

# BIOPHILATELY

OFFICIAL JOURNAL OF THE BIOLOGY UNIT OF ATA  
JUNE 2020 VOLUME 69 NUMBER 2

Enough Already! But COVID-19 is a Biological topic!



See Page 78

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The purpose of this journal is to provide members with informative articles dealing with biological topics and to publish listings covering the new **zoological** and **botanical** issues of the world, identified and classified to the best of our ability.

Please send letters, comments on the journal, articles, or new material to the editor (data above). The publisher will handle requests for issues from the current year. Contact the librarian (address above) for copies of all other issues.

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**PLEASE NOTE: Material for the next issue should be in the hands of the editor before 15 August 2020.**

## FROM THE INTERIM EDITOR'S DESK

As many of you have probably gathered, this is a sad time for the Biology Unit. We lost our editor when Jack Congrove died unexpectedly in April (see page 76 for his obituary). Jack sent a message March 21, alerting our Unit President and Secretary that he was about to enter the hospital for tests to determine the extent of a pancreatic tumor. He went home after outpatient surgery, but had to return to the emergency room. His sister and nephew came from Ohio to be with him, and she kept me apprised of the prognosis each day.

Jack had been editing Biophilately since 2010, when he took over from Alan Hanks. In order to put out a journal for June, I agreed to be an interim editor. I do not want to continue doing this job, because I am already serving as Secretary, Treasurer, Webmaster and Associate Editor for Botany.

I am pleading desperately for someone in the Study Unit to take over as editor.

So what does the position involve? There are associate editors who put together the new issue lists. Jack used to go over these lists very carefully and point out any typos or errors. When the journal is submitted for a philatelic literature competition, the major criticism is that there are not enough original articles. So the editor needs to solicit additional articles for publication. They could be reprints from other journals, or from past issues of Biophilately. The editor is not responsible for publishing Biophilately. Dick Roman, as our publisher since 2011, has been responsible for printing and mailing the journal from a pdf file sent by the editor. We are currently investigating a printer in Minnesota as a publisher.

Helpful skills are working with publishing software, manipulating images and pdf files.

Please contact me at [chris-dahle@biophilately.org](mailto:chris-dahle@biophilately.org) if you are at all interested in taking over this most important position for our Study Unit. We can help out with anyone getting started. You don't have to be a resident of the United States. Our Associate Editor for Mammals is in the U.K., for Paleontology in Germany and a Co-editor for Entomology is in Angola. It is easy to electronically transfer files, even the large ones we generate for the journal.

Our long-time Associate Editor for marine Invertebrates decided recently to pursue other interests. We are still looking for a replacement. If there is a Microbiologist in our membership, we would appreciate your expertise in serving as our Associate Editor for Microbiology.

Jack innovated when he took over as editor. He introduced the colored cover and called for a column on New Plants. He advocated for a Microbiology new issues list. We will miss his enthusiasm and expertise greatly.

Christopher Dahle BU 1269

### DUES RATES (US\$)

US membership \$25

Canada membership \$30

Worldwide membership \$45

On-line membership \$15

Please see the Biology Unit website ([www.biophilately.org](http://www.biophilately.org)) for membership applications. Several payment options are available. Send applications and payments payable to the Biology Unit of ATA to: Chris Dahle, 1401 Linmar Drive NE, Cedar Rapids, IA 52402

### ADVERTISING RATES

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## PRESIDENT'S MESSAGE

The last few months have certainly been trying for all of us. For many they have been filled with emotion and loss. We all need to support those who have lost family, friends or financial means. As the Corona Virus lessens its grip on this country, we are slowly getting back to normal. I had planned to write about the GREAT AMERICAN STAMP SHOW, which is to be held the third week end of August. At this time, as I write, there is no final word on whether it will go on or be cancelled. It has been hard hearing of all the shows that are cancelling because of the virus. I certainly enjoy the personal contact with dealers and fellow collectors. Hopefully we will all see each other soon.



On a personal note to all of the ATA and Biology Study Unit, I am saddened to report the death of our dear friend Jack Congrove. He was an integral part of both the ATA and the Bio Unit for so long. Jack was Vice President of our unit as well as editor of Biophilately, shoes that will be difficult to fill. Jack was a mentor to so many, whether through his local stamp club or through the ATA. He loved Alexander Hamilton. His exhibit on Hamilton was fantastic. I remember at New York 2016 Jack was so excited, he had scored tickets to HAMILTON! on Broadway. He will always be remembered for his hats. Jack always wore a baseball cap, and at shows a topically themed shirt. We will miss you Jack!

During the stay at home time I have decided to redo my garden. I want an English Cottage Garden! I have planted Rose bushes, Phlox, Hollyhocks, Larkspur, Foxglove, Lavender, Anemone, Columbine, Lily of the valley, Hyssop, and Canterbury bells. And of course I have started a climbing rose on the mandatory arbor! Birds are flocking to the feeders, I could watch them for hours.

I hope everyone is well and finding enough things to do. Please stay safe and enjoy your stamps.

Laurie Ryan

## SECRETARY TREASURER'S CORNER

The Secretary would like to apologize to members who received the wrong form for renewing their membership in the Unit. The form that you received was for an initial application to the Biology Unit. If you have not yet renewed, please do so now.

Jack Congrove was a mainstay of the Biology Unit for many years and a personal friend. When my wife and I went to Seattle to join a cruise to Alaska, we were able to accept Jack's invitation to visit. He picked us up at the airport, then took us to one of Seattle's finest restaurants. After dinner we went to the Space Needle, but with long lines to go up, we decided against that. Jack was at many of the National Topical Stamp Shows during the last couple of decades, and would step in to run the Annual meeting if there were no other officers available.



## ANNUAL MEETING CANCELED

The Annual Meeting of the Biology Unit was scheduled for the Great American Stamp Show, August 20-23 in Hartford, Connecticut and now canceled.



**ALBUM CLOSED****IN MEMORIAM: JACK R. CONGROVE (BU1424)**

Jack R. Congrove of Ft. Lewis, Wash., an ATA leader for 35 years, died April 8, 2020, of cancer at age 72.

Just prior to his death, he was presented the ATA's highest award, Distinguished Topical Philatelist, given to individuals who have made significant contributions to philately, especially topical philately.

The award will also be presented this year to Wayne L. Youngblood.



Jack filled many roles in ATA over the years. He joined the ATA board in 2015, and became second vice president in 2016. As a member of the ATA executive board, he provided leadership in finance and strategic planning, and ATA benefitted in many ways from his creative ideas and practical problem-solving skills. He was willing to take on big projects, but was also available for small chores at stamp shows, such as cancelling cachets or setting up a booth. He chaired the Portland National Topical Stamp Show (NTSS) with Orle Trier in 2015.

Most recently he was co-editor of ATA handbook #168, Topical Adventures – A Guide to Topical and Thematic Stamp Collecting, which will be published this summer. Martin Kent Miller is designing the sections that were not

finished by Jack.

Alexander Hamilton: Soldier, Financier, Statesman, Founder, Jack's acclaimed exhibit, won the Grand Award and large gold medal at the NTSS in 2018. He subsequently showed the exhibit in the APS Champion of Champions exhibition in Omaha, Neb., 2019. He also exhibited Covered Bridges of Fairfield County, Ohio. He collected butterfly and moth stamps, and planned to prepare an exhibit.

Jack was an accomplished philatelic writer and editor. He edited Biophilately, the gold medal winning journal of the Biology Study Unit from 2011 until his death. He also served as a director of the unit for the past 10 years. In 2013, he wrote the history of the unit.

Jack edited the Federated Philatelist, the journal of the Northwest Federation of Stamp Clubs, from 2014 until his death. In 2016, the Federation recognized Jack with their highest honor, the Northwest Distinguished Philatelist Award, for his contributions to philately. He was also editor of the newsletter of the Northwest chapter of the American Airmail Society.

One of Jack's favorite projects was the Seattle Philatelic Exhibition (SEAPEX). He was instrumental in gaining World Series of Philately status for SEAPEX in 2015, and served as president of the board. Jack was an active member in the Evergreen Stamp Club in Kent, Wash., giving presentations and assisting greatly at the bi-annual club shows. Jack was instrumental in securing ATA Chapter status for the club in 2016.

An APS member since 2012, Jack frequently volunteered in the youth section at its shows. In 2017, he received the Nicholas Carter Recognition Award for National Service. He was a member of many philatelic organizations, including the American Association of Philatelic Exhibitors, Women Exhibitors, Military Postal History Society, Americana Study Unit, Rocky Mountain Philatelic Library, Biology Study Unit, Gastronomy on Stamps Study Unit and Wine on Stamps Study Unit.

Jack grew up on his parents' dairy farm in Pickerington, Ohio, where he learned his strong work ethic and developed the habit of getting up at 5 a.m., something he did his entire life. He was valedictorian of his high school class and continued to stay in touch with his classmates. He went on to earn a B.S. degree in chemical engineering at Ohio University.

After serving 20 years as a US Army field artillery officer, Jack retired at the rank of major. He served in Vietnam, Germany and on the UN Peace Keeping Forces in the Middle East. Following retirement, he worked for a contractor supporting Army testing at Joint Base Lewis McChord in Ft. Lewis, Wash. He also owned a printing and publishing company, where he edited academic and commercial publications.

Jack had many friends throughout the world. When we hear the phrase, "When you want to get something done, ask a busy person," he immediately comes to mind. He will be remembered for his warmth, ready smile and, of course, for his signature apparel—the baseball cap.

[*Ed: This obituary is posted on the ATA web site. The original can be found at <http://americantopicalassn.org/jcongroveobit.shtml>. It also appeared in the May-June issue of Topical Time. ]*

## Jack R. Congrove Memorial Fund

April 15, 2020

At the request of numerous people, we have established a memorial fund to honor Jack R. Congrove, ATA second vice president and 35-year member, who died April 8. Contributions can be sent to the ATA office, and the family will be notified. Jack was an accomplished writer and editor. Funds will be earmarked for ATA publications. Please note on your check or PayPal contribution: Jack Congrove Memorial, and mail to ATA, PO Box 2143, Greer, SC 29652-2143. PayPal contributions can be made to <http://americantopicalassn.org/home.shtml>

### VACANCY ON BOARD OF DIRECTORS

We need to replace Jack Congrove on the Board of Directors. If anyone would like to volunteer to fill this position, please contact the Secretary at [chris-dahle@biophilately.org](mailto:chris-dahle@biophilately.org). The position is not very demanding, mostly consulting by email when decisions need to be made.

### NEW MEMBERS

Welcome to the Biology Unit to the following:

- |      |                                |  |
|------|--------------------------------|--|
| 1901 | Wilfrid Wells, Australia       | all biology (3) especially birds (5) and flowers (2)               |
| 1902 | Rainer Schindewolf, Germany    | recent (3) and prehistoric mammals (0), zoos and aquaria           |
| 1903 | Prathmesh Patel, Alta Loma, CA | birds of prey (5), flora (2) & fauna (3), medicine, railways       |
| 1904 | Joyce Lavery, Murfreesboro, TN | elephants, whales, dogs & pets, squirrels, giraffes (3), birds (5) |
| 1905 | Melanie Parker, Clarion, PA    | butterflies (7)  |

### REINSTATED MEMBERS

- |      |                                  |  |
|------|----------------------------------|--|
| 1294 | David Donsker, North Hampton, NH | mammals (8) birds (5), reptiles & amphibians (4) |
|------|----------------------------------|--|

## Philatelic Responses to COVID-19

It is now becoming clear that some countries have been able to combat the novel corona virus better than others. One approach to restrict the spread of the pandemic was extreme isolation, and complete lockdown of cities. China did this to 11 million inhabitants of the city of Wuhan, where it seems the virus jumped from animals to humans. Chinese postal officials released images of two pairs of stamps. Both of them feature hospital workers and first responders combating the illness.

Another approach was taken in Korea, where authorities identified cases of infection and then tracked the contacts of infected individuals using cell phone data.

Other countries seem to have learned from the SARS (Severe Acute Respiratory Syndrome) epidemic in 2003. Countries that were hit hard by SARS, like Viet Nam and Taiwan, seem to be faring much better in their response to COVID-19. These countries have fewer cases and lower mortality than other countries. Viet Nam's stamps feature hospital workers on one



Viet Nam issued a pair of stamps 31 March 2020

stamp and researchers on the other.

In Europe, Italy and Spain have had the highest number of cases of COVID-19. It is not clear why these nations were affected so severely. Infections and deaths have been very high. Spain has issued stamps thanking the health care workers.



Switzerland has not seen as high a proportion of infection as other countries. It has issued an interesting image on semi-postal stamps. The design is also a

fascination. The stamp was issued on April 4 in sheets of 10 with a value of 1 CHF and a surcharge of 5 CHF. The sheets are sold for 50 CHF, which means that the 50 francs go to charity, Swiss Solidarity and the Red Cross. The Swiss Post Office essentially is offering 10 free stamps.



The stamp symbolizes solidarity during the coronavirus pandemic: with Switzerland at the center, with the encircled cross revealing a shining globe.

The stamp was designed at Berne-based studio Nulleins Kommunikationsdesign by Alexandra Steiner. They were printed by Joh. Enschedé, Haarlem, Netherlands in 4 colors by offset on white stamp paper with matt gum.



Iran has seen one of the highest incidences of infection, with many deaths. This stamp was one of the first to be issued, as early as March 17, showing medical workers.

The United States as of this writing has seen the highest number of cases and the greatest death toll. Infection rates are expected to climb in Africa and South America. North African countries like Morocco and Tunisia saw outbreaks first. Brazil and Ecuador have both seen accelerating cases.



China planned to issue two pairs of stamps on 7 April, 2020, now postponed indefinitely.



For all of these the advice to prevent infection is "Stay Home."

<https://www.postoveznamky.sk/tribute-to-first-line-warriors-coronavirus-covid-19-pandemic-and-philately>

For those of you who need an update about viruses and how to protect yourself, is a fact sheet from Johns Hopkins University Infectious Disease Department:

\* The virus is not a living organism, but consists of protein molecules and RNA covered by a protective layer of lipid (fat), which, when absorbed by the cells of the ocular, nasal or buccal mucosa, changes their genetic code and converts them into aggressor and multiplier cells.

\* Since the virus is not a living organism but a protein molecule, it is not killed, but decays on its own. The disintegration time depends on the temperature, humidity and type of material where it lies.

\* The virus is very fragile; the only thing that protects it is a thin outer layer of fat. That is why any soap or detergent is the best remedy, because the foam CUTS the FAT (that is why you have to rub so much: for 20 seconds or more, to make a lot of foam). By dissolving the fat layer, the protein molecule disperses and breaks down on its own.



\* HEAT melts fat; this is why it is so good to use water above 77 degrees

Fahrenheit for washing hands, clothes and everything. In addition, hot water makes more foam and that makes it even more useful.

\* Alcohol or any mixture with alcohol over 65% DISSOLVES ANY FAT, especially the external lipid layer of the virus.

\* Any mix with 1 part bleach and 5 parts water directly dissolves the protein, breaks it down from the inside.

\* Oxygenated water helps long after soap, alcohol and chlorine, because peroxide dissolves the virus protein, but you have to use it pure and it hurts your skin.

\* NO BACTERICIDE OR ANTIBIOTIC SERVES. The virus is not a living organism like bacteria; antibodies cannot kill what is not alive.

\* NEVER shake used or unused clothing, sheets or cloth. While it is glued to a porous surface, it is very inert and disintegrates only

- between 3 hours (fabric and porous),
- 4 hours (copper and wood)
- 24 hours (cardboard),
- 42 hours (metal) and
- 72 hours (plastic).

But if you shake it or use a feather duster, the virus molecules float in the air for up to 3 hours, and can lodge in your nose.

\* The virus molecules remain very stable in external cold, or artificial as air conditioners in houses and cars. They also need moisture to stay stable, and especially darkness. Therefore, dehumidified, dry, warm and bright environments will degrade it faster.

\* UV LIGHT on any object that may contain it breaks down the virus protein. For example, to disinfect and reuse a mask is perfect. Be careful, it also breaks down collagen (which is protein) in the skin.

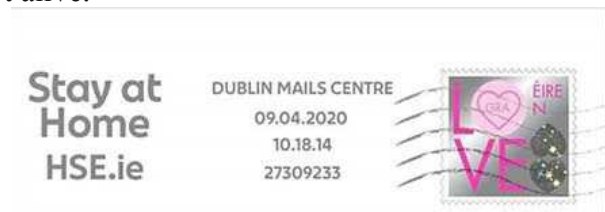
\* The virus CANNOT go through healthy skin.

\* Vinegar is NOT useful because it does not break down the protective layer of fat.

\* NO SPIRITS, NOR VODKA, serve. The strongest vodka is 40% alcohol, and you need 65%.



Royal Mail slogan cancel



Dublin, Ireland slogan cancel



\* LISTERINE IF IT SERVES! It is 65% alcohol.

\* The more confined the space, the more concentration of the virus there can be. The more open or naturally ventilated, the less.

\* You have to wash your hands before and after touching mucosa, food, locks, knobs, switches, remote control, cell phone, watches, computers, desks, TV, etc. And when using the bathroom.

\* You have to Moisturize dry hands from so much washing them, because the molecules can hide in the micro cracks. The thicker the moisturizer, the better.

\* Also keep your NAILS SHORT so that the virus does not hide there.

Chris Dahle BU 1269

## Garden Stamps

Ten new stamps from the U.S. Postal Service celebrate the beauty of American gardens.

Each stamp features a photograph of a small but evocative area of one of ten gardens: The gardens include: Biltmore Estate Gardens (North Carolina); Brooklyn Botanic Garden (New York); Chicago Botanic Garden (Illinois); Coastal Maine Botanical Gardens (Maine); Dumbarton Oaks Garden (District of Columbia); The Huntington Botanical Gardens (California); Alfred B. Maclay Gardens State Park (Florida); Norfolk Botanical Garden (Virginia); Stan Hywet Hall & Gardens (Ohio); and Winterthur Garden (Delaware).

The love of gardening stretches back to the earliest years of our country, inspiring George Washington, Thomas Jefferson, and other Founding Fathers to plant some of America's most iconic colonial-era gardens. From the 19th century to today, landscape designers have continued that tradition. Conceived for many reasons—for food or pleasure, as places of education and scientific study, as an expression of the owners' artistic sensibilities, as spaces for the public to commune with nature, or simply for the love of gardening—American gardens capture our imagination and satisfy a yearning for beauty and order.

Every year, millions of Americans visit gardens, public and private. Many public gardens are open year-round; in addition to the plants and trees on display, classes, exhibits, and other events encourage visitors to experiment and create their own gardens. During the spring and summer, planned tours and open garden days allow visitors to step into private enclaves and see how homeowners have enhanced and designed their spaces, be they large estates, small suburban yards, or rooftop aeries. Art director Ethel Kessler designed the stamps with photos taken by Allen Rokach between 1996 and 2014.



[https://store.usps.com/store/product/buy-stamps/american-gardens-S\\_572704](https://store.usps.com/store/product/buy-stamps/american-gardens-S_572704)

# Prehistoric Life of the Bakony Site, Hungary, Part 1

Dr. Peter Voice, BU 1863

Western Michigan University and the Michigan Geological Survey

This article describes the 2020 issue from Hungary – the World of the Bakony Dinosaurs II. It is the second in a series of issues from Hungary, with the first set published in 2018. The 2020 stamps were released as a souvenir sheet with 6 stamps (Figure 1). A special imperforate version was also printed (4,000 numbered sheets) but is not useable as postage (Figure 2). In addition, an official first day cover (Figure 3) and postmark (Figure 4) were released for the First Day Ceremony on March 4.



Figure 1: The 2020 Dinosaurs of the Bakony World Set, Hungary.



Figure 2: An example of the imperforate special souvenir sheet.

Scott Catalogue numbers have not been issued yet for these stamps. [Numbers were published in the May issue of Scott's Monthly Update, Scott #4545a-f. Ed.] The geological context of the Bakony Region will be explored in part 2, we will focus on the species shown on the 2020 set in this article. The 2020 set includes depictions of reconstructions of *Hungarobatrachus sukachi*, *Mochlodon vorosi*, *Bauxitornis mindszentiae*, *Atractosteus*, *Foxemys trabanti*, and *Doratodon carcharidens*.

*Hungarobatrachus sukachi* is one of the most unusual fossils from the Bakony site – as frogs generally do not preserve well in the fossil record as their bones are usually too delicate. Fossils include portions of the pelvic girdle. The paleontologists who described the fossil interpreted the pelvic girdle structure, suggesting that this frog was equally at home in both the terrestrial world and in water, able to both jump and swim. It is the oldest true frog found in Europe to date.

Two bird species are known from the Iharkút locality – *Bauxitornis mindszentiae* and a second un-named species represented by a small thigh bone. Both species are members



Figure 3: The Official first day cover which is illustrated with individuals of *Mochlodon vorosi* watching the hatching of their young.



of the Enantiornithes, an extinct clade of birds from the Late Cretaceous with some more dinosaurian characteristics including teeth and clawed fingers on the wings. *Bauxitornis mindszentiae* is known



Figure 4: Special Postmark for the First Day Ceremony. Picture courtesy of Michael Kogan (<http://www.paleophilatelie.eu/index.html>).

from about a dozen bones (mostly from the feet – figure 5b) and was the size of a modern buzzard. The type specimen was discovered in a bauxite mine – hence the name “bird of the bauxite”. The species was also named after Andrea Mindszenty, a geologist at Eötvös Loránd University in Budapest, Hungary.

*Mochlodon vorosi* is the only non-avian dinosaur in the 2020 set. It was a small herbivore, measuring in length. The name *Mochlodon* is derived from Greek mokhlos – bar and odon-

tooth and describes the bar-shaped ridges on the teeth. It is also named after Paleontologist Attila Vörös. One of its closer (and much larger) relatives is the famous *Iguanodon*.

*Atractosteus* sp. is a genus of gar that ranges from the Early Cretaceous to the present. In fact, three living species including the Alligator Gar (*A. spatula*) are found in North and Central America today. At the Iharkút locality, *Atractosteus* and a related genus *Lepisosteus* are known from a variety of fragmentary fossils of the jaws (Figure 5a), skull, vertebrae and scales.

*Foxemys trabanti* is one of the most common fossils at the Iharkút locality with abundant fossils of skulls (Figure 5c), shells, vertebrate, pelvic and pectoral girdles, and limb bones. *Foxemys* is a turtle – and the species *Foxemys trabanti* was named in honor of the Trabant 601 (a type of vehicle that the researchers used during their field expeditions to Bakony). *Foxemys* is a genus within a larger group of turtles that are informally referred to as side-neck turtles – because when they retract their head into the shell, they retract it horizontally to the side. *Foxemys trabanti* is interpreted as a durophage – an animal that eats shelled animals like snails or bivalves.

The last stamp in the set commemorates *Doratodon carcharidens*, a terrestrial crocodile. The few fossil specimens from the Iharkút locality include jaw fragments and sharp, serrated teeth. Similar specimens have been found from Late Cretaceous rocks of Austria.

Part 2 will explore the 2018 issue and describe the world of the Bakony region during the Late Cretaceous in more detail.

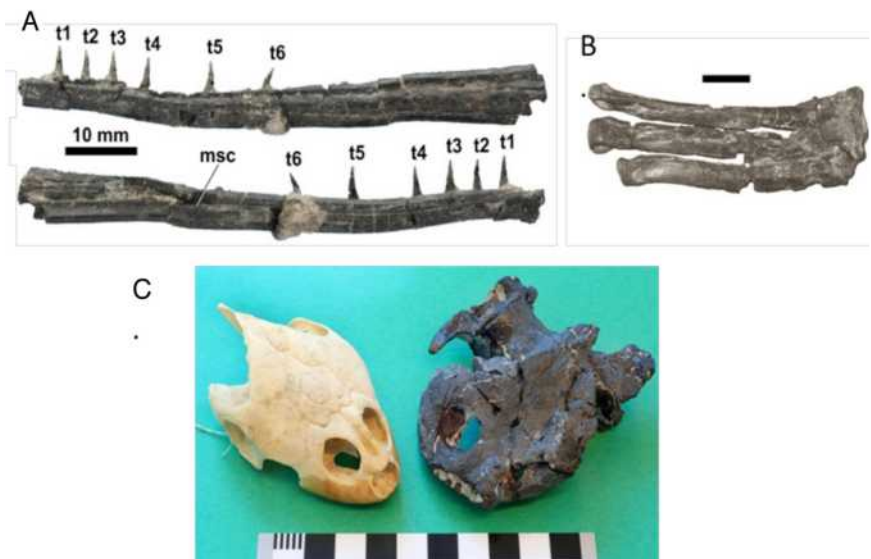


Figure 5: Fossil specimens from the Bakony Region. 5A. jaws from *Atractosteus* sp. from Szabo et al. (2016) 5B. Metatarsal bones (foot) of *Bauxitornis mindszentiae*. Picture from Wikipedia.org. 5C. Comparison of the modern side-necked turtle, *Podocnemis unifilis* from Brazil with *Foxemys trabanti* skull from the Late Cretaceous of the Bakony region. Scale bar is in centimeters. Picture from <http://magyardinoszaurusz.hu/en/foxemys-trabanti/>.



