BIOPHILATELY

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BIOPHILATELY

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Send membership enquiries and change of address notices to the Secretary, Chris Dahle, (319) 364-4999, address at left. See the following page for dues rates.

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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 2019.

FROM THE EDITOR'S DESK

In this issue, you will find several references to the joint stamp show this summer being sponsored by the American Topical Association (ATA) and the American Philatelic Society (APS). The StampShow-National Topical Stamp Show will be held in Omaha, Nebraska, on 1–4 August 2019. This will be the largest stamp show in the United States this year and the organizers expect to build on the outstandingly successful joint show held last year in Columbus, Ohio.

This joint show concept is expanding to other shows as well. Combining the efforts of two or more organizations certainly has some great benefits for these groups. They can share the expenses and work efforts and that reduces the costs for both groups. The synergy also enables them to offer more activities and expose visitors to more philatelic possibilities, not to mention expanding the dealer base and the quantity and quality of exhibits and presentations.



However, there is a cost to following this concept. The most important is that it results in fewer philatelic shows and that means fewer opportunities for dealers to make sales and fewer chances for collectors to attend a show. This makes it even more important to make plans to come to Omaha and take part in this opportunity. See you there.

There is no Herpetology column in this edition, but our Associate Editor tells me he should have a listing in the next edition. Also, my inbox for articles is almost empty, so I urge everyone (once again) to check your collections for an interesting item and write it up for the rest of us to appreciate.

There have been some questions about how we create our new issue listings.

Chris Dahle, 1401 Linmar Drive NE, Cedar Rapids, IA 52402

Each of our Associate Editors constructs their new issue listings in accordance with their own interpretation of the topic. Some editors only list items that depict an identifiable subject. In some of these cases, the subject may clearly be animal or plant, but the image may not be refined enough to make a confirmed identification, so we list it as unidentified (U/I). This is your cue to chime in with what you think the subject is.

Other editors include designs showing stylized images of the topic in order to provide more complete listings for those collectors who wish to include these items. In some cases, editors may even list stamps showing related subjects such as biologists, or scientific establishments that do not show an image of a biological subject at all.

If the listing in your topical area does not satisfy your interest, please contact the corresponding Associate Editor and let him know what other information you would like to see included.

I would like to remind all readers that we have a listing of websites in the back of each issue that provide useful information about biological subjects including topics on stamps. Many of these sites include images of stamp issues.

Jack R. Congrove

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US membership	\$25	Full page insertion	\$20
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Please see the Biology Unit website	(www.biophilate	ly.org) for membership applications.	Several pay-
ment options are available. Send app	plications and pay	ments payable to the Biology Unit o	of ATA to:

PRESIDENT'S MESSAGE

Although it is May, this week feels more like March. The garden is blooming now with iris, bleeding hearts, and pansies. The peonies will be opening shortly. Birds are swarming the feeders and gathering nesting material. Can't wait to see the little ones appear. May is Zoo Babies month here in Cincinnati. Some were born months ago and some are very recent, but all are so cute!

August and the National Topical Stamp Show are fast approaching. The ATA has special plans this year for its 70th Anniversary. Join us in the celebrations. There will be a First Day Ceremony for the Military Working Dogs stamps.

The Biology Unit will be involved with the ATA booth again this year. If you are coming to the show, please stop by the booth. Our Study Unit meeting will again be on Saturday, but please note the time will be at 11:00 AM, which is an hour later than usual.



Omaha, Nebraska, offers a number of sites for the Biological Studies. I plan on arriving early and visiting the Henry Doorly Zoo. The zoo covers greater than 130 acres with more than 960 animal species. Can't wait to see the Cat Complex, Kingdoms of the Night, and the Aquarium. The Aviary exhibit is extraordinary, with more than 500 birds under one roof.

Lauritzen Gardens Botanical Center is the place for the botanists and all flower lovers to explore. With over a dozen different gardens, it is a must see. For ornithologists, they have a special bird sanctuary to visit. There is even a Model Train Garden, a tie in with this year's Show Theme.

Hope to see you this coming August in Omaha, Nebraska.

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SECRETARY-TREASURER'S CORNER

ANNUAL MEETING

The Biology Unit will hold its annual meeting at the joint APS StampShow-National Topical Stamp Show (NTSS) in Omaha, Nebraska, at 11:00 AM on Saturday, 3 August 2019. Ordinarily this is a social meeting and we do not discuss detailed business matters. The StampShow-NTSS show runs 1–4 August at the CHI Health Center Omaha, Admission is free.

NEW MEMBERS

There were no new members during this quarter. The Biology topic is immensely popular. It is likely that someone in your local club is a collector of something related to zoology or botany. Sign them up. The Secretary did send complimentary issues of

Biophilately to new ATA members who listed a biology topic in Topical Time, inviting them to join the Unit.

NEWS OF NOTE NATIONAL TOPICAL STAMP SHOW

Our parent organization, the American Topical Association (ATA), is again taking advantage of a wonderful opportunity to partner with the American Philatelic Society (APS) to hold its annual National Topical Stamp Show (NTSS) on 1–4 August 2019, at the CHI Health Center convention center in Omaha, Nebraska. The NTSS is an APS sponsored World Series of Philately (WSP) national-level exhibition.

The APS is handling arrangements for the show, except for the ATA President's Reception, the ATA after-show tour, and volunteers to work at the ATA booth. Those desiring to attend must submit forms and pay associated fees to the APS.

To view the latest show information, go to the APS website (https://stamps.org/stampshow). Check the website frequently for updates.

- 1. The show page gives dates, hours, show location, and hotel information as well as links to various forms.
- 2. **Hotel Reservations:** Click on the link *Make your show reservations online with the Hilton Omaha*.
- 3. **Pre-Registration:** *Pre-Registration ends on 10 July 2019*. Completing this form will generate a name badge to be picked up at the Registration Desk. The badge will include both your APS and ATA membership years. By completing this form online, you help reduce administrative time and the possibility of spelling errors. The PDF version of the form includes options to purchase event tickets.
- 4. **Exhibitor Information:** Entries were due by 15 May.
- 5. **Dealer Information:** A showroom floor plan is at this link: https://stamps.org/Portals/0/Show%20Floor.pdf.
- 6. **Purchase Tickets:** The following events are included: APS/ATA Celebration Banquet. On-the-Road Course(s), and Boy Scout Merit Badge Workshop. Tickets for the ATA President's Reception and Monday tour are available on the ATA website.
- 7. **Society Booth Information:** The Biology Unit will hold their annual general meeting at 11:00 AM on Saturday, 3 August 2019, in room 212.
- 8. **Volunteer Information:** All ATA members are encouraged to volunteer with the APS. Click on the Volunteer Task Descriptions" link to read about various volunteer options. If you volunteer for a total of eight hours at the show, you are eligible to receive a free ticket to the Celebration Banquet (a \$60 value). The ATA booth also needs volunteers and since the Biology Unit is helping to sponsor this booth, we share the responsibility for operating it. Check the ATA website (http://americantopicalassn.org) or contact Vera Felts to sign up.

ATA EXECUTIVE DIRECTOR RETIRING

Vera Felts, long-time Executive Director and the face of the ATA, has submitted her notice that she will be retiring this year. Many of our members are personally acquainted with Vera and I know we will miss her helpful and knowledgeable efforts at running the day-to-day operation of the Association.

Vera recently celebrated her tenth anniversary as the Executive Director. During her tenure, she began the ATA Ambassador Program that has recruited more than 1,000 members for the ATA. She also developed the popular "Taste of Topicals" packets to entice new and casual collectors to the organization. She has also improved the quality of the ATA publications.

Most members do not realize the amount of work involved in operating the Association. In addition to responding to all member needs and inquiries, the Executive Director maintains membership records, prepares promotional materials and mailings, processes applications and renewals, and coordinates Ambassador support for shows.

On the financial side, the ED maintains financial records, collects dues and other payments, prepares and manages the budget, files taxes, and oversees fundraising. In the publications area, the ED provides input and a column for each issue of *Topical Time*, coordinates the development of ATA handbooks, prepares printed materials for various activities, oversees the work of the checklist coordinators, and provides checklists requested by members.

The ED maintains the ATA office, promotes the organization to increase and retain membership, maintains an inventory of all ATA materials, and assists the coordinators of ATA chapters, study units, committees, and other volunteers.

The ATA is now seeking applicants for Executive Director, which is a full-time position. Send inquiries to the ATA Headquarters, P.O. Box 8, Carterville, IL 62918-0008. Email: americantopical@msn.com.

DISTINGUISHED TOPICAL PHILATELIST

The 2019 Distinguished Topical Philatelist, the highest award given by the American Topical Association, is being awarded to Aimée Devine of Janesville, Wisconsin. Aimée is the talented author of nearly 500 pages of youth activities on the ATA website, which are available free and can be downloaded to share with youth and beginning collectors. Her features on topics, including Mexico, France, the circus, fun foods, dragons and many more, are beautifully designed and can be appreciated by collectors of all ages.

Her popular "Topical Tidbits" pages, featured on the ATA website since 2012, were inspired by Jean Stout during a presentation on attracting children to topicals at NTSS 2011 in Milwaukee. She was encouraged by ATA youth coordinator MaryAnn Bowman, who continues to collaborate with her on many projects.

Recently, Aimée wrote and designed *The Magical World of Stamp Collecting*, a colorful Disney-themed booklet, which won a first award (with *Topical Time*) in the 2018 International Philatelic Literature competition sponsored by Auction House Christoph Gärtner.

In 2016, she was extensively involved in creating materials for the youth area at the World Stamp Show in New York City. Those materials are now available free at the Wisconsin Federation of Stamp Clubs' website (www.wfscstamps.org) in the youth section.

