacatuidae (Cockatoos). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 246-279. Lynx edicions: Barcelona., parental)
1699	Procellaria aequinoctialis	A	97	NA	NA	SP	95	9.313 64	1300	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
1700	Procellaria cinerea	A	142.5	NA	NA	SP	120	8.795 64	1131	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
1701	Procelsterna cerulea	P	NA	NA	NA	SP	NA	1.160 32	53	(427820, anage)(lifehistory)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona., parental)
1702	Progne subis	A	37	NA	NA	A	28	1.067 08	51.45	(4444455797321140, anage)(lifehistory)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona. Brown CR (1997) Purple martin. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1703	Prosopiea personata	NA	NA	NA	NA	NA	NA	5.1	420	(669, anage)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1704	Protonotaria citrea	A	45	NA	NA	A	11.25	0.611 24	14.95	(427435444445820, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
1705	Prunella modularis	A	24	NA	NA	A	12.5	0.808 08	20.2	(450510729820, anage)(lifehistory)(Hatchwell BJ (2005) Family Prunellidae (Accentors). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J,

										Elliott A, Christie D) p. 496-513. Lynx edicions: Barcelona., parental)
1706	<i>Psaltriparus minimus</i>	A	32	NA	NA	A	18	0.3626	5.3	(427435444445820, anage)(lifehistory)(Sloane SA (2001) Bushtit: <i>Psaltriparus minimus</i> . in <i>Birds of North America: Life Histories for the Twenty-First Century</i> . (ed. Poole A, Stettenheim P, Gill F) p. 1-19. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1707	<i>Psarocolius montezuma</i>	A	78	NA	NA	A	30	6.10204	285.05	(lifehistory)(Jaramillo A, Burke P (1999) <i>New world blackbirds: the icterids</i> . Christopher Helm: London. , parental)
1708	<i>Psephotus chrysopterygius</i>	A	56	NA	NA	A	28	1.4504	44.425	(lifehistory)(Higgins PJ, ed. (1999) <i>Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird</i> .Oxford University Press: Melbourne., parental)
1709	<i>Psephotus dissimilis</i>	A	49	NA	NA	A	28	1.80264	46.8	(669, anage)(lifehistory)(Higgins PJ, ed. (1999) <i>Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird</i> .Oxford University Press: Melbourne., parental)
1710	<i>Psephotus haematonotus</i>	A	43	NA	NA	A	31	2.04092	61.4	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) <i>Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird</i> .Oxford University Press: Melbourne., parental)
1711	<i>Psephotus varius</i>	A	49	NA	NA	A	28	1.85444	61.15	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) <i>Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird</i> .Oxford University Press: Melbourne., parental)
1712	<i>Pseudeos fuscata</i>	A	NA	NA	NA	NA	NA	4.2	149	(669820979, anage)(Collar NJ (1997) <i>Family Psittacidae (Parrots)</i> . in <i>Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos</i> . (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) <i>Parrots: a guide to the parrots of the world</i> . Pica Press: Sussex. , parental)
1713	<i>Pseudibis papillosa</i>	NA	NA	NA	NA	NA	NA	9	1470	(649, anage)(Matheu E, del Hoyo J (1992) <i>Family Threskiornithidae (Ibises and spoonbills)</i> . in <i>Handbook of the birds of the world. Vol. 1. Ostrich to ducks</i> . (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
1714	<i>Pseudocolaptes flaviventris</i>	NA	NA	NA	NA	A	NA	0.35224	7.5	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) <i>Family Tyrannidae (Tyrant-flycatchers)</i> . in <i>Handbook of</i>

											the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1715	Pseudoleistes virescens	NA	NA	NA	NA	A	NA	2.08236	79.95		(lifehistory)(Orians GH, Orians CE, Orians KJ (1977) Helpers at the nest in some Argentine blackbirds. in Evolutionary Ecology. (ed. Stonehouse B, Perrins CM) p. 137-151. University Park Press: Baltimore., parental)
1716	Pseudoscops clamator	A	117.5	NA	NA	NA	NA	6.4	445.5		(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1717	Pseudotriccus pelzelni	NA	NA	NA	NA	A	NA	0.66304	10.9		(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1718	Psilopogon pyrolophus	NA	NA	NA	NA	A	42	2.28956	130.5		(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
1719	Psittacula alexandri	NA	NA	NA	NA	A	51	4.3512	148.75		(669820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1720	Psittacula columboides	NA	NA	NA	NA	A	49	3.55348	85.5		(669, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1721	Psittacula cyanocephala	A	NA	NA	NA	NA	42	2.3	66		(669820979, anage)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
1722	Psittacula eupatria	A	NA	1096257549	Ołowicz	A	49	5.73944	239		(669979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos.

										(ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)	
172 3	Psittacula krameri	A	63	NA	NA	A	45.5	4	4.040	127.2 5	(575669979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
172 4	Psittaculirostris edwardsii	NA	NA	NA	NA	A	56	3.367		118	(669979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
172 5	Psittacus erithacus	A	174	156592 6715	Olowicz	A	70	9.510 48		333	(575669732820821000, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. Fry CH, Keith S, Urban EK, eds. (1988) The Birds of Africa Vol III. Academic Press: London., parental)
172 6	Psitteuteles versicolor	A	53	NA	NA	A	41	2.072		53.5	(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird. Oxford University Press: Melbourne., parental)
172 7	Psophia crepitans	NA	NA	NA	NA	P	NA	6.060 6		1057. 75	(lifehistory)(Sherman PT (1996) Family Psophiidae (Trumpeters). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 96-107. Lynx edicions: Barcelona., parental)
172 8	Psophia leucoptera	P	85	NA	NA	NA	NA	5.2		1256	(Sherman PT (1996) Family Psophiidae (Trumpeters). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 96-107. Lynx edicions: Barcelona., parental)
172 9	Psophodes cristatus	NA	NA	NA	NA	A	NA	1.449 7152 3		38.51 31599 6	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird. Oxford University Press: Melbourne.)(Sayol et al., 2165)
173 0	Psophodes occidentalis	NA	NA	NA	NA	A	NA	1.377 88		39.8	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to

										Figbird.Oxford University Press: Melbourne., parental)
173	Psophodes olivaceus	A	31	NA	NA	A	12	2.262 2664 03	62.74 00500 2	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne. Rogers AC, Mulder RA (2004) Breeding ecology and social biology of an antiphonal duetter, the eastern whiplbird (Psophodes olivaceus). Australian Journal of Zoology 52: 417-435.)(Sayol et al., 2166)
173	Pterocles bicinctus	P	0	NA	NA	P	NA	1.564 36	237	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
173	Pterocles coronatus	NA	NA	NA	NA	NA	NA	1.4	300	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
173	Pterocles decoratus	P	0	NA	NA	P	NA	1.357 16	182.5	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
173	Pterocles exustus	NA	NA	NA	NA	NA	NA	1.4	192	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
173	Pterocles gutturalis	NA	NA	NA	NA	NA	NA	1.5	339	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
173	Pterocles orientalis	NA	NA	NA	NA	NA	25	2.4	405.5	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
173	Pterodroma hasitata	NA	NA	NA	NA	NA	NA	6	278	(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
173	Pterodroma lessonii	A	102	NA	NA	SP	103.5	6.081 32	708	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
174	Pterodroma leucoptera	A	80.5	NA	NA	SP	80.5	2.569 28	147.5	(1820, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
174	Pterodroma macroptera	A	125	NA	NA	SP	124.5	5.055 68	578.5	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1.

										Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
174	Pteroglossus									(lifehistory)(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
2	aracari	NA	NA	NA	NA	A	40	3.605	261.7	
174	Pteroglossus									(lifehistory)(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
3	bailloni	A	NA	NA	NA	A	NA	3.045	147.7	
174	Pteroglossus									(lifehistory)(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
4	castanotis	NA	NA	NA	NA	A	NA	3.905	258.1	
174	Pteroglossus									(lifehistory)(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
5	inscriptus	NA	NA	NA	NA	A	NA	2.59	134.2	
174	Pteroglossus									(lifehistory)(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
6	torquatus	NA	NA	NA	NA	A	44	3.626	193.7	
174	Pteronetta									(lifehistory)(Newman K (1982) Anatidae, swans, geese and ducks. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 220-293. Academic Press: London., parental)
7	hartlaubii	P	0	NA	NA	P	56	5.936	882	
174	Pteruthius									(lifehistory)(Ali S, Ripley SD (1972) Handbook of the birds of India and Pakistan. Vol. 7. Laughing thrushes to the mangrove whistler. Oxford University Press: Bombay. , parental)
8	flaviscapis	NA	NA	NA	NA	A	NA	1.554	39	
174	Ptilinopus									(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2167)
9	insularis	NA	NA	NA	NA	A	NA	1.108	102.5	
174	Ptilinopus									(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2168)
175	Ptilinopus									
10	leclancheri	NA	NA	NA	NA	A	NA	1.649	189.4	
								8984	26294	
								6	1	
								3267	2	

175 1	Ptilinopus magnificus	NA	NA	NA	NA	A	7	2.248 12	190.5	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
175 2	Ptilinopus monacha	NA	NA	NA	NA	A	NA	0.942 76	85.9	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
175 3	Ptilinopus occipitalis	NA	NA	NA	NA	A	NA	2.175 7363 17	209.9 77419 8	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2169)
175 4	Ptilinopus ornatus	NA	NA	NA	NA	A	NA	1.761 8548 46	148.5 61646 5	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2170)
175 5	Ptilinopus porphyraceu s	NA	NA	NA	NA	A	NA	1.346 3094 98	118.98 53052	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2171)
175 6	Ptilinopus pulchellus	NA	NA	NA	NA	A	NA	1.025 64	73	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)

1757	Ptilinopus regina	A	NA	NA	NA	A	12	1.25356	99.275	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1758	Ptilinopus rivoli	NA	NA	NA	NA	A	NA	1.5022	149	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1759	Ptilinopus superbus	A	NA	NA	NA	A	7	1.12924	117.75	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1760	Ptilonorhynchus violaceus	A	78	NA	NA	A	19.5	4.88992	213	(lifehistory)(Frith CB, Frith DW (2004) The bowerbirds Ptilonorhynchidae. Oxford University Press: Oxford. , parental)
1761	Ptiloprora guisei	NA	NA	NA	NA	A	NA	0.944940935	22.69171773	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2172)
1762	Ptiloris magnificus	NA	NA	NA	NA	A	NA	2.901904205	163.0407224	(Frith CB, Beehler BM (1998) The Birds of Paradise: Paradisaeidae. Oxford University Press: Oxford.)(Sayol et al., 2173)
1763	Ptiloris paradiseus	NA	NA	NA	NA	A	28	2.88008	105	(lifehistory)(Frith CB, Beehler BM (1998) The Birds of Paradise: Paradisaeidae. Oxford University Press: Oxford. , parental)
1764	Ptiloris victoriae	A	89	NA	NA	A	14	2.63144	86.5	(lifehistory)(Frith CB, Beehler BM (1998) The Birds of Paradise: Paradisaeidae. Oxford University Press: Oxford. , parental)
1765	Ptychoramphus aleuticus	P	43	NA	NA	SP	43.5	2.13416	184	(427820977, anage)(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
1766	Pucrasia macrolopha	P	0	NA	NA	NA	NA	3.459	1177.5	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)