**References:****Magyar Post Materials for the 2018 and 2020 issues:**

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**Hungarian and Eastern European Paleontology and Geology**

<http://magyardinoszaurusz.hu/en/>

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## BOTANY

Editor

Christopher E. Dahle, BU1269



### New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
<b>BURMA (Myanmar)</b> <b>2019</b> (Festivals type of 2019, see Vol. 68 (4) p.251)				
452	200k	<i>Nelumbo nucifera</i> (Thidingyut Festival of Lights)	Nelumbonaceae	Fl B
453	200k	<i>Luffa acutangula</i> (Kathina Robe Offering Festival)	Cucurbitaceae	Fl B
454	200k	<i>Bulbophyllum auricomum</i> (Myanmar Literature Festival)	Orchidaceae	Fl B
<b>CHINA (People's Republic)</b> <b>2019 March 12</b> (Arbor Day) (Single)				
44603	\$1.20	Stylized tree		T A S
<b>ECUADOR</b> <b>2019 September 26</b> (Homage to Alexander Von Humboldt) (Strip/5)				
2236a	\$1.00	<i>Telipogon humboldtiana</i>	Orchidaceae	Fl A
2236b	\$1.00	<i>Dichaea bonplandiana</i>	Orchidaceae	Fl A
2236e	\$1.00	<i>Telipogon montufanriana</i>	Orchidaceae	Fl A
<b>GERMANY</b> <b>2019 November 2</b> (Flower type of 2005) (Single)				
3131	370c	Fingerhut, foxglove, <i>Digitalis purpurea</i>	Plantaginaceae	Fl A
<b>2020 January 2</b> (Flower type of 2005) (Single)				
3130	30c	Daylily, <i>Hemerocallis fulva</i> (perf14)	Xanthorrhoeaceae	Fl A
3132	30c	Daylily, <i>Hemerocallis fulva</i> (SA die cut 10¼x10)	Xanthorrhoeaceae	Fl A
<b>2020 January 2</b> (Van Gogh Painting) (Single)				
3147	155c	"Field of Poppies", <i>Papaver rhoeas</i> (perf 14)	Papaveraceae	Fl A
3148	155c	"Field of Poppies", <i>Papaver rhoeas</i> (SA die cut 11¼x11½)	Papaveraceae	Fl A
<b>GREAT BRITAIN (Isle of Man)</b> <b>2020 January 15</b> (Year of the Rat) (Set/4)				
2069-72		Stylized flowers		Fl B
<b>GUYANA</b> <b>2019 April 15</b> (World Federation of Rose Societies Convention, Nanyang) (SS/1)				
4595	\$800	Fenshan rose, <i>Rosa</i> 'Fenshan'	Rosaceae	Fl A SS
<b>2019 June 17</b> (Amazon water lily) (Sheet/4; SS/1)				
4607		Amazon water lily, <i>Victoria amazonica</i>	Nymphaeaceae	Fl A MS
4608	\$800	Amazon water lily, <i>Victoria amazonica</i>	Nymphaeaceae	Fl A SS
<b>HUNGARY</b> <b>2019 October 15</b> (Diplomatic relations with Japan, 150y) (Sheet/10)				
4535c	60fo	Chamomile flowers, <i>Matricaria chamomilla</i>	Asteraceae	Fl A MS
4535d	60fo	Cherry blossoms, <i>Prunus serrulata</i>	Rosaceae	Fl A MS
<b>2020 March 4</b> (Bakony Prehistoric animals) (MS/6)				
4545		Tulip tree, water lily, magnolia, <i>Liriodendron tulipifera</i> ; <i>Nymphaea</i> sp.; <i>Magnolia</i> sp.	Magnoliaceae; Nymphaeaceae	Fl B MS Z
<b>INDIA</b> <b>2019 August 1</b> (Sandalwood and jasmine scented stamps) (Set/4; SS/2)				
3125	25r	Sandalwood, <i>Santalum album</i>	Santalaceae	V B
3125a		Perf 13¾x13¼		

**INDIA (continued)**

3126	25r	Sandalwood flowers, <i>Santalum album</i>	Santalaceae	Fl B
3126a		Perf 13¾x13¼		
3126b		Souvenir sheet of 2, #3125a, 3126a		
3127	25r	Jasmine flowers and perfume, <i>Jasminum officinale</i>	Oleaceae	Fl B
3127a		Perf 13¾x13¼		
3128	25r	Jasmine flowers and perfume, <i>Jasminum officinale</i>	Oleaceae	Fl B
3128a		Souvenir sheet of 2, #3127a, 3128		

**2019 October 15** (Agarwood and orange scented stamps) (Set/4; SS/2)

3160	25r	Agarwood perfume, <i>Aquillaria sp.</i>	Thymelaceae	V B
3160a		Perf 13¾x13¼		
3161b		Souvenir sheet of 2, #3160a, 3161a		
3162	25r	Orange blossoms, <i>Citrus sinensis</i>	Rutaceae	Fl B
3162a		Perf 13¾x13¼		
3163	25r	Orange fruit, <i>Citrus sinensis</i>	Rutaceae	Fr B
3163a		Perf 13¾x13¼		
3163b		Souvenir sheet of 2, #3162a, 3163a		

**INDONESIA****2016 November 5** (Flowers and butterflies) (MS/6)

2453a	3000r	Lantana, red-sage, <i>Lantana camara</i>	Verbenaceae	Fl B MS
2453b	3000r	<i>Archidendron sp.</i>	Fabaceae	Fl B MS
2453c	3000r	Bandicoot berry, <i>Leea indica</i>	Vitaceae	Fl B MS
2453d	3000r	Lantana, red-sage, <i>Lantana camara</i>	Verbenaceae	Fl B MS
2453e	3000r	Lantana, red-sage, <i>Lantana camara</i>	Verbenaceae	Fl B MS
2453f	3000r	Bandicoot berry, <i>Leea indica</i>	Vitaceae	Fl B MS

**2018, November 5** (Fauna and flora) (Block or strip/6)

2490d	3000r	<i>Koompassia excelsa</i>	Fabaceae	T A
2490e	3000r	Ironwood, billian, <i>Eusideroxylon zwageri</i>	Lauraceae	T A
2490f	3000r	Borneo kauri, <i>Agathis borneensis</i>	Araucariaceae	T A

**IRAN****2017** (Single)

3184	50,000r	Lemon balm, <i>Melissa officinalis</i>	Lamiaceae	Fl A
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**2018** (Police Week) (Single)

3193	12,000r	Cap and rose, <i>Rosa x hybrida</i>	Rosaceae	Fl B
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**2019** (Ceremony for making rosewater) (Single)

3208	18,000r	Roses, <i>Rosa x hybrida</i>	Rosaceae	Fl B
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**IRELAND****2020 January 24** (Single)

2217	N (€1)	Apples and blossoms in heart shape, <i>Malus domestica</i>	Rosaceae	Fl Fr A
2217a		Vert. pair on backing, no printing		
2217b		Bklt pane of 10		

**ISRAEL****2019 September 18** (Flowers) (Set/3 with tabs, perf 13¼ x 13)

2234	4.10s	Autumn Crocus, <i>Sternbergia clusiana</i>	Amaryllidaceae	Fl A
2235	4.10s	Autumn grape hyacinth, <i>Muscari parviflorum</i>	Asparagaceae	Fl A
2236	4.10s	Desert Pancratium, <i>Pancratium sickenbergeri</i>	Amaryllidaceae	Fl A

**2019 November 26** (Bklt, SA die cut 11¼ x 12¼)

2237	4.10s	Autumn Crocus, <i>Sternbergia clusiana</i>	Amaryllidaceae	Fl A
2238	4.10s	Autumn grape hyacinth, <i>Muscari parviflorum</i>	Asparagaceae	Fl A
2239	4.10s	Desert Pancratium, <i>Pancratium sickenbergeri</i>	Amaryllidaceae	Fl A



**ISRAEL (Continued)**

2239a Bklt pane of 6, 2 each #2237-39

**2019 September 18 (Honeybees and flowers) (Set/3)**

2240	Sheet of 3		
2240a	2.50s	Wildflowers	Fl B U
2240b	7.40s	Citrus blossoms, <i>Citrus sp.</i>	Fl B
2240c	8.30s	Eucalyptus blossoms, <i>Eucalyptus sp.</i>	Fl B

**2020 February 4 (Single with tab)**

2251	(4.30s)	Rose, <i>Rosa x hybrida</i> (perf 14)	Rosaceae	Fl A
2252	(4.30s)	Rose, <i>Rosa x hybrida</i> (SA die cut 11 x 10½)	Rosaceae	Fl A
2252a		Pane of 12 + etiquettes		

**JAPAN****2019 February 20 (Set/10)**

4275	Sheet of 10, 2 each 4275a-e			
4275a	62¥	Cherry blossoms, <i>Prunus serrulata</i>	Rosaceae	Fl A
4275b	62¥	Bird and flowers		Fl B U
4275c	62¥	Flowers and butterfly		Fl B U
4275d	62¥	Poppies, <i>Papaver orientale</i>	Papaveraceae	Fl A
4275e	62¥	Dandelions, <i>Taraxacum campylodes</i>	Asteraceae	Fl A
4276	Sheet of 10, 2 each 4276a-e			
4276a	82¥	Cherry blossoms, <i>Prunus serrulata</i>	Rosaceae	Fl A
4276b	82¥	Rape blossoms and butterfly, <i>Brassica napus</i>	Brassicaceae	Fl A
4276c	82¥	Strawberries, <i>Fragaria x ananassa</i>	Rosaceae	Fl Fr A
4276d	82¥	Clover flowers and leaves, <i>Trifolium pratense</i>	Fabaceae	Fl V A
4276e	82¥	Tulips, <i>Tulipa x hybrida</i>	Liliaceae	Fl A

**2019 February 22 (30th Anniversary Emperor Akihito) (Set/2)**

4278	82¥	Chrysanthemums, <i>Chrysanthemum × morifolium</i>	Asteraceae	Fl A
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**2019 March 6 (Set/20)**

4279	Sheet of 10, 2 each 4279a-e			
4279a	62¥	Dandelions, <i>Taraxacum campylodes</i>	Asteraceae	Fl A
4279b	62¥	Wisteria, <i>Wisteria floribunda</i>	Fabaceae	Fl A
4279c	62¥	Rape blossoms, <i>Brassica napus</i>	Brassicaceae	Fl A
4279e	62¥	Azaleas, <i>Rhododendron sp.</i>	Ericaceae	Fl A
4279g	62¥	Daffodils, <i>Narcissus pseudonarcissus</i>	Amaryllidaceae	Fl A
4279h	62¥	Leaves		VAU
4279i	62¥	Peach and peach blossoms, <i>Prunus persica</i>	Rosaceae	Fl Fr A
4279j	62¥	Seaweed, <i>Aegagropila linnaei</i>	Pithophoraceae	V A
4280	Sheet of 10, 2 each 4280a-e			
4280b	82¥	Bluets, <i>Houstonia caerulea</i>	Rubiaceae	Fl A
4280c	82¥	Violets, <i>Viola sp.</i>	Violaceae	Fl A
4280e	82¥	Rice seedlings, <i>Oryza sativa</i>	Poaceae	V A
4280f	82¥	Cherry blossoms, <i>Prunus serrulata</i>	Rosaceae	Fl A
4280g	82¥	Kerria flowers, <i>Kerria japonica</i>	Rosaceae	Fl A
4280j	82¥	Pussy willows, <i>Salix sp.</i>	Salicaceae	Fl

**2019 April 1 (Set/10)**

4281	Sheet of 10, 2 each 4281a-e			
4281a	62¥	Dahlias and Cosmos, <i>Dahlia x hybrida</i> ; <i>Cosmos bipinnatus</i>	Asteraceae	Fl A
4281b	62¥	Apple blossoms, <i>Malus domestica</i>	Rosaceae	Fl A
4281c	62¥	Roses, <i>Rosa x hybrida</i>	Rosaceae	Fl A

**JAPAN (continued)**

4281d	62¥	Osmanthus, <i>Osmanthus fragrans</i>	Oleaceae	Fl A
4281e	62¥	Petunias, <i>Petunia x hybrida</i>	Solanaceae	Fl A
4282		Sheet of 10, 2 each 4282a-e		
4282a	82¥	Carnations, <i>Dianthus caryophyllus</i>	Caryophyllaceae	Fl A
4282b	82¥	Queen of the night, <i>Epiphyllum oxypetalum</i>	Cactaceae	Fl A
4282c	82¥	Roses, <i>Rosa x hybrida</i>	Rosaceae	Fl A
4282d	82¥	Sunflowers and cockscombs, <i>Helianthus annuus</i> ; <i>Celosia cristata</i>	Asteraceae; Amaranthaceae	Fl A
4282e	82¥	Irises, <i>Iris japonica</i>	Iridaceae	Fl A

**2019 April 12 (Flora & fauna of Kurobe Gorge) (Sheet/10)**

4283b	82¥	Japanese rowan, <i>Sorbus commixta</i>	Rosaceae	Fr A
4283e	82¥	Tiger lily, <i>Lilium tigrinum</i>	Liliaceae	Fl A
4283f	82¥	Hosta, <i>Hosta sp.</i>	Asparagaceae	Fl A
4283h	82¥	<i>Potentilla ancistrifolia</i> var. <i>dickinsii</i>	Rosaceae	Fl A

**2019 April 19 (Screen painting by Kiitsu Suzuki, 1796-1858) (Sheet/10)**

4284		Sheet of 10		
4284a-j	82¥	Morning glories, <i>Ipomoea nil</i>	Convolvulaceae	Fl A

**2019 May 28 (Set/5)**

4291	62¥	Japanese cypress, <i>Chamaecyparis obtusa</i>	Cupressaceae	T A
4292	62¥	Star magnolia, <i>Magnolia stellata</i>	Magnoliaceae	Fl A
4293	62¥	Mongolian oak, <i>Quercus mongolica</i>	Fagaceae	Fr A
4294	62¥	Chinese fringe tree, <i>Chionanthus retusus</i>	Oleaceae	Fl A
4295	62¥	Japanese iris, <i>Iris japonica</i>	Iridaceae	Fl A
4295a		Vertical strip of 5		

**2019 May 30 (Set/10)**

4296		Sheet of 10, 2 each 4296a-e		
4296c	62¥	Pineapple and lemons, <i>Ananas comosus</i> ; <i>Citrus limon</i>	Bromeliaceae; Rutaceae	Fr A
4296e	62¥	Hibiscus flower, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A
4297		Sheet of 10, 2 each 4297a-e		
4297a	82¥	Morning glories, <i>Ipomoea nil</i>	Convolvulaceae	Fl A
4297d	82¥	Watermelon, <i>Citrullus lanatus</i>	Cucurbitaceae	Fr A

**2019 June 19 (Stylized flowers) (Set/12)**

4304		Sheet of 10, #4304c,f, 2 each of #4304a, b, d, e		
4304a	62¥	Anemones, <i>Anemone coronaria</i>	Ranunculaceae	Fl A
4303b	62¥	Tulips, <i>Tulipa x hybrida</i>	Liliaceae	Fl A
4304c	62¥	Morning glories, <i>Ipomoea nil</i>	Convolvulaceae	Fl A
4304d	62¥	Orchids,	Orchidaceae	Fl A
4304e	62¥	Pansies, <i>Viola x wittrockiana</i>	Violaceae	Fl A
4304f	62¥	Carnations, <i>Dianthus caryophyllus</i>	Caryophyllaceae	Fl A
4305		Sheet of 10, #4305c,f, 2 each of #4305a, b, d, e		
4305a	82¥	Poppies, <i>Papaver orientale</i>	Papaveraceae	Fl A
4305b	82¥	Unidentified		Fl A
4305c	82¥	Clover, <i>Trifolium pratense</i>	Fabaceae	Fl A
4305d	82¥	Rose, <i>Rosa x hybrida</i>	Rosaceae	Fl A
4305e	82¥	Hydrangea, <i>Hydrangea macrophylla</i>	Hydrangeaceae	Fl A
4305f	82¥	Dahlia, <i>Dahlia x hybrida</i>	Asteraceae	Fl A

**2019 July 23 (Set/10)**

4309		Sheet of 10, #4309c,f, 2 each of #4309a, b, d, e		
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**JAPAN (continued)**

4309b	62¥	Potted morning glories, <i>Ipomoea nil</i>	Convolvulaceae	Fl A
4309c	62¥	Squash and flowers, <i>Cucurbita pepo</i>	Cucurbitaceae	Fl Fr A
4310		Sheet of 10, #4310c,f, 2 each of #4310a, b, d, e		
4310c	82¥	Sunflowers, <i>Helianthus annuus</i>	Asteraceae	

**2019 August 20 (Set/6)**

4313	63¥	Hybrid cherry blossoms, <i>Prunus serrulata</i>	Rosaceae	Fl A
4314	84¥	Plum blossoms, <i>Prunus mume</i>	Rosaceae	Fl A
4315	94¥	Violets, <i>Viola sp.</i>	Violaceae	Fl A

**2019 August 23 (Autumn Greetings) (Set/20)**

4325		Sheet of 10		
4325a	63¥	Squirrel and acorn, <i>Quercus sp.</i>	Fagaceae	Fr B MS
4325b	63¥	Walnut, <i>Juglans regia</i>	Fagaceae	Fr A MS
4325c	63¥	Pine cone, <i>Pinus sp.</i>	Pinaceae	Fr A MS
4325d	63¥	Bird, walnut & pinecone, <i>Juglans regia; Pinus sp.</i>	Fagaceae; Pinaceae	Fr A MS
4325e	63¥	Fir cones, <i>Abies sp.</i>	Pinaceae	Fr A MS
4325f	63¥	Pine cones, <i>Pinus sp.</i>	Pinaceae	Fr A MS
4325g	63¥	Yew aril and pine cone, <i>Taxus sp.; Pinus sp.</i>	Taxaceae; Pinaceae	Fr A MS
4325h	63¥	Squirrel and pine cone, <i>Pinus sp.</i>	Pinaceae	Fr A MS
4325i	63¥	Bird and acorn, <i>Quercus sp.</i>	Fagaceae	Fr B MS
4325j	63¥	Cedar rose pine cones, <i>Cedrus deodara</i>	Pinaceae	Fr A MS
4326		Sheet of 10		
4326a	84¥	Mushrooms		
4326b	84¥	Cardinal and apple, <i>Malus domestica</i>	Rosaceae	Fr A MS
4326c	84¥	Flowers		Fl A U MS
4326d	84¥	Grapes and melon, <i>Vitis vinifera; Cucumis melo</i>	Vitaceae; Cucurbitaceae	Fr A MS
4326e	84¥	Autumn leaves and berries		Fr V A MS
4326f	84¥	Squirrel, squash and berries, <i>Cucurbita pepo</i>	Cucurbitaceae	Fr B MS
4326g	84¥	Carrots, squash & berries, <i>Daucus carota; Cucurbita pepo</i>	Apiaceae; Cucurbitaceae	Fr A MS
4326h	84¥	Apples, flowers & pumpkin, <i>Malus domestica; Cucurbita pepo</i>	Rosaceae; Cucurbitaceae	Fr A MS
4326i	84¥	Mouse and beet, <i>Beta vulgaris</i>	Amaranthaceae	V N MS
4326j	84¥	Mouse and pumpkin, <i>Cucurbita pepo</i>	Cucurbitaceae	Fr B MS

**2019 September 20 (Paintings) (Set/10)**

4334i	84¥	"Clematis" by Chikuma Suzuki, <i>Clematis sp.</i>	Ranunculaceae	Fl A MS
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**2019 October 9 (Letter writing week, Paintings by Hiroshige) (Set/6)**

4342	70¥	"Flowering Apple Tree with Small Birds", <i>Malus domestica</i>	Rosaceae	Fl A
4343	70¥	"Flowering Apple Tree with Small Birds", <i>Malus domestica</i>	Rosaceae	Fl B

**2019 October 15 (150y Diplomatic relations with Hungary) (Set/10)**

4347		Sheet of 10		
4347	84¥	Chamomile flowers, <i>Matricaria chamomilla</i>	Asteraceae	Fl A MS
4347	84¥	Cherry blossoms, <i>Prunus serrulata</i>	Rosaceae	Fl A MS

**2019 October 23 (Set/20)**

4351		Sheet of 10		
4351b	63¥	Nuts and pine cone, <i>Pinus sp.</i>	Pinaceae	Fr A
4351e	63¥	Moss covered rocks		V B U
4351f	63¥	Leaves		V A U
4351h	63¥	Leaves and bears		V B U
4351i	63¥	Pinecone detail, <i>Pinus sp.</i>	Pinaceae	Fr A



**JAPAN (continued)**

4352		Sheet of 10		
4352a	84¥	Acorns, nuts and seeds, <i>Quercus sp.</i>	Fagaceae	Fr A
4352b	84¥	Pine needles, <i>Pinus sp.</i>	Pinaceae	V A
4352c	84¥	Flowers		Fl A U
4352f	84¥	Leaves		V A U
4352h	84¥	Tree rings		T A U

**2019 November 1 (Lunar New Year, Year of the Rat) (Set/4)**

4356	84 + 3¥	Rat and radish, <i>Raphanus raphanistrum subsp. sativus</i>	Brassicaceae	V A
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**2019 November 6 (Set/20)**

4357		Sheet of 10		
4357a	63¥	Plant		
4357d	63¥	Pine branches, <i>Pinus sp.</i>	Pinaceae	V A
4358		Sheet of 10		
4358a	84¥	Plum blossoms, <i>Prunus mume</i>	Rosaceae	Fl A
4358c	84¥	Carrot slices, <i>Daucus carota</i>	Apiaceae	V A
4358h	84¥	Pine needles, <i>Pinus sp.</i>	Pinaceae	V A

**JORDAN****2019 November 28 (Olive picking) (MS/4)**

2423		Olive trees and pickers, <i>Olea europaea</i>	Oleaceae	Fr T A MS Z
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**KAZAKHSTAN****2019 December 31 (Aquatic flowers) SS/2**

905		Sheet of 2		
905a	310te	Waterlily, <i>Nymphaea alba</i>	Nymphaeaceae	Fl A SS
905b	310te	Lotus, <i>Nelumbo nucifera (=caspica)</i>	Nelumbonaceae	Fl A SS

**KYRGYZSTAN****2019 October 12 (Poppies) (Set/3)**

609	46s	Oriental poppy, <i>Papaver orientale</i>	Papaveraceae	Fl A
610	76s	Field poppy, <i>Papaver rhoeas</i>	Papaveraceae	Fl A
611	98s	<i>Roemeria refracta</i>	Papaveraceae	Fl A
611a		Sheet of 3		

**2019 November 23 (Flora) (Set/3)**

614	36s	Semenov's fir, <i>Abies sibirica subsp. semenovii (=A. semenovii)</i>	Pinaceae	Fr A
615	76s	Snow lotus, <i>Saussurea laniceps</i>	Asteraceae	Fl A
616	98s	<i>Tulipa zenaidae</i>	Liliaceae	Fl A

**KOREA, SOUTH****2019 August 29 (National Parks in Korea and Croatia) (Pair)**

2558a	380w	Seroalsan Nat. Park, S. Korea, <i>Pinus pumila</i>	Pinaceae	Fl B
2558b	380w	N. Velebit Nat. Park, Croatia, <i>Dianthus carthusianorum (=velebiticus)</i>	Caryophyllaceae	Fl B

**LEBANON****2019 March 20 (Mother's Day) (Set/20)**

803		Stylized flowers in different colors, sheet/20		Fl A S
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**LIBERIA****2018 December 31 (Meleguetta Peppers) (Set/4; SS/1)**

3306		Sheet of 4		
B3306a	\$100	Seeds, <i>Aframomum melegueta</i>	Zingiberaceae	Fr A MS
3306b	\$200	Flower bud, <i>Aframomum melegueta</i>	Zingiberaceae	Fl A MS
3306c	\$300	Flower, <i>Aframomum melegueta</i>	Zingiberaceae	Fl A MS
3306d	\$400	Fruits, <i>Aframomum melegueta</i>	Zingiberaceae	Fr A MS
3307	\$500	Flower, <i>Aframomum melegueta</i>	Zingiberaceae	Fl A SS

<b>LUXEMBOURG</b>		<b>2019 December 3</b> (Grand Duchess Charlotte Relief Fund, 75y) (SS/1)		
1352	80c	Passion flower, <i>Passiflora</i> sp.	Passifloraceae	Fl B SS Z
<b>MACAO</b>		<b>2019 June 3</b> (Macao Lotus Cultivars) Strip/3; SS/1		
1556		Strip of 3		
1556a	2p	Lotus, <i>Nelumbo nucifera</i> 'Haojiang Hong'	Nelumbonaceae	Fl A
1556b	3p	Lotus, <i>Nelumbo nucifera</i> 'Haojiang Yue'	Nelumbonaceae	Fl A
1556c	5.50p	Lotus, <i>Nelumbo nucifera</i> 'Haojiang Bi bo'	Nelumbonaceae	Fl A
1557	12p	Lotus, <i>Nelumbo nucifera</i> 'Haojiang Qing'	Nelumbonaceae	Fl A SS Z
		<b>2019 December 20</b> (Macao Special Administrative Region 20y) (Block/4; SS/1)		
1585	12p	Lotus, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl A SS Z
<b>MALAYSIA</b>		<b>2019 June 19</b> (Sour Fruits) (Set/3; SS/1)		
1820	60c	<i>Eleiodoxa conferta</i>	Arecaceae	Fr A
1821	60c	<i>Mangifera pajang</i>	Anacardiaceae	Fr A
1822	60c	False mangosteen, <i>Garcinia xanthochymus</i>	Clusiaceae	Fr A
1823	\$3	Tamarind, <i>Tamarindus indica</i>	Fabaceae	Fr A SS Z
<b>MALDIVE ISLANDS</b>		<b>2017 March 16</b> (Flowers and Tees) (Set/4; SS/1)		
3822a	20r	Singapore graveyard flower, <i>Plumeria obtusa</i> (=apiculata)	Apocynaceae	Fl A MS
3822b	20r	Cypress vine, <i>Ipomoea quamoclit</i>	Convolvulaceae	Fl A MS
3822c	20r	Arabian jasmine, <i>Jasminum sambac</i>	Oleaceae	Fl A MS
3822d	20r	Sea hibiscus, <i>Hibiscus tiliaceus</i>	Malvaceae	Fl A MS
3832	60r	Hibiscus, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A SS
		<b>2017 May 17</b> (Paintings by Claude Monet) (Set/4; SS/1)		
3899d	20r	"Agapanthus" 1914-1926, <i>Agapanthus africana</i>	Amaryllidaceae	Fl A MS
		<b>2017, May 17</b> (Paintings by Mary Cassatt) (Set/4; SS/1)		
3903c	20r	"Lilacs in a Window", <i>Syringa vulgaris</i>	Oleaceae	Fl A MS
		<b>2017 May 17</b> (Paintings by Van Gogh) (Set/4; SS/1)		
3904b	20r	"Sunflowers", <i>Helianthus annuus</i>	Asteraceae	Fl A MS
3914	70r	"Still Life: Vase with Fifteen Sunflowers", <i>Helianthus annuus</i>	Asteraceae	Fl A SS Z
<b>MARSHALL ISLANDS</b>		<b>2019 August 14</b> (Frangipani Flowers) (Set/4; SS/1)		
1250		Sheet of 4 a-d <i>Plumeria alba</i>	Apocynaceae	Fl A MS
1251	\$5	<i>Plumeria alba</i>	Apocynaceae	Fl A SS
		<b>2019 August 19</b> (Morning Glories) (Set/4; SS/1)		
1252		Sheet of 4 a-d, <i>Ipomoea purpurea</i>	Convolvulaceae	Fl A MS
1253	\$5	<i>Ipomoea purpurea</i>	Convolvulaceae	Fl A SS
<b>MEXICO</b>		<b>2019 December 6</b> (Christmas) (Set/2)		
3154	7p	Poinsettia and airmail envelopes, <i>Euphorbia pulcherrima</i>	Euphorbiaceae	Fl B
<b>MONGOLIA</b>		<b>2019 November 18</b> (Landscapes type of 2018, see Vol. 68 (1) p.23) (Set/7)		
2921	1300t	<i>Cymbaria dahurica</i>	Orobanchaceae	Fl B
2922	1300t	Saxaul, <i>Haloxylon ammodendron</i>	Amaranthaceae	Fl B
2923	1300t	<i>Allium mongolicum</i>	Amaryllidaceae	Fl B
2924	1300t	<i>Thymus gobicus</i>	Lamiaceae	Fl B
2925	1300t	Scots pine, <i>Pinus sylvestris</i>	Pinaceae	Fl B
2926	1300t	Long-stemmed almond, <i>Prunus</i> (=Amygdalus) <i>pedunculata</i>	Rosaceae	Fl B
2927	1300t	Spotted arnebia, <i>Arnebia guttata</i>	Boraginaceae	Fl B

**MOROCCO****2009 December** (Flowers) (Set/10)

1034A		Booklet pane of 10		
1034Ab	3.25d	<i>Pyrus mamorensis</i>	Rosaceae	Fl A
1034Ac	3.25d	<i>Tulipa sylvestris</i>	Liliaceae	Fl A
1034Ad	3.25d	<i>Cleonia lusitanica</i>	Lamiaceae	Fl A
1034Ae	3.25d	<i>Thymus broussonetii</i>	Lamiaceae	Fl A
1034Af	3.25d	Milk thistle, <i>Silybum marianum</i>	Asteraceae	Fl A
1034Ag	3.25d	<i>Cynara humilis</i>	Asteraceae	Fl A
1034Ah	3.25d	<i>Phlomis crinita</i> ssp. <i>mauritanica</i>	Lamiaceae	Fl A
1034Ai	3.25d	<i>Verbascum pseudocreticum</i>	Scrophulariaceae	Fl A
1034Aj	3.25d	<i>Campanula afra</i>	Campanulaceae	Fl A
1034Ak	3.25d	Butterfly orchid, <i>Orchis papilionacea</i>	Orchidaceae	Fl A

**NORFOLK ISLAND****2019 April 2** (Tree Fern) (Set/2; SS/2)

1148	\$1	Curled frond, <i>Cyathea brownii</i>	Cyatheaceae	V A
1149	\$2	Open frond, <i>Cyathea brownii</i>	Cyatheaceae	V A
1149a		Souvenir sheet of 2		V A SS