Aimée was introduced to philately as a child by her grandmother, who gave her an envelope of stamps that had belonged to Aimée's great-grandfather. "I loved looking through the stamps and imagining what kind of man he was," she said. "That Christmas my parents gave me a stamp album, and I was hooked!" Currently, Aimée collects children's literature, fruits, vegetables, ethnic costumes, and clipper ships on stamps.

The list of activities this busy philatelist and mother pursues seems almost endless. She is secretary of the Janesville Stamp Club and is a member of the Badger Stamp Club, Rockford Stamp Club, and ATA Chapter Five (Milwaukee).

The award will be presented at the Celebration Banquet at StampShow-NTSS in Omaha on Saturday, 3 August.

ATA ELECTIONS

The American Topical Association, our parent organization, held elections for its officers and Board of Directors via its "Because You Belong" website with voting cutoff on 31 May. The terms for the officers and board members are staggered so that about one-third of the positions are voted on each year. The nominees, who were all running unopposed, were:

President: Dawn R Hamman, Venice, Florida

1st Vice President: Jeffrey A Hayward, Staten Island, New York 2nd Vice President: Jack R. Congrove, Fort Lewis, Washington

Director: Dale E. Smith, Kansas City, Missouri Director: Christopher E. Dahle, Cedar Rapids, Iowa

The newly elected officers and board members will be installed during a meeting at the National Topical Stamp Show in Omaha, Nebraska, on Tuesday, 30 July 2019.

ATA CACHET OFFERING

At the St. Louis Stamp Expo on 29 March 2019, the US Postal Service held a first day ceremony to issue its Coral Reef postcard stamps. These colorful stamps are available from the American Topical Association in a collectible four-piece first day cover (FDC) set.

Each cachet with coordinating enclosure card showcases one coil and one sheet stamp of the same design with the official USPS FDC cancel. The cachets were designed by Jane Eastwood Schemonia, who is the administrative assistant to the ATA Executive Director at the ATA headquarters.

Only 50 sets (with individual stuffer cards for each stamp) were made, so Biology Unit members should order as soon as they can. Please send a SASE to ATA, P.O. Box 8, Carterville IL 62918-0008 along with a check for \$11 for all four covers, or purchase individually for \$3 each. If paying by PayPal to americantopical@msn.com, enclose an extra dollar for return postage. If purchasing individual cachets, please specify coral choice: brain, elkhorn, pillar, or staghorn. This is a limited time offer; when they sell out, they sell out!



ATA CHECKLISTS

The ATA is the world's leading supplier of topical stamp checklists. Checklists are available only to ATA members and are one of its best member services. The source for these checklists is a dATAbase containing more than 418,885 stamps and 735,445 topical listings. There are currently 1,349 different standard checklists. Members who have purchased ATA checklists from the dATAbase (since May 2014) can receive free updates once a year upon request.

The April 2019 checklist updates have been completed and the coordinators have added an additional 1,164 items. The checklist dATAbase now has a total 735,445 items.

Checklists should be ordered directly from the ATA Office, by emailing *americantopical@msn.com*, or calling 618-985-5100, or mailing your order. For convenience, you may use a PDF order form available on the Because You Belong website (*www.ata-becauseyoubelong.org/index.php/resources/checklists*).

FROG FOREVER STAMPS

On 9 July 2019, in Boise, Idaho, the U.S. Postal Service plans to release four new stamps in a booklet of 20, featuring digital illustrations of four North American frogs.

The species depicted are: the Pacific Tree Frog (*Pseudacris regilla*), the Northern Leopard Frog (*Lithobates pipiens*), the American Green Tree Frog (*Hyla cinerea*), and the Squirrel Tree Frog (*Hyla squirella*).

Working with a primarily green color palette and touches of brown, artist Nancy Stahl captured the essence of each animal with enough important defining features to make each recognizable. USPS art director William J. Gicker designed the stamps. The printer has not been announced.



Stahl has designed more than 20 different stamps for the USPS including these with biological themes: the 37c Snowy Egret (2003), 26c Florida Panther (2007), 17c Bighorn Sheep (2007), 62c Dragonfly (2008), 28c Polar Bear (2009), 64c Dolphin (2009), Semi-postal Save Vanishing Species (2011), Forever Bobcat (2012), and Forever Hummingbird (2013).

WINTER BERRIES FOREVER STAMPS

Another set of stamps the U.S. Postal Service plans to release later this year depicts highly detailed botanical illustrations of Winter Berries. The four designs will be issued in a booklet of 20.

The bright designs highlight the bold colors and rich textures of the berries and feature the following plants: the Winterberry (*Ilex verticillata*), the Juniper Berry (*Juniperus communis*), the Beautyberry (*Callicarpa americana*), and the Soapberry (*Sapindus saponaria*).

Artist Steve Buchanan worked with art director Antonio Alcalá to create these four new stamps. The printer has not been announced.

Buchanan, who specializes in botanical and entomological subjects, has also designed several other stamps for the USPS including these with biological themes: 33c Insects and Spiders (1999), 33c Tropical Flowers (1999), 34c Carnivorous Plants (2001), 37c Reptiles and Amphibians (2003), 39c Crops of the Americas (2006), and 41c Pollination (2007).



An interesting collection could be assembled based on each artist who created the designs.

THE DELICATE BEAUTY OF BUTTERFLIES

Vladimir Kachan, Belarus

There are about 180,000 described species of butterflies and moths spread throughout the globe. Butterflies are usually associated with grace—they roam the skies with an admirable air of freedom. The beauty of each butterfly is in its wing pattern—a delicate pattern crafted by nature's paintbrush.

Among other functions, the coloring of butterflies has a heat regulating purpose. The butterflies with light coloring keep in well-lit places such as in the crowns of the trees, on the edge of forests, or on the sand at river banks. Butterflies with dark coloring in most cases fly in the shade. The wings of tropical butterflies are covered with optical scales. Because they are exposed to the direct rays of the sun, their shiny metallic coverings reflect the rays and serve as protection from excessive over-heating.

A beautiful and easily recognizable butterfly is the Common Swallowtail (*Papilio machaon*) was named by Carl Linnaeus in the 10th edition of *Systema Naturae* in 1758, along with nearly 200 other species of butterflies. This butterfly is widespread in Europe, as well as in Asia, northern Africa, and northern America. The butterfly has a strong and fast flight, but frequently pauses to hover over flowering herbs and sip nectar. It frequents alpine meadows and hillsides, and males are fond of "hilltopping," congregating near summits to compete for passing females. At lower elevations, it can be seen visiting gardens.

The Apollo (*Parnassius apollo*), one of the most adorable and large butterflies in Europe, lives in the Alps at an altitude of 600 to 2,500 meters. This typical mountain species prefers hills and flowery alpine meadows and pastures of the continental European mountains, in Spain, Scandinavia, and Central Europe, in the Balkans up to northern Greece, and in the Alps between Italy and France.



Fig 1. Papilio machaon L. artwork for unissued Italy

It is also present in some areas of the central Asia. It has bright red spots on the front and rear wings. The color scheme of the wings of the Apollo combines the nobility of whiteness with an amazing spotted color. In the rays of sunlight, the butterfly reminds one of an exotic flower, miraculously soaring in the air slowly flying from flower to flower.

The Red Admiral (*Vanessa atalanta*) is a well-known colorful butterfly, found in temperate Europe, Asia, North Africa, and North America. It is found even on Haiti and New Zealand. Figure 3 is an image of a 1963 telegram form from New Zealand showing a Red Admiral at upper right.

The Red Admiral is resident only in warmer areas, but migrates north in spring, and sometimes again in autumn. This medium-sized butterfly is identified by its striking



Fig 2. Parnassius apollo L. unlisted imperforate souvenir sheet, Sierra Leone, 2010

dark brown, red, and black wing pattern. In northern Europe, it is one of the last butterflies to be seen before winter sets in, often feeding on the flowers of ivy on sunny days. The Red Admiral is also known to hibernate, re-emerging individuals showing prominently darker colorings than first-brood subjects. The butterfly also flies on sunny winter days, especially in southern Europe.

The Common Brimstone butterfly (*Gonepteryx rhamni*) is a very attractive, light lemon or yellow butterfly that has a rather pointed wing shape. Some say that this butter-colored insect was responsible for the name "butterfly." It lives in Europe, North Africa, and Asia. It hibernates during the winter. Many butterflies suck nectar and live several weeks or months. However, the Brimstone butterfly can be entered in the book of records for the duration of life among the butterflies of the world. Its lifespan, taking into account the hibernation, can last for eleven months.



Fig 3. Vanessa atalanta L. telegram format, New Zealand, 1963

Fig 4. Gonepteryx rhamni L. postage meter Germany 2002

The African Giant Swallowtail (Paper)

The African Giant Swallowtail (*Papilio antimachus*) is an exceedingly beautiful butterfly with a relatively wide range in Africa's primary rainforests. The African Giant Swallowtail is the largest African butterfly and has a long, narrow wingspan of 20–23 cm and no tails. It is orange to reddishbrown with a complex pattern of black and yellow-ochre markings. The butterfly has no natural enemies because it is very poisonous, with a toxin potent enough to kill up to six average house cats.

The Monarch (*Danaus plexippus*) is the most popular butterfly in America. In 1492, when Columbus's ships were approaching Cuba, the sailors were astonished by a previously unknown natural phenomenon. They observed a huge swarm of butterflies persistently flying in one direction. The captain put down in his diary, "Such innumerable flocks of butterflies appeared, that the sky darkened."