176	Puffinus									(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
7	gavia	A	NA	NA	NA	SP	NA	3.025	229.2	
176	Puffinus									(952, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
8	griseus	A	96	NA	NA	SP	97	5.501	16	787
176	Puffinus									(427445732, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
9	pacificus	A	105.5	NA	NA	SP	107.5	4.112	92	393
177	Puffinus									(4449721143, anage)(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
0	tenuirostris	A	94	NA	NA	SP	94	4.662		543
177	Pulsatrix									(448, anage)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1	perspicillata	A	403	NA	NA	NA	NA	10.5		861.5
177	Purpureiceph									(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
2	alus spurius	A	51	NA	NA	A	35	3.615	115.62	64
177	Pycnonotus									(lifehistory)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes.Oxford University Press: Oxford. Fishpool LDC, Tobias JA (2005) Family Pycnonotidae (Bulbuls). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 124-250. Lynx edicions: Barcelona., parental)
3	barbatus	A	34.5	NA	NA	A	NA	1.201	34.46	66666
177	Pycnonotus									(445, anage)(lifehistory)(Fishpool LDC, Tobias JA (2005) Family Pycnonotidae (Bulbuls). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 124-250. Lynx edicions: Barcelona., parental)
4	jocosus	A	52	NA	NA	A	13	0.963	48	27.7
177	Pycnoptilus									(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2174)
5	floccosus	A	36.5	NA	NA	A	NA	1.225	31.18	5223
										69581

1776	Pygochelidon cyanoleuca	A	NA	NA	NA	A	26.5	0.44548	10.51666667	(lifehistory)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona., parental)
1777	Pygoscelis adeliae	A	50	NA	NA	SA	51	20.36776	4850	(lifehistory)(Tamiya Y, Aoyanagi M (1982) The significance of reoccupation by non-breeding birds in the Adelie penguin Pygoscelis adeliae during their incubation, guard and creche periods. Journal of the Yamashina Institute for Ornithology 14: 35-44., parental)
1778	Pygoscelis papua	A	118.5	NA	NA	NA	82.5	18.5	5950	(820993, anage)(Williams TD (1995) The Penguins: Spheniscidae. Oxford University Press: Oxford. , parental)
1779	Pyrenestes sanguineus	A	34	NA	NA	NA	24	0.97	19.5	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
1780	Pyriglena leuconota	NA	NA	NA	NA	A	NA	0.96348	32.075	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
1781	Pyrilia caica	NA	NA	NA	NA	A	NA	3.470737626	135.7751217	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2175)
1782	Pyrilia haematotis	NA	NA	NA	NA	A	NA	3.831924448	146.4962748	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2176)
1783	Pyrocephalus rubinus	A	NA	NA	NA	A	15	0.47656	14.025	(444445577, anage)(lifehistory)(Mezquida ET (2002) Nidificaci3n de ocho especies de Tyrannidae en La Reserva de acu____, Mendoza, Argentina. Hornero 17: 31-40. Wolf BO, Jones SL (2000) Vermilion flycatcher. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-16. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1784	Pyroderus scutatus	A	NA	NA	NA	NA	NA	4.45	357	(Snow DW (2004) Family Cotingidae (Cotingas). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J,

										Elliott A, Christie D) p. 32-109. Lynx edicions: Barcelona., parental)
1785	Pyrrhocorax graculus	A	67	NA	NA	NA	31.5	3.2	223.5	(450729820, anage)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London., parental)
1786	Pyrrhocorax pyrrhocorax	A	59.5	NA	NA	A	35	6.60968	247.75	(575729732801820, anage)(lifehistory)(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London., parental)
1787	Pyrrholaemus brunneus	NA	NA	NA	NA	A	NA	0.569707131	11.49600979	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2177)
1788	Pyrrhula pyrrhula	A	50	NA	NA	NA	15	0.97	25.7	(729820, anage)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
1789	Pyrrhura frontalis	NA	NA	NA	NA	A	45	2.91116	80.26	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex., parental)
1790	Pyrrhura melanura	NA	NA	NA	NA	A	49	3.39808	70.6	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex., parental)
1791	Pyrrhura perlata	NA	NA	NA	NA	A	54.3	3.0044	84.63	(669979, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex., parental)
1792	Pyrrhura picta	NA	NA	NA	NA	A	50	2.5382	63.05	(lifehistory)(Brightsmith DJ (2005) Parrot nesting in southeastern Peru: seasonal patterns and keystone trees. Wilson Bulletin 117: 296-305., parental)
1793	Pytilia hypogrammica	NA	NA	NA	NA	NA	16.5	0.5055	14.475	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
1794	Pytilia melba	A	33.4	NA	NA	A	21	0.59052	15.425	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)

179	Pytilia phoenicoptera	NA	NA	NA	NA	NA	21	0.37	14.45	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings. Christopher Helm: London., parental)
179	Querula purpurata	NA	NA	NA	NA	A	32.5	2.206 68	105.0 5	(lifehistory)(Snow DW (2004) Family Cotingidae (Cotingas). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 32-109. Lynx edicions: Barcelona., parental)
179	Quiscalus major	A	34.5	NA	NA	A	21.5	2.880 08	166	(427444445732, anage)(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
179	Quiscalus mexicanus	A	43	NA	NA	A	21.5	3.066 56	168.7	(444445580732, anage)(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
179	Quiscalus quiscula	A	55.5	NA	NA	A	15	2.683 24	111	(427444445, anage)(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
180	Rallina eurizonoides	NA	NA	NA	NA	P	NA	1.771 56	108.5	(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
180	Rallus aquaticus	P	57.5	NA	NA	P	52.5	1.792 28	115.5	(450729732820, anage)(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
180	Rallus longirostris	P	43	NA	NA	P	64.75	2.476 04	294.8 33333 4	(444445576, anage)(lifehistory)(Taylor B, von Perlo B (1998) Rails: a guide to the rails, crakes, gallinules and coots of the world. Pica Press: Sussex. , parental)
180	Ramphastos sulfuratus	A	NA	NA	NA	A	47	5.034 96	430	(lifehistory)(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
180	Ramphastos toco	A	54.5	NA	NA	NA	NA	6.3	618	(986, anage)(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
180	Ramphastos tucanus	NA	NA	NA	NA	A	48.5	6.195 28	688.5	(lifehistory)(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
180	Ramphastos vitellinus	A	60	NA	NA	A	46.8	4.983 16	361.5	(lifehistory)(Short LL, Horne JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
180	Ramphocaea melanurus	NA	NA	NA	NA	A	11.5	0.528 36	9.7	(lifehistory)(Skutch AF (1960) Life histories of Central American Birds II Families Vireonidae, Sylviidae, Turdidae, Troglodytidae, Paridae,

										Corvidae, Hirundinidae and Tyrannidae. Cooper Ornithological Society: Berkeley. , parental)
1808	Ramphocelus flammigerus	NA	NA	NA	NA	A	13	1.23284	33	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
1809	Ramsayornis modestus	A	22.7	NA	NA	A	12.7	0.52836	11.25	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)
1810	Recurvirostra americana	P	0	NA	NA	P	31.5	2.1756	309.25	(427444445, anage)(lifehistory)(Pierce RJ (1996) Family Recurvirostridae (Stilts and Avocets). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 332-347. Lynx edicions: Barcelona., parental)
1811	Recurvirostra avosetta	P	0	NA	NA	NA	38.5	2	304	(450729732820, anage)(Pierce RJ (1996) Family Recurvirostridae (Stilts and Avocets). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 332-347. Lynx edicions: Barcelona., parental)
1812	Recurvirostra novaehollandiae	P	0	NA	NA	P	0.1	2.06164	324.675	(lifehistory)(Pierce RJ (1996) Family Recurvirostridae (Stilts and Avocets). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 332-347. Lynx edicions: Barcelona., parental)
1813	Regulus calendula	A	26	NA	NA	A	12	0.32116	6.575	(614444445578, anage)(lifehistory)(Ingold JL, Wallace GE (1994) Ruby-crowned kinglet. Regulus calendula. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1814	Regulus regulus	A	33	163873739	Olowicz	NA	17.5	0.3751	5.6	(510729732820, anage)(Cramp S, ed. (1992) The birds of the western Palearctic Vol. VI. Warblers.Oxford University Press: Oxford., parental)
1815	Regulus satrapa	A	35	NA	NA	A	18.5	0.37296	6.10333333	(427444445977, anage)(lifehistory)(Ingold JL, Galati R (1997) Golden-crowned kinglet. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)

1816	Reinwardtona browni	NA	NA	NA	NA	A	NA	2.175736317	315.1346475	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2178)
1817	Rhea americana	P	0	1030403169	Kverkova + sol	P	0.1	19.55968	23000	(8209951142, anage)(lifehistory)(Codenotti TL, Alvarez F (1997) Cooperative breeding between males in the greater rhea Rhea americana. Ibis 139: 568-571. Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
1818	Rhea pennata	P	0	NA	NA	NA	NA	19.2	21500	(Davies SJJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
1819	Rhinocrypta lanceolata	NA	NA	NA	NA	A	26	1.4504	61.125	(lifehistory)(Krabbe NK, Schulenberg TS (2003) Family Rhinocryptidae (Tapaculos). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 748-788. Lynx edicions: Barcelona., parental)
1820	Rhinomyias gularis	NA	NA	NA	NA	A	NA	1.0878	25.3	(lifehistory)(Smythies BE, Davidson GWH (1999) Birds of Borneo 4th ed. Natural History Publications: Kinabalu. , parental)
1821	Rhinopomastus cyanomelas	A	52.5	NA	NA	NA	NA	NA	NA	NA
1822	Rhinopomastus minor	A	NA	NA	NA	NA	NA	NA	NA	NA
1823	Rhinoptilus chalcopterus	P	NA	NA	NA	NA	NA	1.5	153.1	(Maclean GL (1996) Family Glareolidae (Coursers and pratincoles). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 364-383. Lynx edicions: Barcelona., parental)
1824	Rhipidura atra	NA	NA	NA	NA	A	NA	0.590590228	10.49606054	(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland.)(Sayol et al., 2179)
1825	Rhipidura fuliginosa	A	25	NA	NA	A	11	0.35224	7.75	(lifehistory)(Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde. , parental)
1826	Rhipidura leucophrys	A	30.5	NA	NA	A	13.2	0.60088	27	(lifehistory)(Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde. , parental)

1827	Rhipidura rufifrons	A	28.5	NA	NA	A	NA	0.37296	10.2	(lifehistory)(Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde. , parental)
1828	Rhipidura rufiventris	NA	NA	NA	NA	A	NA	0.5698	12.5	(lifehistory)(Boles WE (1988) The robins and flycatchers of Australia. Angus & Robertson: North Ryde. , parental)
1829	Rhodinocichla rosea	NA	NA	NA	NA	A	NA	1.3986	48	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
1830	Rhodospingus cruentus	NA	NA	NA	NA	A	NA	0.53872	11.6	(lifehistory)(Marchant S (1960) The breeding of some S.W. Ecuadorian birds. Ibis 102: 349-382, 584-599., parental)
1831	Rhodostethia rosea	P	NA	NA	NA	SP	21	2.2274	187	(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
1832	Rhyacornis fuliginosa	A	NA	NA	NA	NA	NA	NA	NA	NA
1833	Rhynchopsitta pachyrhyncha	A	182	NA	NA	NA	NA	NA	NA	NA
1834	Rhynchotus rufescens	P	0	NA	NA	P	NA	3.79176	810	(lifehistory)(Davies SJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
1835	Rhynchoceros jubatus	P	107	NA	NA	NA	NA	NA	NA	NA
1836	Riparia riparia	A	26.7	NA	NA	A	18	0.42476	13.4	(444445450510729000, anage)(lifehistory)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona. Garrison BA (1999) Bank swallow Riparia riparia. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-27. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1837	Rissa brevirostris	P	61	NA	NA	NA	NA	NA	NA	NA
1838	Rissa tridactyla	P	62.5	NA	NA	SP	42.7	4.46516	407.75	(5.74444454507297E+23, anage)(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del

											Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
1839	Rollandia rolland	NA	NA	NA	NA	P	NA	2.05128	248.5		(lifehistory)(Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. , parental)
1840	Rollulus rouloul	P	0	NA	NA	P	0.1	1.9166	224.5		(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1841	Rostratula benghalensis	P	3	NA	NA	P	0.1	1.47112	127		(lifehistory)(Kirwan GM (1996) Family Rostratulidae (Painted-snipes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 292-301. Lynx edicions: Barcelona., parental)
1842	Rostrhamus sociabilis	A	48.5	NA	NA	SA	30	5.27324	382.583333		(1,61,444,445,1143, anage)(lifehistory)(Sykes PW, Rodgers JA, Bennetts RE (1995) Snail kite. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1843	Rupicola peruvianus	A	49	NA	NA	A	43	3.48096	254.083333		(lifehistory)(Snow DW (2004) Family Cotingidae (Cotingas). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 32-109. Lynx edicions: Barcelona., parental)
1844	Rynchops niger	P	43	NA	NA	SP	35	2.73504	299.5		(427445732, anage)(lifehistory)(Zusi RL (1996) Family Rynchopidae (Skimmers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 668-677. Lynx edicions: Barcelona., parental)
1845	Sagittarius serpentarius	A	183	NA	NA	SA	83.5	15.54	3900		(lifehistory)(Kemp AC (1994) Family Sagittaridae (Secretarybird). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 206-215. Lynx edicions: Barcelona., parental)
1846	Sakesphorus luctuosus	NA	NA	NA	NA	A	NA	1.1914	31.2		(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
1847	Salpinctes obsoletus	A	20.4	NA	NA	A	15	0.777	16.5		(lifehistory)(Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsma DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona. Lowther PE, Kroodsma DE, Farley GH (2000) Rock wren. in Birds of North America: Life Histories for the

										Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1848	Saltator maximus	A	54	NA	NA	A	14	1.44004	46.6	(lifehistory)(Hilty SL (2003) Birds of Venezuela. Princeton University Press: Princeton. Skutch AF (1954) Life histories of Central American Birds I Families Fringillidae, Thraupidae, Icteridae, Parulidae and Corebidae. Cooper Ornithological Society: Berkeley. , parental)
1849	Sarcops calvus	NA	NA	NA	NA	A	NA	2.9008	142	(lifehistory)(Feare C, Craig A (1998) Starlings and mynas. Christopher Helm: London. , parental)
1850	Sarcoramphus papa	A	NA	NA	NA	SA	85	19.22816	3402.5	(1444732, anage)(lifehistory)(Houston DC (1994) Family Cathartidae (New World vultures). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 24-41. Lynx edicions: Barcelona., parental)
1851	Sarkidiornis melanotos	P	0	NA	NA	P	70	7.24164	2043	(lifehistory)(Newman K (1982) Anatidae, swans, geese and ducks. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 220-293. Academic Press: London., parental)
1852	Sasia abnormis	A	NA	NA	NA	A	NA	0.60088	9.6	(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1853	Saxicola rubetra	A	30	NA	NA	NA	18	0.58	16.6	(450729732820, anage)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes.Oxford University Press: Oxford. Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
1854	Saxicola torquatus	A	27	NA	NA	A	14	0.63196	14.7	(450729732820, anage)(lifehistory)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes.Oxford University Press: Oxford. Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
1855	Sayornis nigricans	A	28.5	NA	NA	A	21	0.50764	18.25	(445577, anage)(lifehistory)(Wolf BO (1997) Black phoebe. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural

										Sciences, Philadelphia: Washington, D.C., parental)
1856	Sayornis phoebe	A	34	NA	NA	A	16	0.61124	19.7	(61435444445820, anage)(lifehistory)(Hams MJ (1994) Eastern phoebe. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1857	Sayornis saya	A	NA	NA	NA	A	15	0.63196	21	(445, anage)(lifehistory)(Schukman JM, Wolf BO (1998) Say's phoebe. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1858	Scenopoeetes dentirostris	A	86	NA	NA	A	NA	3.626859578	146.0574445	(Frith CB, Frith DW (2004) The bowerbirds Ptilonorhynchidae. Oxford University Press: Oxford.)(Sayol et al., 2180)
1859	Schiffornis turdina	NA	NA	NA	NA	A	20	1.10852	31.65	(lifehistory)(Snow DW (2004) Family Pipridae (Manakins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
1860	Schistochlamys melanopis	NA	NA	NA	NA	A	NA	1.26392	33.75	(lifehistory)(Hilty SL (2003) Birds of Venezuela. Princeton University Press: Princeton. , parental)
1861	Schistocichla leucostigma	NA	NA	NA	NA	A	NA	1.01528	25.425	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
1862	Sclerurus mexicanus	NA	NA	NA	NA	A	15	0.81844	24.725	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
1863	Scolopax minor	P	0	NA	NA	P	14.5	2.09272	196.25	(42743543744445000, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1864	Scolopax rusticola	P	0	NA	NA	NA	17.5	2.53	309.5	(450510729820, anage)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A,

											Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
186	Scopus 5 umbretta	NA	NA	NA	NA	SA	50	4.403	423		(lifehistory)(Gentis S (1976) Cooperative nest building in hamerkops. Honeyguide 88: 48. Elliott A (1992) Family Scopidae (Hamerkop). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 430-435. Lynx edicions: Barcelona., parental)
186	Scytalopus 6 unicolor	NA	NA	NA	NA	A	NA	0.932 7362 05	17.49 64849 4		(Krabbe NK, Schulenberg TS (2003) Family Rhinocryptidae (Tapaculos). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 748-788. Lynx edicions: Barcelona.)(Sayol et al., 2181)
186	Scythrops 7 novaeolland iaie	A	50.5	NA	NA	A	NA	5.542 0648 27	765.0 94993		(Payne RB (2005) The cuckoos. Oxford University Press: Oxford.)(Sayol et al., 2182)
186	Seiurus 8 aurocapilla	A	31	NA	NA	A	9.25	0.725 2	19.4		(425427444445732000, anage)(lifehistory)(King DI, Champlin TB, Champlin PJ (2000) An observation of cooperative breeding in the ovenbird. Wilson Bulletin 112: 287-288., parental)
186	Selasphorus 9 rufus	A	NA	NA	NA	A	20	0.165 76	3.5		(425427444445732, anage)(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
187	Selenidera 0 maculirostris	NA	NA	NA	NA	A	NA	3.014 76	164.2 5		(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
187	Seleucidis 1 melanoleucus	NA	NA	NA	NA	A	21	3.532 76	166		(lifehistory)(Frith CB, Beehler BM (1998) The Birds of Paradise: Paradisaeidae. Oxford University Press: Oxford. , parental)
187	Semnornis 2 ramphastinus	NA	NA	NA	NA	A	44.5	1.978 76	98.1		(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. Restrepo C, Mondragon ML (1998) Cooperative breeding in the frugivorous toucan barbet (Semnornis ramphastinus). Auk 115: 4-15., parental)
187	Sericornis 3 citreogularis	A	67	NA	NA	A	NA	0.818 44	17.4		(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)

1874	Sericornis frontalis	A	65	NA	NA	A	13	0.833 9074 48	13.19 71381 6	(820958)(Magrath RD, Whittingham LA (1997) Subordinate males are more likely to help if unrelated to the breeding female in cooperatively breeding white-browed scrubwrens. Behavioral Ecology and Sociobiology 41: 185-192. Magrath RD, Leedman AW, Gardner JL, Giannasca A, Nathan AC, Yezerinac SM, Nicholls JA (2000) Life in the slow lane: reproductive life history of the white-browed scrubwren, an Australian endemic. Auk 117: 479-489.)(Sayol et al., 2183)
1875	Sericornis magnirostra	NA	NA	NA	NA	A	NA	0.621 6	9.75	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
1876	Sericornis perspicillatus	NA	NA	NA	NA	A	NA	0.569 7071 31	8.499 43762 9	(Nicholls JA, Double MC, Rowell DM, Magrath RD (2000) The evolution of cooperative and pair breeding in thornbills Acanthiza (Pardalotidae). Journal of Avian Biology 31: 165-176.)(Sayol et al., 2184)
1877	Sericulus chrysocephalus	A	77	NA	NA	A	20.5	3.460 24	100	(lifehistory)(Frith CB, Frith DW (2004) The bowerbirds Ptilonorhynchidae. Oxford University Press: Oxford. , parental)
1878	Serinus burtoni	NA	NA	NA	NA	NA	NA	1.21	30.5	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
1879	Serinus canaria	A	NA	NA	NA	NA	14	0.57	21	(1,62,403,405,425,820, anage)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
1880	Serinus flaviventris	A	NA	NA	NA	A	NA	0.745 92	15.55	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
1881	Serinus serinus	A	24.2	NA	NA	NA	NA	0.48	11.95	(450729732820, anage)(Cramp S, Perrins CM, eds. (1994) The birds of the western Palearctic Vol. VIII. Crows to finches.Oxford University Press: Oxford., parental)
1882	Setophaga ruticilla	A	30	NA	NA	A	8.5	0.372 96	8.35	(427444445732, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
1883	Sialia mexicana	A	36	NA	NA	A	21	0.870 24	27.05	(427435437445732000, anage)(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona. Dickinson JL, Akre JJ (1998) Extrapair paternity, inclusive fitness, and within-group benefits of helping in western

										bluebirds. Molecular Ecology 7: 95-105. Dickinson JL, Koenig WD, Pitelka FA (1996) Fitness consequences of helping behavior in the western bluebird. Behavioral Ecology 7: 168-177., parental)		
188	4	<i>Sialia sialis</i>	A	43	NA	NA	A	18.15	64	29.65	(61427437444445700, anage)(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona. Gowaty PA, Plissner JH (1998) Eastern bluebird <i>Sialia sialis</i> . in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)	
188	5	<i>Sicalis flaveola</i>	A	NA	NA	NA	A	12.5	0.725	2	17.92	(lifehistory)(Hilty SL (2003) Birds of Venezuela. Princeton University Press: Princeton. , parental)
188	6	<i>Sigelus silens</i>	A	NA	NA	NA	A	NA	1.036	26.25		(lifehistory)(Urban EK, Fry CH, Keith S, eds. (1997) The birds of Africa Vol V.Academic Press: London., parental)
188	7	<i>Sitta canadensis</i>	A	32.5	NA	NA	A	19.5	0.590	52	10.35	(444445578, anage)(lifehistory)(Harrap S, Quinn D (1996) Tits, nuthatches and treecreepers. Christopher Helm: London. , parental)
188	8	<i>Sitta carolinensis</i>	A	36	NA	NA	A	14.5	0.890	96	21	(444445578, anage)(lifehistory)(Harrap S, Quinn D (1996) Tits, nuthatches and treecreepers. Christopher Helm: London. , parental)
188	9	<i>Sitta europaea</i>	A	34	NA	NA	NA	24	1.078	4	22.4	(450729820, anage)(Harrap S, Quinn D (1996) Tits, nuthatches and treecreepers. Christopher Helm: London. , parental)
189	0	<i>Sitta pygmaea</i>	A	52	NA	NA	A	21.5	0.569	8	10.6	(444445578, anage)(lifehistory)(Kingery HE, Ghalambor CK (2001) Pygmy nuthatch: <i>Sitta pygmaea</i> . in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-31. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
189	1	<i>Sittasomus griseicapillus</i>	A	NA	NA	NA	A	NA	0.569	8	12.8	(lifehistory)(Marantz CA, Aleixo A, Bevier LR, Patten MA (2003) Family Dendrocolaptidae (Woodcreepers). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 358-447. Lynx edicions: Barcelona., parental)
189	2	<i>Smicrornis brevirostris</i>	NA	NA	NA	NA	A	18.5	0.300	4022	54033	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2185)