**PANAMA****2019 June 7** (Fruit and Nuts) (Set/14)

1009	25c	Soursop, <i>Annona muricata</i>	Annonaceae	Fr A
1009a		Booklet pane of 6		Fr A
1010	25c	Strawberry pear; dragon fruit, <i>Hylocereus trigonus</i> (=triangularis); <i>H. ocamponis</i>	Cactaceae	Fr A
1010a		Booklet pane of 6		Fr A
1011	25c	Cashew, <i>Anacardium occidentale</i>	Anacardiaceae	Fr A
1011a		Booklet pane of 6		Fr A
1012	25c	Ice-dream bean tree, <i>Inga feuilleei</i>	Fabaceae	Fr A
1012a		Booklet pane of 6		Fr A
1013	25c	Coyol palm, <i>Acrocomia aculeata</i>	Arecaceae	Fr A
1013a		Booklet pane of 6		Fr A
1014	25c	Mammee, <i>Mammea americana</i>	Calophyllaceae	Fr A
1014a		Booklet pane of 6		Fr A
1015	25c	Papaya, <i>Carica papaya</i>	Caricaceae	Fr A
1015a		Booklet pane of 6		Fr A
1016	1b	Soursop, <i>Annona muricata</i>	Annonaceae	Fr A
1017	2b	Strawberry pear; dragon fruit, <i>Hylocereus trigonus</i> (=triangularis); <i>H. ocamponis</i>	Cactaceae	Fr A
1018	3b	Cashew, <i>Anacardium occidentale</i>	Anacardiaceae	Fr A
1019	4b	Ice-dream bean tree, <i>Inga feuilleei</i>	Fabaceae	Fr A
1020	5b	Coyol palm, <i>Acrocomia aculeata</i>	Arecaceae	Fr A
1021	10b	Mammee, <i>Mammea americana</i>	Calophyllaceae	Fr A
1022	15b	Papaya, <i>Carica papaya</i>	Caricaceae	Fr A

**PITCAIRN ISLANDS****2019 April 30** (Flowers) (Set/4)

858		Sheet of 4		
858a	\$1	Easter lily, <i>Lilium longiflorum</i>	Liliaceae	Fl A MS
858b	\$1.80	Brazil's white angel trumpet, <i>Brugmansia suaveolens</i>	Solanaceae	Fl A MS
858c	\$2.80	Queen of the night, <i>Epiphyllum oxypetalum</i>	Cactaceae	Fl A MS

**PITCAIRN ISLANDS (continued)**

858d \$3 Night-blooming jasmine, *Cestrum nocturnum* Solanaceae Fl A MS

**SERBIA****2019 November 7 (Set/2)**

882 40d Showy stonecrop, ice plant, *Hylotelephium spectabile* Crassulaceae Fl A

**TUVALU****2019 August 12 (Pacific Islands Leaders Meeting) (Set/4)**

1451c \$2.50 Local fruit Fr S U MS

**UNITED STATES****2020 February 21 (Wild orchids) (Set/10; Coil SA die cut 10¾ vert.)**

5435 (55c) Large purple-fringed orchid, *Platanthera grandiflora* Orchidaceae Fl A

5436 (55c) Terrestrial cowhorn, *Cyrtopodium flavum* (=polyphyllum) Orchidaceae Fl A

5437 (55c) Common grass pink orchid, *Calopogon tuberosus* Orchidaceae Fl A

5438 (55c) Fragrant ladies tresses, *Spiranthes odorata* Orchidaceae Fl A

5439 (55c) Three-birds orchid, *Triphora trianthophora* Orchidaceae Fl A

5440 (55c) California lady's-slipper, *Cypripedium californicum* Orchidaceae Fl A

5441 (55c) Crested coralroot, *Hexalectris spicata* Orchidaceae Fl A

5442 (55c) Showy lady's-slipper, *Cypripedium reginae* Orchidaceae Fl A

5443 (55c) Eastern prairie fringed orchid, *Platanthera leucophaea* Orchidaceae Fl A

5444 (55c) Three-birds orchid, *Triphora trianthophora* Orchidaceae Fl A

5444a Horiz strip of 10 #5435-5444

P# strip of 10, #B1111

P# strip of 17 #54353-37 2 each of #5438-5444, #B1111

P# single (#5443) #B1111

**2020 February 21 (Wild orchids) (Set/10; bklt/20, SA die cut 13¾ x 11)**

5445 (55c) Three-birds orchid, *Triphora trianthophora* Orchidaceae Fl A

5446 (55c) California lady's-slipper, *Cypripedium californicum* Orchidaceae Fl A

5447 (55c) Crested coralroot, *Hexalectris spicata* Orchidaceae Fl A

5448 (55c) Showy lady's-slipper, *Cypripedium reginae* Orchidaceae Fl A

5449 (55c) Fragrant ladies tresses, *Spiranthes odorata* Orchidaceae Fl A

5450 (55c) Eastern prairie fringed orchid, *Platanthera leucophaea* Orchidaceae Fl A

5451 (55c) Three-birds orchid, *Triphora trianthophora* Orchidaceae Fl A

5452 (55c) Large purple-fringed orchid, *Platanthera grandiflora* Orchidaceae Fl A

5453 (55c) Terrestrial cowhorn, *Cyrtopodium flavum* (=polyphyllum) Orchidaceae Fl A

5454 (55c) Common grass pink orchid, *Calopogon tuberosus* Orchidaceae Fl A

5454a Block of 10 #5445-5454

5454b Bklt pane of 20, 2 each #5445-5454

**2020 April 2 (Corsage and Boutonniere) (Set/2)**

5457 (55c) Boutonniere, *Cymbidium sp.*; *Echevaria sp.*; *Hydrangea sp.*; *Liriope mauscar*  
Orchidaceae; Crassulaceae; Hydrangeaceae; Asparagaceae Fl V A

5458 70c Corsage, *Rosa sp.*; *Ranunculus sp.*; *Erica sp.*; *Eucalyptus sp.*  
Rosaceae; Ranunculaceae; Ericaceae; Myrtaceae Fl V A

**VIRGIN ISLANDS****2019 December 30 (Definitive series dated 2020) (Set/7)**

1201 20c Golden trumpet, *Alamanda cathartica* Apocynaceae Fl A

1202 40c Hibiscus, *Hibiscus rosa-sinensis* Malvaceae Fl A

1203 50c Oleander, *Nerium oleander* Apocynaceae Fl A

1204 60c Frangipani, *Plumeria alba* Apocynaceae Fl A

1205 75c White cedar, *Thuja occidentalis* Cupressaceae Fl A

1206 \$2 Bougainvillea, *Bougainvillea spectabilis* Nyctaginaceae Fl A

1207 \$5 Flamboyant, *Delonix regia* Fabaceae Fl A



## New Plants in the Philatelic Herbarium

By Christopher E. Dahle, BU 1269

### **Begonia angularis**      **BEGONIACEAE**

Synonyms: *B. angularis* var. *angularis*, *B. compta*, *B. crenulata*, *B. hastata*, *Pritzella zebrina*

Perennial terrestrial subshrub to 1 m, glabrous, erect, slightly branched, reddish stems. Leaves ovate to oblong cordate, denticulate on edges. Flowers white, 1 cm, on long erect peduncles. Shady, humid locations. Endemic to Brazil from Bahia south to Paraná.



Brazil Scott # 3361a. Issued 22 Sept. 2017, Flora of the Atlantic Forest. Designed by Camila Sena Hott. Printed in offset by Casa da Moeda do Brasil, Rio de Janeiro. Quantity printed: 480,000 scented minisheets of 4 on gummed paper and 960,000 panes of 24 on selfadhesive paper

### **Anthurium lucioi**      **ARACEAE**

Terrestrial herb. Leaves simple, lanceolate 5-55 cm. Spathe yellow-green. Occurs in high mountain forests of the Atlantic coast in Minas Gerais, Espírito Santo and São Paulo states. Endemic to Brazil.

Brazil Scott 3316b. Issued 22 Sept. 2017. Flora of the Atlantic Coast.



### **Tabebuia roseoalba**      **BIGNONIACEAE**

Common name: White Ipê

Synonyms: 17 synonyms

Deciduous tree 7-16 m. Leaves compound with 3 leaflets 6-13 cm. Flowers white, borne in clusters. Grows in dense primary forest and secondary formations in rocky and limestone areas of seasonal dry forest biomes. Used for timber and as an ornamental. Found in Paraguay, Brazil, Bolivia, Peru and Colombia.



Brazil Scott #3361c. Issued 22 Sept. 2017. Flora of the Atlantic Coast.

### **Cereus brookii**      **CACTACEAE**

Common name: Apple cactus

Synonyms: *Harrisia brookii*

Climber to 5 m, much branched, light green, 10 ribbed. Areoles 2 cm apart with 9-12 spines 2-2.5 cm. Flowers white, funnel-shaped, 20 cm, open at night. Fruit ellipsoid or globose, 8 cm diameter, yellow. Distribution: endemic to Eleuthera and Long Island, Bahamas.



Bahamas Scott#1491. Issued 5 Sept. 2019 in a set of 16 definitives featuring Native Flora. Photographs by Dr. Ethan Freid. Designed by Bee Design. Printed by Cartor Security Printer using Stochastic Lithography.

### **Agave inaguensis**      **ASPARAGACEAE**

Acaulescent semi-succulent shrub. Leaves form basal rosette, grayish green to 1 m long 12 cm wide. Flowers in terminal panicle 5 m high are yellow. Grows on sandy substrate near shorelines and off-shore keys. Endemic to southern islands of the Bahamas.

Bahamas Scott# 1492. Issued 5 Sept. 2019. Native Flora definitives.





### **Euphorbia gymnonota EUPHORBIACEAE**

Common name: Bahamas bush spurge

Synonyms: *Adenorima gymnonota*, *Euphorbiodendron gynonotum*

Perennial shrub, 3 m with fleshy branches. Leaves alternate linear-oblongate, 4-8x0.8-1.4 cm, entire. Inflorescence 5-7 flowered, terminal with crimson ovate bracts. Thickets and open coppices on rocky flats and slopes in the central and southeastern islands.

Bahamas Scott #1493 Issued 5 Sept. 2019. Native Flora definitives.



### **Euphorbia longinsulicola EUPHORBIACEAE**

Synonyms: *Chamaesyce longinsulicola*

Low shrub to 1m. Leaves succulent, opposite, siler-gray, rounded margins. Flowers, in axils of leaves, arranged in cyathia, with no calyx or corolla. Dark brown or red glands occur on the edge of the cyathia. Grow in dunes along Atlantic coastline of Long Island.

Bahamas Scott #1494. Issued 5 Sept. 2019. Native Flora definitives.

### **Encyclia fehlingii**

### **ORCHIDACEAE**

Synonyms: *Epidendrum fehlingii*

Epiphytic herb with pseudobulb to 9 cm. Leaves, 1-3, linear, to 50 cm long.

Flowers on panicles to 70 cm bearing up to 50 blossoms, greenish yellow, to 3 cm diameter. Grow in dry evergreen forests and mangroves on northern islands of the Bahamas.

Bahamas Scott #1495. Issued 5 Sept. 2019. Native Flora definitives.



### **Lepidaploa arbuscula ASTERACEAE**

Common name: Lavender iron shrub

Synonyms: *Cacalia bahamensis*, *Vernonia arbuscula*, *V. arctata*, *V. bahamensis*, *V. obcordata*

Perennial shrub to 1 m. Leaves silvery green, alternate. Flowers, purple, at ends of branches in showy clusters. Endemic to Bahamian archipelago. Found in open rocky pinelands of northwestern and southeastern islands.

Bahamas Scott #1497. Issued 5 Sept. 2019. Native Flora definitives.



### **Galactia bahamensis FABACEAE**

Common name: Bahama milk pea

Woody climbing vine to 2 m. Leaves, trifoliate, 3 cm leaflets, oval. Flowers arranged in racemes. Corolla rose-purple. Grows along edges of dry broadleaf evergreen scrubland and dwarf shrubland near the shore. Endemic to Bahamas. Occurs in south central and southern islands.

Bahamas Scott #1499. Issued 5 Sept. 2019. Native Flora definitives.



### **Cyperus correllii CYPERACEAE**

Synonyms: *Torulinium correllii*

Perennial rhizomatous herb 20-30 cm. Leaves linear 15-25 cm long 5-8 mm wide. Umbeliferous inflorescence 10 cm with head 4-7 cm wide bearing 6-8 spikes, glumes brownish red to reddish-purple. Grows in coastal dunes of the Bootle Bay and West End area of Grand Bahama in the marin intertidal zone.

Bahamas Scott # 1501. Issued 5 Sept. 2019. Native Flora definitives.

**Ernodea gigantea****RUBIACEAE**

Common names: Crooked Island golden creeper

Shrub 1-2 m. Leaves leathery elliptic to lanceolate. Flowers tubular, white axillary. Fruit orange. Grow in coppice thickets on Acklin, Crooked Island and Mayaguana.

Bahamas Scott #1502. Issued 5 Sept. 2019. Native Flora definitives.

**Symphyotrichum lucayanum****ASTERACEAE**

Common name: Pineland aster

Synonyms: Aster lucayanus, Virgulus lucayanus

Unbranched woody perennial to 50 cm. Leaves hirsute, linear, sessile, opposite 8 cm long 2 cm wide, margin entire. Flowers on raceme. Found in pine woodlands and endemic to Grand Bahama.

Bahamas Scott #1503. Issued 5 Sept. 2019. Native Flora definitives

**Gochnatia paucifloscula****ASTERACEAE**

Common name: Carajo bush

Synonyms: Anastrophia bahamensis, A. cunefolia, A. paucifloscula, A. pauciflosculosa, Gochnatia bahamensis

Shrub to 3 m. Leaves alternate, 3 cm, spiny revolute margin. Flower heads with 6-12 flowers. Endemic to central and southern islands.

Bahamas Scott #1504. Issued 5 Sept. 2019. Native Flora definitives.

**Nashia inaguensis****VERBENACEAE**

Common names: Moujean tea, Bahamas berry

Synonyms: Lippia inaguensis

Evergreen shrub 2-3 m. Leaves aromatic, simple, opposite, elliptic to ovate 5-10 mm, glossy with revolute margins. Stems and leaves covered with hairs. Flowers axillary, in clusters, corolla whitish 2 mm. Red-orange berries. Leaves used for tea. Found in Dry Broadleaf Evergreen Formation habitat. Occurs in southern islands of Bahamas, also Puerto Rico and Virgin Islands.

Bahamas Scott #1505. Issued 5 Sept. 2019. Native Flora definitives.

**Epidendrum jamiesonis****ORCHIDACEAE**

Common name: Orquidea maigua

Synonyms: Epidendrum evectum

Terrestrial or epiphytic herb to 1 m. Leaves succulent Blooms all year.

Terminal inflorescence producing many flowers. Flower 1 cm, lilac. Cool or cold growing. Natural hybrid. Distribution Colombia, Peru and Ecuador, 1700-3500 m.



Ecuador Scott #2225d. Issued 27 December 2018 for the 50th anniversary of the Cotacachi-Cayapas Ecological Reserve

**Faujasia squamosa****ASTERACEAE**

Common name: Faujasie écalilleuse

Synonyms: Conyza squamosa

Bushy sub-shrub to 1 m. Leaves sessile, oblong-elliptical 2-3.5 cm by 0.6-0.8 cm, serrated. Flowers yellow, in short terminal cymes. Grows in wet rocky areas or cliffsides among ericoid altimontane



vegetation. Found only in Piton de Nieves National Park on Reunion island above 1900 m.

France Scott # 5658b. Issued 17 May 2019 in a set of 4 showing endangered flora. Designed by Florence Cendre from photographs by Jérémie Van Es. Printed in Quadricchromie heliogravure in sheets of 42. Quantity printed: 900,000 stamps, 330,000 souvenir sheets



### **Bulbophyllum auricomum**

### **ORCHIDACEAE**



Common name: Golden haired bulbophyllum

Synonyms: *Bulbophyllum foeniseccii*, *B. tripetaloides*, *Dendrobium tripetaloides*, *Phyllorchis auricoma*, *Phyllorkis auricoma*

Small epiphyte less than 15 cm. Pseudobulbs with deciduous leaves 10 cm, often not present at blooming. Numerous white fragrant flowers on 22 cm inflorescence in late fall early winter. Lowland seasonal forests in Thailand, Myanmar, Sumatra and Java.

Burma (Myanmar) Scott #451. Issued 27 Nov. 2019 in the series on monthly festivals for the Myanmar literature festival. Designed by Wai Zin Paing. Printed by offset at Security Printing Works (Myanmar) in 4 colors in sheets of 30 in a quantity of 150,000.

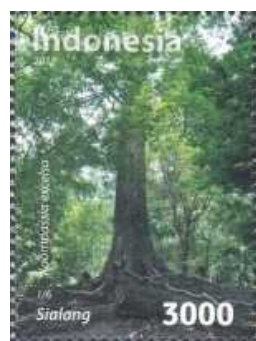
### **Leea indica VITACEAE**

Common name: Bandicoot berry

Synonyms: 30 Synonyms

Erect shrub or small tree 2-10 m. Leaves double or triple compound, 90-120 cm long. Flowers greenish white. Undisturbed or slightly disturbed sites in mixed dipterocarp, swamp and sub-montane forests to 1200 m. From Southern China, India through tropical Asia to Australia and SW Pacific. Cultivated for food and medicinal purposes.

Indonesia Scott #2453c, g. Issued 5 Nov. 2016 in a minisheet of 6 titled Flora and Fauna showing flowers and butterflies.



### **Koompassia excelsa FABACEAE**

Common name: Sialang

Synonyms: *Abauria excelsa*, *Koompassia parviflora*

Emergent tropical rainforest tree to 75 m with large buttress roots. Deciduous leaves 7-12 foliate. Leaflets elliptic oblong 3.1-3.7 by 1-1.4 cm. Inflorescence to 11 cm densely flowered, with white blossoms 2.5 cm diameter. Fruit 108 mm, orange-red in flattened pods. Found in alluvial sites and hillsides, often on limestone, to 300 m. Seeds used as food. Harvested for timber.

Indonesia Scott #2490d. Issued 5 Nov. 2018 in a block of 6 depicting Flora and Fauna.

### **Eusideroxylon zwageri LAURACEAE**

Common names: Borneo ironwood, billian

Synonyms: *Eusideroxylon borneense*, *Salgada lauriflora*

Tree to 50 m evergreen. Leaves simple, elliptical to ovate 14-18 cm long 5-11 cm wide. Flowers yellow to greenish or white. Fruit is toxic. Primary forest lowlands of Borneo, Indonesia and the Philippines at elevations to 400 m. Used as timber. Extremely dense wood does not float.

Indonesia Scott #2490e. Issued 5 Nov. 2018 in block of 6.







### **Agathis borneensis** ARAUCARIACEAE

Common name: Borneo Kauri, damar

Synonyms: *A. beccarii*, *A. beckingii*, *A. endertii*, *A. latifolia*, *A. macrostachys*, *A. rhombiodalis*

Tree to 55 m. Leaves evergreen, 6-12 cm by 20-35 mm, light green. Pollen cones oblong, 4-7 cm by 20-25 mm; seed cones 6-8.5 cm by 5.5-6.5 cm. Seeds are 12 by 9 mm, winged. Tropical rainforests to 2,400 m in SUMatra, peninsular Malaysia and Borneo. Used as timber. Resin used in varnish.

Indonesia Scott # 2490f. Issued 5 Nov. 2018 in block of 6.



### **Melissa officinalis** LAMIACEAE

Common name: Lemon balm

Synonyms: 11 synonyms

Bushy herbaceous perennial 45-60 cm. Aromatic leaves wrinkled, ovate to 8 cm long paired on square stems. Blooms in summer with white to pale yellow flowers. Native to Southern Europe. Leaves edible, also used in sachets. Variety of medicinal uses.

Iran Scott #3184. Issued in 2017

### **Pancratium sickenbergeri** AMARYLLIDACEAE

Common name: Desert pancratium

Synonyms: *P. sickenbergeri* var. *desertorum*, *P. sickenbergeri* var. *littorale*

Herbaceous desert ephemeral to 20 cm. Leaves form a rosette from a bulb appearing after flowering. Flowers, white, in September and October. Found growing in sand in Egypt and Israel.

Israel Scott #2236. Issued 18 Sept. 2019 in a series of 3 titled Autumn Flowers. Designed by Tuvia Kurtz and Ronen Goldberg. Printed in offset by Cartor Securriy Printing, France



### **Potentilla ancistrifolia** var. **dickinsii** ROSACEAE

Synonyms: *Potentilla dickinsii*

Herbaceous perennial to 5 cm. Leaves basal, glossy green deeply veined, trifoliate. Flowers golden yellow in June-September. Forests, meadows, ravines, rock crevices on mountain slopes 200--2700 m in China, Japan and Korea.

Japan Scott #4283h. Issued 12 April 2019 in a sheet of 12 Flora and Fauna of Kurobe Gorge.



### **Hylotelephium spectabile** CRASSULACEAE

Common names: Showy stonecrop, ice plant, Butterfly stonecrop

Synonyms: *Hylotelephium spectabile* var. *spectabile*, *Sedum telephium* var. *kirinense*

Succulent perrennial, erect unbranched stems to 50 cm. Leaves oval, 8 cm by 5 cm, dull green to blue-green. Pink star-shaped flowers in late summer borne in terminal clusters 15 cm across. Native to China and Korea, grown horticulturally.

Serbia Scott #882. Issued 7 Nov. 2019 in a set of 2. Designed by Nadežda Skočajić. Printed by offset in sheets of 100 on Muflep 100 gr/m<sup>2</sup> gummed paper in a quantity of 200,000.

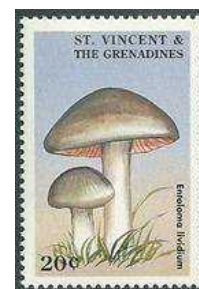


## FUNGI

Editor

Dr. Paul A. Mistretta, BU 1681

### New Listings



Scott# Denom Common Name/Scientific Name Family/Subfamily Code  
 [Ed. note: Occasionally in this section and also in the Herpetology and Entomology sections, we will note a species that is known to be poisonous or venomous by marking it with a (☠) symbol. One should not infer that other species that are not so marked are non-poisonous or non-venomous or safe to handle/eat.]

#### JAPAN

2019 May 24 (Mushrooms) (Sheet/10)

4290 Sheet of 10  
 4290g 82y Children gathering mushrooms, forming a unified design (family picnic) N/A B G U

2019 August 23 (Mushrooms) (Sheet/10)

4326a 84y Drawings of 3 mushrooms (generic) N/A A G U

2019 October 23 (Mushrooms) (Sheet/10)

4351 Sheet of 10 different self-adhesive stamps  
 4351a 63y Drawings of various fungi (generic illustrations) N/A A G U  
 4352 Sheet of 10 different self-adhesive stamps  
 4352g 84y 3 stylized mushrooms (*Amanita caesarea*?) [[Amanitaceae] A G

#### KAZAKHSTAN

2019 December 10 (Mushrooms) (MS/6)

900a B (280te) White Lactarius, *Lactarius resimus* Russulaceae A  
 900b B (280te) [no common name], *Morchella picola* Morchellaceae A  
 900c B (280te) Golden chanterelle, girolle, *Cantharellus cibarius* Cantharellaceae A  
 900d B (280te) Foxy bolete, *Leccinum vulpinum* Boletaceae A  
 900e B (280te) Scotch bonnet, +, *Marasmius oreades* Marasmiaceae A  
 900f B (280te) Penny bun, *Boletus edulis* Boletaceae A

#### KYRGYSTAN (KYRGYZ EXPRESS POST)

2019 March 14 (Poisonous Mushrooms) (MS/4, SS/4)

106 50s Ivory funnel, sweating mushroom, *Clitocybe dealbata* (☠) Tricholomataceae M  
 107 75s Yellow staining mushroom, yellow stainer, *Agaricus xanthodermus* (☠) Agaricaceae M  
 108 100s Sulfur tuft, sulphur tuft, clustered woodlover, *Hypholoma fasciculare* (☠) Strophariaceae M  
 109 150s Deadly dapperling, *Lepiota brunneoincarnata* (☠) Agaricaceae M  
 109a Souvenir sheet of 4, 1 each #106-109 as above M

#### MACAO

2019 June 7 (Mushrooms)

1554b 3p Listed in Linn's, I have not seen it, but suspect this to be a minor design element (?B U)

#### MALDIVES ISLANDS

2017 March 16 (Mushrooms & Owls) (Set/4, SS/1)

3825a 22r Common morel, yellow morel, true morel, sponge morel, *Morchella esculenta* Morchellaceae M  
 3825b 22r Crown of thorns mush..., drunken mus..., *Psilocybe zapotecorum* Hymenogastraceae M  
 3825c 22r Death cap, *Amanita phalloides* (☠) Amanitaceae M  
 3825d 22r Dark honey fungus, *Armillaria ostoyae* Physalacriaceae M  
 3835 70r Torq, banded agaric, spring agaric, +, *Agaricus bitorquis* Agaricaceae M



## Lichens

## BELARUS

2019 June 7 (Lichens) (Set/3, SS/6)

1142	A (48k)	Common orange lichen, yellow scale, +, <i>Xanthoria parietina</i>	Teloschistaceae	L
1143	M (1.56r)	Tree lungwort, lung lichen, +, <i>Lobaria pulmonaria</i>	Lobariaceae	L
1144	H (1.68r)	English soldiers, <i>Cladonia floerkeana</i>	Cladoniaceae	L
1144a		Souvenir sheet of 6, 2 each of #1142-1144		

## Look Alike

## JAPAN

2019 April 1 (Mushroom look-alike)

3280		Sheet of 10 different self-adhesive stamps		
3280e	82y	Parasol looks like a <i>Marasmius</i> sp.	N/A	M

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# MAMMALIA

Editor

Michael Prince, LM68



## New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
<b>ANDORRA (French) 2019 October 4 (Bear) (Set/2)</b>				
813	€1.30	Brown Bear, <i>Ursus arctos</i>	Ursidae	A
<b>BRAZIL 2019 March 21 (Signs of the Zodiac - Leo) (Set issued over 12 months)</b>				
3401	NVI (1r30)	Dall's Sheep, <i>Ovis dalli</i>	Bovidae	A
<b>2019 April 21 (Signs of the Zodiac - Taurus)</b>				
3402	NVI (1r30)	Domestic Cattle, <i>Bos taurus</i>	Bovidae	A
<b>2019 July 22 (Signs of the Zodiac - Leo)</b>				
3405	NVI (1r30)	Lion, <i>Panthera leo</i>	Felidae	A
<b>BULGARIA 2019 August (Polar Explorer - Solomon Andree) (SS/1)</b>				
Not listed	65s	Polar Bear, <i>Ursus maritimus</i>	Ursidae	B
<b>2019 October (Otter) (SS/1)</b>				
Not listed	65s	European Otter, <i>Lutra lutra</i>	Mustelidae	A
The above two souvenir sheets were issued in limited quantities and therefore have not been issued with Scott numbers.				
<b>GREAT BRITAIN (Alderney) 2020 January 21 (Sea Life) (Set/6)</b>				
661	48p	Grey Seal, <i>Halichoerus grypu</i>	Phocidae	A
<b>GREAT BRITAIN (Isle of Man) 2020 January 15 (New Year 2020 - Year of the Rat) (Set/4)</b>				
2069	57p	Brown Rat, <i>Rattus norvegicus</i>	Muridae	A
2070	£1.67	Brown Rat, <i>Rattus norvegicus</i>	Muridae	A
2071	£2.55	Brown Rat, <i>Rattus norvegicus</i>	Muridae	A
2072	£2.85	Brown Rat, <i>Rattus norvegicus</i>	Muridae	A
<b>GREENLAND 2019 June 21 (Aasivissuit-Nipisat Inuit Hunting Area) (Set/2)</b>				
815	14k	Muskox, <i>Ovibos moschatus</i>	Bovidae	B
		Arctic Hare, <i>Lepus arcticus</i>	Leporidae <b>NEW</b>	B
<b>GRENADA 2019 March 27 (Dolphins) (Sheet/4)</b>				
4325a	\$5	Pantropical Spotted Dolphin, <i>Stenella attenuata</i>	Delphinidae	A
4325b	\$5	Pantropical Spotted Dolphin, <i>Stenella attenuata</i>	Delphinidae	A
4325c	\$5	Pantropical Spotted Dolphin, <i>Stenella attenuata</i>	Delphinidae	A
4325d	\$5	Pantropical Spotted Dolphin, <i>Stenella attenuata</i>	Delphinidae	A
<b>2019 May 24 (Deer) (Sheet/4 &amp; SS/1)</b>				
4334a	\$4	White-tailed Deer, <i>Odocoileus virginianus</i>	Cervidae	A
4334b	\$5	White-tailed Deer, <i>Odocoileus virginianus</i>	Cervidae	A
4334c	\$6	White-tailed Deer, <i>Odocoileus virginianus</i>	Cervidae	A
4334d	\$7	White-tailed Deer, <i>Odocoileus virginianus</i>	Cervidae	A
4335	\$14	White-tailed Deer, <i>Odocoileus virginianus</i>	Cervidae	A