It is a pity that he did not describe those insects in detail, but almost surely it may be said that Columbus met the passage of Monarch butterflies. They live in the USA and Canada and in autumn they fly to winter in the south—to Florida, Mexico, Cuba, and the Bahamas covering distances of more than 3,600 kilometers. They fly at the height of 120 meters. Their speed, depending on the speed of wind, is from 15 to 50 kilometers per hour. At dark their flight stops.



Fig 5. *Papilio antimachus* Dry. Artwork, Burundi, 1984, Sc#614





Fig 6. *Danaus plexippus* L. normal & color missing, Mexico, 1988, Sc#1559

For many years, people could not find the wintering places of these butterflies. Only in 1986, one Mexican amateur student of local lore searched in the Sierra Madre Mountains not far from the Mexican capital. In an area of about eight hectares he found about 50 million butterflies. They sat densely packed on evergreen plants, making the crowns of the trees and bushes look orange.

It happens that under the weight of the butterflies, branches with a thickness of seven centimeters can break. It takes three generations for the butterflies to reach their far northern areas again and the fourth

generation, which has never been to their wintering location, makes the return trip. Their phenomenal genetic memory helps them to find the wintering place without a mistake.

The butterfly *Ancyluris formosissima* with rapid flight and instant reaction is present in tropical rainforests of South America, mainly in Ecuador, Peru, and Bolivia. It can be found at an elevation up to 3,000 meters above sea level. Its wingspan is about 38–45 millimetres. The upper sides of the forewings are dark brown with a bluegreen band, while the base is white and brown. The hind wings are white, pink, and brown, with a brilliant blue-green marginal band and a small red area. At the edge of the hind wings there is a short tail. In South America, this butterfly is called a "living treasure." The species name *formosissima* means "very beautiful."

In the tropical forests of South America there are the butterflies that have lost the scaly covering on their wings, making them almost completely transparent. Only the hind wings display eyes that are typical for this family. When such a butterfly is on the crown of a tree, it is quite unnoticeable because the design of the leaf on which it sits appears through its glassy wings. One of these butterflies is the

Amber Phantom (*Haetera piera*). These elusive crepuscular butterflies are denizens of the darkest and dampest recesses of the rainforest.

The Blue Morpho (*Morpho peleides*) from the rainforests of South America is among the largest in the world, with a wingspan up to 20 cm. The males have beautiful metallic-blue upper wings, while the females are drab.



Fig 9. Morpho peleides Kollar original artwork, Venezuela, 1966



Fig 7. Ancyluris formosissima Hew. Guinea, 1973, Sc#641

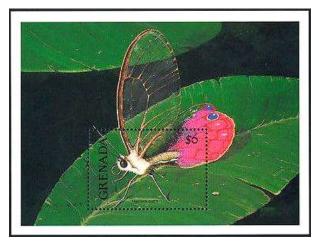


Fig 8. Haetera piera L. Grenada, 1991, Sc#1948

Their iridescence stems from the microscopic structure of their wings. Pilots flying over the rain forest can occasionally see brief flashes of blue as these butterflies travel above the forest canopy. Iridescent surfaces, such as butterfly wings, help animals to elude potential predators. When these insects fly, the upper surface of their wings continually changes from bright blue to dull brown because the changing angle of the light striking the wings.

As the butterflies move their wings up and down during flight, they seem to disappear, and then reappear a short distance away, looking like ethereal flashes of bright blue light. The dark undersides of their wings strengthen this effect. Combined with an undulating pattern of flight, this ability to change color quickly makes them difficult for predators to pursue.

The magnificent *Morpho rhetenor*, also called Blue Morpho, is a very beautiful butterfly from South America. Their distribution extends from Peru to Colombia and from Guyana to Suriname. The wingspan is about 14–17 cm. Only the wings of the male are blue. They shine the most brilliant blue of all butterflies due to the structure of the wing scales. They always fly energetically at a great height, mounting from 3 to 6 meters with an undulating flight. In bright sunlight, each wing flap can be seen up to a distance of one third of a kilometer.



Fig 10. *Morpho rhetenor* Cr. Niue, 2004, Sc#786

The Common Rose (*Pachliopta aristolochiae*) is an unusual swallowtail butterfly belonging to the roses, or red-bodied swallowtails. It is beautiful butterfly that is extensively distributed across South and Southeast Asia. The red body, slow peculiar flight, bright colouration and pattern of the wings are meant to indicate to predators that this butterfly is inedible, being well protected by the poisons it has sequestered from its larval food plant. The Common Rose is active much earlier in the morning than most butterflies and remains so throughout the day until dusk. It flies just as readily in the shade as in the sun, and frequently visits flowers.



Fig 12. Troides helena L. Hong Kong, 2000, Sc#903

The Common Birdwing (*Troides helena*) with wingspan of 140–170 mm is one of the largest and most beautiful butterflies in Asia. Its common name is derived from the fact that a careless look at this conspicuous black and yellow butterfly might almost give the impression of a bird in flight.



Fig 11. *Pachliopta aristolochiae* Fabr. Malaysia, 1996, aerogramme

The dramatic contrast of golden yellow hind-wings and glossy black forewings gives this species a striking appearance, and serves as a protection mechanism by warning potential predators that it is distasteful. The Common Birdwing enjoys the widest distribution of all birdwings, stretching from India and Nepal in the west, to China in the north, and down through Southeast Asia to Indonesia in the south and east. This species is protected under Wild Animals Protection Ordinance in Hong Kong.

Queen Alexandra's Birdwing (*Ornithoptera alexandrae*) is the largest butterfly in the world, with females reaching wingspans up to 28 cm. Its distribution is restricted to the forests of the Oro Province in eastern Papua New Guinea. This species displays sexual dimorphism. The wings of males are long with angular apexes. They are iridescent bluish green with a black central band. The underside is green or blue green with black veins. The wingspan of the males is about 20 cm.

Females are larger than males with markedly rounder, broader wings. The female can reach a body length of 8 cm and a body mass of up to 12 grams, all enormous measurements for a butterfly. The female has brown wings with white markings arranged as two rows of chevrons. The hindwings are brown with a submarginal line of centered yellow triangles. They fly almost untouchable in the crowns of trees of the rainforests of New-Guinea. The species is considered endangered.



Fig 14. *Ornithoptera alexandrae* Roths. ♀ maximum card, Papua New Guinea, 1988

An imperfect respiratory system limits butterfly size. Their colorless blood can-



Fig 13. *Ornithoptera alexandrae* Roths. preliminary art, Papua New Guinea, 1975

not carry oxygen, the flow of which to their organs depends only on diffusion. That is why the biggest butterflies live in the tropics. The variety and coloration of wings compare butterflies to the most beautiful creatures on Earth.

I hope that my article illustrated by different types of philatelic materials will help philatelists in creating, developing, and improving exciting philatelic exhibits about butterflies.

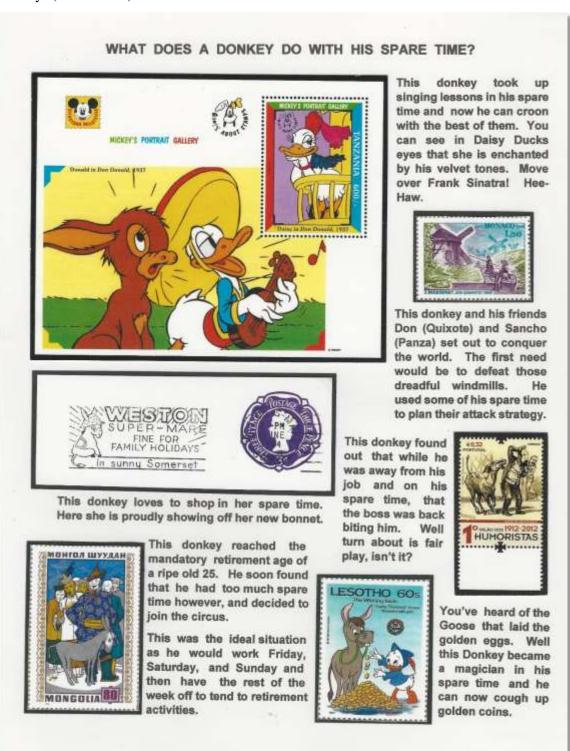
Please write to the author Vladimir Kachan by e-mail: *vladimirkachan@mail.ru*.

STAMP STORIES

Jack R. Congrove, BU1424

This is a continuation of the Biology Unit one-frame exhibit "What Does (your topic) Do in Its Spare Time?" shown at the joint ATA-APS show in Columbus, Ohio. The remiaing pages will appear in upcoming editions.

Page 7: Donkeys (Bob Mather)



Page 8: Frogs (Vic Eichler)

FROGS

In their day job, frogs work to keep the world's insect population under control. But in their spare time they are actors who star in fairy tales.



In other stories, they play with their animal friends. In some tales, they dine with royalty.

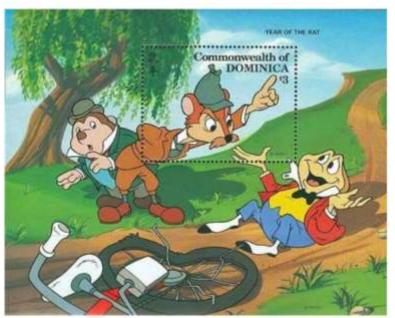




Frogs can pretend to be any character like this one who acted like an ox.



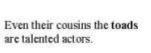
Some frogs are noted musicians and star in musicals,



Many frogs do their own stunt work.



Some frogs star in adventure stories.