189	Smithornis 3 capensis	A	NA	NA	NA	A	NA	0.808 08	23.47 5	(lifehistory)(Lambert F, Woodcock M (1996) Pittas, broadbills and asities. Pica: Sussex. Bruce MD (2003) Family Eurylaimidae (Broadbills). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 54-93. Lynx edicions: Barcelona., parental)
189	Somateria 4 mollissima	P	0	NA	NA	P	58	7.97	2092	(4444454507297320000, anage)(lifehistory)(Goudie RI, Robertson GJ, Reed A (2000) Common eider. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
189	Somateria 5 spectabilis	P	0	NA	NA	P	30	7.656 04	1650	(444445576, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 2: Species accounts (Cairana to Mergus). Oxford University Press: Oxford. Suydam RS (2000) King eider. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
189	Specularnas 6 specularis	P	0	NA	NA	P	NA	6.317 7753 45	1216. 82465 1	(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln.)(Sayol et al., 2186)
189	Spermophag 7 a haematina	A	32	NA	NA	A	20	0.911 68	22.6	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings. Christopher Helm: London., parental)
189	Sphecothere 8 s viridis	NA	NA	NA	NA	A	14	2.320 64	123.5 125	(575820, anage)(lifehistory)(Woodall PF (1980) Communal breeding in the figbird. Sunbird 11: 73-75., parental)
189	Spheniscus 9 demersus	A	155	NA	NA	NA	85	13.8	3271. 66666 7	(820969993, anage)(Williams TD (1995) The Penguins: Spheniscidae. Oxford University Press: Oxford. , parental)
190	Spheniscus 0 humboldti	A	NA	NA	NA	SA	77	16.55 528	4379	(820968993, anage)(lifehistory)(Williams TD (1995) The Penguins: Spheniscidae. Oxford University Press: Oxford. , parental)
190	Spheniscus 1 magellanicus	A	NA	NA	NA	NA	77	17.36	4000	(448587588732, anage)(Williams TD (1995) The Penguins: Spheniscidae. Oxford University Press: Oxford. , parental)
190	Sphyrapicus 2 nuchalis	A	40	NA	NA	A	27	1.315 72	50.3	(427820, anage)(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)

1903	Sphyrapicus varius	A	32	NA	NA	A	27	1.3468	50.3	(427444445, anage)(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
1904	Spilornis cheela	A	NA	NA	NA	NA	60	8	800	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
1905	Spindalis zena	NA	NA	NA	NA	A	NA	1.35716	29.1	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
1906	Spiza americana	A	23	NA	NA	A	10.25	0.94276	26.9	(427444445, anage)(lifehistory)(Temple SA (2002) Dickcissel. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1907	Spizaetus melanoleucus	A	NA	NA	NA	NA	NA	13	807.5	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
1908	Spizaetus ornatus	A	312	NA	NA	NA	NA	10	1214.75	(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
1909	Spizella arborea	A	27.2	NA	NA	A	15	0.76664	17.85	(427444445818, anage)(lifehistory)(Naugler CT (1993) American tree sparrow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-12. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)

1910	Sporophila americana	A	62	NA	NA	A	12	0.6216	12	(lifehistory)(Stiles FG, Skutch AF (1989) A guide to the birds of Costa Rica. Cornell University Press: Ithaca. , parental)
1911	Stachyris whiteheadi	NA	NA	NA	NA	A	NA	0.84952	21.975	(lifehistory)NA
1912	Stagonopleura guttata	A	45.5	NA	NA	A	24.5	0.65268	17.6	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
1913	Starnoenas cyanocephala	A	NA	NA	NA	NA	NA	NA	NA	NA
1914	Steatornis caripensis	A	NA	NA	NA	NA	108	3.3	412.75	(Holyoak DT, Woodcock M (2001) Nightjars and the allies: the Caprimulgiformes. Oxford University Press: Oxford. , parental)
1915	Steganopus tricolor	P	0	NA	NA	P	0.1	0.6734	59.15	(444445579, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
1916	Stelgidopteryx ruficollis	A	44.5	NA	NA	A	19.5	0.54908	16	(444,579,732)(lifehistory)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona.)
1917	Stephanoaetus coronatus	A	332	NA	NA	SA	112.5	14.56616	3643.75	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 294-436. Academic Press: London., parental)
1918	Stercorarius longicaudus	P	50.5	NA	NA	NA	NA	NA	NA	NA
1919	Stercorarius parasiticus	P	27.5	NA	NA	SP	27.5	4.03004	450	(444445450820, anage)(lifehistory)(Furness RW (1996) Family Stercorariidae (Skuas). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 556-571. Lynx edicions:

											Barcelona. Elmerg J (1992) Cooperative nest defence by trios of arctic skuas <i>Stercorarius parasiticus</i> . Ibis 134: 298., parental)
1920	<i>Stercorarius pomarinus</i>	P	33	NA	NA	SP	31.5	4.96244	694		(lifehistory)(Furness RW (1996) Family Stercorariidae (Skuas). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 556-571. Lynx edicions: Barcelona., parental)
1921	<i>Sterna albifrons</i>	P	NA	NA	NA	NA	22.25	57.1666667	0.9		(444450729732, anage)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona., parental)
1922	<i>Sterna aleutica</i>	P	65	NA	NA	SP	NA	1.8064564	132.4	22822	(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona.)(Sayol et al., 2187)
1923	<i>Sterna anaethetus</i>	P	95	NA	NA	NA	NA	NA	NA	NA	NA
1924	<i>Sterna bergii</i>	P	120	NA	NA	SP	39	3.48096	334.5		(lifehistory)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona., parental)
1925	<i>Sterna caspia</i>	P	275	NA	NA	SP	37	4.7132002	565.0	984705	(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona.)(Sayol et al., 2188)
1926	<i>Sterna dougallii</i>	P	NA	NA	NA	NA	NA	NA	NA	NA	NA
1927	<i>Sterna forsteri</i>	P	NA	NA	NA	SP	NA	2.2020024	130.8	432445	(427444445732)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona.)(Sayol et al., 2189)
1928	<i>Sterna fuscata</i>	P	102	NA	NA	SP	57.3	2.40352	183		(427444445732, anage)(lifehistory)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona. Schreiber EA, Feare CJ, Harrington BA, Murray BG, Robertson WB, Robertson MJ, Woolfenden GE (2002) Sooty tern. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)

1929	Sterna hirundo	P	59	NA	NA	SP	26.75	1.94768	124	(4.40444445450729E+27, anage)(lifehistory)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona. Nisbet ICT (2002) Common tern. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-40. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C. Ludwigs J-D (2004) A case of cooperative polyandry in the common tern. Waterbirds 27: 31-34., parental)
1930	Sterna lunata	P	NA	NA	NA	NA	NA	NA	NA	NA
1931	Sterna maxima	P	230	NA	NA	SP	30.5	3.948623921	438.3422509	(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona.)(Sayol et al., 2190)
1932	Sterna paradisaea	P	71	NA	NA	NA	22.5	2	110	(23,28,444,445,576,729,732,1143, anage)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona. Cullen JM (1957) Plumage, age and mortality in the Arctic tern. Bird Study 4: 197-207., parental)
1933	Sterna sandvicensis	P	178	NA	NA	NA	32	2.8	208	(61444445729, anage)(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona., parental)
1934	Sterna sumatrana	P	83	NA	NA	NA	28	2	106	(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona., parental)
1935	Sterna trudeaui	P	NA	NA	NA	SP	NA	2.202002434	158.5389017	(Gochfeld M, Burger J (1996) Family Sternidae (Terns). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 624-667. Lynx edicions: Barcelona.)(Sayol et al., 2191)
1936	Sterna vittata	P	NA	NA	NA	NA	NA	NA	NA	NA
1937	Stictonetta naevosa	P	0	NA	NA	P	59.5	4.56876	855	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to

											ducks.Oxford University Press: Melbourne., parental)
1938	Stigmatopelia chinensis	NA	NA	NA	NA	A	15	1.3986	159		(444445579, anage)(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1939	Stigmatopelia senegalensis	A	NA	NA	NA	A	15.5	1.28464	101		(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1940	Stiltia isabella	P	NA	NA	NA	P	0.1	1.0878	65.5		(lifehistory)(Maclean GL (1996) Family Glareolidae (Coursers and pratincoles). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 364-383. Lynx edicions: Barcelona., parental)
1941	Stipiturus malachurus	A	100	NA	NA	NA	NA	NA	NA	NA	NA
1942	Strepera fuliginosa	A	NA	NA	NA	A	NA	5.9052	343		(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
1943	Strepera graculina	A	99	NA	NA	A	30	5.53224	283.5		(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
1944	Strepera versicolor	A	NA	NA	NA	A	NA	6.18492	400		(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
1945	Streptopelia capicola	A	34.5	NA	NA	NA	NA	NA	NA	NA	NA
1946	Streptopelia decaoto	A	25	NA	NA	NA	17	1.5828	154.7		(61445450575729700, anage)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1947	Streptopelia decipiens	A	NA	NA	NA	NA	NA	NA	NA	NA	NA

1948	Streptopelia orientalis	A	NA	NA	NA	A	NA	1.449 7152 3	199.9 36536 8	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2192)
1949	Streptopelia roseogrisea	A	NA	139270 878.9	Kverkova + sol	NA	NA	1.176 3	153.5	(409410416417891, anage)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1950	Streptopelia semitorquata	A	36.5	NA	NA	NA	NA	NA	NA	NA
1951	Streptopelia tranquebarica	A	NA	NA	NA	NA	NA	NA	NA	NA
1952	Streptopelia turtur	A	NA	NA	NA	A	18	1.440 04	134.2 5	(450510729820, anage)(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
1953	Streptopelia vinacea	A	34.5	NA	NA	NA	NA	NA	NA	NA
1954	Streptoprocne zonoris	A	NA	NA	NA	A	50	1.533 28	86.66 66666 7	(lifehistory)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
1955	Strigops habroptila	NA	NA	NA	NA	A	106.54	17.09 4	1750	(492493820, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
1956	Strix aluco	A	125	158076 0354	Kverkova + sol	NA	31.2	9.285 8	496.5	(4507291143, anage)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)

1957	Strix nebulosa	A	117	2298634112	Sol	SA	63.75	15.18776	1078.75	(444445450729972, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. Bull EL, Duncan JR (1993) Great gray owl. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1958	Strix nigrolineata	NA	NA	NA	NA	SA	NA	7.6664	482	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1959	Strix uralensis	A	82.5	NA	NA	SA	40	11.61356	783	(450729732820, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1960	Strix varia	A	235	NA	NA	SA	42	13.0018	716.5	(427444445, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1961	Strix virgata	A	NA	NA	NA	SA	NA	6.3196	254	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1962	Strix woodfordii	A	153.5	NA	NA	NA	NA	NA	NA	NA
1963	Struthidea cinerea	A	85	NA	NA	A	23	3.08728	131	(575820, anage)(lifehistory)(Woxvold IA (2004) Breeding ecology and group dynamics of the apostlebird. Australian Journal of Zoology 52: 561-581., parental)
1964	Struthio camelus	P	0	1628935226	Kverkova + sol	NA	NA	41.9	109250	(1435820, anage)(Bertram BCR (1992) The ostrich communal nesting system. Princeton University Press: Princeton. Kimwele CN, Graves JA (2003) A molecular genetic analysis of the communal nesting of the ostrich (Struthio camelus). Molecular Ecology 12: 229-236., parental)
1965	Sturnella loyca	NA	NA	NA	NA	NA	NA	2.04	113	(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
1966	Sturnella magna	A	25	NA	NA	NA	11	2.3	91.855	(427444445, anage)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
1967	Sturnella neglecta	A	25	NA	NA	A	11	2.00984	97.7	(1444445, anage)(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
1968	Sturnus roseus	A	45	NA	NA	NA	24	1.48	68.125	(Feare C, Craig A (1998) Starlings and mynas. Christopher Helm: London. , parental)