**GRENADA** (continued)**2019 September 3** (Armadillo) (Sheet/3 & SS/1)

4342a	\$4	Nine-banded Armadillo, <i>Dasypus novemcinctus</i>	Dasypodidae	A
4342b	\$5	Nine-banded Armadillo, <i>Dasypus novemcinctus</i>	Dasypodidae	A
4342c	\$6	Nine-banded Armadillo, <i>Dasypus novemcinctus</i>	Dasypodidae	A
4343	\$14	Nine-banded Armadillo, <i>Dasypus novemcinctus</i>	Dasypodidae	A Z

**GUYANA****2019 May 1** (South American Wildlife) (MS/6 & Sheet/4)

4596b	\$200	White-lipped Peccary, <i>Tayassu pecari</i>	Tayassuidae	A
		White-tailed Deer, <i>Odocoileus virginianus</i>	Cervidae	A
		Vicugna, <i>Vicugna vicugna</i>	Camelidae	A
4596c	\$200	Giant Anteater, <i>Myrmecophaga tridactyla</i>	Myrmecophagidae	A
		White-nosed Coati, <i>Nasua narica</i>	Procyonidae	A
		Six-banded Armadillo, <i>Euphractus sexcinctus</i>	Chlamyphoridae	A
4596d	\$400	Red Howler Monkey, <i>Alouatta seniculus</i>	Atelidae	A
		Visored Bat, <i>Sphaeronycteris toxophyllum</i>	Phyllostomidae <b>NEW</b>	A
4596e	\$400	Giant Anteater, <i>Myrmecophaga tridactyla</i>	Myrmecophagidae	A
4596f	\$400	Jaguar, <i>Panthera onca</i>	Felidae	A
4597a	\$200	Red Howler Monkey, <i>Alouatta seniculus</i>	Atelidae	A
4597b	\$300	Red Howler Monkey, <i>Alouatta seniculus</i>	Atelidae	A
4597c	\$400	Red Howler Monkey, <i>Alouatta seniculus</i>	Atelidae	A
4597d	\$500	Red Howler Monkey, <i>Alouatta seniculus</i>	Atelidae	A

**2019 May 28** (Monkey) (Sheet/4 & SS/1)

4601a	\$100	White-faced Saki, <i>Pithecia pithecia</i>	Pitheciidae	A
4601b	\$300	White-faced Saki, <i>Pithecia pithecia</i>	Pitheciidae	A
4601c	\$500	White-faced Saki, <i>Pithecia pithecia</i>	Pitheciidae	A
4601d	\$700	White-faced Saki, <i>Pithecia pithecia</i>	Pitheciidae	A
4602	\$800	White-faced Saki, <i>Pithecia pithecia</i>	Pitheciidae	A

**HONG KONG****2019 July 16** (Marine Life) (Set/6)

2017	\$3.40	Indo-Pacific Humpbacked Dolphin, <i>Sousa chinensis</i>	Delphinidae	B
2017a		Miniature sheet of 4		

**INDONESIA****2018 November 5** (Flora and Fauna) (Set/6 & SS/1)

2490b	3000r	Ursine Tree Kangaroo, <i>Dendrolagus ursinus</i>	Macropodidae <b>NEW</b>	A
2490c	3000r	Celebes Crested Macaque, <i>Macaca nigra</i>	Cercopithecidae	A

**2019 June 11** (China 2019 World Stamp Exhibition) (Sheet/2)

2506a	10,000r	Giant Panda, <i>Ailuropoda melanoleuca</i>	Ursidae	A
2506b	10,000r	Bornean Orangutan, <i>Pongo pygmaeus</i>	Hominidae	A

**JAPAN****2019 April 12** (Flora and Fauna of Kurobe Gorge) (Sheet/10)

4283c	82y	Japanese Serow, <i>Capricornis crispus</i>	Bovidae	A
4283g	82y	Japanese Macaque, <i>Macaca fuscata</i>	Cercopithecidae	A

**2019 July 3**, (Dolphins) (Set/10)

4307		Sheet of 10		
4307a	82y	Pacific White-sided Dolphin, <i>Lagenorhynchus obliquidens</i>	Delphinidae	A
4307b	82y	Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i>	Delphinidae	A
4307c	82y	Pacific White-sided Dolphin, <i>Lagenorhynchus obliquidens</i>	Delphinidae	A
4307d	82y	Pacific White-sided Dolphin, <i>Lagenorhynchus obliquidens</i>	Delphinidae	A
4307e	82y	Pacific White-sided Dolphin, <i>Lagenorhynchus obliquidens</i>	Delphinidae	A

**JAPAN (Continued)**

4307f	82y	Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i>	Delphinidae	A
4307g	82y	Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i>	Delphinidae	A
4307h	82y	Pacific White-sided Dolphin, <i>Lagenorhynchus obliquidens</i>	Delphinidae	A
4307i	82y	Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i>	Delphinidae	A
4307j	82y	Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i>	Delphinidae	A
Margin: Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i>			Delphinidae	A

**2019 August 23 (Autumn Greetings) (Sheet/10)**

4325		Sheet of 10		
4325a	63y	Japanese Squirrel, <i>Sciurus lis</i>	Sciuridae <b>NEW</b>	A
4325h	63y	Japanese Squirrel, <i>Sciurus lis</i>	Sciuridae <b>NEW</b>	B
4326		Sheet of 10		
4326f	84y	Siberian Chipmunk, <i>Tamias sibiricus</i>	Sciuridae	A
4326i	84y	Eastern House Mouse, <i>Mus musculus</i>	Muridae	B
4326j	84y	Northern Red-backed Vole, <i>Clethrionomys rutilus</i>	Muridae <b>NEW</b>	B

**October 23, 2019 (Definitives) (Sheet/10)**

4351		Sheet of 10		
4351g	63y	Raccoon Dog, <i>Nyctereutes procyonoides</i>	Canidae	A
4352		Sheet of 10		
4352d	84y	Eurasian Badger, <i>Meles meles</i>	Mustelidae	B
		Red Fox, <i>Vulpes vulpes</i>	Canidae	B
		Raccoon Dog, <i>Nyctereutes procyonoides</i>	Canidae	B
4352e	84y	Siberian Chipmunk, <i>Tamias sibiricus</i>	Sciuridae	A

**KAZAKHSTAN****2019 December 12 (Otter) (Set/2)**

902a	600te	European Otter, <i>Lutra lutra</i>	Mustelidae	A
902b	600te	European Otter, <i>Lutra lutra</i>	Mustelidae	A

**SENEGAL****2017 June 5 (Zoo Animals and Boats)**

1742	300fr	Lion, <i>Panthera leo</i>	Felidae	
		Green Monkey, <i>Chlorocebus sabaeus</i>	Cercopithecidae	

**SLOVENIA****2019 September 27 (Bears) (Set/3 & SS/1)**

1348	€1.17	Brown Bear, <i>Ursus arctos</i>	Ursidae	A
1349	€1.31	Brown Bear, <i>Ursus arctos</i>	Ursidae	A
1350	€1.45	Brown Bear, <i>Ursus arctos</i>	Ursidae	A
1352	€1.67	Brown Bear, <i>Ursus arctos</i>	Ursidae	A

**2019 November 8 (Slovenians in Australia)**

1354	58c	Koala, <i>Phascolarctos cinereus</i>	Phascolarctidae	A
		Alpine Chamois, <i>Rupicapra rupicapra</i>	Bovidae	A



## ORNITHOLOGY

Editor

Glenn G. Mertz, BU 1455

Corrections/Updates



Scott Publishing has assigned numbers to the following issues of Djibouti.

### DJIBOUTI, Vol. 68 (4), pp.265-266

#### Updates:

- 12 June 2019 (Extinct species) MS/4 is 1730a,b & SS/1 is 1740
- 12 June 2019 (Hornbills) MS/4 is 1727a-d & SS/1 is 1737
- 12 June 2019 (Hummingbirds) MS/4 is 1726a-d & SS/1 is 1736
- 12 June 2019 (Raptors) MS/4 is 1725a-d & SS/1 is 1735
- 27 July 2019 (Endangered Species) MS/4 is 1798b
- 27 July 2019 (Pigeons) MS/4 is 1793a-d & SS/1 is 1805
- 27 July 2019 (Owls) MS/4 is 1794a-d & SS/1 is 1806
- 27 July 2019 (Parrots) MS/4 is 1795a-d & SS/1 is 1807
- 27 July 2019 (Samps-on-Stamps) MS/4 is 1771a (Dominica Sc#827)
- 27 July 2019 SS Blue-headed Hummingbird is 1772
- 27 July 2019 SS Green-throated Carib is 1775

#### New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
<b>AITUTAKI</b>		<b>2018 May 4</b> (Birdpex Philatelic Exhibition) (Set/2)		<b>A</b>
664a	\$1.00	Hawaiian Petrel, <i>Pterodroma sandwichensis</i>	Procellariidae	V67(2)
664b	\$4.80	Juan Fernandez Petrel, <i>Pterodroma externa</i>	Procellariidae	
<b>2018 December 27</b> (Birds of PreySet/12 with white frames)				<b>A</b>
669	20c	Bonelli's Eagle, <i>Aquila fasciata</i>	Accipitridae	
681a	20c	Same species, w/o white frame		
670	30c	Pearl Kite, <i>Gampsonyx swainsonii</i>	Accipitridae	
681b	30c	Same species, w/o white frame		
671	40c	Black-breasted Buzzard, <i>Hamirostra melanosternon</i>	Accipitridae	V68 (1)
681c	40c	Same species, w/o white frame		
672	50c	Brahminy Kite, <i>Haliastur indus</i>	Accipitridae	
681d	50c	Same species, w/o white frame		
673	\$1.00	Oriental Honey-Buzzard, <i>Pernis ptilorhynchus</i>	Accipitridae	
681e	\$1.00	Same species, w/o white frame		
674	\$2.00	Henst's Goshawk, <i>Accipiter henstii</i>	Accipitridae	V68(1)
681f	\$2.00	Same species, w/o white frame		
674a		SS of 6, #669-674		
675	\$2.40	Cuban Black Hawk, <i>Buteogallus gundlachii</i>	Accipitridae	
681g	\$2.40	Same species, w/o white frame		
676	\$2.60	Double-toothed Kite, <i>Harpagus bidentatus</i>	Accipitridae	
681h	\$2.60	Same species, w/o white frame		

**AITUTAKI** (continued)

677	\$4.50	Crowned Hawk, <i>Stephanoaetus coronatus</i>	Accipitridae	
681i	\$4.50	Same species, w/white frame		
678	\$5.00	African Marsh-Harrier, <i>Circus ranivorus</i> (RS)	Accipitridae	V68(1)
		Yellow-billed Kite, <i>Milvus aegyptius</i> (LS) ssp of Black Kite, <i>Milvus migrans</i>	Accipitridae	
681j	\$5.00	Same species, w/ white frame		
679	\$7.50	White-bellied Sea-Eagle, <i>Haliaeetus leucogaster</i>	Accipitridae	
681k	\$7.50	Same species, w/o white frame		
680	\$10.00	Pacific Baza, <i>Aviceda subcristata</i>	Accipitridae	
681l	\$10.00	Same species, w/white frame		
680a		SS of 6, #675-680—Note 674a & 680a have white frames on one or two sides		

**2019 August 5** (Scott #649, 650 & 651 surcharged)**A**

682	50c on \$1.70	Chatham Albatross, <i>Thalassarche eremita</i>	Diomedidae	
683	50c on \$2.00	Same species, on #650		
684	50c on \$2.40	Same species, on #651		
685	\$1.00 on \$1.70	Same species, on #649		
686	\$1.00 on \$2.00	Same species, on #650		
687	\$1.00 on \$2.40	Same species, on #651		

**2019 November 15** (Type of 2018, Set/4 with frames, strip/4 without frames)**A**

690	\$2.50	Long-crested Eagle, <i>Lophaetus occipitalis</i>	Accipitridae	
694a	\$2.50	Same species, w/o white frames		
691	\$3.03	Spanish Eagle, <i>Aquila adalberti</i>	Accipitridae	
694b	\$3.00	Same species, w/o white frames		
692	\$4.00	Tawny Eagle, <i>Aquila rapax</i>	Accipitridae	
694c	\$4.00	Same species, w/o white frames		
693	\$6.00	Verreaux's Eagle, <i>Aquila verreauxii</i>	Accipitridae	
694d	\$6.00	Same species, w/o white frames		

**2019 November 20** (Owls) (Set/4 & strip/4)**A**

695	\$5.50	Barred Owl, <i>Strix varia</i>	Strigidae	
699a	\$5.50	Same species, w/o white frames		
696	\$6.70	Little Owl, <i>Athene noctua</i>	Strigidae	
699b	\$6.70	Same species, w/o white frames		
697	\$22.40	Whiskered Screech-Owl, <i>Megascops trichopsis</i>	Strigidae	V69(2)
698	\$22.40	Same species, w/o white frames		
698	\$29.90	Verreaux's Eagle-Owl, <i>Bubo lacteus</i>	Strigidae	
699d	\$29.60	Same species, w/o white frames		

**ARGENTINA****2019 January 28** (Landmarks and Wildlife of Tierra del Fuego) (Set/4)**A**

2861	\$180.00	Gentoo Penguin, <i>Pygoscelis papu</i>	Spheniscidae	
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**ANGOLA****2019 December 20** (Endemic Species) (SS)**A**

N/A	1200kz	African Cuckoo-Hawk, <i>Aviceda cuculoides</i>	Accipitridae	
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**2019 December 20** (Sandgrouse) (Set/4, SS)**AZ**

N/A	300kz	Burchell's Sandgrouse, <i>Pterocles burchelli</i>	Pteroclididae	
N/A	300kz	Same species, facing left		
N/A	300kz	Double-banded Sandgrouse, <i>Pterocles bicinctus</i>	Pteroclididae	
N/A	300kz	Same species, facing left		
N/A	SS 1200kz	Namaqua Sandgrouse, <i>Pterocles namaqua</i>	Pteroclididae	
	Margin	Burchell's Sandgrouse, <i>Pterocles burchelli</i>		



**ANGOLA (continued)****2019 December 20 (Jacanas) (Set/4, SS/1) AZ**

N/A	300kz	African Jacana, <i>Actophilornis africanus</i>	Jacanidae
		Same species & same value for the other three	
N/A	SS1200kz	Same species on the stamp and in the surround in bottom left.	
	Margin	Lesser Jacana, <i>Microparra capensis</i> (UR)	Jacanidae

**2019 December 20 (Nightjars) (Set/4, SS/1) AZ**

N/A	300kz	Rufous-cheeked Nightjar, <i>Caprimulgus rufigena</i>	Caprimulgidae <b>New</b>
N/A	300kz	Eurasian Nightjar, <i>Caprimulgus europaeus</i>	Caprimulgidae
N/A	300kz	Fiery-necked Nightjar, <i>Caprimulgus pectoralis</i>	Caprimulgidae <b>New</b>
N/A	300kz	Swamp Nightjar, <i>Caprimulgus natalensis</i>	Caprimulgidae <b>New</b>
N/A	SS1200kz	Rufous-cheeked Nightjar, <i>Caprimulgus rufigena</i>	Caprimulgidae
	Margins	LR: Eurasian Nightjar, <i>Caprimulgus europaeus</i>	Caprimulgidae
		Fiery-necked Nightjar, <i>Caprimulgus pectoralis</i>	Caprimulgidae

**2019, December 20 (Birds of Prey) (Set/4, SS/1) AZ**

N/A	300kz	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae
N/A	300kz	Crowned Eagle, <i>Stephanoaetus coronatus</i>	Accipitridae
N/A	300kz	Verreaux's Eagle, <i>Aquila verreauxii</i>	Accipitridae
N/A	300kz	African Fish-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae
N/A	SS 1200kz	Martial Eagle, <i>Polemaetus bellicosus</i>	Accipitridae
	Margins	LC: African Fish-Eagle, <i>Haliaeetus vocifer</i> (LC)	Accipitridae
		Tawny Eagle, <i>Aquila rapax</i> (RS)	Accipitridae

**ARMENIA 2019 March 26 (Honoring Calouste Sarkis Gulbenkian, joint issue w/Portugal) (Set/2) B**

1183a	2300d	Indian Peafowl, <i>Pavo cristatus</i>	Phasianidae
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**ARUBA 2018 September 28 (Water sports) (Set/4) B**

603	90c	Royal Tern, <i>Thalasseus maximus</i>	Laridae
		Black Skimmer, <i>Rynchops niger</i>	Laridae
604	135c	Bridled Tern, <i>Onychoprion anaethetus</i>	Laridae
605	200c	Sooty Tern, <i>Onychoprion fuscatus</i>	Laridae

**2018 October 31 (Pets) (Set/6) A**

614	500c	Rosy-faced Lovebird, <i>Agapornis roseicollis</i>	Psittaculidae
		Fischer's Lovebird, <i>Agapornis fischeri</i>	Psittaculidae
		Yellow-collared Lovebird, <i>Agapornis personatus</i>	Psittaculidae

**AUSTRALIA 2019 October 22 (Type of 2016, Items starting with...) (Set/5, Set/5 SA) B**

5030	\$1.00	Australian Ibis, <i>Threskiornis molucca</i>	Threskiornithidae
5036	\$1.00	Same species, s/a	

**AZERBAIJAN 2019 September 29 (Europa) (Set/2) AZ**

1235	0,50g	Great Rosefinch, <i>Carpodacus rubicilla</i>	Fringillidae
1236	0,60g	Chukar, <i>Alectoris chukar</i>	Phasianidae
1237	SS 1.50m	Eurasian Hoopoe, <i>Upupa epops</i>	Upupidae

**BELARUS 2019 May 9 (Europa, National bird) (Set/2) AZ**

1139	(1.62r)	White Stork, <i>Ciconia ciconia</i> and nest	Ciconiidae
1140	(1.80r)	Same species, adult only	
1140a		SS of 4, 2 each #1139-1140	

<b>BOLIVIA</b>			<b>2018 October 18</b> (Endangered birds) (Set/2)	<b>A</b>
1645	50c	Palkachum Cotinga, <i>Philbalura flavirostris boliviana</i> (ssp of Swallow-tailed Cotinga)	Cotingidae	
1645a	50c	Same species, with red emblem		
1646	3bs	Horned Curassow, <i>Pauxi unicornis</i>	Cracidae	
1646a	3bs	Same species, with red emblem		
Note: The red emblem on the stamps was put on all stamp stocks that remained after the postal Company of Bolivia closed because of debt as of March 1, 2018, a decree authorized the Creation of the “Agencia Boliviana de Correos” to replace the closed postal company of Bolivia.				
<b>BOTSWANA</b>			<b>2019 October 9</b> (Cranes) (Set/4, SS/1)	<b>AZ</b>
1078	2p	Blue Crane, <i>Grus paradisea</i>	Gruidae	
1079	5p	Gray Crowned-Crane, <i>Balearica regulorum</i>	Gruidae	
1080	7p	Wattled Crane, <i>Grus carunculatus</i>	Gruidae	
1081	10p	Same species, in a horizontal format	Gruidae	
1081a		SS of one		
<b>BRAZIL</b>			<b>2018 November 6</b> (Pets) (Sheet of 30)	<b>A</b>
3384ac	1.55r	Budgerigar, <i>Melopsittacus undulatus</i> (3 on perch)	Psittaculidae	
3384ad	1.55r	Cockatiel, <i>Nymphicus hollandicus</i>	Cacatuidae	
			<b>2018 December 4</b> (National museum, 200y) (Single)	<b>C*</b>
3390	3.10r	Harpy Eagle, <i>Harpia harpyja</i>	Accipitridae	
<b>CENTRAL AFRICAN REP.</b>			<b>2019 November 21</b> (Aquatic Birds) (Set 4, SS/1)	<b>AZ</b>
N/A	900fr	Great Crested Grebe, <i>Podiceps cristatus</i>	Podicipedidae	
N/A	900fr	Mute Swan, <i>Cygnus olor</i>	Anatidae	
N/A	900fr	Gray Heron, <i>Ardea cinerea</i>	Ardeidae	
N/A	900fr	White Stork, <i>Ciconia ciconia</i>	Ciconiidae	
N/A	SS 3600fr	Roseate Spoonbill, <i>Platalea ajaja</i>	Threskiornithidae	
	Margin	Blue-footed Booby, <i>Sula nebouxii</i>	Sulidae	
			<b>2020 January 27</b> (Discovery of Antarctica, 200y) (Set/4, SS/1)	<b>AZ</b>
Explorers, Mikhail Lazarev (1788-1851) & Fabian Gottlieb von Bellingshausen (1788-1852).				
N/A	850fr	Southern Rockhopper Penguin, <i>Eudyptes chrysocome</i>	Spheniscidae	
N/A	850fr	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae	
N/A	SS 3300fr	Adelie Penguin, <i>Pygoscelis adeliae</i>	Spheniscidae	
	Margin	LC: Chinstrap Penguin, <i>Pygoscelis antarcticus</i>	Spheniscidae	
		LL: Southern Rockhopper Penguin, <i>Eudyptes chrysocome</i>	Spheniscidae	
			<b>2020 January 27</b> (Owls) (Set/4, SS/1)	<b>AZ</b>
N/A	900fr	Eurasian Scops-Owl, <i>Otus scops</i>	Strigidae	
N/A	900fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
N/A	900fr	Barn Owl, <i>Tyto alba</i>	Tytonidae	
N/A	900fr	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
N/A	SS 3600fr	Brown Wood-Owl, <i>Strix leptogrammica</i>	Strigidae	
	Margin	LL: Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
		RS: Eurasian Eagle-Owl, <i>Bubo bubo sibiricus</i> (ssp)	Strigidae	
			<b>2020 January 27</b> (Bee-eaters) (Set/4, SS/1)	<b>AZ</b>
N/A	850fr	Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	
N/A	850fr	Blue-throated Bee-eater, <i>Merops viridis</i>	Meropidae	
N/A	850fr	Blue-bearded Bee-eater, <i>Nyctyornis athertoni</i>	Meropidae	
N/A	850fr	Chestnut-headed Bee-eater, <i>Merops leschenaulti</i>	Meropidae	

**CENTRAL AFRICAN REPUBLIC** (continued)

N/A	SS 3300fr	Purple-bearded Bee-eater, <i>Merops forsteni</i>	Meropidae
	Margin	UR: European Bee-eater, <i>Merops apiaster</i>	Meropidae
		RS: White-fronted Bee-eater, <i>Merops bullockoides</i>	Meropidae
		LL: Rainbow Bee-eater, <i>Merops ornatus</i>	Meropidae

**CHAD****2020 February 24** (Kingfishers) Set/4, SS/1)**AZ**

N/A	800f	Belted Kingfisher, <i>Megaceryle alcyon</i>	Alcedinidae
N/A	800f	Collared Kingfisher, <i>Todiramphus chloris</i>	Alcedinidae
N/A	800f	White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae
N/A	800f	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae
N/A	SS 3300fr	Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae
	Margin	UL: Blue-eared Kingfisher, <i>Alcedo meninting</i>	Alcedinidae
		Crested Kingfisher, <i>Megaceryle lugubris</i>	Alcedinidae

**CHINA (PR)****2019 July 20** (Poyang Lake) (Set/3)**B**

4637	\$1.20	Oriental Stork, <i>Ciconia boyciana</i> (at shoe-shaped island)	Ciconiidae
4638	\$1.20	Oriental Stork, <i>Ciconia boyciana</i> Tundra Swan, <i>Cygnus columbianus</i> Siberian Crane, <i>Leucogeranus leucogeranus</i> (Over Poyang Lake National Wetlands)	Ciconiidae Anatidae Gruidae

**COOK ISLANDS****2018 May 4** (Birdpex) (Pair/2)**A**

1594a	\$1.00	Short-tailed Shearwater, <i>Ardenna</i>	Procellariidae	V67(2)
1594b	\$4.80	Tropical Shearwater, <i>Puffinus bailloni</i>	Procellariidae	V69(1)

**2018 December 20** (Definitives with white frames) (Set/12)**AZ**

1602	20c	Swamp Harrier, <i>Circus approximans</i>	Accipitridae	
1603	30c	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae	
1604	40c	Eurasian Pygmy-Owl, <i>Glaucidium passerinum</i>	Strigidae	
1605	50c	Madagascar Harrier-Hawk, <i>Polyboroides radiatus</i>	Accipitridae	V68(1)
1606	\$1.00	Barn Owl, <i>Tyto alba</i>	Tytonidae	
1607	\$2.00	Japanese Sparrowhawk, <i>Accipiter gularis</i>	Accipitridae	
1607a		SS of 6, #1602-1607		
1608	\$2.40	Hooded Vulture, <i>Necrosyrtes monachus</i>	Accipitridae	
1609	\$2.60	Booted Eagle, <i>Hieraaetus pennatus</i>	Accipitridae	
1610	\$4.50	Whistling Kite, <i>Haliastur sphenurus</i> Great Egret, <i>Ardea alba</i>	Accipitridae Ardeidae	
1611	\$5.00	Letter-winged Kite, <i>Elanis scriptus</i>	Accipitridae	V68(1)
1612	\$7.50	Egyptian Vulture, <i>Neophron percnopterus</i>	Accipitridae	
1613	\$10.00	Barking Owl, <i>Ninox connivens</i>	Strigidae	
1613a		SS of 6, #1608-1613		
1614a-l		Same as listed for 1602-1613, but w/o white frames.		