BOTANY

Editor

Christopher E. Dahle, BU1269

New Listings



	**********	Tiew Distings	1	
Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ALBAN	NIA	2018 December 7 (Flowers) (Horiz Pair)		
3022a		Okra, Abelmoschus esculentus	Malvaceae	Fl Fr A
3022b	10001	St John's Wort, Hypericum perforatum	Dilleniaceae	Fl Fr A
AUSTR	RALIA	2019 February 5 (Greetings) (Set/8 & 8ea	Bklt/10)	
4915	\$1	Roses, $Rosa \times hybrida$ (perf 143/4×14)	Rosaceae	Fl A
4920	\$1	White Rose, $Rosa \times hybrida$ (perf 143/4×14)	Rosaceae	Fl A
4923	\$1	Roses, $Rosa \times hybrida$	Rosaceae	Fl A
4923a		Bklt/10 (Sc#4923) (die cut 11¾) (s/a)		
4928	\$1	White Rose, $Rosa \times hybrida$	Rosaceae	Fl A
4928a		Bklt/10 (Sc#4928) (die cut 11¾) (s/a)		
CANAI	DA	2019 February 14 (Gardenias) (SS/2, Hor	iz Pair, Bklt/10)	
3166a	SS (90c)	Gardenias, Gardenia jasminoides (pink bkgrd)	Rubiaceae	Fl A SS
3166b	SS (90c)	Gardenias, Gardenia jasminoides (green bkgrd)	Rubiaceae	Fl A SS
3166		SS/2 (Sc#3166a–b) (perf 13)		
3167	(90c)	Gardenia, Gardenia jasminoides (pink bkgrd)	Rubiaceae	Fl A
3168	(90c)	Gardenia, Gardenia jasminoides (green bkgrd)	Rubiaceae	Fl A
3168a		Horiz coil pair (Sc#3167–68) (die cut 8 vert) (s/a)		
3169	(90c)	Gardenia, Gardenia jasminoides (pink bkgrd)	Rubiaceae	Fl A
3170	(90c)	Gardenia, Gardenia jasminoides (green bkgrd)	Rubiaceae	Fl A
3170a		Bklt/10+10 stickers (5ea Sc#3169-70) (die cut 13½) (s/a)		
CHINA	(Taiwan)	2018 October 31 (Taichung World Flora H	Exposition) (Set/4 &	& SS/3)
4442	\$6	Lily, <i>Lilium</i> sp.	Liliaceae	Fl U A
4443	\$8	Oncidium Orchid, Oncidium sp.	Orchidaceae	Fl U A
4444	\$9	Gladioli, Gladiolus sp.	Iridaceae	Fl U A
4445	\$28	Flamingo Flower, Anthurium andraeanum	Araceae	Fl A
4446a	SS \$13	Lily, <i>Lilium</i> sp. (w/ leopard cat mascot)	Liliaceae	Fl U B SS
4446b	SS \$15	Hygrophila, <i>Hygrophila</i> sp. (w/ leopard kitten mascot)	Acanthaceae	Fl U B SS
4446c	SS \$17	Butterfly Orchid (w/ leopard cat mascot)	Orchidaceae	Fl U B SS
CHINA	(People's			
4556	\$1.20	Pineapples, Ananas comosus	Bromeliaceae	Fr A
4557	\$1.20	Cherries, Prunus avium	Rosaceae	Fr A
4558	\$1.20	Mangos, Mangifera indica	Anacardiaceae	Fr A
4559	\$1.50	Oranges, Citrus sinensis	Rutaceae	Fr A
ECUAI	OOR	2018 August 29 (12th Latin American Bot	tanical Congress) (S	SS/1)
2219	SS \$4	U/I Cactus (w/ hummingbird) (also on bkgrd)		FIVUZSS
		2018 December 11 (Scientific Contrib. Sa	n Francisco Univ.)	(MS/9)
2224d	\$1	Tiputinia foetida	Burmanniaceae	Fl A MS
2224f	\$1.50	Vaccinium floribundum	Ericaceae	Fr A MS

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4303a SS \$8 Guavas, <i>Psidium guajava</i> Myrtaceae Fr A SS 4303b SS \$8 Soursops, <i>Annona muricata</i> Annonaceae Fr A SS	4303a SS \$8 Guavas, Psidium guajava Myrtaceae Fr A SS A303b SS \$8 Soursops, Annona muricata Annonaceae Fr A SS INDIA 2018 January 8 (Central Plantation Crops Research Inst) (Set/2 & SS/2) 2990 5r Coconuts, Cocos nucifera (perf 13) Arecaceae Fr A SS Same species (syncopated perf 13) Arecaceae Fr A SS SS/2 (Sc#2990a & 2991a) INDONESIA 2016 September 24 (Spices) (Vert Strip/4) 2450a 3000r Nutmeg & Mace, Myristica fragrans Myristicaceae Fr A SS A3000r Indonesian Cinnamon, Cinnamomum burmannii Lauraceae V A SS/2 (Sc#290a & 290f Pepper, Piper nigrum Piperaceae Fr A SS Annonaceae Fr A SS Annonace	4303a SS \$8 Guavas, Psidium guajava Annonaceae Fr A SS SS \$8 Soursops, Annona muricata Annonaceae Fr A SS INDIA INDIA 2990 5r Coconuts, Cocos nucifera (perf 13) Arecaceae Fr A SS 2991b SS/2 (Sc#2990a & 2991a) INDONESIA 2450a 3000r Nutmeg & Mace, Myristica fragrans 2450b 3000r Indonesian Cinnamon, Cinnamomum burmannii 2450c 3000r Pepper, Piper nigrum Myrtaceae Fr A SS Annonaceae Fr A SS Anceaceae Fr A SS Ancea	4302c	\$6	Mangos, Mangifera indica	Anacardiaceae	Fr A MS			
4303b SS \$8 Soursops, Annona muricata Annonaceae Fr A SS	4303b SS \$8 Soursops, Annona muricata Annonaceae Fr A SS INDIA 2990 5r Coconuts, Cocos nucifera (perf 13) Arecaceae Fr A 2990a 5r Same species (syncopated perf 13) Arecaceae Fr A 2991b SS/2 (Sc#2990a & 2991a) INDONESIA 2016 September 24 (Spices) (Vert Strip/4) 2450a 3000r Nutmeg & Mace, Myristica fragrans Myristicaceae Fr A 2450b 3000r Indonesian Cinnamon, Cinnamomum burmannii Lauraceae V A 2450c 3000r Pepper, Piper nigrum Piperaceae Fr A	4303b SS \$8 Soursops, Annona muricata Annonaceae Fr A SS INDIA 2990 5r Coconuts, Cocos nucifera (perf 13) Arecaceae Fr A 2990a 5r Same species (syncopated perf 13) Arecaceae Fr A 2991b SS/2 (Sc#2990a & 2991a) INDONESIA 2450a 3000r Nutmeg & Mace, Myristica fragrans 2450b 3000r Indonesian Cinnamon, Cinnamomum burmannii Lauraceae V A 2450c 3000r Pepper, Piper nigrum Annonaceae Fr A SS/2 (Sct/2 SS/2) Arecaceae Fr A 4 (Spices) (Vert Strip/4) Lauraceae V A Piperaceae Fr A	4302d	\$6	Starfruit, Averrhoa carambola	Oxalidaceae	Fr A MS			
	INDIA2018 January 8 (Central Plantation Crops Research Inst) (Set/2 & SS/2)29905rCoconuts, Cocos nucifera (perf 13)ArecaceaeFr A2990a5rSame species (syncopated perf 13)ArecaceaeFr A2991bSS/2 (Sc#2990a & 2991a)INDONESIA2016 September 24 (Spices) (Vert Strip/4)2450a3000rNutmeg & Mace, Myristica fragransMyristicaceaeFr A2450b3000rIndonesian Cinnamon, Cinnamomum burmanniiLauraceaeV A2450c3000rPepper, Piper nigrumPiperaceaeFr A	INDIA2018 January 8 (Central Plantation Crops Research Inst) (Set/2 & SS/2)29905rCoconuts, Cocos nucifera (perf 13)ArecaceaeFr A2990a5rSame species (syncopated perf 13)ArecaceaeFr A2991bSS/2 (Sc#2990a & 2991a)INDONESIA2016 September 24 (Spices) (Vert Strip/4)2450a3000rNutmeg & Mace, Myristica fragransMyristicaceaeFr A2450b3000rIndonesian Cinnamon, Cinnamomum burmanniiLauraceaeV A2450c3000rPepper, Piper nigrumPiperaceaeFr A	4303a	SS \$8	e •	Myrtaceae	Fr A SS			
INDIA 2018 January 8 (Central Plantation Crops Research Inst) (Set/2 & SS/2)	2990 5r Coconuts, Cocos nucifera (perf 13) Arecaceae Fr A 2990a 5r Same species (syncopated perf 13) Arecaceae Fr A 2991b SS/2 (Sc#2990a & 2991a) INDONESIA 2016 September 24 (Spices) (Vert Strip/4) 2450a 3000r Nutmeg & Mace, Myristica fragrans Myristicaceae Fr A 2450b 3000r Indonesian Cinnamon, Cinnamomum burmannii Lauraceae V A 2450c 3000r Pepper, Piper nigrum Piperaceae Fr A	2990 5r Coconuts, Cocos nucifera (perf 13) Arecaceae Fr A 2990a 5r Same species (syncopated perf 13) Arecaceae Fr A 2991b SS/2 (Sc#2990a & 2991a) INDONESIA 2016 September 24 (Spices) (Vert Strip/4) 2450a 3000r Nutmeg & Mace, Myristica fragrans Myristicaceae Fr A 2450b 3000r Indonesian Cinnamon, Cinnamomum burmannii Lauraceae V A 2450c 3000r Pepper, Piper nigrum Piperaceae Fr A	4303b	SS \$8	Soursops, Annona muricata	Annonaceae	Fr A SS			
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	2991b SS/2 (Sc#2990a & 2991a) INDONESIA 2016 September 24 (Spices) (Vert Strip/4) 2450a 3000r Nutmeg & Mace, Myristica fragrans Myristicaceae Fr A 2450b 3000r Indonesian Cinnamon, Cinnamomum burmannii Lauraceae V A 2450c 3000r Pepper, Piper nigrum Piperaceae Fr A	2991b SS/2 (Sc#2990a & 2991a) INDONESIA 2016 September 24 (Spices) (Vert Strip/4) 2450a 3000r Nutmeg & Mace, Myristica fragrans Myristicaceae Fr A 2450b 3000r Indonesian Cinnamon, Cinnamomum burmannii Lauraceae V A 2450c 3000r Pepper, Piper nigrum Piperaceae Fr A	2990	5r	*		•			
	2991b SS/2 (Sc#2990a & 2991a) INDONESIA 2016 September 24 (Spices) (Vert Strip/4) 2450a 3000r Nutmeg & Mace, Myristica fragrans Myristicaceae Fr A 2450b 3000r Indonesian Cinnamon, Cinnamomum burmannii Lauraceae V A 2450c 3000r Pepper, Piper nigrum Piperaceae Fr A	2991b SS/2 (Sc#2990a & 2991a) INDONESIA 2016 September 24 (Spices) (Vert Strip/4) 2450a 3000r Nutmeg & Mace, Myristica fragrans Myristicaceae Fr A 2450b 3000r Indonesian Cinnamon, Cinnamomum burmannii Lauraceae V A 2450c 3000r Pepper, Piper nigrum Piperaceae Fr A				Arecaceae	Fr A			
2991b SS/2 (Sc#2990a & 2991a)	2450a3000rNutmeg & Mace, Myristica fragransMyristicaceaeFr A2450b3000rIndonesian Cinnamon, Cinnamomum burmanniiLauraceaeV A2450c3000rPepper, Piper nigrumPiperaceaeFr A	2450a3000rNutmeg & Mace, Myristica fragransMyristicaceaeFr A2450b3000rIndonesian Cinnamon, Cinnamomum burmanniiLauraceaeV A2450c3000rPepper, Piper nigrumPiperaceaeFr A	2991b		SS/2 (Sc#2990a & 2991a)					
INDONESIA 2016 September 24 (Spices) (Vert Strip/4)	2450b 3000r Indonesian Cinnamon, <i>Cinnamomum burmannii</i> Lauraceae V A 2450c 3000r Pepper, <i>Piper nigrum</i> Piperaceae Fr A	2450b 3000r Indonesian Cinnamon, <i>Cinnamomum burmannii</i> Lauraceae V A 2450c 3000r Pepper, <i>Piper nigrum</i> Piperaceae Fr A	INDONE	ESIA	2016 September 24 (Spices) (Vert Strip/4)					
·	2450c 3000r Pepper, <i>Piper nigrum</i> Piperaceae Fr A	2450c 3000r Pepper, <i>Piper nigrum</i> Piperaceae Fr A	2450a	3000r	Nutmeg & Mace, Myristica fragrans	Myristicaceae				
·						Lauraceae	V A			
2450c 3000r Pepper, <i>Piper nigrum</i> Piperaceae Fr A	A 1 # 0 1	2450d 3000r Cloves, Syzygium aromaticum Myrtaceae Fr A			11 7 1 0	•				
	2450d 3000r Cloves, Syzygium aromaticum Myrtaceae Fr A		2450d	3000r	Cloves, Syzygium aromaticum	Myrtaceae	Fr A			