1969	<i>Sturnus vulgaris</i>	A	32	482504993	Olowicz	A	21	2.04092	77.675	(2,61,62,385,386,387,444,445,450,510,729,732, anage)(lifehistory)(Pinxten R, Eens M, Verheyen RF (1994) Communal breeding in the European starling: evidence from DNA fingerprinting. Auk 111: 482-486., parental)
1970	<i>Sula leucogaster</i>	A	175	NA	NA	A	98	9.36544	1209.05	(427444445732, anage)(lifehistory)(Carboneras C (1992) Family Sulidae (Gannets and Boobies). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 312-325. Lynx edicions: Barcelona., parental)
1971	<i>Surnia ulula</i>	A	120	1710380413	Sol	SA	30	7.74928	308.5	(445450, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
1972	<i>Sylvia atricapilla</i>	A	25	156727697	Olowicz	A	11	0.6734	18.325	(450729732820, anage)(lifehistory)(Shirihai H, Gargallo G, Helbig AJ (2001) Sylvia warblers: identification, taxonomy and phylogeny of the genus Sylvia. Christopher Helm: Oxford. , parental)
1973	<i>Sylvia borin</i>	A	22	NA	NA	A	10.5	0.64232	19.55	(510575729732, anage)(lifehistory)(Shirihai H, Gargallo G, Helbig AJ (2001) Sylvia warblers: identification, taxonomy and phylogeny of the genus Sylvia. Christopher Helm: Oxford. , parental)
1974	<i>Sylvia communis</i>	A	28.5	NA	NA	NA	11	0.5625	15.5	(450729, anage)(Shirihai H, Gargallo G, Helbig AJ (2001) Sylvia warblers: identification, taxonomy and phylogeny of the genus Sylvia. Christopher Helm: Oxford. , parental)
1975	<i>Sylvia curruca</i>	A	30.5	NA	NA	NA	NA	0.53	12.0375	(510553729820, anage)(Shirihai H, Gargallo G, Helbig AJ (2001) Sylvia warblers: identification, taxonomy and phylogeny of the genus Sylvia. Christopher Helm: Oxford. , parental)
1976	<i>Sylvia hortensis</i>	A	18	NA	NA	NA	NA	0.79	22.375	(Shirihai H, Gargallo G, Helbig AJ (2001) Sylvia warblers: identification, taxonomy and phylogeny of the genus Sylvia. Christopher Helm: Oxford. , parental)
1977	<i>Sylvia melanocephala</i>	A	30	NA	NA	NA	NA	0.53	11.7	(450729820, anage)(Shirihai H, Gargallo G, Helbig AJ (2001) Sylvia warblers: identification, taxonomy and phylogeny of the genus Sylvia. Christopher Helm: Oxford. , parental)
1978	<i>Syma torotoro</i>	NA	NA	NA	NA	A	NA	1.149546071	34.98781997	(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona.)(Sayol et al., 2193)
1979	<i>Synallaxis brachyura</i>	A	47	NA	NA	A	14.5	0.89096	18.2	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed.

										del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
1980	Syndactyla guttulata	NA	NA	NA	NA	A	NA	1.23284	36	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
1981	Synthliboramphus antiquus	P	30	NA	NA	SP	2	2.51748	206	(444445, anage)(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. , parental)
1982	Syrigma sibilatrix	A	NA	NA	NA	SA	42	4.77596	462.75	(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
1983	Syrnaticus reevesii	P	0	387172805	Kverkova + sol	P	0.1	4.53768	1239	(2820, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1984	Syrrhaptes paradoxus	P	0	NA	NA	NA	15	1.6	263	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
1985	Tachornis phoenicobia	NA	NA	NA	NA	A	NA	0.29008	10.1	(lifehistory)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
1986	Tachybaptus dominicus	NA	NA	NA	NA	NA	NA	1.5	127.2583334	(Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. , parental)
1987	Tachybaptus novaehollandiae	P	43	NA	NA	P	0.1	1.71976	219	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks. Oxford University Press: Melbourne. Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. Lane R (1978) Co-operative breeding in the Australian little grebe. Sunbird 9: 2., parental)
1988	Tachybaptus ruficollis	P	43	NA	NA	NA	46	1.6024	174	(450729820, anage)(Fjelds_ J (2004) The Grebes: Podicipedidae. Oxford University Press: Oxford. , parental)
1989	Tachycineta bicolor	A	27	NA	NA	A	20	0.5698	20.8	(4.19427432444445E+27, anage)(lifehistory)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona. Robertson RJ, Stutchbury BJ, Cohen RR (1992) Tree swallow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and

										Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1990	Tachycineta thalassina	A	NA	NA	NA	A	24	0.47656	14.15	(427444445732820, anage)(lifehistory)(Turner AK (2004) Family Hirundinidae (Swallows and martins). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 602-685. Lynx edicions: Barcelona. Brown CR, Knott AM, Damrose EJ (1992) Violet-green swallow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-12. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
1991	Tachyeres leucocephalus	P	0	NA	NA	P	NA	10.56310368	3501.68654	(Carboneras C (1992) Family Anatidae (Ducks, geese and swans). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 536-628. Lynx edicions: Barcelona. Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford.)(Sayol et al., 2194)
1992	Tachyeres patachonicus	P	0	NA	NA	P	NA	9.40688	2636.5	(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
1993	Tachyeres pteneres	P	0	NA	NA	P	NA	11.01268	4688.5	(lifehistory)(Johnsgard PA (1978) Ducks, geese and swans of the world. University of Nebraska Press: Lincoln. , parental)
1994	Tachymarptis melba	A	119	NA	NA	NA	50	1.1333333	97.83	(72982087489811400000, anage)(Chantler P (1999) Family Apodidae (Swifts). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
1995	Tachyphonus delatrii	NA	NA	NA	NA	A	NA	0.76664	18	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
1996	Tadorna ferruginea	P	0	421444970.1	Sol	NA	55	4.8	1240	(Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)
1997	Tadorna radjah	P	0	NA	NA	P	0.1	5.36648	865	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne., parental)
1998	Tadorna tadoma	P	0	NA	NA	P	53.75	5.52188	1094	(450729732820, anage)(lifehistory)(Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. Cramp S, ed. (1977) The birds of the western Palearctic Vol. I. Ostrich to ducks.Oxford University Press: Oxford., parental)

1999	Tadorna tadornoides	P	0	NA	NA	P	60	6.03988	1364	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne., parental)
2000	Tadorna variegata	P	0	NA	NA	P	59.5	6.17456	1415	(lifehistory)(Marchant S, Higgins PJ, eds. (1990) Handbook of Australian, New Zealand and Antarctic Birds. Volume 1. Ratites to ducks.Oxford University Press: Melbourne. Kear J (2005) Ducks, Geese and Swans Vol 1. Oxford University Press: Oxford. , parental)
2001	Taeniopygia bichenovii	A	40	NA	NA	A	21	0.4144	9.5	(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
2002	Taeniopygia guttata	A	35	135976099	Olowicz	A	21	0.45584	11.93333333	(6.24054327397517E+25, anage)(lifehistory)(Strahan R (1996) Finches, bowerbirds and other passerines. Angus & Robertson: Sydney. , parental)
2003	Tangara cyanicollis	NA	NA	NA	NA	A	20	0.66304	17	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
2004	Tangara icterocephala	NA	NA	NA	NA	NA	NA	0.5865	22	(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
2005	Tanygnathus lucionensis	NA	NA	NA	NA	A	56	5.91556	215	(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
2006	Tanygnathus megalorynchos	NA	NA	NA	NA	A	62.5	7.23128	325	(575820, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
2007	Tanyiptera galatea	A	NA	NA	NA	A	NA	1.48148	60	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
2008	Tanyiptera sylvia	NA	NA	NA	NA	A	27.5	1.18104	49.725	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)

2009	Taraba major	NA	NA	NA	NA	A	12.5	1.57472	59.2	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
2010	Tauraco corythaix	A	66	NA	NA	NA	NA	NA	NA	NA
2011	Tauraco erythrolophus	NA	NA	NA	NA	NA	NA	3.1	267.5	(Berry RJ, Todd WW (2002) Turacos in aviculture. in Turacos: a natural history of the Musophagidae. (ed. Forshaw JM, Cooper WT) p. 35-45. Nokomis: Melbourne., parental)
2012	Tauraco hartlaubi	A	NA	NA	NA	SA	28	3.4706	227.5	(lifehistory)(Forshaw JM, Cooper WT (2002) Turacos: a natural history of the Musophagidae. Nokomis: Melbourne. , parental)
2013	Tauraco leucotis	A	NA	NA	NA	SA	25	3.4706	265	(575820, anage)(lifehistory)(Forshaw JM, Cooper WT (2002) Turacos: a natural history of the Musophagidae. Nokomis: Melbourne. , parental)
2014	Tauraco livingstonii	NA	NA	NA	NA	NA	NA	2.9	249	(Forshaw JM, Cooper WT (2002) Turacos: a natural history of the Musophagidae. Nokomis: Melbourne. , parental)
2015	Tauraco persa	A	122	NA	NA	SA	28	3.367	306	(lifehistory)(Forshaw JM, Cooper WT (2002) Turacos: a natural history of the Musophagidae. Nokomis: Melbourne. , parental)
2016	Tchagra australis	A	NA	NA	NA	A	13	1.27428	35.675	(lifehistory)(Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. , parental)
2017	Telophorus zeylonus	A	NA	NA	NA	A	NA	1.97876	63.65	(lifehistory)(Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. , parental)
2018	Tephrodornis pondicerianus	NA	NA	NA	NA	A	NA	0.92204	22	(lifehistory)(Taylor PB (2005) Family Campephagidae (Cuckoo-shrikes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 40-122. Lynx edicions: Barcelona. Harris T, Franklin K (2000) Shrikes and bush-shrikes including wood-shrikes, helmet-shrikes, flycatcher-shrikes, philentomas, batises and wattle-eyes. Christopher Helm: London. , parental)

2019	Terathopius ecaudatus	A	233	NA	NA	SA	112.5	15.21 884	16666 7	2278. (8201146, anage)(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona. Brown LH (1982) Accipitridae, Osprey, cuckoo falcons, honey buzzards, kites, fish eagles, Old World vultures, snake eagles, harroers, hawks, buzzards and eagles. in Birds of Africa Volume 1. (ed. Brown LH, Urban EK, Newman K) p. 294-436. Academic Press: London., parental)
2020	Terpsiphone atrocaudata	NA	NA	NA	NA	A	NA	0.673 4	18.7	(lifehistory)(Mizuta T (1998) The breeding biology of the black paradise flycatcher Terpsiphone atrocaudata. Japanese Journal of Ornithology 47: 25-28., parental)
2021	Tersina viridis	A	NA	NA	NA	A	24	0.963 48	30.4	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. Chesser RT (1994) Migration in South America: an overview of the austral system. Bird Conservation International 4: 91-107., parental)
2022	Tetrao tetrix	P	0	280868 417.7	Sol	NA	NA	3.7	1084. 75	(4507297321143, anage)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2023	Tetrao urogallus	P	0	NA	NA	P	0.1	6.361 04	2942. 5	(1510729732820, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2024	Tetraogallus himalayensis	P	0	NA	NA	NA	NA	6.2	2427. 75	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2025	Thalassarche cauta	P	127	NA	NA	SP	144.59	20.03 624	4012. 5	(lifehistory)(Carboneras C (1992) Family Diomedidae (Albatrosses). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 198-215. Lynx edicions: Barcelona., parental)
2026	Thalassarche chrysostoma	P	141	NA	NA	SP	106	19.83 94	3700	(4274357321143, anage)(lifehistory)(Carboneras C (1992) Family Diomedidae (Albatrosses). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 198-215. Lynx edicions: Barcelona., parental)
2027	Thalassarche melanophrys	P	116	NA	NA	SP	101.5	18.52 368	3440	(4277328201124, anage)(lifehistory)(Carboneras C (1992) Family Diomedidae (Albatrosses). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 198-215. Lynx edicions: Barcelona., parental)