Inscribed "**Rarotonga Cook Islands**" (Definitives with white frames) (Set/12)**AZ**

1615	20c	Pale Chanting Goshawk, <i>Melierax canorus</i>	Accipitridae	
1616	30c	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
1617	40c	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
1618	50c	Costa Rican Pygmy-Owl, <i>Glaucidium costaricanum</i> 68(1)	Strigidae	
1619	\$1.00	Jackal Buzzard, <i>Buteo rufofuscus</i>	Accipitridae	
1620	\$2.00	Hen Harrier, <i>Circus cyaneus</i> (Stamp has Northern Harrier)	Accipitridae	

**COOK ISLANDS** (continued)

1620a		SS of 6, #1615-1620		
1621	\$2.40	Eastern Marsh-Harrier, <i>Circus spilonotus</i>	Accipitridae	
1622	\$2.60	Long-winged Harrier, <i>Circus buffoni</i>	Accipitridae	
1623	\$4.50	Asian Barred Owllet, <i>Glaucidium cuculoides</i>	Strigidae	
1624	\$5.00	Crested Eagle, <i>Morphnus guianensis</i>	Accipitridae	
1625	\$7.50	Lesser Spotted Eagle, <i>Clanga pomarina</i>	Accipitridae	
1626	\$10.00	White-browed Owl, <i>Athene supercilialis</i>	Strigidae	
1626a		SS of 6, #1621-1626		
1627a-l		Same species as above for 1615-1626, w/o white frames		
<b>2019 May 30</b> (Suwarow Atoll National Park) (Set/6, SS/1) <b>AZ</b>				
1628a	50c	Lesser Frigatebird, <i>Fregata ariel</i> (LS)	Fregatidae	
		Red-footed Booby, <i>Sula sula</i> (RS)	Sulidae	
		Red-tailed Tropicbird, <i>Phaethon rubricauda</i> (LR)	Phaethontidae	
1628b	50c	Masked Booby, <i>Sula dactylatra</i>	Sulidae	
1628f	50c	Brown Booby, <i>Sula leucogaster</i>	Sulidae	
1629	SS \$4.50	Lesser Frigatebird, <i>Fregata ariel</i>	Fregatidae	
Note: 1628a-f & 1629, all feature the Red-tailed Tropicbird, <i>Phaethon rubricauda</i> on LR corner of the sheet of six stamps, but a little larger in the surround of the SS.				
<b>2019 June 19</b> (#1594a and 1594b Surcharged) <b>A</b>				
1632a	50c on \$1.00	Short-tailed Shearwater, <i>Ardenna tenuirostris</i>	Procellariidae	
1632b	50c on \$4.80	Tropical Shearwater, <i>Puffinus bailloni</i>	Procellariidae	
<b>2019 November 20</b> (Type of 2018) (Set/4 & Strip/4) <b>AZ</b>				
Inscribed "Cook Islands" w/white frames				
1640	\$2.50	White-backed Vulture, <i>Gyps africanus</i>	Accipitridae	
1641	\$20.60	Variable Hawk, <i>Geranoaetus polyosoma</i>	Accipitridae	
1642	\$25.00	Galapagos Hawk, <i>Buteo galapagoensis</i>	Accipitridae	
1643	\$30.00	Wedge-tailed Eagle, <i>Aquila audax</i>	Accipitridae	
1644a-d		Same birds as 1640-1643, but w/o white frames		
1644e		SS of four, Sc#1644a-1644b		
Inscribed "Rarotonga Cook Islands" w/ white frames				
1645	\$2.50	Levant Sparrowhawk, <i>Accipiter brevipes</i>	Accipitridae	<b>New</b>
1646	\$3.00	Zone-tailed Hawk, <i>Buteo albonotatus</i>	Accipitridae	
1647	\$4.00	Roadside Hawk, <i>Rupornis magnirostris</i>	Accipitridae	
1648	\$6.00	Harris's Hawk, <i>Parabuteo unicinctus</i>	Accipitridae	
1949 a-d		Block or vertical strip of 4, #1645-1648 w/o white frames		
1649e		SS of 4, #1649a-d, same birds as Sc#1645-1648, w/o white frames		
Inscribed: "Cook Islands" w/white frames				
1650	\$5.50	Military Macaw, <i>Ara militaris</i>	Psittacidae	
1651	\$6.70	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
1652	\$22.40	Red-and-green Macaw, <i>Ara chloropterus</i>	Psittacidae	
1653	\$22.90	Red-fronted Macaw, <i>Ara rubrogenys</i>	Psittacidae	
1654a-d,		Block or vert. strip of 4, #1650-1653		
1654e		SS of 4, #1654a-d		
Inscribed "Rarotonga Cook Islands" w/white frames				
1655	\$5.50	Long-tailed Sylph, <i>Agelaiocercus kingi</i>	Trochilidae	



**COOK ISLANDS** (continued)

1656	\$6.70	Crowned Woodnymph, <i>Thalurania colombica</i> (Stamp has Violet-Crowned Woodnymph)	Trochilidae
1657	\$22.40	Sword-billed Hummingbird, <i>Ensifera ensifera</i>	Trochilidae
1658	\$29.90	Green Hermit, <i>Phaethornis guy</i>	Trochilidae
1659a-d,		Block or vert. strip of 4 w/o white frames	
1659e		SS of 4, #1659a-d w/o white frames	

**CUBA** **2018 February 20** (Endangered Birds) (Set/6, imperf SS/1) **AZ**

6026	10c	Red-breasted Goose, <i>Branta ruficollis</i>	Anatidae
6027	30c	Yellow-headed Parrot, <i>Amazona oratrix</i>	Psittacidae
6028	65c	South Island Takahe, <i>Porphyrio hochstetteri</i> (Stamp has species of <i>mertello</i> )	Rallidae
6029	75c	Philippine Eagle, <i>Pithecophaga jefferyi</i>	Accipitridae
6030	85c	Kagu, <i>Rhyochetos jubatus</i>	Rhynchotidae
6031	90c	Great Curassow, <i>Crax rubra</i>	Cracidae
6032	SS 1.00p	Giant Kingbird, <i>Tyrannus cubensis</i> Imperf	Tyrannidae

**2018 November 3** (Endemic Birds) (Set/6, imperf SS/1) **AZ**

6108	10c	Fernandina's Flicker, <i>Colaptes fernandinae</i>	Picidae
6109	30c	Yellow-headed Warbler, <i>Teretistris fernandinae</i>	Teretistridae
6110	65c	Cuban Oriole, <i>Icterus melanopsis</i> V68(2)	Icteridae
6111	75c	Greater Antillean Nightjar, <i>Antrostomus cubanensis</i>	Caprimulgidae V68(1)
6112	85c	Cuban Blackbird, <i>Ptiloxena atroviolacea</i> (Stamp has genus of <i>Dives</i> )	Icteridae
6113	92c	Bare-legged Owl, <i>Margarobias lawrencii</i>	Strigidae
6114	SS 1.00p	Cuban Black Hawk, <i>Buteogallus Gundlachii</i>	Accipitridae

**2019 April 22** (Cienfuegos 200th Anniv.) (Set/4, SS/1) **A**

6147a	40c	American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae
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**CURACAO** **2019 January 21** (Aspects of Life in Curacao) (Set/6) **C**

359	319c	Bananaquit, <i>Coereba flaveola</i>	Thraupidae
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**CZECH REPUBLIC** **2019 September 24** (Animals in Czech Republic Zoo) (Set/4 + labels) **B**

3802c	27k	Eurasian Spoonbill, <i>Platalea leucorodia</i>	Threskiornithidae
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**DJIBOUTI** **2019 August 27** (Scott # 1059a-d surcharged in gold or metallic red) **A**

1814	590fr on 260fr	Lappet-faced Vulture, <i>Torgos tracheliotos</i> (1059a gold)	Accipitridae
1815	590fr on 260fr	Same species, 1059a in (mr)	
1816	590fr on 360fr	Same species, 1059b in gold	
1817	590fr on 260fr	Same species, 1059b in (mr)	
1818	590fr on 260fr	Same species, 1059c in gold	
1819	590fr on 260fr	Same species, 1059c in (mr)	
1820	590fr on 260fr	Same species, 1059d in gold	
1821	590fr on 260fr	Same species, 1059d in (mr)	

**2019 August 27** (Bee-eaters) (Set/4, SS/1) **AZ**

1824a	250fr	White-throated Bee-eater, <i>Merops albicollis</i>	Meropidae
1824b	250fr	European Bee-eater, <i>Merops apiaster</i>	Meropidae
1824c	250fr	Chestnut-headed Bee-eater, <i>Merops leschenaultia</i>	Meropidae
1824d	250fr	Red-throated Bee-eater, <i>Merops bullocki</i>	Meropidae
1832	SS 1000fr	Northern Carmine Bee-eater, <i>Merops nubicus</i>	Meropidae
	Margin	White-throated Bee-eater, <i>Merops bullockoides</i>	Meropidae

**DJIBOUTI** (continued)

<b>2019 August 27 (Sunbirds) (Set/4, SS/1)</b>				<b>AZ</b>
1825a	250fr	Collared Sunbird, <i>Hedydipna collaris</i>	Nectariniidae	
1825b	250fr	Mrs. Gould's Sunbird, <i>Aethopyga gouldiae</i>	Nectariniidae	
1825c	250fd	Crimson Sunbird, <i>Aethopyga siparaja</i>	Nectariniidae	
1825d	250fr	Green-tailed Sunbird, <i>Aethopyga nipalensis</i>	Nectariniidae	
1833	SS 1000fr	Streaked Spiderhunter, <i>Arachnothera magna</i>	Nectariniidae	
	Margin	UR: Black-throated Sunbird, <i>Aethopyga saturate</i>	Nectariniidae	
		LR: Olive-backed Sunbird, <i>Cinnyris jugularis</i>	Nectariniidae	
<b>2019 August 27 (Ducks Les Canards) (Set/4, SS/1)</b>				<b>AZ</b>
1826a	250fr	Red-crested Pochard, <i>Netta rufina</i>	Anatidae	
1826b	250fr	Tufted Duck, <i>Aythya fuligula</i>	Anatidae	
1826c	250fr	Common Goldeneye, <i>Bucephala clangula</i>	Anatidae	
1826d	250fr	Common Shelduck, <i>Tadorna tadorna</i>	Anatidae	
1834	SS 1000fr	Marbled Teal, <i>Marmaronetta angustirostris</i>	Anatidae	
	Margin	Common Merganser, <i>Mergus merganser</i>	Anatidae	
<b>2019 December 12 (Water birds) (Set/4, SS/1)</b>				<b>A</b>
N/A	250fr	Mallard, <i>Anas platyrhynchos</i>	Anatidae	
N/A	250fr	Great Egret, <i>Ardea alba modesta</i> (ssp)	Ardeidae	
N/A	250fr	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
N/A	250fr	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae	
N/A	SS 1000fr	Pied Avocet, <i>Recurvirostra avosetta</i>	Recurvirostridae	
	Margin	American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae	
<b>2019, December 12(Raptors) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	250fr	Northern Goshawk, <i>Accipiter gentilis</i>	Accipitridae	
N/A	250fr	Eurasian Griffon, <i>Gyps fulvus</i>	Accipitridae	
N/A	250fr	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae	
N/A	250fr	Eurasian Scops-Owl, <i>Otus scops</i>	Strigidae	
N/A	SS 1000fr	King Vulture, <i>Sarcorampus papa</i>	Cathartidae	
	Maragin	UL: Black-chested Buzzard-Hawk, <i>Geranoaetus melanoleucus</i>	Accipitridae	
		UC: Besra, <i>Accipiter virgatus</i>	Accipitridae	
<b>2019 December 12 (Kingfishers) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	250fr	Black-backed Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
N/A	250fr	Black-capped Kingfisher, <i>Halcyon pileata</i>	Alcedinidae	
N/A	250fr	Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae	
N/A	250fr	Belted Kingfisher, <i>Megaceryle alcyon</i>	Alcedinidae	
N/A	SS 1000fr	Laughing Kookaburra, <i>Dacelo novaeguineae</i>	Alcedinidae	
	Margin	UL: Small Blue Kingfisher, <i>Alcedo coerulescens</i>	Alcedinidae	
		LR: Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae	
<b>2019 December 12 (The Antarctic) (Set/4, SS/1)</b>				<b>A</b>
N/A	250fr	Antarctic Shag, <i>Phalacrocorax bransfieldensis</i>	Phalacrocoracidae	
		(Stamp has genus of <i>Leucocarbo</i> )		
NA	250fr	Chinstrap Penguin, <i>Pygoscelis antarcticus</i>	Spheniscidae	
N/A	SS 1000fr	No bird on stamp.		
	Margin	UL: Wandering Albatross, <i>Diomedea exulans</i>	Diomedidae	
		Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae	

<b>FALKLAND ISLANDS</b>			<b>2019 March 4</b> (Shipwrecks type of 2017) (Set/4)	<b>C</b>
1246	£1.01	Rock Shag, <i>Phalacrocorax magellanicus</i>	Phalacrocoracidae	
		Imperial Shag, <i>Phalacrocorax atriceps</i>	Phalacrocoracidae	
<b>FINLAND</b>			<b>2019 May 8</b> (Europa) (Set/2)	<b>A</b>
1585a	(€1.50)	Whooper Swan, <i>Cygnus cygnus</i> (Vertical format)	Anatidae	
1585b	(€1.50)	Same species, horizontal format		
<b>FINLAND (Åland)</b>			<b>2019 May 9</b> (Europa) (Single)	<b>A</b>
420	(€1.40)	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae	
<b>FRENCH SOU. &amp; ANT. TERR.</b>			<b>2019 November 28</b> (Set/2)	<b>A</b>
619a	€1.50	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae	
619b	€1.50	Same species, one penguin on stamp & surrounds		
<b>GEORGIA</b>			<b>2019 August 25</b> (Europa) (Set/2)	<b>A</b>
560	2,40l	Eurasian Sparrowhawk, <i>Accipiter nisus</i>	Accipitridae	
561	2,40l	Ring-necked Pheasant, <i>Phasianus colchicus</i>	Phasianidae	
<b>GREAT BRITAIN</b>			<b>2019 June 4</b> (Birds of Prey) (Set/10)	<b>A</b>
3827	(70p)	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae	
3828	(70p)	Merlin, <i>Falco columbarius</i>	Falconidae	
3829	(70p)	Hobby, <i>Falco subbuteo</i>	Falconidae	
3838	(70p)	Same species, SA		
3830	(70p)	Common Buzzard, <i>Buteo buteo</i>	Accipitridae	
3837	(70p)	Same species, SA		
3831	(70p)	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
3831a		Horizontal strip of 5, 3827-3831		
3832	(70p)	Eurasian Kestrel, <i>Falco tinnunculus</i>	Falconidae	
3833	(70p)	Northern Goshawk, <i>Accipiter gentilis</i>	Accipitridae	
3837	(70p)	Eurasian Sparrowhawk, <i>Accipiter nisus</i>	Accipitridae	
3835	(70p)	Red Kite, <i>Milvus milvus</i>	Accipitridae	
3836	(70p)	Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae	
<b>GREAT BRITAIN (Isle of Man)</b>			<b>2019 February 12</b> (Wildlife) (Set/10)	<b>A</b>
Sc#2006-2010 are SA booklet stamps.				
2005c	(52p)	Northern Gannet, <i>Morus bassanus</i>	Sulidae	
2008	(52p)	Same species, S.A.		
2005d	(52p)	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
2009	(52p)	Same species, S.A.		
2005f	(83p)	European Stonechat, <i>Saxicola rubicola</i>	Muscicapidae	
<b>GREAT BRITAIN (Isle of Man)</b>			<b>2019 September 19</b> (Town and Country) (Set/8)	<b>A</b>
2059a	(57p)	House Sparrow, <i>Passer domesticus</i>	Passeridae	
2059b	(57p)	Coal Tit, <i>Periparus ater</i>	Paridae	
2059c	(57p)	Northern Wheatear, <i>Oenanthe oenanthe</i>	Muscicapidae	
2059d	(57p)	Long-tailed Tit, <i>Aegithalos caudatus</i>	Paridae	
2060a	(£1.50)	European Goldfinch, <i>Carduelis carduelis</i>	Fringillidae	
2060b	(£1.50)	European Stonechat, <i>Saxicola rubicola</i>	Fringillidae	
2060c	(£1.50)	Common Chaffinch, <i>Fringilla coelebs</i>	Fringillidae	
2060d	(£1.50)	Eurasian Blackbird, <i>Turdus merula</i>	Turdidae	
2060a-d has RoW on any of the singles.				

<b>GREAT BRITAIN (Jersey)</b>			<b>2019 September 2</b> (Woodland life) (Set/6)	<b>A</b>
2267	52p	Barn Owl, <i>Tyto alba</i>	Tytonidae	
2268	52p	Long-eared Owl, <i>Asio otus</i>	Strigidae	
2270	52p	Hawfinch, <i>Coccothraustes coccothraustes</i>	Fringillidae	
<b>GREECE</b>			<b>2019 May 9</b> (Europa) (Set/2)	<b>A</b>
2887a	90c	Rock Nuthatch, <i>Sitta neumayer</i>	Sittidae	
2887b	3,40€	Eleonors's Falcon, <i>Falco eleonora</i>	Falconidae	
<b>GUINEA</b>			<b>2018 August 8</b> (Extinct species) (Set/4)	<b>A</b>
N/A	12.500fg	St. Helena Hoopoe, <i>Upupa antaios</i>	Upupidae	V67(4)
N/A	12,500fg	Guadalupe Caracara, <i>Caracara lutosa</i> <b>New</b>	Falconidae	
<b>GUYANA</b>			<b>2019 May 1</b> (Wildlife of Aouth America) (Set/6)	<b>A</b>
4596a	\$200	Hyacinth Macaw, <i>Anodorhynchus hyacinthinus</i>	Psittacidae	
		Andean Condor, <i>Vultur gryphus</i> (UR)	Cathartidae	
4596b	\$200	Emu, <i>Dromaius novaehollandiae</i>	Casuariidae	
4596c	\$400	Not Identified.		
4596e	\$400	Toco Toucan, <i>Ramphastos toco</i>	Ramphastidae	
4596f	\$400	Tufted Coquette, <i>Lophornis ornatus</i>	Trochilidae	
		<b>2019 May 16</b> (Valerie Rodway composer of Antional Anthem) (Set/4)		<b>A</b>
4596a	\$100	Hoatzin, <i>Opisthocomus hoazin</i>	Opisthocomidae	
		<b>2019 May 16</b> (Inca Tern) (Set/4, SS/1))		<b>AZ</b>
4599a	\$100	Inca Tern, <i>Larosterna inca</i> (facing right)	Laridae	
4599b	\$300	Same species, facing right		
4599c	\$500	Same species, facing front		
4599d	\$700	Same species, facing right		
4600	SS.\$800	Same species, horizontal stamp		
		<b>2019 June 17</b> (Spangled Cotinga) (Set/4, SS/1)		<b>A</b>
4605a	\$250	Spangled Cotinga, <i>Cotinga cayana</i> , facing left	Cotingidae	
4605b	\$350	Same species, facing right		
4605d	\$450	Same species, facing right		
4606d	\$550	Same species, on branch		
4606	SS \$800	Same species		
<b>IRAQ</b>			<b>2019 August 25</b> (Set/4)	<b>A</b>
2065	250d	Bluethroat, <i>Luscinia svecica</i>	Muscicapidae	
2066	500d	Hawfinch, <i>Coccothraustes coccothraustes</i>	Fringillidae	
2067	750d	Common Chaffinch, <i>Fringilla coelebs</i>	Fringillidae	
2068	1000d	Eurasian Blue Tit, <i>Cyanistes caeruleus</i> (Stamp has Blue Tit, genus of <i>Parus</i> )	Paridae	
<b>KIRIBATI</b>			<b>2019 July 1</b> (Set/4)	<b>A</b>
1054	40c	Long-tailed Jaeger, <i>Stercorarius longicaudus</i>	Stercorariidae	
1055	55c	Leach's Storm-Petrel, <i>Oceanodroma leucorhoa</i>	Hydrobatidae	
1056	75c	Juan Fernandez Petrel, <i>Pterodroma externa</i>	Procellariidae	
1057	\$2.50	Sooty Shearwater, <i>Ardenna grisea</i> (Stamp has scientific name of <i>Puffinus griseus</i> )	Procellariidae	
<b>LIBERIA</b>			<b>2020 January 6</b> (Mushrooms and Owls) (St/6, SS/1)	<b>AZ</b>
N/A	\$200.00	Barred Owl, <i>Strix varia</i>	Strigidae	
N/A	\$200.00	Burrowing Owl, <i>Athene cunicularia</i>	Strigidae	



**LIBERIA** (continued)

N/A	\$200.00	Barn Owl, <i>Tyto alba</i>	Tytonidae
N/A	\$200.00	Long-eared Owl, <i>Asio otus</i>	Strigidae
N/A	\$200.00	Tawny Owl, <i>Strix aluco</i>	Strigidae
N/A	\$200.00	Short-eared Owl, <i>Asio flammeus</i>	Strigidae
N/A SS	\$1200.00	Barred Owl, <i>Strix varia</i>	Strigidae
Margin		UC: Barred Owl, <i>Strix varia</i>	Strigidae
		Great Horned Owl, <i>Bubo virginianus</i>	Strigidae

**2020 January 6** (Birds of Liberia) (Set/6, SS/1)**AZ**

N/A	\$200.00	Blue-bellied Roller, <i>Coracias cyanogaster</i>	Coraciidae
N/A	\$200.00	Great Blue Turaco, <i>Corythaeola cristata</i>	Musophagidae
N/A	\$200.00	African Scops-Owl, <i>Otus senegalensis</i>	Strigidae
N/A	\$200.00	Helmeted Guineafowl, <i>Numida meleagris</i>	Numididae
N/A	\$200.00	Great Blue Turaco, <i>Corythaeola cristata</i>	Musophagidae
N/A	\$200.00	Rose-ringed Parakeet, <i>Psittacula krameri</i>	Psittaculidae
N/A SS	\$1260.00	African Fish-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae
Margin		RS: Gray Parrot, <i>Psittacus erithacus timneh</i> (ssp)	Psittacidae
		LL: Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae

**MALAWI****2019 October 8** (Domesticated Birds of Malawi)**AZ**

A sheet of six se-tenant stamps, entitled "Domesticated Birds of Malawi"; The last two on the sheet are domesticated species of a duck & a chicken not listed in Clement's Checklist. Six SS's are also part of this issue, and I'm not listing them for this reason, but have Sc#909 and 910.

904a	700k	Common Quail, <i>Coturnix coturnix</i>	Phasianidae
904b	700k	Helmeted Guineafowl, <i>Numida meleagris</i>	Numididae
904c	700k	Wild Turkey, <i>Melegrus gallopavo</i>	Phasianidae
904d	700k	Rock Pigeon, <i>Columba livia</i>	Columbidae
905	450k	Common Quail, <i>Coturnix coturnix</i>	Phasianidae
906	450k	Helmeted Guineafowl, <i>Numida meleagris</i>	Numididae
907	450k	Wild Turkey, <i>Melegrus gallopavo</i>	Phasianidae
908	450k	Rock Pigeon, <i>Columba livia</i>	Columbidae

**MALDIVES ISLANDS****2019 February 12** (Flightless birds) (Set/4, SS/1)**AZ**

N/A	22r	Southern Cassowary, <i>Casuarius casuarius</i>	Casuariidae
N/A	22r	South Island Takahe, <i>Porphyrio hochstetteri</i>	Rallidae
N/A	22r	Weka, <i>Gallirallus australis</i>	Rallidae
N/A	22r	Falkland Steamer-Duck, <i>Tachyeres brachypterus</i>	Anatidae
N/A	SS 70r	African Penguin, <i>Spheniscus demersus</i>	Spheniscidae
Margin		Ostrich, <i>Struthio camelus</i>	Struthionidae

**2019 February 12** (Eagles) (Set/4, SS/1)**AZ**

N/A	22r	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae
N/A	22r	Brown Snake-Eagle, <i>Circaetus cinereus</i>	Accipitridae
N/A	22r	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae
N/A	22r	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae
N/A	SS 70r	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae
Margin		Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae

**2019 February 12** (Pigeons) (Set/4, SS/1)**AZ**

N/A	20r	Eurasian Collared Dove, <i>Streptopelia decaocto</i>	Columbidae
N/A	20r	European Turtle-Dove, <i>Streptopelia turtur</i>	Columbidae
N/A	20r	Victoria Crowned-Pigeon, <i>Goura victoria</i>	Columbidae

**MALDIVE ISLANDS (continued)**

N/A	20r	Spotted Dove, <i>Streptopelia chinensis</i> (Stamp has genus of <i>spilopelia</i> )	Columbidae	
N/A	SS 60r	Asian Emerald Dove, <i>Chalcohyps indica</i>	Columbidae	
	Margin	White-crowned Pigeon, <i>Patagioenas leucocephala</i>	Columbidae	
<b>2019 February 12 (Parrots) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	20r	Australian King-Parrot, <i>Alisterus scapularis</i>	Psittaculidae	
N/A	20r	Hyacinth Macaw, <i>Anodorhynchus hyacinthinus</i>	Psittacidae	
N/A	20r	Fischer's Lovebird, <i>Agapornis fischeri</i>	Psittaculidae	
N/A	20r	Turquoise-fronted Parrot, <i>Amazona aestiva</i>	Psittacidae	
N.A	SS 60r	Yellow-crested Cockatoo, <i>Cacatua sulphurea</i>	Cacatuidae	
	Margin	Gray Parrot, <i>Psittacus erithacus</i>	Psittacidae	
<b>2019 February 12 (Indigo birds) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	20r	Indigo Bunting, <i>Passerina cyanea</i> ♂	Cardinalidae	
N/A	20r	Same species, ♀		
N/A	20r	Same species, ♂ & ♀		
N/A	20r	Same species, ♂		
N/A	SS 60r	Same species, on stamp & in margin		
<b>2019 February 12 (Falcons) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	20r	Lanner Falcon, <i>Falco biarmicus</i>	Falconidae	
N/A	20r	Gyr Falcon, <i>Falco rusticolus</i>	Falconidae	
N/A	20r	Amur Falcon, <i>Falco amurensis</i>	Falconidae	
N/A	20r	Brown Falcon, <i>Falco berigora</i>	Falconidae	
N/A	SS 60r	Eleonor's Falcon, <i>Falco eleonora</i>	Falconidae	
	Margin	RS: Amur Falcon, <i>Falco amurensis</i> LS: Gray Kestrel, <i>Falco ardosiaceus</i>	Falconidae Falconidae	
<b>2019 February 12 (Ducks) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	22r	King Eider, <i>Somateria spectabilis</i>	Anatidae	
N/A	22r	Hooded Merganser, <i>Lophodytes cucullatus</i>	Anatidae	
N/A	22r	Mandarin Duck, <i>Aix galericulata</i>	Anatidae	
N/A	22r	Long-tailed Duck, <i>Clangula hyemalis</i>	Anatidae	
N/A	SS 70r	Ruddy Shelduck, <i>Tadorna ferruginea</i>	Anatidae	
	Margin	Wood Duck, <i>Aix sponsa</i>	Anatidae	
<b>NEVIS 2019 March 16 (Pigeons &amp; Doves) (Set/4)</b>				<b>AZ</b>
1984		Sheet of 4		
1984a	\$4.00	White-tipped Dove, <i>Leptotila verreauxi</i>	Columbidae	
1984b	\$5.00	Ruddy Ground-Dove, <i>Columbina talpacoti</i>	Columbidae	
1984c	\$6.00	Pale-vented Pigeon, <i>Patagioenas cayennensis</i>	Columbidae	
1984d	\$7.00	Rock Pigeon, <i>Columba livia</i>	Columbidae	
<b>NIGER 2019 December 20 (Lighthouses and Water birds) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	800fr	Mediterranean Gull, <i>Ichthyaeetus melanocephalus</i>	Laridae	
N/A	800fr	Pied Cormorant, <i>Phalacrocorax varius</i>	Phalacrocoracidae	
N/A	800fr	Variable Oystercatcher, <i>Haematopus unicolor</i>	Haematopodidae	
N/A	800fr	Common Tern, <i>Sterna hirundo</i>	Laridae	
N/A	SS 3300fr	Great White Pelican, <i>Pelecanus onocrotalus</i>	Pelecanidae	
	Margin	Black-browed Albatross, <i>Thalassarche melanophris</i>	Diomedidae	

**NIGER (continued)**

<b>2019 December 20 (The Antarctic) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	800fr	Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae	
N/A	800fr	Wandering Albatross, <i>Diomedea exulans</i>	Diomedidae	
N/A	800fr	Chinstrap Penguin, <i>Pygoscelis antarcticus</i>	Spheniscidae	
N/A	SS 3300fr	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae	
	Margin	Gentoo Penguin, <i>Pygoscelis papua</i>	Spheniscidae	

<b>2019 December 20 (Owls) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	800fr	Eurasian Scops-Owl, <i>Otus scops</i>	Strigidae	
N/A	800fr	Blakiston's Fish-Owl, <i>Bubo blakistoni</i>	Strigidae	
N/A	800fr	Eurasian Eagle-Owl, <i>Bubo bubo sibiricus</i> (ssp)	Strigidae	
N/A	800fr	Long-eared Owl, <i>Asio otus</i>	Strigidae	
N/A	SS 3300fr	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
	Margin	Barn Owl, <i>Tyto alba</i>	Tytonidae	

<b>2019 December 20 (Birds of Niger) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	800fr	Hamerkop, <i>Scopus umbretta</i>	Scopidae	
N/A	800fr	African Sacred Ibis, <i>Threskiornis aethiopicus</i>	Threskiornithidae	
N/A	800fr	Eurasian Wigeon, <i>Mareca penelope</i>	Anatidae	
N/A	800fr	Red-necked Falcon, <i>Falco chicquera</i>	Falconidae	
N/A	SS 3300fr	Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	
	Margin	RS: Secretary-bird, <i>Sagittarius serpentarius</i>	Sagittariidae	
		LL: Senegal Parrot, <i>Poicephalus senegalus</i>	Psittacidae	

<b>POLAND 2019 October 30 (Birds of Singapore and Poland) (SS/2)</b>				<b>A</b>
4461a	3.30z	Oriental Pied-Hornbill, <i>Anthraceroceros albirostris</i>	Bucerotidae	
4461b	3.30z	Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae	

<b>ST. THOMAS &amp; PRINCE 2019 December 20 (Owls) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	31db	Ural Owl, <i>Strix uralensis</i>	Strigidae	
N/A	31db	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
N/A	31db	Northern Saw-Whet Owl, <i>Aegolius acadicus</i>	Strigidae	
N/A	31db	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
N/A	SS 124db	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
	Margin	Barn Owl, <i>Tyto alba</i>	Tytonidae	
		Short-eared Owl, <i>Asio flammeus</i>	Strigidae	

<b>2019 December 20 (Rare Birds) (Set/4, SS/1)</b>				<b>AZ</b>
N/A	31db	Gray Crowned-Crane, <i>Balearica regulorum</i>	Gruidae	
N/A	31db	New Zealand Kaka, <i>Nestor meridionalis</i>	Strigopidae	
N/A	31db	South Island Takahe, <i>Porphyrio hochstetteri</i>	Rallidae	
N/A	31db	Cape Gannet, <i>Morus capensis</i>	Sulidae	
N/A	SS 124db	Indigo Macaw, <i>Anodrhynchus leari</i>	Psittaculidae	
	Margin	Red-crowned Crane, <i>Grus japonensis</i>	Gruidae	

<b>SENEGAL 2017 June 5 (Environmental Protection) (Single)</b>				<b>B</b>
1742	300f	Marabou Stork, <i>Leptoptilos crumenifer</i>	Ciconiidae	

<b>SIERRA LEONE 2019 August 30 (Owls)(Set/4, SS/1)</b>				<b>AZ</b>
A sheet of four se-tenant stamps and a SS, entitled "Owls".				
N/A	12,500le	Long-eared Owl, <i>Asio otus</i>	Strigidae	
N/A	12,500le	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
N/A	12,500le	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	

**SIERRA LEONE** (continued)

N/A	12,500le	Short-eared Owl, <i>Asio flammeus</i>	Strigidae
N/A	SS 50,000le	Barn Owl, <i>Tyto alba</i>	Tytonidae
	Margin	LL & RS: Great Horned Owl, <i>bubo virginianus</i>	Strigidae

**2019 August 30** (Sunbirds) (Set/4, SS/1)**AZ**

N/A	12,500le	Ruby-cheeked Sunbird, <i>Chalcoparia singalensis</i>	Nectariniidae
N/A	12,500le	Southern Double-collared Sunbird, <i>Cinnyris chalybeus</i>	Nectariniidae
N/A	12,500le	Copper-throated Sunbird, <i>Leptocoma calcostetha</i>	Nectariniidae
N/A	12,500le	Van Hasselt's Sunbird, <i>Leptocoma brasiliana</i>	Nectariniidae
N/A	SS 50,000le	Scarlet-chested Sunbird, <i>Chalcomitra senegalensis</i>	Nectariniidae
	Margin	Collared Sunbird, <i>Hedydipna collaris</i>	Nectariniidae

**2019 October 1** (Flamingos) (Set/4, SS/1)**AZ**

A sheet of four se-tenant stamps and a SS, entitled "Flamingos".