INDONES	SIA (con	tinued) 2017 May 18 (200th anniv. Bogor Botanica	al Garden) (Sheet/	34 & SS/1)		
2462a	3000r	Coelogyne mayeriana	Orchidaceae	Fl A		
2462b	3000r	Vanda sumatrana	Orchidaceae	Fl A		
2462c	3000r	Cymbidium ensifolium	Orchidaceae	Fl A		
2462d	3000r	Coelogyne rochussenii	Orchidaceae	Fl A		
2462e	3000r	Aerides odorata	Orchidaceae	Fl A		
2462f	3000r	Bulbophyllum flabellum-veneris	Orchidaceae	Fl A		
2462g	3000r	Paphiopedilum tonsum	Orchidaceae	Fl A		
2462h	3000r	Papilionanthe hookeriana	Orchidaceae	Fl A		
2462i	3000r	Bulbophyllum medusae	Orchidaceae	Fl A		
2462j	3000r	Phalaenopsis cornu-cervi	Orchidaceae	Fl A		
2462k	3000r	Dendrobium crumenatum	Orchidaceae	Fl A		
24621	3000r	Phalaenopsis javanica	Orchidaceae	Fl A		
2462m	3000r	Rhynchostylis retusa	Orchidaceae	Fl A		
2462n	3000r	Thrixspermum centipeda	Orchidaceae	Fl A		
2462o	3000r	Vanda tricolor	Orchidaceae	Fl A		
2462p	3000r	Acanthephippium javanicum	Orchidaceae	Fl A		
2462q	3000r	Dendrobium secundum	Orchidaceae	Fl A		
2462r	3000r	Vanda limbata	Orchidaceae	Fl A		
2462s	3000r	Vanda insignis	Orchidaceae	Fl A		
2462t	3000r	Bulbophyllum beccarii	Orchidaceae	Fl A		
2462u	3000r	Coelogyne pandurata	Orchidaceae	Fl A		
2462v	3000r	Paphiopedilum supardii	Orchidaceae	Fl A		
2462w		Phalaenopsis gigantea	Orchidaceae	Fl A		
2462x		Paraphalaenopsis labukensis	Orchidaceae	Fl A		
2462y	3000r	Aerides huttonii	Orchidaceae	Fl A		
2462z	3000r	Grammatophyllum scriptum	Orchidaceae	Fl A		
2462aa	3000r	Dendrobium anosmum	Orchidaceae	Fl A		
2462ab	3000r	Dendrobium smillieae	Orchidaceae	Fl A		
2462ac	3000r	Dendrobium utile	Orchidaceae	Fl A		
2462ad	3000r	Dendrobium bracteosum	Orchidaceae	Fl A		
2462ae	3000r	Bulbophyllum graveolens	Orchidaceae	Fl A		
2462af		Dendrobium macrophyllum	Orchidaceae	Fl A		
2462ag		Paphiopedilum glanduliferum	Orchidaceae	Fl A		
2462ah		Grammatophyllum speciosum	Orchidaceae	Fl A		
2463 SS		Coelogyne marthae	Orchidaceae	Fl A SS		
	2017 August 8 (50th anniv. ASEAN) (Single)					
2469	5000r	Arabian Jasmine, <i>Jasminum sambac</i>	Oleaceae	Fl A		
		2017 October 16 (Fruit) (Block/4 & MS/4)				
2473a	3000r	Rambutan, Nephelium lappaceum	Sapindaceae	Fr A		
2473a 2473b	3000r	· 1	Clusiaceae	Fr A		
		Mangosteen, Garcinia mangostana		Fr A		
2473c 2473d	3000r	Coconuts, Cocos nucifera Valloy, During Pravio argueologo	Arecaceae Malvaceae	Fr A		
2473u 2474a		Yellow Durian, <i>Durio graveolens</i>				
	5000r	Rambutan, Nephelium lappaceum Mangastaan Ganinia mangastana	Sapindaceae	Fr A		
2474b	5000r	Mangosteen, Garcinia mangostana	Clusiaceae	Fr A		
2474c	5000r	Coconuts, Cocos nucifera Valloy, During During argueology	Arecaceae	Fr A		
2474d	SUUUr	Yellow Durian, Durio graveolens	Malvaceae	Fr A		
ISRAEL	2.50	2018 December 4 (Trees) (Set/3 w/ tabs)	T. 1			
2205	2.50s	Judas Tree, Cercis siliquastrum	Fabaceae	TA		
2206	2.50s	Mount Tabor Oak, Quercus ithaburensis	Fagaceae	TA		
2207	2.50s	Greek Strawberry Tree, Arbutus andrachne	Ericaceae	TΑ		