2028	Thalassoica antarctica	A	45	NA	NA	SP	45	6.92048	687.5	(lifehistory)(Carboneras C (1992) Family Procellariidae (Petrels and Shearwaters). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 216-257. Lynx edicions: Barcelona., parental)
2029	Thalurania furcata	A	NA	NA	NA	A	NA	0.2072	4.1	(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
2030	Thalurania glaucopsis	A	NA	NA	NA	NA	NA	NA	NA	NA
2031	Thamnomanes caesius	A	NA	NA	NA	A	NA	0.63196	15.7	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
2032	Thamnophilus caerulescens	NA	NA	NA	NA	A	NA	1.01528	20.55	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
2033	Thamnophilus punctatus	A	NA	NA	NA	A	9	0.97384	19	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
2034	Theristicus caerulescens	NA	NA	NA	NA	SP	1	9.2204	1500	(649820, anage)(lifehistory)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
2035	Thinocorus orbignyianus	P	0	NA	NA	NA	NA	1.2	123.75	(Fjelds_ J (1996) Family Thinocoridae (Seedsnipes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 538-545. Lynx edicions: Barcelona., parental)
2036	Thinocorus rumicivorus	P	0	NA	NA	NA	NA	NA	NA	NA
2037	Thraupis episcopus	A	NA	NA	NA	A	17.5	1.14996	35	(444732820, anage)(lifehistory)(Gomez J, Monros JS, Gil-Delgado JA (2000) Notas sobre la biologia de la tangara azuleja Thraupis episcopus in Santa Clara (Costa Rica). Ardeola 47: 265-267., parental)

2038	Thraupis palmarum	A	NA	NA	NA	NA	18.5	0.98	38.25	(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
2039	Threnetes ruckeri	A	74	NA	NA	A	24.5	0.27972	5.45	(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
2040	Threskiornis aethiopicus	A	47.5	NA	NA	SP	37.5	10.60864	1530	(61649, anage)(lifehistory)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
2041	Threskiornis melanocephalus	A	NA	NA	NA	NA	37.5	9	1530	(649, anage)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
2042	Threskiornis molucca	A	60	NA	NA	SP	37.5	10.2564	1615.5	(649820, anage)(lifehistory)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
2043	Threskiornis spinicollis	A	42	NA	NA	SP	28	8.71276	1351.375	(649820, anage)(lifehistory)(Matheu E, del Hoyo J (1992) Family Threskiornithidae (Ibises and spoonbills). in Handbook of the birds of the world. Vol. 1. Ostrich to ducks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 472-507. Lynx edicions: Barcelona., parental)
2044	Thryomanes bewickii	A	29	NA	NA	A	14	0.53872	9.9	(444445577, anage)(lifehistory)(Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsma DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona. Kennedy ED, White DW (1997) Bewick's wren (Thryomanes bewickii). in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)

2045	Thryothorus ludovicianus	A	35.2	NA	NA	A	13.5	0.8806	19.5666667	(427444445, anage)(lifehistory)(Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsma DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona. Haggerty TM, Morton ES (1995) Carolina wren. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
2046	Thryothorus nigricapillus	NA	NA	NA	NA	A	16	1.09816	23.45	(lifehistory)(Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsma DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona., parental)
2047	Tiaris olivaceus	A	NA	NA	NA	A	13.5	0.49728	8.35	(lifehistory)(Stiles FG, Skutch AF (1989) A guide to the birds of Costa Rica. Cornell University Press: Ithaca. , parental)
2048	Tigrisoma lineatum	A	NA	NA	NA	SA	NA	7.10696	813	(lifehistory)(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
2049	Tigrisoma mexicanum	A	NA	NA	NA	NA	NA	7	1160	(Kushlan JA, Hancock JA (2005) Herons. Oxford University Press: Oxford. , parental)
2050	Tinamus major	P	0	NA	NA	P	NA	2.99404	1013.5	(lifehistory)(Davies SJF (2002) Ratites and tinamous: Tinamidae, Rheidae, Dromaiidae, Casuariidae, Apterygidae, Struthionidae. Oxford University Press: Oxford. , parental)
2051	Tityra cayana	NA	NA	NA	NA	A	NA	1.66796	68.5	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
2052	Tityra semifasciata	A	46	NA	NA	A	21	1.94768	76.25	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of

										the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
2053	Tockus alboterminatus	A	80	NA	NA	NA	NA	4.2	224.5	(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
2054	Tockus deckeni	NA	NA	NA	NA	A	46	3.5742	179	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
2055	Tockus erythrorhynchus	A	87	NA	NA	A	43	3.65708	143.5	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
2056	Tockus flavirostris	A	NA	NA	NA	A	NA	4.403	220	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
2057	Tockus monteiri	A	NA	NA	NA	NA	NA	3.2	364	(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
2058	Tockus nasutus	A	55	NA	NA	A	46	4.1958	200	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
2059	Todiramphus chloris	A	NA	NA	NA	A	44	1.38824	66.25	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona. Beckon WN (1987) Evidence of cooperative nest excavation by the white-collared kingfisher Halcyon chloris in Fiji. Ibis 129: 391-392., parental)
2060	Todiramphus macleayii	A	58	NA	NA	A	28	1.10852	37.3	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
2061	Todiramphus pyrrhopygius	A	NA	NA	NA	A	28	1.17068	53.75	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)
2062	Todiramphus sanctus	A	39	NA	NA	A	26.5	1.06708	53.95	(lifehistory)(Woodall PF (2001) Family Alcedinidae (Kingfishers). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 130-249. Lynx edicions: Barcelona., parental)

206 3	Todirostrum cinereum	A	61	NA	NA	A	18	0.321 16	6.575	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Skutch AF (1960) Life histories of Central American Birds II Families Vireonidae, Sylviidae, Turdidae, Troglodytidae, Paridae, Corvidae, Hirundinidae and Tyrannidae. Cooper Ornithological Society: Berkeley. Haverschmidt F (1978) The duration of parental care in the common tody flycatcher. Auk 95: 199., parental)
206 4	Todus mexicanus	A	40.5	NA	NA	A	19.5	0.414 4	5.95	(427820, anage)(lifehistory)(Kepler AK (2001) Family Todidae (Todies). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 250-263. Lynx edicions: Barcelona., parental)
206 5	Todus subulatus	NA	NA	NA	NA	A	NA	0.445 48	8.85	(lifehistory)(Kepler AK (2001) Family Todidae (Todies). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 250-263. Lynx edicions: Barcelona., parental)
206 6	Todus todus	NA	NA	NA	NA	A	NA	0.424 76	6.4	(lifehistory)(Kepler AK (2001) Family Todidae (Todies). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 250-263. Lynx edicions: Barcelona., parental)
206 7	Tolmomyias sulphurescens	NA	NA	NA	NA	A	23	0.528 36	14.5	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Skutch AF (1960) Life histories of Central American Birds II Families Vireonidae, Sylviidae, Turdidae, Troglodytidae, Paridae, Corvidae, Hirundinidae and Tyrannidae. Cooper Ornithological Society: Berkeley. , parental)
206 8	Torgos tracheliotos	A	300	NA	NA	SA	125.5	28.88 368	6800	(lifehistory)(Ferguson-Lees J, Christie DA (2001) Raptors of the world. Christopher Helm: London. Thiollay JM, White CM, Bierregard RO, Orta J, Meyburg BU, Kemp AC, Clark WS, Debus SJS (1994) Family Accipitridae (Hawks and Eagles). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J,

										Elliott A, Saragatal J) p. 52-205. Lynx edicions: Barcelona., parental)
2069	Touit dilectissimus	NA	NA	NA	NA	A	NA	2.694916293	62.99151281	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2195)
2070	Touit purpuratus	NA	NA	NA	NA	A	NA	2.485234805	68.37450355	(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex.)(Sayol et al., 2196)
2071	Toxorhamphus iliolophus	NA	NA	NA	NA	A	NA	0.49728	11	(lifehistory)(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland. , parental)
2072	Toxorhamphus poliopterus	NA	NA	NA	NA	A	NA	0.44548	11	(lifehistory)(Coates BJ (1990) The birds of Papua New Guinea including the Bismarck Archipelago and Bougainville. Vol. II. Passerines. Dove Publications: Alderley, Queensland. , parental)
2073	Toxostoma curvirostre	A	39	NA	NA	A	15	2.20668	78.7	(444445578732818, anage)(lifehistory)(Cody ML (2005) Family Mimidae (Mockingbirds and thrashers). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 448-495. Lynx edicions: Barcelona. Tweit RC (1996) Curve-billed thrasher (Toxostoma curvirostre). in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
2074	Toxostoma rufum	A	32.5	NA	NA	A	12.15	2.072	68.65	(61444445578, anage)(lifehistory)(Cody ML (2005) Family Mimidae (Mockingbirds and thrashers). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 448-495. Lynx edicions: Barcelona. Cavitt JF, Haas CA (2000) Brown thrasher. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
2075	Trachyphonus margaritatus	NA	NA	NA	NA	NA	NA	1.2	46.2	(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae

										and Indicatoridae. Oxford University Press: Oxford. , parental)
2076	Trachyphonus vaillantii	A	NA	NA	NA	A	31	1.68868	67	(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
2077	Tragopan temminckii	P	0	NA	NA	P	0.1	4.84848	1404.5	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2078	Tregellasia capito	NA	NA	NA	NA	A	17	0.798011033	14.16819976	(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne.)(Sayol et al., 2197)
2079	Tregellasia leucops	NA	NA	NA	NA	A	NA	0.61124	15.975	(lifehistory)(Higgins PJ, Peter JM, eds. (2002) Handbook of Australian, New Zealand and Antarctic Birds. Volume 6. Pardalotes to Figbird.Oxford University Press: Melbourne., parental)
2080	Treron curvirostra	NA	NA	NA	NA	A	NA	1.398453725	154.9341209	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2198)
2081	Treron formosae	NA	NA	NA	NA	A	NA	1.605390684	303.0809707	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2199)
2082	Treron fulvicollis	NA	NA	NA	NA	A	NA	1.346309498	163.0407224	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2200)
2083	Treron pompadora	NA	NA	NA	NA	A	NA	1.44004	234	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)

2084	Treron vernans	A	NA	174476120	Sol	A	NA	1.295	132.75	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
2085	Trichodere cockerelli	NA	NA	NA	NA	A	NA	0.673253832	18.59699484	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2201)
2086	Trichoglossus chlorolepidotus	A	71	NA	NA	A	58	3.1598	87	(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
2087	Trichoglossus haematodus	A	81	NA	NA	A	52.5	3.7333296	119.55	(669820979, anage)(lifehistory)(Higgins PJ, ed. (1999) Handbook of Australian, New Zealand and Antarctic Birds. Volume 4: Parrots to dollarbird.Oxford University Press: Melbourne., parental)
2088	Trichoglossus ornatus	NA	NA	NA	NA	A	80	3.63636	120	(669, anage)(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
2089	Tricholaema leucomelas	A	41	NA	NA	A	35	1.01528	31.175	(lifehistory)(Short LL, Home JFM (2001) Toucans, barbets and honeyguides: Ramphastidae, Capitonidae and Indicatoridae. Oxford University Press: Oxford. , parental)
2090	Trichothraupis melanops	NA	NA	NA	NA	A	NA	0.9324	25.6	(lifehistory)(Isler ML, Isler PR (1999) Tanagers. Christopher Helm: London. , parental)
2091	Trigonoceps occipitalis	A	NA	NA	NA	NA	NA	NA	NA	NA
2092	Tringa erythropus	P	0	NA	NA	NA	28	1.8	158	(450729820, anage)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
2093	Tringa flavipes	P	0	NA	NA	P	22	1.10852	81.7	(445576, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A,

										Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
209 4	Tringa glareola	P	0	NA	NA	P	29	1.077 44	67	(450729820, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
209 5	Tringa melanoleuca	P	0	NA	NA	P	19	1.854 44	170	(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
209 6	Tringa nebularia	P	0	NA	NA	NA	28	1.667 5	175.5	(450729820, anage)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
209 7	Tringa ochropus	P	0	NA	NA	NA	28	1.3	79.25	(450729, anage)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
209 8	Tringa solitaria	P	0	NA	NA	P	NA	0.849 52	48.5	(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
209 9	Tringa stagnatilis	P	0	NA	NA	P	28	1.056 72	75.25	(450820, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
210 0	Tringa totanus	P	0	NA	NA	NA	29.5	1.469 4	129	(450729732, anage)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
210 1	Trochilus polytmus	A	46.5	NA	NA	A	21.5	0.196 84	4.8	(lifehistory)(Schuchmann KL (1999) Family Trochilidae (Hummingbirds). in Handbook of the

										Birds of the World. Vol 5. Barn-Owls to Hummingbirds. (ed. del Hoyo J, Elliott A, Sargatal J) p. 388-457. Lynx Editions: Barcelona., parental)
210	Troglodytes 2 aedon	A	43.5	NA	NA	A	16.5	0.549 08	11	(427444445732, anage)(lifehistory)(Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsma DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona. Johnson LS (1998) House wren Troglodytes aedon. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
210	Troglodytes 3 troglodytes	A	32	NA	NA	NA	16.5	0.502 2	9.225	(614444445510729700, anage)(Cramp S, ed. (1988) The birds of the western Palearctic Vol. V. Tyrant flycatchers to thrushes. Oxford University Press: Oxford. Barker FK (1999) The evolution of cooperative breeding in Campylorhynchus wrens: a comparative approach. PhD thesis. University of Chicago. Kroodsma DE, Brewer D (2005) Family Troglodytidae (Wrens). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 356-447. Lynx edicions: Barcelona., parental)
210	Trogon 4 citreolus	NA	NA	NA	NA	A	NA	1.533 28	78.75	(lifehistory)(Collar NJ (2001) Family Trogonidae (Trogons). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona., parental)
210	Trogon 5 curucui	NA	NA	NA	NA	NA	NA	1.9	52.75	(Collar NJ (2001) Family Trogonidae (Trogons). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona., parental)
210	Trogon 6 massena	NA	NA	NA	NA	A	NA	2.206 68	143	(lifehistory)(Collar NJ (2001) Family Trogonidae (Trogons). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona., parental)
210	Trogon 7 melanurus	NA	NA	NA	NA	A	NA	1.926 96	113.87 5	(lifehistory)(Collar NJ (2001) Family Trogonidae (Trogons). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona., parental)

2108	Trogon violaceus	A	NA	NA	NA	A	17	1.46076	51.075	(lifehistory)(Collar NJ (2001) Family Trogonidae (Trogon). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona., parental)
2109	Trogon viridis	NA	NA	NA	NA	A	19.5	1.85444	87.1	(lifehistory)(Collar NJ (2001) Family Trogonidae (Trogon). in Handbook of the birds of the world. Vol. 6. Mousebirds to hornbills. (ed. del Hoyo J, Elliott A, Saragatal J) p. 80-129. Lynx edicions: Barcelona., parental)
2110	Tropicranus albocristatus	NA	NA	NA	NA	A	NA	5.05568	289.5	(lifehistory)(Kemp AC (1995) The Hornbills. Oxford University Press: Oxford. , parental)
2111	Tryngites subruficollis	P	0	NA	NA	P	0.5	1.06708	61.875	(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
2112	Turdoides jardineii	A	NA	NA	NA	A	19.5	2.071695064	78.02271483	(Fry CH, Keith S, Urban EK, eds. (2000) The Birds of Africa Vol VI.Academic Press: London.)(Sayol et al., 2202)
2113	Turdus iliacus	A	25	NA	NA	NA	13	1.53	62.075	(510729820, anage)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
2114	Turdus lherminieri	NA	NA	NA	NA	A	NA	2.2792	106.5	(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
2115	Turdus merula	A	35	379412741	Olowicz	A	13.5	1.9684	102	(450729732820, anage)(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
2116	Turdus migratorius	A	27	NA	NA	A	14.3	1.69904	78.78333333	(62444445732, anage)(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
2117	Turdus pelios	NA	NA	NA	NA	NA	NA	1.55	69	(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)

2118	Turdus philomelos	A	33.3	NA	NA	A	15	1.68868	68.8	(450510729820, anage)(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
2119	Turdus pilaris	A	27	NA	NA	NA	14	1.975	104.775	(450729732820, anage)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
2120	Turnix melanogaster	P	15	NA	NA	NA	NA	NA	NA	NA
2121	Turnix nigricollis	P	29	NA	NA	NA	NA	0.95	58.525	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2122	Turnix pyrrhoroax	P	NA	NA	NA	P	NA	0.59052	46.65	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2123	Turnix suscitator	P	41	NA	NA	P	NA	0.73556	55.625	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2124	Turnix sylvaticus	P	36	NA	NA	NA	7	0.6	46.35	(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2125	Turnix varius	P	17	NA	NA	P	NA	1.07744	96.5	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2126	Turnix velox	P	NA	NA	NA	P	NA	0.69412	45	(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2127	Turtur afer	A	27.5	NA	NA	NA	NA	0.9	64.3	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
2128	Turtur brehmeri	NA	NA	NA	NA	A	NA	1.372133934	127.9961263	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2203)

2129	Turtur chalcospilos	A	31	NA	NA	A	16	0.95312	59.675	(lifehistory)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
2130	Turtur tympanistria	A	34.5	NA	NA	A	17.5	1.056928588	89.03236898	(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2204)
2131	Tympanuchus phasianellus	P	0	NA	NA	P	0.1	2.98368	851	(437444445732, anage)(lifehistory)(Madge S, McGowan P (2002) Pheasants, partridges and grouse. Christopher Helm: London. , parental)
2132	Tyrannus dominicensis	A	52	NA	NA	A	NA	1.0363	46.78333333	(lifehistory)(Smith GA, Jackson JA (2002) Gray kingbird. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
2133	Tyrannus forficatus	A	NA	NA	NA	A	14	0.89096	39.3	(lifehistory)(Regosin JV (1998) Scissor-tailed flycatcher. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
2134	Tyrannus savana	NA	NA	NA	NA	A	NA	0.75628	31.9	(lifehistory)(Mezquida ET (2002) Nidificaci3n de ocho especies de Tyrannidae en La Reserva de _acu___, Mendoza, Argentina. Hornero 17: 31-40., parental)
2135	Tyrannus tyrannus	A	51.5	NA	NA	A	14.95	0.9842	40.125	(4.27444445510732E+20, anage)(lifehistory)(Rowe DL, Murphy MT, Fleischer RC, Wolf PG (2001) High frequency of extra-pair paternity in eastern kingbirds. Condor 103: 845-851. Murphy MT (1996) Eastern kingbird. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)

2136	Tyrannus verticalis	A	37	NA	NA	A	15.25	1.01528	39.6	(444445579732, anage)(lifehistory)(Gamble LR, Bergin TM (1996) Western kingbird. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
2137	Tyto alba	A	139.5	689543961	Olowicz	SA	54	6.74436	381.6	(444445729732, anage)(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
2138	Tyto capensis	A	63	NA	NA	SA	32	5.41828	397.5	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
2139	Tyto longimembris	NA	NA	NA	NA	SA	NA	5.437759633	478.1861061	(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex.)(Sayol et al., 2205)
2140	Tyto novaehollandiae	A	140	NA	NA	SA	77	8.77492	630.625	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
2141	Tyto tenebriosa	A	210	NA	NA	SA	84	13.1572	550	(lifehistory)(K_nig C, Weick F, Becking J-H (1999) Owls: a Guide to the Owls of the World. Pica Press: Sussex. , parental)
2142	Upupa epops	A	60	NA	NA	A	27.5	1.3986	66.25	(729820, anage)(lifehistory)(Martin-Vivaldi M, Gabriel Martinez J, Javier Palomino J, Soler M (2002) Extrapair paternity in the hoopoe Upupa epops: an exploration of the influence of interactions between breeding pairs, non-pair males and strophe length. Ibis 144: 236-247., parental)
2143	Uraeginthus bengalus	A	32	NA	NA	A	18	0.44548	9.9	(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
2144	Uraeginthus ianthinogaster	NA	NA	NA	NA	NA	NA	0.48	14.1	(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings.Christopher Helm: London., parental)
2145	Uria aalge	P	83	NA	NA	SP	60	5.93628	991.5	(4.35444445450729E+24, anage)(lifehistory)(NA, parental)
2146	Uria lomvia	P	69	NA	NA	SP	22.1	5.4908	964	(4.27435444445732E+21, anage)(lifehistory)(Gaston AJ, Jones IL (1998) The auks (Alcidae). Oxford University Press: Oxford. Kober K, Gaston AJ (2003) Social interactions among breeding Bruennich's guillemots Uria lomvia suggest constraints in relation to offspring vulnerability. Ibis 145: 413-418., parental)

2147	Urocissa erythrorhynchos	NA	NA	NA	NA	NA	NA	3.8	166.25	(Madge S, Burn H (1994) Crows and jays: a guide to the crows, jays and magpies of the world. Christopher Helm: London., parental)
2148	Urocolius indicus	NA	NA	NA	NA	A	20	1.10852	53.5	(lifehistory)(Decoux JP (1988) Coliidae, mousebirds or colies. in The Birds of Africa. Vol III. (ed. Fry CH, Keith S, Urban EK) p. 197-242. Academic Press: London., parental)
2149	Urocolius macrourus	A	63	NA	NA	A	19	1.036	47	(lifehistory)(Decoux JP (1988) Coliidae, mousebirds or colies. in The Birds of Africa. Vol III. (ed. Fry CH, Keith S, Urban EK) p. 197-242. Academic Press: London., parental)
2150	Vanellus albiceps	P	0	NA	NA	NA	NA	NA	NA	NA
2151	Vanellus armatus	P	0	NA	NA	P	41	2.01449218	165.8361081	(986)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona.)(Sayol et al., 2206)
2152	Vanellus cayanus	NA	NA	NA	NA	P	NA	1.684328796	88.76567212	(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona.)(Sayol et al., 2207)
2153	Vanellus chilensis	P	0	NA	NA	NA	NA	NA	NA	NA
2154	Vanellus cinereus	NA	NA	NA	NA	NA	NA	2.8	270	(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
2155	Vanellus coronatus	P	0	NA	NA	NA	NA	2.2	166	(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
2156	Vanellus miles	P	0	NA	NA	P	49.5	2.9526	379	(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
2157	Vanellus senegallus	P	0	NA	NA	P	40	2.563483675	264.5419924	(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona.)(Sayol et al., 2208)
2158	Vanellus tricolor	P	0	NA	NA	P	46	2.47604	183	(lifehistory)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del

											Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
2159	Vanellus vanellus	P	0	NA	NA	NA	37.5	2.1783	218		(2436444450729730000, anage)(Piersma T, Wiersma T (1996) Family Charadriidae (Plovers). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 384-443. Lynx edicions: Barcelona., parental)
2160	Veniliornis passerinus	NA	NA	NA	NA	A	NA	1.5022	32.1		(lifehistory)(Winkler H, Christie DA (2002) Family Picidae (Woodpeckers). in Handbook of the birds of the world. Vol. 7. Jacamars to woodpeckers. (ed. del Hoyo J, Elliott A, Saragatal J) p. 310-363. Lynx edicions: Barcelona., parental)
2161	Vermivora peregrina	A	NA	NA	NA	A	11.3	0.44548	9.55		(444445578977, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
2162	Vermivora ruficapilla	A	NA	NA	NA	NA	NA	NA	NA	NA	NA
2163	Vidua obtusa	NA	NA	NA	NA	NA	NA	0.55	20.175		(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings. Christopher Helm: London., parental)
2164	Vidua paradisaea	A	49.5	NA	NA	A	NA	0.66304	20.925		(lifehistory)(Fry CH, Keith S, eds. (2004) The Birds of Africa Vol. VII. Sparrows to buntings. Christopher Helm: London., parental)
2165	Vini stepheni	NA	NA	NA	NA	A	NA	2.15488	50.75		(lifehistory)(Collar NJ (1997) Family Psittacidae (Parrots). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 280-479. Lynx edicions: Barcelona. Juniper T, Parr M (1998) Parrots: a guide to the parrots of the world. Pica Press: Sussex. , parental)
2166	Vireo altiloquus	A	31	NA	NA	A	NA	0.777	18.80714286		(lifehistory)(Barlow JC, Bortolotti GR (1986) Adaptive divergence in morphology and behavior in some New World island birds, with special reference to Vireo altiloquus. in Acta 19 Congressus Internationalis Ornithologici. Vol. 2. (ed. Ouellet H) p. 1535-1549: Ottawa., parental)
2167	Vireo griseus	A	33	NA	NA	A	10	0.60088	11.8		(427444445818, anage)(lifehistory)(Hopp SL, Kirby A, Boone CA (2000) White-eyed vireo. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-20. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
2168	Vireo magister	NA	NA	NA	NA	A	NA	0.74592	15.4		(lifehistory)(Howell SNG, Webb S (1995) A guide to the birds of Mexico and northern Central America. Oxford University Press: Oxford. , parental)

2169	Vireo olivaceus	A	31	NA	NA	A	11.25	0.63196	16.85	(427444445732, anage)(lifehistory)(Cimprich DA, Moore FR, Guilfoyle MP (2000) Red-eyed vireo. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-24. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
2170	Vireo philadelphicus	A	23	NA	NA	NA	13.5	0.485	12.025	(427444445, anage)(James RD (1996) Philadelphia vireo. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-12. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
2171	Volatinia jacarina	A	NA	NA	NA	A	9	0.50764	9.85	(lifehistory)(Chesser RT (1994) Migration in South America: an overview of the austral system. Bird Conservation International 4: 91-107. Almeida JB, Macedo RH (2001) Lek-like mating system of the monogamous blue-black grassquit. Auk 118: 404-411., parental)
2172	Vultur gryphus	A	NA	NA	NA	SA	180	32.69616	10500	(24387328551149, anage)(lifehistory)(Houston DC (1994) Family Cathartidae (New World vultures). in Handbook of the birds of the world. Vol. 2. New world vultures to guineafowl. (ed. del Hoyo J, Elliott A, Saragatal J) p. 24-41. Lynx edicions: Barcelona., parental)
2173	Willisornis poecilinotus	NA	NA	NA	NA	A	NA	0.66304	18.275	(lifehistory)(Zimmer KJ, Isler ML (2003) Family Thamnophilidae (Typical Antbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 448-681. Lynx edicions: Barcelona., parental)
2174	Wilsonia citrina	A	41	NA	NA	A	8.5	0.49728	10.7	(425427444445820, anage)(lifehistory)(Curson J, Quinn D, Beadle D (1994) New World warblers. Christopher Helm: London. , parental)
2175	Xanthocephalus xanthocephalus	A	23.5	NA	NA	A	16.9	1.7094	72.5	(444445732, anage)(lifehistory)(Jaramillo A, Burke P (1999) New world blackbirds: the icterids. Christopher Helm: London. , parental)
2176	Xanthomyza phrygia	A	44	NA	NA	A	NA	1.067550897	33.51523126	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne.)(Sayol et al., 2209)
2177	Xanthotis flaviventer	NA	NA	NA	NA	A	14	1.0878	37.625	(lifehistory)(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats.Oxford University Press: Melbourne., parental)

2178	Xanthotis macleayanus	NA	NA	NA	NA	A	NA	0.937 4115 65	32.49 21980 3	(Higgins PJ, Peter JM, Steele WK, eds. (2001) Handbook of Australian, New Zealand and Antarctic Birds. Volume 5: Tyrant-flycatchers to Chats. Oxford University Press: Melbourne.)(Sayol et al., 2210)
2179	Xema sabini	P	13	NA	NA	SP	26.25	2.289 56	195	(lifehistory)(Burger J, Gochfeld M (1996) Family Laridae (Gulls). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 572-623. Lynx edicions: Barcelona., parental)
2180	Xenops minutus	NA	NA	NA	NA	A	13.5	0.507 64	10.2	(lifehistory)(Remsen JV, Jr. (2003) Family Furnariidae (Ovenbirds). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 162-357. Lynx edicions: Barcelona., parental)
2181	Xenus cinereus	P	0	NA	NA	P	20	1.067 08	78.8	(450820, anage)(lifehistory)(Piersma T, van Gils J, Wiersma P (1996) Family Scolopacidae (Sandpipers, snipes and phalaropes). in Handbook of the birds of the world. Vol. 3. Hoatzin to auks. (ed. del Hoyo J, Elliott A, Saragatal J) p. 444-533. Lynx edicions: Barcelona., parental)
2182	Xiphorhynchus guttatus	NA	NA	NA	NA	A	20	1.554	59.7	(lifehistory)(Marantz CA, Aleixo A, Bevier LR, Patten MA (2003) Family Dendrocolaptidae (Woodcreepers). in Handbook of the birds of the world. Vol. 8. Broadbills to tapaculos. (ed. del Hoyo J, Elliott A, Christie D) p. 358-447. Lynx edicions: Barcelona., parental)
2183	Xolmis irupero	NA	NA	NA	NA	A	NA	0.849 52	27.85	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona., parental)
2184	Xolmis pyrope	NA	NA	NA	NA	A	NA	1.326 08	36	(lifehistory)(Fitzpatrick JW, Bates JM, Bostwick KS, Caballero IC, Clock BM, Farnsworth A, Hosner PA, Joseph L, Langham GM, Lebbin DJ, Mobley JA, Robbins MB, Scholes E, Tello JG, Walther BA, Zimmer KJ (2004) Family Tyrannidae (Tyrant-flycatchers). in Handbook of the birds of the world. Vol. 9. Cotingas to pipits and wagtails. (ed. del Hoyo J, Elliott A, Christie D) p. 110-169. Lynx edicions: Barcelona. Vuilleumier F (1994) Nesting behavior, distribution, and speciation of Patagonian and Andean ground tyrants (Myiotheretes, Xolmis,

											Neoxolmis, Agriornis, and Muscisaxicola). Ornitologia Neotropical 5: 1-55., parental)
218 5	Yuhina diademata	NA	NA	NA	NA	A	NA	0.797 72	12		(lifecycle)(Robson C (2000) A field guide to the birds of south-east Asia. New Holland: London. , parental)
218 6	Zenaida asiatica	A	43	NA	NA	A	15	1.605 3906 84	126.9 76242 2		(444445)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2211)
218 7	Zenaida auriculata	A	NA	NA	NA	A	13.5	1.139 2465 74	90.46 83440 5		(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona.)(Sayol et al., 2212)
218 8	Zenaida aurita	A	NA	NA	NA	A	14	1.502 2	159		(427820, anage)(lifecycle)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
218 9	Zenaida macroura	A	29	NA	NA	A	14	1.232 84	119		(427437444445510, anage)(lifecycle)(Gibbs D, Barnes E, Cox J (2001) Pigeons and doves: a guide to the pigeons and doves of the world. Pica Press: Sussex. Baptista LF, Trail PW, Horblit HM (1997) Family Columbidae (Pigeons and Doves). in Handbook of the birds of the world. Vol. 4. Sandgrouse to cuckoos. (ed. del Hoyo J, Elliott A, Saragatal J) p. 60-245. Lynx edicions: Barcelona., parental)
219 0	Zonotrichia albicollis	A	22.5	NA	NA	A	10	1.087 8	25.35		(61427435444445700, anage)(lifecycle)(Falls JB, Kopachena JG (1994) White-throated sparrow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-32. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
219 1	Zonotrichia atricapilla	A	NA	NA	NA	NA	NA	NA	NA	NA	NA

219	Zonotrichia									(Byers C, Olsson U, Curson J (1995) Buntings and sparrows: a guide to the buntings and North American sparrows. Pica Press: Sussex. , parental)
2	capensis	A	NA	NA	NA	NA	11	0.8	21	
219	Zonotrichia									(62427435444445700, anage)(lifehistory)(Chilton G, Baker MC, Barrentine CD, Cunningham MA (1995) White-crowned sparrow. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-28. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
3	leucophrys	A	25	NA	NA	A	10	1.004	92	27.96
219	Zoothra									(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona.)(Sayol et al., 2213)
4	heinei	NA	NA	NA	NA	A	NA	1.865	1978	72.96
219	Zoothra									(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
5	lunulata	NA	NA	NA	NA	A	NA	2.237	76	129.5
219	Zoothra									(427444445, anage)(lifehistory)(Collar NJ (2005) Family Turdidae (Thrushes). in Handbook of the birds of the world. Vol. 10. Cuckoo-shrikes to thrushes. (ed. del Hoyo J, Elliott A, Christie D) p. 514-807. Lynx edicions: Barcelona., parental)
6	naevia	A	NA	NA	NA	A	14	1.771	56	79.22
219	Zosterops									(445577, anage)(lifehistory)(van Riper SG (2000) Japanese white-eye. in Birds of North America: Life Histories for the Twenty-First Century. (ed. Poole A, Stettenheim P, Gill F) p. 1-16. American Ornithologist's Union and Academy of Natural Sciences, Philadelphia: Washington, D.C., parental)
7	japonicus	A	27.5	NA	NA	A	10	0.559	44	11.25
219	Zosterops									(8209581143, anage)(lifehistory)(Robertson BC, Degnan SM, Kikkawa J, Moritz CC (2001) Genetic monogamy in the absence of paternity guards: the Capricorn silvereye, Zosterops lateralis chlorocephalus, on Heron Island. Behavioral Ecology 12: 666-673., parental)
8	lateralis	A	37	NA	NA	A	12	0.486	92	12.39

*Griesser: Griesser, M., Drobniak, S. M., Graber, S. M., & van Schaik, C. P. (2023). Parental provisioning drives brain size in birds. *Proceedings of the National Academy of Sciences*, 120(2), e2121467120.

- *Kverkova: Kverková, K., Marhounová, L., Polonyiová, A., Kocourek, M., Zhang, Y., Olkowicz, S., ... & Němec, P. (2022). The evolution of brain neuron numbers in amniotes. *Proceedings of the National Academy of Sciences*, 119(11), e2121624119.
- *Massen: Massen, J. J., Hartlieb, M., Martin, J. S., Leitgeb, E. B., Hockl, J., Kocourek, M., ... & Gallup, A. C. (2021). Brain size and neuron numbers drive differences in yawn duration across mammals and birds. *Communications Biology*, 4(1), 503.
- *Olowickz: Olkowicz, S., Kocourek, M., Lučan, R. K., Porteš, M., Fitch, W. T., Herculano-Houzel, S., & Němec, P. (2016). Birds have primate-like numbers of neurons in the forebrain. *Proceedings of the National Academy of Sciences*, 113(26), 7255-7260.
- *Strockens: Ströckens, F., Neves, K., Kirchem, S., Schwab, C., Herculano-Houzel, S., & Güntürkün, O. (2022). High associative neuron numbers could drive cognitive performance in corvid species. *Journal of Comparative Neurology*, 530(10), 1588-1605.
- *Sol: Sol, D., Olkowicz, S., Sayol, F., Kocourek, M., Zhang, Y., Marhounová, L., ... & Němec, P. (2022). Neuron numbers link innovativeness with both absolute and relative brain size in birds. *Nature Ecology & Evolution*, 6(9), 1381-1389.