N/A	12,500le	Greater Flamingo, <i>Phoenicopaterus roseus</i>	Phoenicopteridae
N/A	12,500le	James's Flamingo, <i>Phoenicoparrus jamesi</i>	Phoenicopteridae
N/A	12,500le	Chilean Flamingo, <i>Phoenicopaterus chilensis</i>	Phoenicopteridae
N/A	12,500le	American Flamingo, <i>Phoenicopaterus ruber</i>	Phoenicopteridae
N/A	5SS 0,000le	Andean Flamingo, <i>Phoenicoparrus andinus</i>	Phoenicopteridae
	Margin	American Flamingo, <i>Phoenicopaterus ruber</i>	Phoenicopteridae

**2019 October 1****AZ**

A sheet of four se-tenant stamps and a SS, entitled "Bee-eaters".

N/A	12,500le	Red-bearded Bee-eater, <i>Nyctyornis amictus</i>	Meropidae
N/A	12,500le	Blue-throated Bee-eater, <i>Merops viridis</i>	Meropidae
N/A	12,500le	Red-throated Bee-eater, <i>Merops bullocki</i>	Meropidae
N/A	12,500le	Blue-headed Bee-eater, <i>Nyctyornis athertoni</i>	Meropidae
N/A	SS 50,000le	Chestnut-headed Bee-eater, <i>Merops leschenaultia</i>	Meropidae
	Margin	Northern Carmine Bee-eater, <i>Merops nubicus</i>	Meropidae

**2019 October 1****AZ**

A sheet of four se-tenant stamps and a SS, entitled "Water Birds".

N/A	12,500le	Great White Pelican, <i>Pelecanus onocrotalus</i>	Pelecanidae
N/A	12,500le	Reddish Egret, <i>Egretta rufescens</i>	Ardeidae
N/A	12,500le	Great Egret, <i>Ardea alba</i>	Ardeidae
N/A	12,500le	Great Crested Grebe, <i>Podiceps cristatus</i>	Podicipedidae
N/A	SS 50,000le	Great Blue Heron, <i>Ardea herodias</i>	Ardeidae
	Margin	Common Loon, <i>Gavia immer</i>	Gaviidae
		Wood Duck, <i>Aix sponsa</i>	Anatidae

**2019 October 30** (Antarctica) (Set/4, SS/1)**AZ**

N/A	12,500le	Snow Petrel, <i>Pagodroma nivea</i> (UR)	Procellariidae
		and Wandering Albatross, <i>Diomedea exulans</i> (LL)	Diomedidae
N/A	12,500le	Gentoo Penguin, <i>Pygoscelis papua</i>	Spheniscidae
N/A	SS 50,000le	Adelie Penguin, <i>Pygoscelis adeliae</i>	Spheniscidae
	Margin	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae

**2019 October 30** (Birds of Prey) (Set/4, SS/1)**AZ**

A sheet of four se-tenant stamps and a SS, entitled "".

N/A	12,500le	Eurasian Kestrel, <i>Falco tinnunculus</i>	Falconidae
N/A	12,500le	Eurasian Sparrowhawk, <i>Accipiter nisus</i>	Accipitridae
N/A	12,500le	Red Kite, <i>Milvus milvus</i>	Accipitridae



**SIERRA LEONE** (continued)

N/A	12,500le	Osprey, <i>Pandion haliaetus</i>	Pandionidae	
N/A	SS 50,000le	Long-legged Buzzard, <i>Buteo rufinus</i>	Accipitridae	
	Margin	Northern Goshawk, <i>Accipiter gentilis</i>	Accipitridae	
<b>2019 October 30</b> (Hummingbirds) (Set/4, SS/1)				<b>AZ</b>
N/A	12,500le	Mexican Violetear, <i>Colibri thalassinus</i>	Trochilidae	
N/A	12,500le	Many-spotted Hummingbird, <i>Taphrospinus hypostictus</i> (Stamp has genus of <i>Leucippus</i> )	Trochilidae	<b>New</b>
N/A	12,500le	Purple-throated Carib, <i>Eulampis jugularis</i>	Trochilidae	
N/A	12,500le	Cinnamon Hummingbird, <i>Amazilia rutila</i>	Trochilidae	
N/A	SS 50,000le	Long-tailed Sylph, <i>Agelaiocercus kingi</i> (Stamp has species of <i>kingii</i> )	Trochilidae	
	Margin	Ruby-throated Hummingbird, <i>Archilochus colubris</i>	Trochilidae	
<b>2019 November 28</b> (Extinct Species) (Set/4, SS/1)				<b>AZ</b>
N/A	12,500le	South Island Giant Moa, <i>Dinornis robustus</i> (Ext)	Dinornithidae	
N/A	SS 50,000le	Great Auk, <i>Pinguinus impennis</i>	Alcidae	
<b>2019 November 28</b> (Kingfishers) (Set/4, SS/1)				<b>AZ</b>
N/A	12,500le	Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae	
N/A	12,500le	Blue-banded Kingfisher, <i>Alcedo euryzona</i>	Alcedinidae	
N/A	12,500le	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
N/A	12,500le	Laughing Kookaburra, <i>Dacelo novaeguineas</i>	Alcedinidae	
N/A	SS 50,000le	Blue-winged Kookaburra, <i>Dacelo leachii</i>	Alcedinidae	
	Margin	Blue-eared Kingfisher, <i>Alcedo meninting</i>	Alcedinidae	
<b>2019 December 30</b> (Protected Birds) (Set/4, SS/1)				<b>AZ</b>
N/A	12,500le	White-winged Flufftail, <i>Sarothrura ayresi</i>	Sarothruridae	
N/A	12,500le	Southern Bald Ibis, <i>Geronticus calvus</i>	Threskiornithidae	
N/A	12,500le	Wattled Crane, <i>Bucconas carunculatus</i> (Stamp has scientific name of <i>Grus carunculata</i> )	Gruidae	
N/A	12,500le	Sharpe's Longclaw, <i>Hemimacronyx sharpei</i> <b>New</b> (Has genus of <i>Macronyx</i> )	Motacillidae	
N/A	SS 50,000le	White-necked Rockfowl, <i>Picathartes gymnocephalus</i>	Picathartidae	
	Margin	Wattled Crane, <i>Bucconas carunculatus</i>	Gruidae	
<b>2019 December 30</b> (Owls) (Set/4, SS/1)				<b>AZ</b>
N/A	12,500le	Eastern Screech-Owl, <i>Megascops asio</i>	Strigidae	
N/A	12,500le	Southern White-faced Owl, <i>Ptilopsis granti</i>	Strigidae	
N/A	12,500le	Northern White-faced Owl, <i>Ptilopsis leucotis</i>	Strigidae	
N/A	12,500le	Brown Wood-Owl, <i>Strix leptogrammica</i>	Strigidae	
N/A	SS 50,000le	Long-eared Owl, <i>Asio otus</i>	Strigidae	
	Margin	RS: Long-eared Owl, <i>Asio otus</i>	Strigidae	
		UL: Barred Owl, <i>Strix varia</i>	Strigidae	
<b>2019 December 3</b> (Ducks) (Set/4, SS/1)				<b>AZ</b>
N/A	12,500le	Black-bellied Whistling-Duck, <i>Dendrocygna autumnalis</i>	Anatidae	
N/A	12,500le	Mallard, <i>Anas platyrhynchos</i>	Anatidae	
N/A	12,500le	Canvas, <i>Aythya valisineria</i>	Anatidae	
N/A	12,500le	Marbled Teal, <i>Marmaronetta augustirostris</i>	Anatidae	
N/A	Ss 50,000le	Spotted Whistling-Duck, <i>Dendrocygna guttata</i>	Anatidae	
	Margin	UL: Black-bellied Whistling-Duck, <i>Dendrocygn autumnalis</i>	Anatidae	
		LL & LR: Fulvous Whistling-Duck, <i>Dendrocygna bicolor</i>	Anatidae	

**SIERRA LEONE** (continued)

<b>2020 January 30</b> (Discovery of Antarctic, 200y)			(Set/5 + label, SS/1)	<b>BZ</b>
N/A	10,000le	Gentoo Penguin, <i>Pygoscelis papua</i>	Spheniscidae	
N/A	20,000le	Wandering Albatross, <i>Diomedea exulans</i>	Diomedidae	
N/A	SS 20,000le	Same species as above		
<b>TOGO</b>			<b>2019 August 30</b> (Extinct Species) (Set/4, SS/1)	<b>AZ</b>
N/A	800f	Hawaiian Rail, <i>Zapornia sandwicensis</i> (Stamp has a genus of <i>Pennula</i> )	Rallidae	
N/A	SS 3300f	Bishop Oo, <i>Moho bishopi</i>	Meliphagidae	
	Margin	UR: Kaua'i Akialoa, <i>Hemignathus stejnegeri</i> LL: Oahu Akialoa, <i>Hemignathus ellisianus</i>	Fringillidae Fringillidae	
<b>2019 August 30</b> (Kingfishers) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	Azure Kingfisher, <i>Ceyx azureus</i>	Alcedinidae	
N/A	800fr	Laughing Kookaburra, <i>Dacelo novaeguineae</i>	Alcedinidae	
N/A	800fr	Black-backed Dwarf-Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
N/A	800fr	Giant Kingfisher, <i>Megaceryle maxima</i>	Alcedinidae	
N/A	SS 3300f	Forest Kingfisher, <i>Todiramphus macleayii</i>	Alcedinidae	
	Margin	Giant Kingfisher, <i>Megaceryle maxima</i>	Alcedinidae	
<b>2019 August 30</b> (Weaver bird species) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	Holub's Golden-Weaver, <i>Ploceus xanthops</i>	Ploceidae	
N/A	800fr	Lesser Masked-Weaver, <i>Ploceus intermedius</i>	Ploceidae	
N/A	800fr	Black-breasted Weaver, <i>Ploceus benghalensis</i>	Ploceidae	V69(1)
N/A	800fr	African Golden-Weaver, <i>Ploceus subaureus</i>	Ploceidae <b>New</b>	
N/A	SS 300f	Taveta Golden-Weaver, <i>Ploceus castaneiceps</i>	Ploceidae	V69(1)
	Margin	Village Weaver, <i>Ploceus cucullatus</i>	Ploceidae	
<b>2019 August 30</b> (Genus <i>Estrilda</i> species) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	Black-headed Waxbill, <i>Estrilda atricapilla</i> V69(1) (Previously shown on a 1982 Staffa local issue)	Estrildidae	
N/A	800fr	Black-faced Waxbill, <i>Estrilda erythronotos</i>	Estrildidae	
N/A	800fr	Black-rumped Waxbill, <i>Estrilda troglodytes</i>	Estrildidae	
N/A	800fr	Orange-cheeked Waxbill, <i>Estrilda melpoda</i>	Estrildidae	
N/A	SS 3300f	Lavender Waxbill, <i>Estrilda caerulescens</i>	Estrildidae	
	Margin	Common Waxbill, <i>Estrilda astrild</i>	Estrildidae	
<b>2019 August 30</b> (Starling family species) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	Chestnut-tailed Starling, <i>Sturnia malabarica</i>	Sturnidae	V69(1)
N/A	800fr	Metallic Starling, <i>Aplonis metallica</i> <b>New</b> (Previously shown on an Australia 2005 envelope)	Sturnidae	
N/A	800fr	Hildebrandt's Starling, <i>Lamprotornis hildebrandti</i>	Sturnidae	
N/A	800fr	Emerald Starling, <i>Lamprotornis iris</i>	Sturnidae	
N/A	SS 3300f	European Starling, <i>Sturnus vulgaris</i>	Sturnidae	
	Margin	Superb Starling, <i>Lamprotornis superbus</i>	Sturnidae	
<b>2019 August 30</b> (Paradise-flycatcher species) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	African Paradise-Flycatcher, <i>Terpsiphone viridis</i>	Monarchidae	
N/A	800fr	Japanese Paradise-Flycatcher, <i>Terpsiphone atrocaudata</i>	Monarchidae	
N/A	800fr	Mascarene Paradise-Flycatcher, <i>Terpsiphone bourbonensis</i>	Monarchidae	
N/A	800fr	Madagascar Paradise-Flycatcher, <i>Terpsiphone mutata</i>	Monarchidae	

**TOGO** (continued)

N/A	SS 3300fr	Indian Paradise-Flycatcher, <i>Terpsiphone paradisi</i>	Monarchidae	
	Margin	Blyth's Paradise-Flycatcher, <i>Terpsiphone affinis</i>	Monarchidae	
<b>2019 November 5</b> (The Antarctic) (Set/4, SS/1)				<b>AZ</b>
NA	800fr	Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae	
N/A	800fr	Wandering Albatross, <i>Diomedea exulans</i>	Diomedidae	
N/A	SS 3300fr	No stamp of bird on the sheet but in the surrounds		
		King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae	
<b>2019 November 5</b> (Sparrow species) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	White-crowned Sparrow, <i>Zonotrichia leucophrys</i>	Passerellidae	
		Eurasian Tree Sparrow, <i>Passer montanus</i> (LS)	Passerellidae	
N/A	800fr	Gouldian Finch, <i>Erythrura gouldiae</i> (♂ & ♀)	Estrildidae	
N/A	800fr	Sudan Golden Sparrow, <i>Passer luteus</i>	Passeridae	
N/A	800fr	Spanish Sparrow, <i>Passer hispaniolensis</i>	Passeridae	
N/A	SS 3300fr	Blanford's Snowfinch, <i>Montifringilla blanfordi</i>	Passeridae	V69(1)
		(Stamp has genus of <i>Pyrgilruda</i> (UR)		
		Purple Finch, <i>Haemorhous purpureus</i> (UL)	Fringillidae	
	Margin	RS: Double-barred Finch, <i>Taeniopygia bichenovii</i>	Estrildidae	
		LL: Cape Sparrow, <i>Passer melanurus</i>	Passeridae	
<b>2019 November 5</b> (Owls) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	Eastern Screech-Owl, <i>Megascops asio</i>	Strigidae	
N/A	800fr	Tawny Owl, <i>Strix aluco</i>	Strigidae	
N/A	800fr	Barn Owl, <i>Tyto alba</i>	Tytonidae	
N/A	800fr	Spotted Owlet, <i>Athene brama</i>	Strigidae	
N/A	3300fr	Australian Masked-Owl, <i>Tyto novaehollandiae</i>	Tytonidae	
	Margin	Barn Owl, <i>Tyto alba</i>	Tytonidae	
<b>2019 November 5</b> (Indigo Bunting) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	Indigo Bunting, <i>Passerina cyanea</i>	Cardinalidae	
N/A	SS 3300fr	Same species		
All four stamps and the SS show this same species and also in the surrounds on the SS.				
<b>2019 November 5</b> (Secretary-bird) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	Secretary-bird, <i>Sagittarius serpentarius</i>	Sagittariidae	
Four different renditions of the bird on four 800fr stamps as well as on the 3300fr SS and in the margin.				
<b>2019 November 5</b> (Drongo bird species) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	Greater Racket-tailed Drongo, <i>Dicrurus paradiseus</i>	Dicruridae	
N/A	800fr	Black Drongo, <i>Dicrurus macrocercus</i>	Dicruridae	
N/A	800fr	Ashy Drongo, <i>Dicrurus leucophaeus</i> V69(1)	Dicruridae	
N/A	800fr	Crested Drongo, <i>Dicrurus forficatus</i>	Dicruridae	
N/A	SS 3300fr	Ashy Drongo, <i>Dicrurus leucophaeus</i>	Dicruridae	
	Margin	Lesser Racket-tailed Drongo, <i>Dicrurus remifer</i>	Dicruridae	V69(1)
<b>2019 November 5</b> (Eagles) (Set/4, SS/1)				<b>AZ</b>
N/A	800fr	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
N/A	800fr	Steller's Sea-Eagle, <i>Haliaeetus pelagicus</i>	Accipitridae	
N/A	800fr	Harpy Eagle, <i>Harpia harpyja</i>	Accipitridae	
N/A	800fr	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae	
N/A	SS 3300fr	Crowned Eagle, <i>Stephanoaetus coronatus</i>	Accipitridae	
	Margin	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae	

**TOGO (continued)****2019 November 5 (Vultures) (Set/4. SS/1)****AZ**

N/A	800fr	Egyptian Vulture, <i>Neophron percnopterus</i>	Accipitridae
N/A	800fr	Eurasian Griffon, <i>Gyps fulvus</i>	Accipitridae
N/A	800fr	Turkey Vulture, <i>Cathartes aura</i>	Cathartidae
N/A	800fr	Bearded Vulture, <i>Gypaetus barbatus</i>	Accipitridae **
N/A	SS 3300fr	Black Vulture, <i>Coragyps atratus</i>	Cathartidae
	Margin	King Vulture, <i>Sarcoramphus papa</i>	Cathartidae

\*\* English name changed from Lammergeier

**2019 November 5 (Kite bird species) (Set/4. SS/1)****AZ**

N/A	800fr	Black Kite, <i>Milvus migrans</i>	Accipitridae
N/A	800fr	Red Kite, <i>Milvus milvus</i>	Accipitridae
N/A	800fr	Swallow-tailed Kite, <i>Elanoides forficatus</i>	Accipitridae
N/A	800fr	Black-winged Kite, <i>Elanus caeruleus</i>	Accipitridae
N/A	SS 3300fr	Brahminy Kite, <i>Haliastur indus</i>	Accipitridae
	Margin	RS: Red Kite, <i>Milvus milvus</i>	Accipitridae
		LL: Black-winged Kite, <i>Elanus caeruleus</i>	Accipitridae

**TUVALU****2019 September 18 (Sea birds) (Set/4. SS/1)****AZ**

1456a	\$1.00	Bristle-thighed Curlew, <i>Numenius tahitiensis</i>	Scolopacidae
1456b	\$2.00	Red-footed Booby, <i>Sula sula</i>	Sulidae
1456c	\$3.00	Great Crested Tern, <i>Thalasseus bergii</i>	Laridae
1456d	\$4.00	Pacific Reef-Heron, <i>Egretta sacra</i>	Ardeidae
1457	SS \$7.00	Black-naped Tern, <i>Sterna sumatrana</i>	Laridae

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## NEW BIRDS IN THE PHILATELIC AVIARY

Charles E. Braun, BU1364

### Corrections

Lavender Waxbill was on a 2011 issue from Liberia. Cape Sparrow was on a 1988 issue from Lesotho.

### New Birds



**EASTERN MARSH-HARRIER, *Circus spilonotus*** Accipitridae  
Raratonga-Cook Island, 2019, 1621, \$2.50

Length: 19 to 22 inches, migratory. The male (shown on the stamp) is blackish above and black-streaked white below with a streaked white collar; the female is brown with dark streaking on the crown and nape.

Habitat: Marshes, swamps, reedbeds and paddyfields.

Range: Breeds from southeastern Siberia to northern Japan and New Guinea; winters from southern Japan to the Philippines and New Guinea

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of

the World, Volume 2.



**LEVANT SPARROWHAWK, *Accipiter brevipes*** Accipitridae  
Raratonga-Cook Island, 2018, 1645, \$2.50

Length: 13 to 15 inches, migratory. The male (shown on the stamp) is dull blue-gray above and reddish-barred pale below; the female is brownish-gray above and heavily barred pale below.

Habitat: Wooded plains and foothills.

Range: Breeds from southeastern Europe to Kazakhstan and Iran; winters in sub-Saharan Africa.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of

the World, Volume 2.

### **SERENDIB SCOPS-OWL, *Otus thilohoffmanni*** Strigidae

Sri Lanka, 2020, not yet cataloged, 15r

Length: 6 inches, sexes similar, resident. Black-spotted rufescent, paler below, with an ill-defined facial disc.

Habitat: Wet rainforest.

Range: Southwestern Sri Lanka.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Special Volume.



### **WHISKERED SCREECH-OWL, *Megascops trichopsis*** Strigidae

Aitutaki, 2019, 697, \$22.40

Length: 7 inches, sexes alike, resident. Black-streaked gray-brown or rufous above and barred pale below, with a pale gray or rufous facial disc.

Habitat: Dense oak groves.

Range: Southeastern Arizona to north-central Nicaragua.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 5.



**SOLOMON ISLAND FROGMOUTH, *Podargus inexpectatus*** Podargidae Split from Marbled Frogmouth which is no longer in the aviary.  
Solomon Islands, 2004, 984e, \$5

Length: 15 inches, sexes alike, resident. Deep rufous with bold white spots.

Habitat: Forest and forest edges.

Range: Northern Solomons.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 5.



**RUFIOUS-CHEEKED NIGHTJAR, *Caprimulgus rufigena*** Caprimulgidae  
Angola, 2019, not yet cataloged, 300kz

Length: 10 inches, migratory. The male (shown on the stamp) is black-streaked grayish-brown above and grayish-spotted buff below, with a white throat patch, a white-tipped tail and a white spot near the wing tip; the female lacks the wing spots and the white-tipped tail.

Habitat: Open wooded savanna, clearings and scrubland.

Range: Breeds from Botswana and Angola to South Africa; winters in Nigeria and

Cameroon.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 5.



**FIERY-CHEEKED NIGHTJAR, *Caprimulgus pectoralis*** Caprimulgidae  
Angola, 2019, not yet cataloged, 300kz

Length: 10 inches, resident. The male (shown on the stamp) is dark brown above, variegated grayish-brown and brownish-white and speckled brown below with white spotted wings and a buff collar; the female has smaller buff wing spots.

Habitat: Woodlands and savanna.

Range: Angola and southeastern Kenya to South Africa.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the

World, Volume 5.



**SWAMP NIGHTJAR, *Caprimulgus natalensis*** Caprimulgidae  
Angola, 2019, not yet cataloged, 300kz

Length: 8 to 10 inches, resident. The male (shown on the stamp) is spotted brown above and buff-spotted brown below, with a white spot near the wingtip; the female lacks the wing spot and has a white outer tail.

Habitat: Wetlands and forest edges.

Range: Eastern Gambia and southwestern Ethiopia to southeastern South Africa.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the

World, Volume 5.

**MANY-SPOTTED HUMMINGBIRD, *Taphrospilus hypostictus*** Trochilidae  
Sierra Leone, 2019, not yet cataloged, 12500Le

Length: 4.5 inches, sexes similar, resident. Green above and heavily green-spotted white below.

Habitat: Forest and forest edges.

Range: Eastern Ecuador to southwestern Brazil.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 5.





**SULAWESI HORNBILL**, *Penelopides exarhatus* Bucerotidae  
Central African Republic, 2019, not yet cataloged, 900fr

Length: 18 inches, resident. The male (shown on the stamp) is black with a white or yellow face and throat; the female is all black.

Habitat: Lowland forest.

Range: Sulawesi, Indonesia.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 5.

**WRITHED HORNBILL**, *Aceros leucocephalus* Bucerotidae  
Central African Republic, 2019, not yet cataloged, 900fr

Length: 22 to 24 inches, resident. The male (shown on the stamp) is black, with a black-tipped white tail and a white face, neck and upper breast; the female has a black face to breast.

Habitat: Lowland primary evergreen forest.

Range: Mindanao, Philippines.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 5.



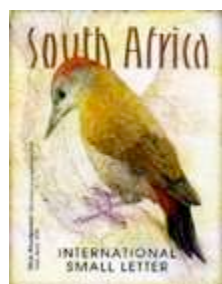
**KNYSA WOODPECKER**, *Campethera notata* Picidae  
South Africa, 2020, not yet cataloged, \*

Length: 8 to 9 inches, resident. The male (shown on the stamp) is yellow-spotted yellow-green above and black-spotted whitish below, with a white supercilium and red crown and malar stripe; the female has a red nape and lacks the malar stripe.

Habitat: Forest, woodlands and dense bush.

Range: Southern South Africa.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 7.



**OLIVE WOODPECKER**, *Chloropicus griseocephalus* Picidae  
South Africa, 2020, not yet cataloged, \*

Length: 8 inches, resident. The male (shown on the stamp) is olive-green above and darkish gray below, with a red hindcrown, nape and rump and a golden tinge on the breast; the female lacks the red on the head.

Habitat: Forest, woodlands and thickets.

Range: Southwestern Uganda to Namibia and southern and eastern South Africa.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 7.