JAPAN		2018, June 1 (Summer Greetings) (MS/10))	
4208e	62¥	Watermelon, Citrullus lanatus	Cucurbitaceae	Fr A
		2018, June 6 (69th National Plantation Fe	stival) (MS/10)	
4210a	62¥	Rhododendrons, <i>Rhododendron</i> sp.	Ericaceae	Fl U A
4210b	62¥	Day Lilies, <i>Hemerocallis</i> sp.	Xanthorrheaceae	Fl U A
4210c	62¥	Peach blossoms, <i>Prunus persica</i>	Rosaceae	Fl A
4210d	62¥	Arrowleaf False Pickerelweed, Monochoria hastata	Pontederiaceae	Fl A
4210e	62¥	Japanese Black Pine, <i>Pinus thunbergii</i>	Pinaceae	Fr A
4210f	62¥	Mountain Cherry blossoms, Prunus serotina	Rosaceae	Fl A
4210g	62¥	Weeping Cherry blossoms, Prunus pendula	Rosaceae	Fl A
4210h	62¥	Itajii Chinquapin, Castanopsis sieboldii	Fagaceae	Fl A
4210i	62¥	Japanese Zelkova, Zelkova serrata	Ulmaceae	Fl A
4210j	62¥	Yeddo Hawthorn, Rhaphiolepis indica var. umbellata	Rosaceae	Fl A
		2018, June 13 (Greetings: Flowers in Dail	y Life) (2ea MS/10)
4211a-j	62¥	Stylized flowers		Fl S
4212a–j	82¥	Stylized flowers		Fl S
		2018 August 23 (Autumn Greetings) (2ea	MS/10)	
4225a	62¥	Red Maple leaves, <i>Acer</i> sp.	Sapindaceae	V U A
4225c		Grapes, Vitis vinifera	Vitaceae	Fr A
4225d		U/I blossoms on tree branch		Fl U A
4225f	62¥	U/I leaves changing color		V U A
4225g	62¥	U/I red, yellow, and orange leaves		V U A
4225h	62¥	U/I flowers & leaves		V U A
4225j	62¥	Acorns, Quercus sp.	Fagaceae	Fr A
4225	Margin	Bkgrd: Ginkgo biloba (leaf silhouettes)	Ginkgoaceae	V Z MS
4226b	82¥	Red Maple tree, Acer sp.	Sapindaceae	ΤA
4226c	82¥	U/I flowers		Fl U A
4226f	82¥	U/I leaves		V U A
4226g	82¥	Chestnuts, Castanea crenata	Fagaceae	Fr A
4226h	82¥	Pumpkin soup, Cucurbita pepo	Cucurbitaceae	Fr A
4226i	82¥	Gourds, Cucurbita pepo	Cucurbitaceae	Fr A
4226j	82¥	U/I flowers		Fl U A
4226	Margin	Bkgrd: Acer sp. (leaf silhouettes)	Sapindaceae	V Z MS
		2018 October 9 (Intl. Letter Writing Wee	k/Art by Hiroshige)	(Vert Pair)
4242	70¥	Camellia, Camellia japonica (Camellias with Small Birds)	Theaceae	Fl A
4243	70¥	Camellia, Camellia japonica (Camellias with Small Birds)	Theaceae	Fl B
4243a		Vert Pair (Sc#4242–43)		
		2018 October 17 (Gifts from the Forest Se	eries 2) (2ea MS/10)	
4247a	62¥	Stylized fruit hanging from tree		Fr S
4247c	62¥	Stylized berries		Fr S
4247d	62¥	Stylized flowers		Fl S
4248a	82¥	Stylized flowers, Camellia japonica	Theaceae	Fl S
4248b	82¥	Stylized flowers		Fl S
4248d	82¥	Stylized flowers & tree		Fl T S
4248g	82¥	Stylized vine		V S
4248h	82¥	Stylized berries		Fr S
		2018 November 14 (Winter Greetings) (2	ea MS/10)	
4257a-j		U/I flowers & fruit in glass containers		Fl Fr U A
4258a–j	82¥	U/I flowers & fruit in glass containers		Fl Fr U A