**BLYTH'S PARADISE FLYCATCHER**, *Terpsiphone affinis*  
Monarchidae  
Togo, 2019, not yet cataloged, 3300fr Margin

Length: 8 inches (female) and 12 inches (male), resident. The male (on the left) is chestnut above and dark gray below, with a dark gray head, whitish belly and long tail; the female (on the right) is duller with a short square-tipped tail.

Habitat: Forest and mangroves.

Range: Peninsular Malaysia and Sumatra.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 11.







**SHARPE'S LONGCLAW, *Hemimacronyx sharpei*** Motacillidae  
Sierra Leone, 2019, not yet cataloged, 12500Le

Length: 7 inches, resident. The male (shown on the stamp) is scaly olive-brown above and deep lemon-yellow below with brownish-black streaks on the breast and a lemon-yellow supercilium; the female is pale yellow below and has a white supercilium.

Habitat: Grassy highlands.

Range: Western and central Kenya.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 9.

**METALLIC STARLING, *Aplonis metallica*** Sturnidae

Togo, 2019, not yet cataloged, 800fr Previously on a 2005 Australian envelope.

Length: 10 inches, sexes alike, resident. Glossy purple above and glossy green below, with an emerald-green rump and red iris

Habitat: Forest, clearings and mangroves.

Range: Moluccas to the Solomons and northeastern Australia.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 14.



**AFRICAN GOLDEN WEAVER, *Ploceus subaureus*** Ploceidae  
Togo, 2019, not yet cataloged, 800fr

Length: 6 inches, resident. The male (shown on the stamp) is greenish yellow above and yellow below with a red iris; the female has a greenish crown and a dark brown iris.

Habitat: Coastal plains and along rivers.

Range: Southeastern Kenya to southeastern South Africa.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World,

Volume 15.



**TAVETA GOLDEN WEAVER, *Ploceus castaneiceps*** Ploceidae  
Togo, 2019, not yet cataloged, 3300fr

Length: 6 inches, resident. The male (shown on the stamp) is olive-yellow above and golden-yellow below with a yellow-orange crown and a chestnut-orange collar; the female is greenish above and off-white below, with a pale yellow breast.

Habitat: Breeds in swampy lowlands, otherwise in drier bush country,

Range: South-central Kenya and northeastern Tanzania.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume

15.

**AUDUBON'S WARBLER, *Setophaga coronata auduboni*** Parulidae

Mozambique, 2016, not yet cataloged, 66mt

Length: 6 inches, sexes similar, migratory. Gray above and black-streaked white below, with a yellow throat, shoulders and rump.

Habitat: Highland coniferous and pine-oak forest.

Range: Breeds from western Canada to northwestern Mexico; winters from southeastern USA to Honduras.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 15.



The other two issues of Yellow-rumped Warbler (British Virgin Islands 2003 and St. Pierre & Miquelon 2007) show Myrtle Warbler, *Setophaga coronata, coronata*, which has a white throat. It occurs in forests and woodlands. It breeds in southern Canada and from Minnesota to New England and winters in the southeastern USA, eastern Middle America, the Caribbean and Bermuda.





# ENTOMOLOGY

Editor

Donald P. Wright, Jr., BU243  
and José Reis, BU1889



## New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
<b>COOK IS. 2020</b>				
a	50c	Richmond Birdwing, <i>Troides priamus richmondia</i> Gray	PAP, Papilioninae	A
b	\$1	Freyer's Purple Emperor, <i>Apatura metis</i> Freyer	NYM, Apaturinae	A
c	\$5	Sapho Longwing, <i>Heliconius sapho</i> Drury	NYM, Heliconiinae	A
d	\$7	Spicebush Swallowtail, <i>Papilio troilus</i> L.	PAP, Papilioninae	A
a	\$10	Silvery Blue, <i>Glaucopsyche lygdamus</i> Doubleday	LYC, Polyommatainae	A
b	\$20	Saturn, <i>Zeuxidia amethystus</i> Butler	NYM, Morphinae	A
c	\$30	Common Banded Peacock, <i>Papilio crino</i> Fabr.	PAP, Papilioninae	A
d	\$34.70	Monarch, <i>Danaus plexippus</i> L. Also in margin	NYM, Danainae	AZ
a	\$10	Question Mark, <i>Nymphalis interrogationis</i> Fabr.	NYM, Nymphalinae	A
b	\$20	Thick-tipped Greta Glasswing, <i>Greta morgane oto</i> Hewitson. & in margin	NYM, Danainae	AZ
c	\$30	Common Buckeye, <i>Junonia coenia</i> Hubner	NYM, Nymphalinae	A
d	\$34.70	Ceylon Rose, <i>Atrophaneura jophon</i> Gray	PAP, Papilioninae	A
<b>CYPRUS 2020 February 12</b>				
	34c	Black-veined White, <i>Aporia crataegi</i> L.	PIE, Pierinae	A
	41c	Old World Swallowtail, <i>Papilio machaon</i> L., ♀	PAP, Papilioninae	A
	64c	Levantine Leopard, <i>Cigaritis acamas cypriaca</i> Riley	LYC, Theclinae	A
<b>ISRAEL 2020 April 21</b>				
a	4.10s	Hairy-footed Digger Bee, <i>Anthophora plumipes</i> Pallas	API, Apinae	A
b	4.10s	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
c	4.10s	Large Earth Bumblebee, <i>Bombus terrestris</i> L.	API, Apinae	A
<b>JAPAN 2019 February 20</b>				
4275c	62¥	Flowers & Butterflies	Lepidoptera	C
4276b	82¥	Rape blossoms & Butterfly	Lepidoptera	C
<b>2019 October 23</b>				
4351c	62¥	Ladybird Beetles	Coccinellidae	A
<b>KAZAKHSTAN 2019 December 11</b>				
901a	280te	Southern Swallowtail, <i>Papilio alexanor</i> Esper	PAP, Papilioninae	A
901b	280te	Southern Festoon, <i>Zerynthia polyxena</i> Denis & Schiffermuller	PAP, Parnassiinae	A
901c	280te	Scarce Swallowtail, <i>Iphiclidus podalirius</i> L.	PAP, Papilioninae	A
901d	280te	Esper's Marbled White, <i>Melanargia russiae</i> Esper	NYM, Satyrinae	A
901e	280te	Red Admiral, <i>Vanessa atalanta</i> L.	NYM, Nymphalinae	A
901f	280te	Large White, <i>Pieris brassicae</i> L.	PIE, Pierinae	A
<b>LIECHTENSTEIN 2020 March 2</b>				
	85rp	White Featherleg, <i>Platycnemis latipes</i> Rambur	PLA, Platycnemidinae	A
	130rp	Red-veined Darter, <i>Sympetrum fonscolombii</i> Selys	LIB, Sympetrinae	A
	180rp	Scarlet Darter, <i>Crocothemis erythraea</i> Brulle	LIB, Sympetrinae	A

**LIECHTENSTEIN (continued)**

200rp	Spotted Darter, <i>Sympetrum depressiusculum</i> Selys	LIB, Sympetrinae	A
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**PENRHYN IS.****2020**

50c	Large Marble, <i>Euchloe ausonoides</i> Lucas	PIE, Pierinae	A
\$1	Luzon Peacock Swallowtail, <i>Papilio chikae</i> Igarashi	PAP, Papilioninae	A
\$5	Common Morpho, <i>Morpho helenor peleides</i> Kollar	NYM, Morphinae	A
\$7	Banded Orange Herliconian, <i>Dryadula phaetusa</i> L.	NYM, Heliconiinae	A

The above also appear as a sheet of 8 with 2 of each of the above and as an sheet of 4.

However, *D. phaetusa* is mis-captioned as *Pachliopta jophon* in both of the sheets.

**SRI LANKA****1920 March 3**

L, 15r	Common Rose, <i>Atrophaneura hector</i> L.	PAP, Papilioninae	A
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**SWITZERLAND****2020 January 24**

85c.	Japanese Beetle, <i>Popillia japonica</i> Newman	SCA, Rutelinae	A
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**Beyond The Catalog**

(Issues of doubtful validity)

**CENTRAL AFRICAN REP.****2020 January 27 (Stamperija CA-200112a&b)**

a,	850fr	Common Blue, <i>Polyommatus icarus</i> Rottemburg	LYC, Polyommatae	A
b,	850fr	Tailed Jay, <i>Graphium agamemnon</i> L.	PAP, Papilioninae	A
c,	850fr	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A
d,	850fr	Menelaus Blue Morpho, <i>Morpho menelaus</i> L.	NYM, Morphinae	A
Each of above also in panes of 10 with one of above in margins				
	3300fr	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	A
Margin	LL:	Silvery Demon Charaxes, <i>Charaxes catachrous</i> van Someren & Jackson	NYM, Charaxinae	Z
		UR: Blue Pansy, <i>Junonia orithya</i> L.	NYM, Nymphalinae	Z
		LR: Common Birdwing, <i>Troides helena</i> L.	PAP, Papilioninae	Z

**2020 January 27 (Bee-Eater Birds) (Stamperija CA-200114a&b)**

c	850fr	Bee in bird's beak. Also in margin of pane of 10	Apidae	SC
	3300fr	No insect		
Margin	LL:	Dragonfly in bird's beak	Odonata	SC
		UR & Bottom: Bee in bird's beak	Apidae	SC

**2020 January 27 (Stamperija CA-200115a&b)**

4x900fr	Western Honeybee, <i>Apis mellifera</i> L., API, Apinae. Also in panes of 10 API, Apinae	A
3600fr	Western Honeybee, <i>Apis mellifera</i> L., API, Apinae. Also in margins API, Apinae	A

**CHAD****2020 February 24 (Stamperija TCH-200105a&b)**

a	800fr	Apollo, <i>Parnassius apollo</i> L.	PAP, Parnassiinae	A
b	800fr	Woodland Grayling, <i>Hipparchia fagi</i> Scopoli	NYM, Satyrinae	A
c	800fr	Red Admiral, <i>Vanessa atalanta</i> L.	NYM, Nymphalinae	A
d	800fr	Clouded Apollo, <i>Parnassius mnemosyne</i> L.	PAP, Parnassiinae	A
	3300fr	Marbled White, <i>Melanargia galathea</i> L.	NYM, Satyrinae	A
Margin:		Checkered Swallowtail, <i>Papilio demoleus</i> L. In margin with chrysalis	PAP, Papilioninae	Z

**2020 February 24 (Stamperija TCH-200119a&b)**

a	800fr	Large Bee-fly, <i>Bombylius major</i> L.,	BOM, Bombyliinae	A
b	800fr	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
c	800fr	Giant Honeybee, <i>Apis dorsata</i> Fabr.	API, Apinae	A

d	800fr	Neon Cuckoo Bee, <i>Thyreus nitidulus</i> Fabr.	API, Xylocopinae	A
	3300fr	Buff-tailed Bumblebee, <i>Bombus terrestris</i> L.	API, Apinae	A
	Margin:	Big Mining Bee, <i>Colletes daviesanus</i> Smith	COL, Colletinae	

**GUINEA** **2008 November 17** (Fields Medal) (Stamperija GU-0876a)

	25,000fr	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	B
	Margin:	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z

**GUINEA-BISSAU** **2020 February 7** (Stamperija GB-200103a-d)

	100fr	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A
	500fr	Orange Oakleaf, <i>Kallima inachus</i> Boisduval	NYM, Nymphalinae	A
	750fr	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	A
	1500fr	Thick-tipped Greta Glasswing, <i>Greta morgane</i> oto Hewitson	NYM, Danainae	A
	Each above also in pane of 8 & label of Large Tree Nymph, <i>Idea leuconoe</i> Erichson		NYM, Danainae	U
	& 3 Butterflies in margins of each pane		Lepidoptera	Z
	3000fr	Large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	A
	Margin:	2 Blue Monarchs, <i>Tirumala limniace</i> Cramer	NYM, Danainae	Z

**LIBERIA** **2020 January 6** (Stamperija LIB-200104a&b)

a	\$200	Brimstone, <i>Gonepteryx rhamni</i> L.	PIE, Coliadinae	A
b	\$200	Mourning Cloak, <i>Nymphalis antiopa</i> L.	NYM, Nymphalinae	A
c	\$200	Adonis Blue, <i>Polyommatus bellargus</i> Rottemburg	LYC, Polyommatae	A
d	\$200	Marbled White, <i>Melanargia galathea</i> L.	NYM, Satyrinae	A
e	\$200	Mustard White, <i>Pieris napi</i> L.	PIE, Pierinae	A
f	\$200	Orange Tip, <i>Anthocharis cardamines</i> L.	PIE, Pierinae	A
	\$1200	Purple Emperor, <i>Apatura iris</i> L.	NYM, Apaturinae	A
	Margin	UL: Painted Lady, <i>Vanessa cardui</i> L.	NYM, Nymphalinae	Z
		LL & MR: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z

**MALDIVE ISLANDS** **2020 February 12** (All dated 2019) (Stamperija MLD-191004a&b)

a	22r	Common Eggfly, <i>Hypolimnas bolina</i> L.	NYM, Nymphalinae	A
b	22r	Cairns Birdwing, <i>Troides priamus euphorion</i> Gray	PAP, Papilioninae	A
c	22r	Menelaus Blue Morpho, <i>Morpho menelaus</i> L.	NYM, Morphinae	A
d	22r	Tailed Jay, <i>Graphium agamemnon</i> L.	PAP, Papilioninae	A
	Margin	L: Part of Butterfly	Lepidoptera	Z
		M-Top: Wing tip of Butterfly	Lepidoptera	Z
		UR: Wing tip of Butterfly	Lepidoptera	Z
		R: Tailed Jay, <i>Graphium agamemnon</i> L.	PAP, Papilioninae	Z
	70r	Orange Lacewing, <i>Cethosia penthesilea</i> Cramer	NYM, Heliconiinae	A
	Margin:	Asian Swallowtail, <i>Papilio xuthus</i> L.	PAP, Papilioninae	Z

**2020 April 12** (Stamperija MLD-191113a&b)

a	20r	Asian Giant Hornet, <i>Vespa mandarinia</i> Smith	VES, Vespinae	A
b	20r	Western Honeybee, <i>Apis mellifera</i> L. Also many in selvage	API, Apinae	A
c	20r	Little Honeybee, <i>Apis florea</i> Fabr.	API, Apinae	A
d	20r	Yellow-legged Hornet, <i>Vespa velutina</i> Lepeletier	VES, Vespinae	A
	60r	Large Earth Bumblebee, <i>Bombus terrestris</i> L.	API, Apinae	A
	Margin:	European Hornet, <i>Vespa crabro</i> L.	VES, Vespinae	Z

**NIGER** **2019 December 20** (Stamperija NIG-190623a&b)

a	800fr	Apollo, <i>Parnassius apollo</i> L.	PAP, Parnassiinae	A
b	800fr	Two-tailed Pasha, <i>Charaxes jasius</i> L.	NYM, Charaxinae	A
c	800fr	Spotted Fritillary, <i>Melitaea didyma</i> Esper	NYM, Nymphalinae	A
d	800fr	Banded Peacock, <i>Papilio palinurus</i> Fabr.	PAP, Papilioninae	A

3300fr	Southern Festoon, <i>Zerynthia polyxena</i> Denis & Schiffermuller	PAP, Papilioninae	A
Margin	LR: Red & Black Swallowtail, <i>Parides photinus</i> Doubleday	PAP, Papilioninae	A
	UR: Butterfly	Lepidoptera	Z
	MR: Swallowtail Butterfly	PAP, Papilioninae	Z

**ST. THOMAS & PRINCE IS.****2019 December 20** (Stamperija ST-190804a&b)

a	31,000d	Blue Lacewing, <i>Cethosia cyane</i> Drury	NYM, Heliconiinae	A
b	31,000d	Tree Nymph, <i>Idea lynceus</i> Drury	NYM, Danainae	A
c	31,000d	Common Rose Butterfly, <i>Atrophaneura aristolochiae</i> Fabr.	PAP, Papilioninae	A
d	31,000d	Thick-tipped Greta Glasswing, <i>Greta morgane oto</i> Hewitson	NYM, Danainae	A
	Margin:	Parts of 14 Butterflies	Lepidoptera	Z
	124,000d	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A
	Margin	LL: Blue Nawab, <i>Polyura schreiber</i> Godart	NYM, Charaxinae	Z
		MR: Zebra Blue, <i>Leptotes plinius</i> Fabr.	LYC, Polyommatainae	Z

**2020 February 4** (Stamperija ST-200113a&b)

a	31,000d	Neon Cuckoo Bere, <i>Thyreus nitidulus</i> Fabr.	API, Xylocopinae	A
b	31,000d	Asiatic Honeybee, <i>Apis cerana</i> Enderlein	API, Apinae	A
c	31,000d	Buff-tailed Bumblebee, <i>Bombus terrestris</i> L.	API, Apinae	A
d	31,000d	Violet Carpenter Bee, <i>Xylocopa violacea</i> L.	API, Xylocopinae	A
	124,000d	Western Honeybee, <i>Apis mellifera</i> L. Also in LL margin	API, Apinae	AZ
	Margin	R: Buff-tailed Bumblebee, <i>Bombus terrestris</i> L.	API, Apinae	Z

**TOGO****2020 February 28** (Stamperija TG-200107a&b)

a	800fr	Pipevine Swallowtail, <i>Battus philenor</i> L., at L	PAP, Papilioninae	B
		Common Rose, <i>Atrophaneura aristolochiae</i> Fabr., at R	PAP, Papilioninae	B
b	800fr	African Monarch, <i>Danaus chrysippus</i> L., at UL	NYM, Danainae	B
		Menelaus Blue Morpho, <i>Morpho menelaus</i> L., at LR	NYM, Morphinae	B
c	800fr	Mustard White, <i>Pieris napi</i> L.	PIE, Pierinae	A
d	800fr	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	A
	3300fr	Thick-tipped Greta Glasswing, <i>Greta morgane oto</i> Hewitson	NYM, Danainae	A
	Margin	Top: Blue Emperor, <i>Papilio ulysses</i> L.	PAP, Papilioninae	Z
		LR: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z

**2020 February 28** (Stamperija TG-200123a)

d	800fr	Moth in bee-eater bird's beak	Lepidoptera	CS
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**Insect New Issues for 2019****Cataloged insect stamps: 347****Non-cataloged (Stamperija): 293****Total insect stamps 2019: 640**

## MICHEL DINOSAUR CATALOGUE REVIEW

Michael Kogan, BU1863, & Dr. Peter J. Voice, BU1891

In April 2019, Germany-based MICHEL stamp catalog (*MICHEL-Briefmarken-Katalog*) announced their first topical catalogue devoted to prehistoric animals, *Dinosaurs – Whole World* (Dinosaurier – Ganze Welt).

Unfortunately, the issue was delayed four times and was finally published at the end of December 2019, instead of the beginning of May, as was announced initially.

The catalogue contains 160 pages in A5 paperback format (8.27×5.83 in) with approximately 2,500 color illustrations and about 20,000 price quotations. New issues up to MICHEL Rundschau 11/2019 have been included in this edition.

The first confusion starts on the cover of the catalogue as it shows not only reconstructions and fossils of dinosaurs, but also some other prehistoric animals (mammals) that are not dinosaurs.

The editors explain this in the introduction section, by saying that the catalogue includes not only dinosaur stamps, but also stamps of some other prehistoric and extinct animals such as mammoths, sabretooth cats, and dodos.

Regrettably, the catalogue does not list all the stamps that have been issued depicting dinosaurs and other prehistoric animals, mostly fossils.

Here are a few examples of missing items:

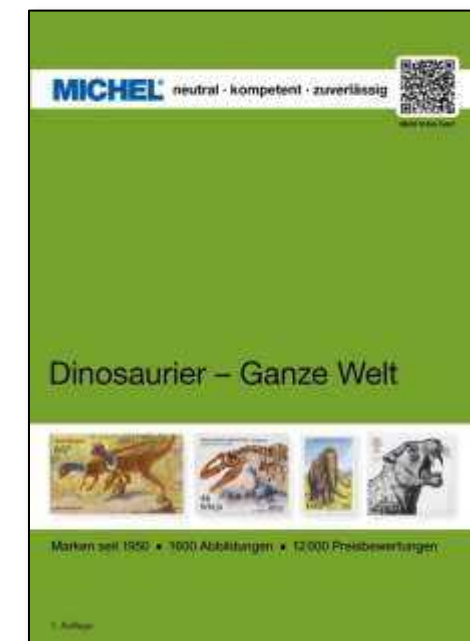


Dinosaur stamp of Argentina (Mi#3601) & (Sc#2758) from a “Argentina in Antarctica” set issued in 2015.

Three Israeli stamps from 2000 (Mi#1576–78) & (Sc#1423a) issued in a strip inside a very nice MS/9.



Souvenir sheets from a Moldova set of extinct animals issued in 2016 (Mi#Bl.75) & (Sc#928), and a 1995 Georgia set of prehistoric animals (Mi#Bl.3) & (Sc#136) are missing. Only the regular stamps are listed in the catalogue.



The 1993 MS/6 from Malawi (Mi#Bl.77) & (Sc#623) is listed separately from the three single stamps that belong to the same set.

This MS/6 is incorrectly listed as issued in 2019, while the stamps are listed in the 1993 year section.



In total, more than 50 stamp sets of dinosaurs and other prehistoric animals are missing from the catalogue. Perhaps some sets of extinct animals are missing too.

The catalog contains listings for some issues that probably are illegal.

**Afghanistan 1998** (Mi#1784–90). According to the Universal Postal Union (UPU) Circular No. 345 dated 21 August 2000, no new stamps were issued in the country between 1989 and 2000, when the country was ruled by the Taliban. A note in the *Scott Catalogue* indicates that this set of six stamp plus a souvenir sheet are “false stamps” according to the President of the Afghanistan Postal Administration.

**Democratic Republic of Congo** dated 2003–2013. According to the UPU WNS stamps website, no stamps were issued in the country during this period.

To my surprise, the catalogue lists two French stamps with prehistoric animals depicted on cave paintings. I am not sure they belong to this topic, but if the editors think they do, then they should include many other such stamps that have been issued.

The same goes for two Canadian stamps (Mi#3289–90) & (Sc#2857a/2758) that show a landscape of Dinosaur Provincial Park in Alberta, Canada. There are many additional landscape stamps showing fossil discovery sites issued worldwide.

**Conclusion:** The catalogue is a nice help for beginners as it provides an overview of existing stamps and gives an idea of market prices. Its size enables you to carry it in small bag to stamp shows or swap events and use it as a reference for exchange. However, as it is incomplete, advanced collectors have to cross check it with other resources such as this website (<http://www.paleophilatelie.eu/>), the most comprehensive online resource about paleontology and paleoanthropology in philately.

For the interested reader, here is a list of reference books on prehistoric life on stamps:

Baldwin, Stuart and Beverly Halstead. *Dinosaur Stamps of the World*. Baldwin's Books, Essex, United Kingdom, 1991. [Comprehensive when it was published, but focused on vertebrates.]

Domingo I Gimeno, Jordi, *Prehistorics and Fossils, Thematic Stamp Catalogue*, 25th edition. Domfil, 2003, 172 p. [Very comprehensive, well-organized, well-illustrated, and multi-lingual treatment of prehistoric life stamps from ~2000 and prior.]

Feldman, V.I. *Philatelic Geology*. Ministry of the Natural Resources of Russia and Russian Geological Society, Moscow, Russia, 2000. [Bilingual book that covers mostly geological themes, but has a nice chapter on prehistoric life with some illustrations of first day covers and other philatelic materials honoring Russian paleontologists as well as a diverse array of prehistoric life stamps. Not comprehensive.]

Shuker, Karl. *Dinosaurs and Other Prehistoric Animals on Stamps – A Worldwide Catalogue*. CFZ Press, United Kingdom, 2008. [Poorly illustrated listing of fossil stamp issues weakened by inclusion of cryptozoological stamp issues.]

And a few reference books that focus on more specialized groups. (Note: These three are all bilingual German-English texts.):

Ernst, Hans Ulrich and Frank Rudolph. *Trilobiten weltweit: Die Welt der Dreilapper und ihr Spiegelbild in der Philatelie*. Verlag Friedrich Pfeil, Munich, Germany, 2002. [Comprehensive treatment of trilobites on stamps.]

Ernst, Hans Ulrich and Christian Klug. *Perlboote und Ammonshörner weltweit: Die Welt der Kopffüßer und ihr Spiegelbild in der Philatelie*. Verlag Friedrich Pfeil, Munich, Germany, 2011. [Comprehensive treatment of ammonoids and nautiloids on stamps.]

Ernst, Hans Ulrich and Oliver Hampe. *Fossile Fische weltweit: Die Welt der prähistorischen Fische und ihr Spiegelbild in der Philatelie*. Verlag Friedrich Pfeil, Munich, Germany, 2018. [Comprehensive treatment of fossil fish on stamps.]