August A	JAPA	N (continued	2018 December 14 (2ea MS/10)		
4267b 62¥ Roses, Rosa × hybrida Rosecae FI A 4267c 62¥ Narcissus, Narcissus poeticus Amaryllidacee FI A 4267d 62¥ Natodinis, Adonis annua Ranunculaceae FI A 4267e 62¥ Showdrops, Galanthus nivalis Amaryllidaceae FI A 4268a 82¥ Roses, Rosa × hybrida Rosaceae FI A 4268b 82¥ Fuchsias, Fuchsia sp. Onagraceae FI A 4268c 82¥ Nemophila or Baby Blue Eyes, Nemophila menziesii Boraginaceae FI A 4268c 82¥ Christmas Roses, Helleborus niger Ranunculaceae FI A 4268c 82¥ Christmas Roses, Helleborus niger Rosaceae FI A 8428 Stoute Vill Apricot, Prunus armeniaca (=Armeniaca vulgaris) Rosaceae FI A 875a S 250te Vill Glover sprouting through crack in army helmet FI Que FI A 887b 208 Stauce (Armeniaca vulgaris) Rosaceae FI A 887c 208 Stauce (Armeniaca				Liliaceae	Fl B
Agama Aga			Sweet Peas, Lathyrus odoratus	Fabaceae	Fl B
Act Act	4267b	62¥	Roses, $Rosa \times hybrida$	Rosaceae	Fl A
4268	4267c	62¥	Narcissus, Narcissus poeticus	Amaryllidaceae	Fl A
A268a	4267d	62¥	Adonis, Adonis annua	Ranunculaceae	Fl A
4268b 82Y Roses, Rosa × hybrida Rosaceae F1 A 4268c 82Y Fuchsias, Fuchsia sp. Onagraceae F1 A 4268c 82Y Christmas Roses, Helleborus niger Ranunculaceae F1 A KAZAKHSTAN 2018 October 26 (Endangered Trees) (SSZ)* 875a 8S 250te Wild Apricot, Pranus armeniaca ca (=Armeniaca vulgaris) Rosaceae Fr A SS KOREA (South) 2018 June 25 (Nature in the Demilitarized Zone) (Pair) F1 A 2523a 30w U/I flowers sprouting through crack in army helme F1 A KYRGYZSTAN 2018 October 13 (Roses) (Set/4 & SS/4) 582 20s Indigoletta Hybrid Tea Roses, Rosa × hybrida Rosaceae F1 A 583 48s Nicole Roses, Rosa × hybrida Rosaceae F1 A 584 55s F1 Chibunda Roses, Rosa × damascena Rosaceae F1 A 585 83 Damask Roses, Rosa × damascena Rosaceae F1 A LUXEMBOUG Cedar Tree, Cedrus libani Pina ceae F A 1504 (95c)	4267e	62¥	Snowdrops, Galanthus nivalis	Amaryllidaceae	Fl A
4268c	4268a	82¥	Cherry blossoms, <i>Prunus mume</i>	Rosaceae	Fl A
A268d 82\t	4268b	82¥	Roses, $Rosa \times hybrida$	Rosaceae	Fl A
Rannuculaceae Fi A Rannuculaceae Fi	4268c	82¥		Onagraceae	Fl U A
RAZA×HSTAN 2018 October 26 (Endangered Trees) (SS/2) Rosaceae Fr A SS 875a SS 250te Wild Apricot, Prunus armeniaca (=Armeniaca vulgaris) Rosaceae Fr A SS KOREX South 2018 June 25 (Nature in the Demilitarized Zone) (Pair) E10	4268d	82¥	<u> </u>	Boraginaceae	Fl A
875a SS 250te 875b Wild Apricot, Prunus armeniaca (=Armeniaca vulgaris) Rosaceae Fr A SS Rosaceae Fr A SS South 2018 June 25 (Nature in the Demilitarized Zone) (Pair) 218 South 2523a 330w U/I flowers sprouting through crack in army helmet FI U I B KYRGYZSTAN 2018 October 13 (Roses) (Set/4 & SS/4) 582 208 Indigoletta Hybrid Tea Roses, Rosa × hybrida Rosaceae FI A 583 488 Nicole Roses, Rosa × hybrida Rosaceae FI A 585 8 Damask Roses, Rosa × hybrida Rosaceae FI A 585 8 Damask Roses, Rosa × damascena Rosaceae FI A 585 8 Damask Roses, Rosa × hybrida Rosaceae FI A LEBAND Videracea PI A LEBAND Videracea FI A <tr< td=""><td>4268e</td><td>82¥</td><td>Christmas Roses, Helleborus niger</td><td>Ranunculaceae</td><td>Fl A</td></tr<>	4268e	82¥	Christmas Roses, Helleborus niger	Ranunculaceae	Fl A
KS 300te Korr South 2018 June 25 (Nature in the Demilitarized Zone) (Pair) FI UB KYRGY STAN 2018 October 13 (Rosse) (Set/4 & SS/4) KYRGY STAN 2018 October 13 (Rosse) (Set/4 & SS/4) 582 208 Indigoletta Hybrid Tea Rosses, Rosa × hybrida Rosaceae FI A 583 488 Nicole Roses, Rosa × hybrida Rosaceae FI A 585 Poribunda Roses, Rosa × hybrida Rosaceae FI A 585 Poribunda Roses, Rosa × hybrida Rosaceae FI A 585 Poribunda Roses, Rosa × hybrida Rosaceae FI A 585 Poribunda Roses, Rosa × hybrida Rosaceae FI A 585 Poribunda Roses, Rosa × hybrida Rosaceae FI A LUXEMBOURG 2018 December 4 (Plum Varieties) (Bklt/10) VéhiteBourd Posaceae <th< td=""><td>KAZA</td><td>AKHSTAN</td><td>2018 October 26 (Endangered Trees) (SS/</td><td>2)</td><td></td></th<>	KAZA	AKHSTAN	2018 October 26 (Endangered Trees) (SS/	2)	
KORE	875a	SS 250te	Wild Apricot, Prunus armeniaca (=Armeniaca vulgaris)	Rosaceae	Fr A SS
E7523a 330w U/I flowers sprouting through crack in army helmet FI UB KYRGYZSTAN 2018 October 13 (Rosses) (Set/4 & SS/4) 582 208 Indigoletta Hybrid Tea Rosse, Rosa × hybrida Rosaceae FI A 583 488 Nicole Roses, Rosa × hybrida Rosaceae FI A 585 838 Ploribunda Roses, Rosa × damascena Rosaceae FI A 585a 838 Damask Roses, Rosa × damascena Rosaceae FI A 585a 838 Damask Roses, Rosa × damascena Rosaceae FI A 801 £10000 Cedar Tree, Cedrus libani Pinaceae T A LUXEMBOURG Wénkelcher, Prunus domestica Rosaceae Fr A 1504 (95c) Kooupanz, Prunus domestica Rosaceae Fr A 1505 (95c) Duederer, Prunus domestica Rosaceae Fr A 1507 (95c) Prenzenpromm, Prunus domestica Rosaceae Fr A 1508 (95c) Riesling, Vitis vinifera Vitaceae Fr A <td>875b</td> <td>SS 300te</td> <td>Prunus (=Louiseania) ulmifolia</td> <td>Rosaceae</td> <td>Fr A SS</td>	875b	SS 300te	Prunus (=Louiseania) ulmifolia	Rosaceae	Fr A SS
FI UB KYRGYZSTAN 2018 October 13 (Roses) (Set/4 & SS/4) 582 208 Indigoletta Hybrird Tea Roses, Rosa × hybrida Rosaceae FI A 583 488 Nicole Roses, Rosa × hybrida Rosaceae FI A 584 558 Floribunda Roses, Rosa × hybrida Rosaceae FI A 585 838 Damask Roses, Rosa × damascena Rosaceae FI A 585 838 Damask Roses, Rosa × damascena Rosaceae FI A 8501 £10000 Cedar Tree, Cedrus libani Pinaceae T A LUXEMDURG 2018 November 19 (75th anniv. Independence) (Single) 1504 (95c) Kodekleher, Prunus domestica Rosaceae T A 1505 (95c) Wéńkelcher, Prunus domestica Rosaceae Fr A 1506 (95c) Duederer, Prunus domestica Rosaceae Fr A 1507 (95c) Prenzenpromm, Prunus domestica Rosaceae Fr A 1508a 95c) Riesling, Vitis vinifera Vitaceae Fr A	KOR	EA (South)	2018 June 25 (Nature in the Demilitarized	Zone) (Pair)	
582 20s Indigoletta Hybrid Tea Roses, Rosa × hybrida Rosaceae FI A 583 48s Nicole Roses, Rosa × hybrida Rosaceae FI A 584 55s Floribunda Roses, Rosa × hybrida Rosaceae FI A 585 83s Damask Roses, Rosa × damascena Rosaceae FI A 585a SS/4 (Sc#582–85) Cedar Tree, Cedrus libani Pinaceae T A LUEBANON 2018 November 19 (75th anniv. Independence) (Single) Cedar Tree, Cedrus libani Pinaceae T A LUXEMBOURG 1504 (95c) Cedar Tree, Cedrus libani Pinaceae T A LUXEMBOURG Wénkelcher, Prunus domestica Rosaceae Fr A 1505 (95c) Sobs Koupanz, Prunus domestica Rosaceae Fr A 1506 (95c) Duederer, Prunus domestica Rosaceae Fr A 1508 (95c) Residence, Prunus domestica Rosaceae Fr A 1508 (95c) Relita (Grape Varieties of the Moselle Region) (Set/4)	2523a	330w		, , ,	Fl U B
582 20s Indigoletta Hybrid Tea Roses, Rosa × hybrida Rosaceae FI A 583 48s Nicole Roses, Rosa × hybrida Rosaceae FI A 584 55s Floribunda Roses, Rosa × hybrida Rosaceae FI A 585 83s Damask Roses, Rosa × damascena Rosaceae FI A 585a SS/4 (Sc#582–85) Cedar Tree, Cedrus libani Pinaceae T A LUEBANON 2018 November 19 (75th anniv. Independence) (Single) Cedar Tree, Cedrus libani Pinaceae T A LUXEMBOURG 1504 (95c) Cedar Tree, Cedrus libani Pinaceae T A LUXEMBOURG Wénkelcher, Prunus domestica Rosaceae Fr A 1505 (95c) Sobs Koupanz, Prunus domestica Rosaceae Fr A 1506 (95c) Duederer, Prunus domestica Rosaceae Fr A 1508 (95c) Residence, Prunus domestica Rosaceae Fr A 1508 (95c) Relita (Grape Varieties of the Moselle Region) (Set/4)	KYRO	GYZSTAN	2018 October 13 (Roses) (Set/4 & SS/4)		
583 48s Nicole Roses, Rosa × hybrida Rosaceae FI A 584 55s Floribunda Roses, Rosa × hybrida Rosaceae FI A 585 83s Damask Roses, Rosa × damascena Rosaceae FI A 585 83s Damask Roses, Rosa × damascena Rosaceae FI A 587 \$SX/4 (Sc#582-85) FI A LEBANON 2018 November 19 (75th anniv. Independence) (Single) ***********************************				Rosaceae	Fl A
584 55s Floribunda Roses, Rosa × hybrida Rosaceae Fl A 585 83s Damask Roses, Rosa × damascena Rosaceae Fl A 585a SS/4 (Sc#582-85) Fl A 585a \$S/4 (Sc#582-85) Fl A 801 £10000 £0000 Cedar Tree, Cedrus libani Pinaceae T A LUXEMBOURG 2018 December 4 (Plum Varieties) (Bklt/10) 1504 (95c) Wénkelcher, Prunus domestica Rosaceae Fr A 1505 (95c) Duederer, Prunus domestica Rosaceae Fr A 1507 (95c) Duederer, Prunus domestica Rosaceae Fr A 1508 (95c) Viaceae Fr A 1508 (95c) Karschnatzpromm, Prunus domestica Rosaceae Fr A 1508 (95c) Karschnatzpromm, Prunus domestica Rosaceae Fr A 1508 (95c) Karschnatzpromm, Prunus domestica Rosaceae Fr A 8519 95c+10c Risaling, Vitis vinifera Vitaceae Fr A			•		
585 83s Damask Roses, Rosa × damascena Rosaceae FI A 585a SS/4 (Sc#582-85) FI A LEBANON 2018 November 19 (75th anniv. Independence) (Single) T A LUXEMBOURG Cedar Tree, Cedrus libani Pinaceae T A LUXEMBOURG 2018 December 4 (Plum Varieties) (Bklt/10) T A 1504 (95c) Wénkelcher, Prunus domestica Rosaceae Fr A 1505 (95c) Louederer, Prunus domestica Rosaceae Fr A 1506 (95c) Duederer, Prunus domestica Rosaceae Fr A 1507 (95c) Pernzenpromm, Prunus domestica Rosaceae Fr A 1508 (95c) Karschnatzpromm, Prunus domestica Rosaceae Fr A 1508 (95c) Pernzenpromm, Prunus domestica Rosaceae Fr A 1509 (95c) Prenzenpromm, Prunus domestica Rosaceae Fr A 1508 795c Riskl*/10 (2ea Sc#1504-08) Vitaceae Fr A B518 70c+5c Riskl*/10 (2ea Sc#1504-08) Vitaceae<			· · · · · · · · · · · · · · · · · · ·		