# PALEONTOLOGY

Editor

Michael Kogan, BU 1863



## New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
<b>BENIN 2019</b>				
	175fr on 50fr.	<i>Dimorphodon sp</i>	Dimorphodontidae	A
	150fr on 100fr.	<i>Eryops megacephalus</i>	Eryopidae	A
	150fr on 75fr.	<i>Dunkleosteus sp</i>	Dunkleosteidae	A
	135fr on 40fr	<i>Longisaurus sp.</i>	Sphenacodontidae?	A
These are two more of the same 1996 set, overprinted in 2000. These are not listed in catalogs.				
<b>CENTRAL AFRICAN REPUBLIC 2020 January 27</b> (Dinosaurs) (set of 4 & S/S 1) <sup>[*1]</sup>				
	850fr	<i>Ceratops horridus</i>	Ceratopsidae	A
	850fr	<i>Diplodocus longus</i>	Diplodocidae	A
	850fr	<i>Tyrannosaurus rex</i>	Tyrannosauridae	A
	850fr	<i>Allosaurus fragilis</i>	Allosauridae	A
	SS 3300fr	<i>Stegosaurus stenops</i>	Stegosauridae	A
	Margin:	<i>Tyrannosaurus rex</i> ; <i>Ceratops horridus</i>	As above	Z
<b>GUINEA BISSAU 2020 February 7</b> (Shell and Fossils) (set of 4 & S/S 1) <sup>[*1]</sup>				
	100fr	<i>Elrathia kingii</i>	Allokistocaridae	A
		Venus Comb Murex, <i>Murex pecten</i>	Muricidae	A
	500fr	<i>Keichousaurus hui</i>	Keichousauridae	A
		Fighting Conch, <i>Strombus pugilis</i>	Strombidae	A
	750fr	<i>Tyrannosaurus rex</i>	Tyrannosauridae	A
	1500fr	<i>Turritella terebr</i>	Turritellidae	A
		Trilobites	Class Trilobita	A
	SS 3000fr	Chambered or Pearly Nautilus, <i>Nautilus pompilius</i>	Nautilidae	A
		Ammonite nautilus	Order Ammonitida	A
	Margin:	<i>Tyrannosaurus re</i>	Tyrannosauridae	Z
		Queen Conch, <i>Lobatus gigas</i>	Strombidae	Z
<b>HUNGARY 2020 March 4</b> (The Bakony Dinosaurs. (II)) (M/S of 6)				
	200f	<i>Hungarobatrachus szukacsi</i>	Order Ranoidea	A
	200f	<i>Mochlodon vorosi</i>	Rhabdodontidae	A
	200f	<i>Bauxitornis mindszentiae</i>	Avisauridae	A

**HUNGARY (continued)**

200f	<i>Atractosteus sp</i>	Lepisosteidae	A
200f	Side-necked Turtle, <i>Foxemys trabanti</i>	Bothremydidae	A
200f	<i>Doratodon carcharidens</i>	Suborder Notosuchia	A
Sold for 200f each on the date of issue			

**LIBERIA****2020 January 3**(Dinosaurs) (M/S of 4 & S/S 1)<sup>[\*1]</sup>

a.	\$200	<i>Einiosaurus procurvicornis</i>	Ceratopsidae	A
b.	\$200	<i>Parasaurolophus walkeri</i>	Hadrosauridae	A
c.	\$200	<i>Apatosaurus ajax</i>	Diplodocidae	A
d.	\$200	<i>Stegosaurus stenop</i>	Stegosauridae	A
e.	\$200	<i>Coelophysis bauri</i>	Coelophysidae	A
f.	\$200	<i>Pachycephalosaurus wyomingensis</i>	Pachycephalosauridae	A
SS \$1200		<i>Tyrannosaurus rex</i>	Tyrannosauridae	A
		Margin: <i>Parasaurolophus walkeri</i> ; <i>Apatosaurus ajax</i>	As above	Z

**MALDIVE IS.****2020 February 12**(Dinosaurs) (M/S of 4 & S/S 1)<sup>[\*1]</sup>

20r		<i>Stegosaurus stenops</i>	Stegosauridae	A
		<i>Eudimorphodon ranzii</i>	Eudimorphodontidae	A
20r		<i>Pteranodon longiceps</i>	Pteranodontidae	A
		<i>Ceratops horridus</i>	Ceratopsidae	A
20r		<i>Tyrannosaurus rex</i>	Tyrannosauridae	A
		<i>Dilophosaurus wetherilli</i>	Dilophosauridae	A
20r		<i>Ankylosaurus magniventris</i>	Ankylosauridae	A
		<i>Utahraptor ostrommaysi</i>	Dromaeosauridae	A
SS 60r		<i>Velociraptor mongoliensis</i>	Dromaeosauridae	A
Margin:		<i>Pteranodon longiceps</i> ; <i>Eudimorphodon ranzii</i> ; <i>Ceratops horridus</i> ; <i>Tyrannosaurus rex</i>	As above	Z

**2020 February 12**(Shells and Fossils) (M/S of 4 & S/S 1)<sup>[\*1]</sup>

20r		<i>Nautilus belauensis</i>	Nautilidae	A
20r		Ammonite fossil	Ammonitida	A
20r		<i>Mesosaurus sp.</i> fossil	Mesosauridae	A
20r		Giant Clam, <i>Tridacna giga</i>	Cardiidae	A
SS 60r		<i>Strombus gigas</i>	Strombidae	A
Margin:		Trilobite fossil	Class Trilobita	Z

**2020 February 12**(Flying Dinosaurs) (M/S of 4 & S/S 1)<sup>[\*1]</sup>

“Flying Dinosaurs” is the wrong term. Dinosaurs are terrestrial animals per definition. Correct name of the set should be “Flying Reptiles”

22r		<i>Quetzalcoatlus northropi</i>	Azhdarchidae	A
22r		<i>Tapejara wellnhoferi</i>	Tapejaridae	A
22r		<i>Cearadactylus atrox</i>	Order Pterodactyloidea	A
22r		<i>Rahonavis ostromi</i>	Dromaeosauridae?	A
SS 70r		<i>Dimorphodon macronyx</i>	Dimorphodontidae	A
		<i>Anurognathus ammoni</i>	Anurognathidae	A
Margin:		<i>Cearadactylus atrox</i>	Order Pterodactyloidea	Z
		<i>Sordes pilosus</i>	Ramphorhynchidae	Z

**ST. THOMAS & PRINCE IS.****2020 February 4**(Dinosaurs) (M/S of 4 & S/S 1)<sup>[\*1]</sup>

1,00d		<i>Apatosaurus ajax</i>	Diplodocidae	A
31,00d		<i>Deinonychus antirrhopus</i>	Dromaeosauridae	A
31,00d		<i>Dicraeosaurus hansemanni</i>	Dicraeosauridae	A

**ST. THOMAS & PRINCE IS. (continued)**

31,00d	<i>Gigantspinosauros sichuanensis</i>	Stegosauridae?	A
Margin:	<i>Brachylophosaurus canadensis</i>	Hadrosauridae	A
124,00d	<i>Brachylophosaurus canadensis</i>	Hadrosauridae	A
	Margin: <i>Apatosaurus ajax</i> ; <i>Deinonychus antirrhopus</i> ; <i>Dicraeosaurus hansemanni</i> ; <i>Gigantspinosauros sichuanensis</i>	As above	Z

**SIERRA LEONE****2020 January 30**(Dinosaurs) (M/S of 4 & S/S 1)<sup>[\*1]</sup>

10000le	<i>Brachiosaurus altithorax</i>	Brachiosauridae	A
	<i>Pteranodon longiceps</i>	Pteranodontidae	A
10000le	<i>Spinosauros aegyptiacus</i>	Spinosauridae	A
10000le	<i>Allosaurus fragilis</i>	Allosauridae	A
10000le	<i>Tyrannosaurus rex</i>	Tyrannosauridae	A
10000le	<i>Triceratops horridus</i>	Triceratopsidae	A
20000le	<i>Tyrannosaurus rex</i>	Tyrannosauridae	A
SS 20000le	<i>Triceratops horridus</i>	Triceratopsidae	A
Margin:	<i>Allosaurus fragilis</i> ; <i>Brachiosaurus altithorax</i> ; <i>Pteranodon longiceps</i>	As above	Z

**SLOVENIA 2020 March 13 (MAMMAL FOSSILS IN SLOVENIA: *Prohyracodon telleri*)**€0.95 *Prohyracodon telleri*

Order Rhioncerotoidea

A

Due to the fact that *Prohyracodon*, Order Rhioncerotoidea, are known from few fragmentary fossils only, it's impossible to make precise reconstruction of the animal. Perhaps this is the reason for stamp designer to use reconstruction of similar animal: *Hyraodon nebraskensis*, from German book "Phylogenie der Mammalia, Stammesgeschichte der Säugetiere von Eric Thenius" published in Berlin 1969.

**SPAIN****2020 March 23**

(Museums) (Set/3)

€1 Museum of Human Evolution of Burgos

This year, three new Spanish museums are the central figures of the series Correos dedicates to the temples of art, history and culture in Spain. The first of the Premium Sheets is dedicated to the Museum of Human Evolution.

Located in the center of Burgos, it was designed by the architect Juan Navarro Baldeweg on a plot where the convent of San Pablo of the Dominican order once stood many centuries back. The museum was included in the declaration of the sites of Atapuerca as a World Heritage Site in 2015. The main aim of the Museum of Human Evolution is to preserve, map and disclose archaeological remains from the sites of the Sierra de Atapuerca.



The façade of the museum is seen in the stamp's motif, together with an image of the human skull known as Miguelón (classified as either late *Homo heidelbergensis* or as early *Homo neanderthalensis*, both Hominidae. It has been estimated to date to 430,000 years ago. ).

**TOGO****2020 February (Prehistoric water animals) (M/S of 4 & S/S 1)<sup>[\*1]</sup>**

800fr	<i>Megalodon</i> , <i>Carcharocles megalodon</i>	Otodontidae	A
800fr	<i>Anomalocaris canadensis</i>	Anomalocarididae	A
800fr	<i>Dinichthys terrella</i>	Dinichthyidae	A
800fr	<i>Liopleurodon ferox</i>	Pliosauridae	A
SS 3300fr	<i>Kronosaurus queenslandicu</i>	Pliosauridae	A
Margin:	<i>Carcharocles megalodon</i> ; <i>Dinichthys terrelli</i> ; <i>Anomalocaris canadensi</i>	As above	Z



### Stamps of private post companies

Germany 2019 June 25 definitive stamps of Post-Modern, private post operator in Saxony region.

€2,50 (letters up to 1kg weight rate)

Bautzen landscape







In 2019 local post company "Post Modern" who operate in Saxony (Sachsen) region of Germany, issued new definitive stamps with face values from 5 Euro-cent to 2.5 Euro that shows some major sightseeing of the region. Every self-adhesive stamp issued in a booklet of



10. with bigger images on a cover and postal rate table on the reverse side. 2.5 Euro is a price for Maximum letter, with weight between 501gr and 1kg.

One of these stamps shows a Sauropodid dinosaur figure from Dinosaur park at Bautzen.

The park contains over 200 life-size figures of dinosaurs and other prehistoric animals. Many of these animals presented in scenes that helps visitors envisage how they lived and fought for survival in primeval times

### Germany 2019 November 21 "Prehistoric times are alive" of "Brief und mehr", private post operator in Saxony region.

€0,70 (domestic letter up to 20gr weight rate) – *Triceratops* sp.,

Triceratopsidae

A

Reprint of two stamps, *Triceratops* and Bisons, from the set of 6 issued in 2017.



New stamps use the same design, but new face values (70 cent instead of 60 cent) according to new post rate of domestic letters with weight up to 20gr. Original set of 6 stamps "125 anniversary of Natural History Museum of Muenster (NHMM)" issued on February 1<sup>st</sup> 2017.

### Personalized stamps

#### Spain

October 26 (Fossils of Aragon)

A Ammonite, *Albarracinites albarracinensis* from Albarracín (Teruel)

Order Ammonitida

A Trilobite, *Acadoparadoxides mureroensis* from Mureo (Zaragoza)

Acadoparadoxidae

A

Skull of marine crocodile, *Maledictosuchus riclaensis* from Ricla (Zaragoza)

Metriorhynchidae

A

Issued by the Society of Friends of the Museum of Natural Sciences of the University of Zaragoza (SAMPUZ) and Philatelic Association Zaragozana (ASFIZA)

### Other stamps to consider

#### Latvia 2020 February 14 "Unique Exhibits of the Latvian Museum of Natural History"

€2,69 Amber

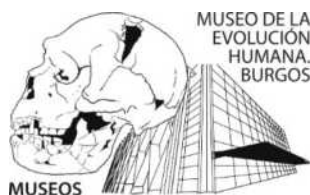
### Postmarks

#### Slovenia

2020 March 13

(MAMMAL FOSSILS IN SLOVENIA: *Prohyracodon telleri*)

Used on FDC and reproduced *Prohyracodon telleri*, Order Rhioncerotoidea skeleton as shown on the bottom-right side of the stamp.

**Spain****2020 March 23 (Museums) used on FDC****Hungary****2020 March 04 (THE WORLD OF THE BAKONY DINOSAURS (II)) used on FDC,**shows *Mochlodon vorosi*, Rhabdodontidae, as depicted on the background of the second stamp in the upper row.**Future issues**

Russia. 2020 June 3 (originally planned for 2020 May 20) - Paleontologic heritage, set of 4 stamps.

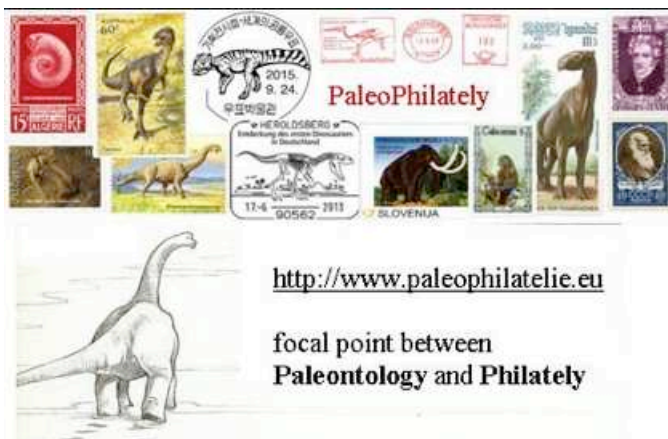
**Notes:**

[\*1] - Commercial issue: stamps are issued with only one purpose - to sell for collectors. Stamps of countries who issued too many or too expensive stamps. Not recommended for serious collectors.

If you know about any recent or feature Paleontology related stamp not listed above, please send a short message to our Associated Editor Mr. Michael Kogan [admin@paleophilatelie.eu](mailto:admin@paleophilatelie.eu) or per post to the magazine editor.

Images and description of all stamps mentioned above can be seen on the following

website: <http://www.paleophilatelie.eu/year/current.html> (2020) <http://www.paleophilatelie.eu/year/2019.html>



<http://www.paleophilatelie.eu/year/current.html>  
list of all new issues

[http://www.paleophilatelie.eu/phil\\_catalogue.html](http://www.paleophilatelie.eu/phil_catalogue.html)  
chronology and country based catalog

[http://www.paleophilatelie.eu/stamps\\_overview.html](http://www.paleophilatelie.eu/stamps_overview.html)  
gallery of stamps, FDC, circulated covers

Contact: [admin@paleophilatelie.eu](mailto:admin@paleophilatelie.eu)

Join us on Facebook: PaleoPhilately group

**MID-CITIES STAMP CLUB EXPO HAS ORCHID THEME**

This annual stamp show in mid-November may be one of the only shows in the US, IF the virus settles down early enough. Their theme this year is "Orchids" and they would appreciate letting the Biology Unit members, who may be interested in exhibiting frames, or just 1 or 4 PAGE exhibits, know about the show. A Prospectus is available from the Biology Unit Secretary.

The two-day show will be on November 13 & 14. The 1 & 4 page exhibits have an entry fee of just one dollar and a cash award will be given to the most popular of each of those categories, as voted on by our attendees. Any exhibit qualifies, not just orchids or flowers. If any members would like to show an exhibit where APS qualified judges will send them a judging sheet to help them improve their exhibit, our frame fees are just \$6 per frame, whether single or multiple frames.

They have only 68 frames, but attract 26 dealers every year and the attendees like the silent auction, the chance board, the kids area and the piles of inexpensive stamps for beginners.

## BIOLOGY REFERENCE WEBSITES

This section contains a listing of web links to on-line references relating to biology topics on stamps and general philatelic information. We are providing this information to assist members in research and not to endorse the sites listed in any way. If readers know of, or use other useful sites, please send the links to your editor and we will include them in future editions. New or changed entries since the last publication are indicated with an asterisk (\*).

### STAMP ISSUES

**Catawiki.** Listings and illustrations of stamps for sale by topic for every theme from A to Z.

<http://www.catawiki.com/catalog/stamps/100283-themes-topics>

**Collectors Club of Chicago: Philatelic Encyclopedia.** A comprehensive compendium of definitions for philatelic terms and topics including those in more than 40 foreign languages. The parent site has many additional reports and references. Portions are still under construction.

<http://www.collectorsclubchicago.org/philatelic-encyclopedia.php>

**Delcampe.** Worldwide listings and illustrations of stamps for sale. They have revised their website to make it more user-friendly.

[http://www.delcampe.net/en\\_GB/marketplace/stamps/](http://www.delcampe.net/en_GB/marketplace/stamps/)

**eBay.** Worldwide listings and illustrations of stamps, covers, postcards, and other collectibles for sale.

<http://www.ebay.com/>

**IGPC.** Formerly Cyber Stamps. On-line postage stamp catalogue of worldwide topical issues.

<https://www.igpc.com/>

**Neofila.** Modern issues from Russia, Eastern Europe, and Baltic States. Also includes some African countries.

<http://www.neofila.com/>

**Stamp Collection.** On-line postage stamp catalogue of worldwide issues. Includes production information.

<http://colnect.com/en/stamps/countries>

**Stamperija.** Listings and illustrations of thematic issues from countries located in Africa, Asia, and Oceania produced by Stamperija, Ltd., under contract to several postal administrations. Requires registration, login.

<http://www.stamperija.eu/>

**Stamp World.** Listings and illustrations of issues from all countries by year. Includes production information. Requires free registration and login.

<http://www.stampworld.com/en/maps/Europe/>

**Virtual Stamp Club.** Latest news from the world of stamp collecting. Links to other stamp collecting sites and the websites of almost every other collector society or major club.

<http://www.virtualstampclub.com/>

**Zillions of Stamps.** Worldwide listings and illustrations of stamps for sale.

<http://www.zillionsofstamps.com/>

### GENERAL

**American Philatelic Society.** Listings of dealers, local clubs, stamp shows, and other philatelic events.

<http://stamps.org/>

**American Topical Association.** Topical collecting and exhibiting information, youth activities, checklists.

<http://www.americantopicalassn.org/home.shtml>

**Collect 4 All.** Listings of stamps for sale by country and theme. Includes spectrum of animal stamps.

<http://www.collect4all.com/>

**Exploring Stamps.** Interesting and professional videos produced by videographer Graham Beck on all sorts of stamp collecting topics.

<https://www.youtube.com/channel/UCkeSM6aOWfaUPIGb5rPOGyA>

**The Philatelist.** A blog by a philatelic journalist in Portugal. Displayed in several selectable languages. Contains current philatelic news stories and links to archives with past stories. Also includes links to dozens of other world-wide philatelic websites. Philatelic publication reviews.

<http://o-filatelista.blogspot.com/>

**Tree of Life Web Project.** Worldwide collaborative effort to map the genome of every organism on earth and to establish their relationships to one another.

<http://www.tolweb.org/tree>

**Zip Code Zoo.** Links to taxonomic identification for all areas of biology including both zoology and botany. They claim to have a page for every living species with photos for many.

<http://zipcodezoo.com/>

## BOTANY

**Fungal Biodiversity Institute.** Dutch site under the Royal Netherlands Academy of Science and Arts dealing with the taxonomy and evolution of fungi. Includes searchable taxonomic databases.

<http://www.cbs.knaw.nl/>

**Garden Guides.** Replacement site for [www.botany.com](http://www.botany.com). All kinds of information about plants including cultivation. Listings by common name or scientific name. Grouped by plant types.

<http://www.gardenguides.com/>

**International Association for Plant Taxonomy.** Links for the standard international codes on taxonomy and nomenclature for algae, fungi, and plants.

<http://www.iapt-taxon.org/nomen/main.php>

## ENTOMOLOGY:

**Antbase.** On-line databases maintained by the American Museum of Natural History and Ohio State University listing all the ant species of the world.

<http://www.antbase.org/index.htm>

**Australian National Insect Collection.** Listings of Common and Scientific Names, systematic listing, and author abbreviations.

<http://www.ces.csiro.au/aicn/intro.htm>

**Bug Guide.** Identification, images, and information for insects, spiders, and their kin for the United States and Canada.

<https://bugguide.net/node/view/15740>

**Cerambycidae.** Species listing and illustrations of Cerambycidae of the West Palearctic Region organized by subfamily and tribe.

<http://www.cerambyx.uochb.cz/>

**Entomological Data Information System.** Internet links to many worldwide websites dealing with biology and ecology, especially Lepidoptera.

<http://www.insects-online.de/linkfram.htm>

**Entomology Today.** Entomological Society of America site reporting interesting discoveries in insect science, entomological society news and events, and related articles.

<https://entomologytoday.org/>

**FUNET.** Finnish university share network site containing updated taxonomic listings for insects, especially Lepidoptera. It also has limited listings for mammals, birds, and plants.

<http://www.nic.funet.fi/pub/sci/bio/life/intro.html>

**Natural History Museum.** British site containing Lepidoptera generic names and type species listings.

<http://www.nhm.ac.uk/our-science/data/butmoth/>

**Odonata Society.** German site containing listings of Odonata species found in Europe (in German).

<http://www.libellula.org/>

**World Bee Genera.** UC Riverside site containing listing of all bee generic names and synonyms by family and subfamily current as of September 2007.

<http://cache.ucr.edu/~heraty/beepage.html>

## HERPETOLOGY:

**AmphibiaWeb.** Provides access to information on amphibian declines, conservation, natural history, and taxonomy. Includes an on-line database of species and links to many related sites.

<http://amphibiaweb.org/index.html>

**The Reptile Database.** Uetz, P. (Ed.). Taxonomic database that provides basic information about all living reptile species, such as turtles, snakes, lizards, and crocodiles, as well as tuataras and amphisbaenians. It does not include dinosaurs.

<http://reptile-database.reptarium.cz/>

**Society of the Study of Amphibians and Reptiles.** Website devoted to herpetology research and conservation. Database of North American species names.

<https://ssarherps.org/>

**Turtle Meter Stamps.** Updated website containing a worldwide catalog of meter stamps and meter marks the depict turtles and tortoises based on the owners collection of more than 220 items. There is an image of each meter with some short comments on its use and scarcity in English, Italian, and French.

<http://turtlemeterstamp.altervista.org/>

**World-Wide List of Turtles and Tortoises on Stamps.** This on-line listing was produced by Donald N. Riemer, a former member of the Biology Unit and contributor to this journal, who passed away in June 2012. The site contains a checklist of stamps by country along with appendixes listing labels, cinderellas, turtle look-alike stamps, and post offices with “turtle” or “tortoise” in their name.

<http://www.personal.psu.edu/crr2/turtstmp/>

## ICHTHYOLOGY

**All Tropical Fish.** Provides information on marine fishkeeping, corals, invertebrates, and freshwater fish. Offers fish forums, community and article and photo upload.

<http://www.alltropicalfish.com/>

**Burke Museum Ichthyology.** Database of the museum’s archival collection of more than 11 million specimens.

<http://www.burkemuseum.org/research-and-collections/ichthyology>

**FishBase.** A searchable database developed at the WorldFish Center in Taiwan in collaboration with the Food and Agriculture Organization of the United Nations. Contains all you ever wanted to know about fishes.

[http://fishbase.sinica.edu.tw/home\\_tw.htm](http://fishbase.sinica.edu.tw/home_tw.htm)

## MAMMALS

**Feline Philately Homepage.** All sorts of cat stamps, postmarks, and related articles.

<http://www.catstamps.org/>

**Mammal Species of the World.** On-line database of worldwide mammal species hosted by the Smithsonian National Museum of Natural History.

<http://vertebrates.si.edu/mammals/index.html>

## ORNITHOLOGY

**Birds of the World.** All sorts of bird stamps by country and species, including new issues.

<http://www.bird-stamps.org/>

**Bird Stamp Society.** Website of an organization catering to collectors of bird stamps. They publish a quarterly journal that lists new birds on stamps.

<http://www.birdstampsociety.org/index.html>

**Theme Birds on Stamps.** All sorts of bird stamps by country and species, including new issues.

<http://www.birdtheme.org/>

## PALEONTOLOGY:

**Dinosaur Illustrations.** Galleries of dinosaur illustrations by species. Includes links to paleontology stamp sites and other related sites.

<http://www.search4dinosaurs.com/>

**Paleophilatelie.** Edited by our Paleontology Editor, Michael Kogan. Catalogue of Paleontology related philatelic items, such as paleontologists, fossils, prehistoric animals, dinosaurs, early man, and museums on official post stamps, envelopes, and post cards. Contains links to related news items and sites.

<http://www.paleophilatelie.eu/index.html>



## GLOSSARY OF TERMS

This section lists the definitions of acronyms, abbreviations, and code letters used throughout this journal. This listing does not include abbreviations used for the name of a taxonomic author, or commonly used symbols.

### Checklist Codes:

Br	Branch	A	Subject is the primary design element
Fl	Flowers (with or without other plant parts)	B	Subject is only part of the main design
Fr	Fruit (including seeds, nuts, grains, etc.)	C	Subject is a minor representation
FrV	Grain head with sheaf or stalk	G	Subject is a generalized depiction
L	Lichen	R	Related subject (e.g., scientist, equipment)
M	Mushroom or fungus	S	Subject is a stylized or symbolic depiction
T	Trees (without flowers or fruit)	U	Subject is unidentified or unidentifiable
V	Various (vines, vegetables, roots, leaves, etc.)	X	Subject is a lookalike (e.g., mushroom cloud)
Wr	Wreath	Z	Subject is in the Margin or selva
Wr*	Head wreath (or chaplet)	*	Subject is natural color (no longer in use)

### Acronyms and Abbreviations:

AAPE	American Association of Philatelic Exhibitors	ovpt	overprinted
anniv	anniversary	perf	perforated
APC	American Philatelic Center (Bellefonte, PA)	photo	photogravure
APS	American Philatelic Society	ptg	painting or artwork
ATA	American Topical Association	R	right position indicator
bklr	booklet	s/a	self-adhesive
Cap	captioned	Sc#	Scott Catalogue number
CTO	canceled to order	s-o-s	stamp on stamp
CTR	center position indicator	sp.	species
DS	deluxe sheet	SS	souvenir sheet
Ed.	Editor	ssp.	sub-species
Expo	Exposition	s/t	se-tenant
horiz	horizontal orientation	surch	surcharged
imperf	imperfectorate	UL	upper left position indicator
inscr	inscribed	unwmk	un-watermarked
Intl.	International	UPU	Universal Postal Union
L	left position indicator	UR	upper right position indicator
litho	lithography	US	United States
LL	lower left position indicator	USPOD	United States Post Office Department
LR	lower right position indicator	USPS	United States Postal Service
Mi#	Michel Catalog number	var.	variety
mm	millimeter	vert	vertical orientation
MS	miniature sheet	Vol	Volume
ML	middle left position indicator	wmk	watermarked
MR	middle right position indicator	WWF	World Wildlife Federation
N/A	not applicable (or not available)	Yv#	Yvert & Tellier Catalog number
nd	non-denominated	♂	male symbol
NTSS	National Topical Stamp Show	♀	female symbol
NWF	National Wildlife Federation	☠	poisonous/venomous symbol

**Entomology Family Abbreviations:**

ACR	Acrididae	AES	Aeshnidae	AND	Andrenidae
ANO	Anobiidae	ANT	Anthicidae	API	Apidae
ARC	Arctiidae	BEL	Belostomatidae	BLA	Blattidae
BRA	Brahmaeidae	BRAC	Braconidae	BUP	Buprestidae
CAL	Calopterygidae	CAN	Cantharidae	CAR	Carabidae
CAS	Castniidae	CER	Cerambycidae	CHR	Chrysomelidae
CHRY	Chrysopidae	CIC	Cicadellidae	CICA	Cicadidae
COC	Coccinellidae	COE	Coenagrionidae	COR	Corydalidae
CORD	Cordulegastridae	CORE	Coreidae	COS	Cosmopterigidae
CRA	Crabronidae	CRAM	Crambidae	CUL	Culicidae
CUR	Curculionidae	DER	Dermestidae	DRO	Drosophilidae
DYT	Dytiscidae	ELA	Elateridae	FOR	Formicidae
FUL	Fulgoridae	GEO	Geometridae	GEOT	Geotrupidae
GOM	Gomphidae	GRA	Gracillariidae	GRY	Gryllidae
GRYA	Gryllacrididae	HAL	Halictidae	HES	Hesperiidae
HYM	Hymenopodidae	ICH	Ichneumonidae	LAM	Lampyridae
LAS	Lasiocampidae	LIB	Libellulidae	LIM	Limacodidae
LUC	Lucanidae	LYC	Lycaenidae	LYG	Lygaeidae
LYM	Lymantriidae	MAN	Mantidae	MEG	Megachilidae
MEL	Meloidae	MEM	Membracidae	MIR	Miridae
MUS	Muscidae	MYR	Myrmeleontidae	NOC	Noctuidae
NOL	Nolidae	NOT	Notodontidae	NYM	Nymphalidae
OEC	Oecophoridae	PAP	Papilionidae	PAS	Passalidae
PEN	Pentatomidae	PHA	Phasmatidae	PHY	Phyllidae
PIE	Pieridae	PLU	Plutellidae	POM	Pompilidae
PSY	Psychodidae	PTE	Pterophoridae	PYR	Pyalidae
PYRG	Pyrgomorphidae	RAP	Rhaphidophoridae	RED	Reduviidae
RIO	Riodinidae	ROM	Romaleidae	SAR	Sarcophagidae
SAT	Saturniidae	SCA	Scarabaeidae	SCO	Scoliidae
SCU	Scutelleridae	SES	Sesiidae	SIL	Silphidae
SIM	Simuliidae	SIR	Siricidae	SPH	Sphingidae
SPHE	Sphecidae	STA	Staphylinidae	SYR	Syrphidae
TAB	Tabanidae	TEN	Tenebrionidae	TEP	Tephritidae
TET	Tettigoniidae	TIP	Tipulidae	TOR	Tortricidae
TRI	Trichogrammatidae	URA	Uraniidae	VES	Vespidae
YPO	Yponomeutidae	ZYG	Zygaenidae		

**Collecting Codes**

0 Paleontology	1 Flora & Fauna	2 Botany	3 Zoology	4 Reptile & Amphibian
5 Birds	6 Fish	7 Insects	8 Mammals	9 Marine Life