SS/4 (Sc#582–85) LEBANON Codar Tree, Cedrus libani Pinaceae T A LUXEMBOURG Codar Tree, Cedrus libani Pinaceae T A LUXEMBOURG Codar Tree, Cedrus libani Pinaceae F A LUXEMBOURG Wefinkelcher, Prunus domestica Rosaceae Fr A 1504 (95c) Wefinkelcher, Prunus domestica Rosaceae Fr A 1506 (95c) Duederer, Prunus domestica Rosaceae Fr A 1508 (95c) Karschnatzpromm, Prunus domestica Rosaceae Fr A 1508 (95c) Karschnatzpromm, Prunus domestica Rosaceae Fr A 1508 70c+5c Riseling, Vitis vinifera Vitaceae Fr A B518 70c+5c Riesling, Vitis vinifera Vitaceae Fr A B519 95c+10c Rivaner, Vitis vinifera			•		
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1506 (95c) Duederer, Prunus domestica Rosaceae Fr A 1507 (95c) Prenzenpromm, Prunus domestica Rosaceae Fr A 1508 (95c) Karschnatzpromm, Prunus domestica Rosaceae Fr A 1508a Bklt/10 (2ea Sc#1504-08) Fr A 2018 December 4 (Grape Varieties of the Moselle Region) (Set/4) B518 70c+5c Riesling, Vitis vinifera Vitaceae Fr A B519 95c+10c Pinot Gris, Vitis vinifera Vitaceae Fr A B520 €1.30+10c Rivaner, Vitis vinifera Vitaceae Fr A B521 €1.40+25c Auxerrois, Vitis vinifera Vitaceae Fr A MACAO 2018 October 9 (Birdsong & Flower Scents) (Block/4 & SS/1) 1537 2p Apricot blossoms, Prunus armeniaca Rosaceae Fl A 1538 3p U/I flowers Fl U A 1540 5.50p Peonies, Paeonia sp. Paeoniaceae Fl A 1541 SS 12p U/I flowers Fl U B MALAYSIA					Fr A
1506 (95c) Duederer, Prunus domestica Rosaceae Fr A 1507 (95c) Prenzenpromm, Prunus domestica Rosaceae Fr A 1508 (95c) Karschnatzpromm, Prunus domestica Rosaceae Fr A 1508a Bklt/10 (2ea Sc#1504-08) Fr A 2018 December 4 (Grape Varieties of the Moselle Region) (Set/4) B518 70c+5c Riesling, Vitis vinifera Vitaceae Fr A B519 95c+10c Pinot Gris, Vitis vinifera Vitaceae Fr A B520 €1.30+10c Rivaner, Vitis vinifera Vitaceae Fr A B521 €1.40+25c Auxerrois, Vitis vinifera Vitaceae Fr A MACAO 2018 October 9 (Birdsong & Flower Scents) (Block/4 & SS/1) 1537 2p Apricot blossoms, Prunus armeniaca Rosaceae Fl A 1538 3p U/I flowers Fl U A 1540 5.50p Peonies, Paeonia sp. Paeoniaceae Fl A 1541 SS 12p U/I flowers Fl U B MALAYSIA	1505	(95c)	Koupanz, Prunus domestica	Rosaceae	Fr A
1508 (95c) Karschnatzpromm, Prunus domestica Rosaceae Fr A 1508a 2018 December 4 (Grape Varieties of the Moselle Region) (Set/4) Estable 10 (20 a Sc#1504–08) 2018 December 4 (Grape Varieties of the Moselle Region) (Set/4) B518 70c+5c Riesling, Vitis vinifera Vitaceae Fr A B519 95c+10c Pinot Gris, Vitis vinifera Vitaceae Fr A B520 €1.30+10c Rivaner, Vitis vinifera Vitaceae Fr A B521 €1.40+25c Auxerrois, Vitis vinifera Vitaceae Fr A MACAO 20 Apricot blossoms, Prunus armeniaca Rosaceae Fl A 1537 2p Apricot blossoms, Prunus armeniaca Rosaceae Fl A 1539 4.50p Peonies, Paeonia sp. Paeoniaceae Fl A 1540 55.0p U/I flowers Paeoniaceae Fl D B MALAYSIA (Kedab) 2018 December 4 (Wild	1506	(95c)	•	Rosaceae	Fr A
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2018 December 4 (Grape Varieties of the Moselle Region) (Set/4) B518 70c+5c Riesling, Vitis vinifera Vitaceae Fr A B519 95c+10c Pinot Gris, Vitis vinifera Vitaceae Fr A B520 €1.30+10c Rivaner, Vitis vinifera Vitaceae Fr A B521 €1.40+25c Auxerrois, Vitis vinifera Vitaceae Fr A MACAO 2018 October 9 (Birdsong & Flower Scents) (Block/4 & SS/1) 1537 2p Apricot blossoms, Prunus armeniaca Rosaceae Fl A 1538 3p U/I flowers Fl U A 1539 4.50p Peonies, Paeonia sp. Paeoniaceae Fl A 1540 5.50p U/I flowers Fl U B 1541 SS 12p U/I flowers Fl U B MALAYSIA (Kedah) 2018 December 4 (Wild Orchids, Arms, & Portrait) (MS/6) 213a 5c Greenish Bulbophyllum, Bulbophyllum virescens Orchidaceae Fl A MS 213b 10c Corybas carinatus Orchidaceae Fl A MS 213c <td< td=""><td>1508</td><td></td><td></td><td>Rosaceae</td><td>Fr A</td></td<>	1508			Rosaceae	Fr A
B518 70c+5c Riesling, Vitis vinifera Vitaceae Fr A B519 95c+10c Pinot Gris, Vitis vinifera Vitaceae Fr A B520 €1.30+10c Rivaner, Vitis vinifera Vitaceae Fr A B521 €1.40+25c Auxerrois, Vitis vinifera Vitaceae Fr A MACAO 2018 October 9 (Birdsong & Flower Scents) (Block/4 & SS/1) 1537 2p Apricot blossoms, Prunus armeniaca Rosaceae Fl A 1538 3p U/I flowers Fl U A 1539 4.50p Peonies, Paeonia sp. Paeoniaceae Fl A 1540 5.50p U/I flowers Fl U B 1541 SS 12p U/I flowers Fl U B SS MALAYSIA (Kedah) 2018 December 4 (Wild Orchids, Arms, & Portrait) (MS/6) 213a 5c Greenish Bulbophyllum, Bulbophyllum virescens Orchidaceae Fl A MS 213b 10c Corybas carinatus Orchidaceae Fl A MS 213c 20c Griffith's Vanilla, Vanilla griffithii Orchid	1508a		Bklt/10 (2ea Sc#1504–08)		
B519 95c+10c Pinot Gris, Vitis vinifera Vitaceae Fr A B520 €1.30+10c Rivaner, Vitis vinifera Vitaceae Fr A B521 €1.40+25c Auxerrois, Vitis vinifera Vitaceae Fr A MAC → 1 2018 October 9 (Birdsong & Flower Scents) (Block/4 & SS/1) 1537 2p Apricot blossoms, Prunus armeniaca Rosaceae Fl A 1538 3p U/I flowers Fl U A 1539 4.50p Peonies, Paeonia sp. Paeoniaceae Fl A 1540 5.50p U/I flowers Fl U B 1541 SS 12p U/I flowers Fl U B MALAYSIA (Ked ★) 2018 December 4 (Wild Orchids, Arms, & Portrait) (MS/6) 213a 5c Greenish Bulbophyllum, Bulbophyllum virescens Orchidaceae Fl A MS 213b 10c Corybas carinatus Orchidaceae Fl A MS 213c 20c Griffith's Vanilla, Vanilla griffithii Orchidaceae Fl A MS			2018 December 4 (Grape Varieties of the I	Moselle Region) (Se	et/4)
B520€1.30+10cRivaner, Vitis viniferaVitaceaeFr AB521€1.40+25cAuxerrois, Vitis viniferaVitaceaeFr AMACAO2018 October 9 (Birdsong & Flower Scents) (Block/4 & SS/1)15372pApricot blossoms, Prunus armeniacaRosaceaeFl A15383pU/I flowersFl U A15394.50pPeonies, Paeonia sp.PaeoniaceaeFl A15405.50pU/I flowersFl U B1541SS 12pU/I flowersFl U B1541SS 12pU/I flowersFl U BMALAYSIA (Kedah)2018 December 4 (Wild Orchids, Arms, & Portrait) (MS/6)213a5cGreenish Bulbophyllum, Bulbophyllum virescensOrchidaceaeFl A MS213b10cCorybas carinatusOrchidaceaeFl A MS213c20cGriffith's Vanilla, Vanilla griffithiiOrchidaceaeFl A MS	B518	70c+5c	Riesling, Vitis vinifera	Vitaceae	Fr A
B521 €1.40+25cAuxerrois, Vitis viniferaVitaceaeFr AMACAO2018 October 9 (Birdsong & Flower Scents) (Block/4 & SS/1)15372pApricot blossoms, Prunus armeniacaRosaceaeFl A15383pU/I flowersFl U A15394.50pPeonies, Paeonia sp.PaeoniaceaeFl A15405.50pU/I flowersFl U B1541SS 12pU/I flowersFl U B SSMALAYSIA (Kedah)2018 December 4 (Wild Orchids, Arms, & Portrait) (MS/6)213a5cGreenish Bulbophyllum, Bulbophyllum virescensOrchidaceaeFl A MS213b10cCorybas carinatusOrchidaceaeFl A MS213c20cGriffith's Vanilla, Vanilla griffithiiOrchidaceaeFl A MS	B519	95c+10c	Pinot Gris, Vitis vinifera	Vitaceae	Fr A
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15372pApricot blossoms, Prunus armeniacaRosaceaeFl A15383pU/I flowersFl U A15394.50pPeonies, Paeonia sp.PaeoniaceaeFl A15405.50pU/I flowersFl U B1541SS 12pU/I flowersFl U B SSMALAYSIA (Kedah)2018 December 4 (Wild Orchids, Arms, & Portrait) (MS/6)213a5cGreenish Bulbophyllum, Bulbophyllum virescensOrchidaceaeFl A MS213b10cCorybas carinatusOrchidaceaeFl A MS213c20cGriffith's Vanilla, Vanilla griffithiiOrchidaceaeFl A MS	MACAO 2018 October 9 (Birdsong & Flower Scents) (Block/4 & SS/1)				
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1539 4.50p Peonies, Paeonia sp. Paeoniaceae FI A 1540 5.50p U/I flowers FI U B 1541 SS 12p U/I flowers FI U B SS MALAYSIA (Kedah) 2018 December 4 (Wild Orchids, Arms, & Portrait) (MS/6) 213a 5c Greenish Bulbophyllum, Bulbophyllum virescens Orchidaceae FI A MS 213b 10c Corybas carinatus Orchidaceae FI A MS 213c 20c Griffith's Vanilla, Vanilla griffithii Orchidaceae FI A MS		_	<u>-</u>		
1540 5.50p U/I flowers 1541 SS 12p U/I flowers MALAYSIA (Ked h) 2018 December 4 (Wild Orchids, Arms, & Portrait) (MS/6) 213a 5c Greenish Bulbophyllum, Bulbophyllum virescens Orchidaceae Fl A MS 213b 10c Corybas carinatus Corchidaceae Fl A MS 213c 20c Griffith's Vanilla, Vanilla griffithii Orchidaceae Fl A MS		•		Paeoniaceae	
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213b 10c Corybas carinatus Orchidaceae Fl A MS 213c 20c Griffith's Vanilla, Vanilla griffithii Orchidaceae Fl A MS	1541	5.50p SS 12p	U/I flowers U/I flowers		
213c 20c Griffith's Vanilla, <i>Vanilla griffithii</i> Orchidaceae Fl A MS	1541 MAL	5.50p SS 12p AYSIA (Ked	U/I flowers U/I flowers ah) 2018 December 4 (Wild Orchids, Arms, &	Portrait) (MS/6)	Fl U B SS
, 6 30	1541 MAL 213a	5.50p SS 12p AYSIA (Ked 5c	U/I flowers U/I flowers ah) 2018 December 4 (Wild Orchids, Arms, & Greenish Bulbophyllum, <i>Bulbophyllum virescens</i>	Portrait) (MS/6) Orchidaceae	Fl U B SS Fl A MS
· · · · · · · · · · · · · · · · · · ·	1541 MAL 213a 213b	5.50p SS 12p AYSIA (Ked 5c 10c	U/I flowers U/I flowers ah) 2018 December 4 (Wild Orchids, Arms, & Greenish Bulbophyllum, Bulbophyllum virescens Corybas carinatus	Portrait) (MS/6) Orchidaceae Orchidaceae	Fl U B SS Fl A MS Fl A MS

MALAYSIA	(Ked	ah) (continued)		
213e		Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS
213f		Anoectochilus reinwardtii	Orchidaceae	Fl A MS
MALAYSIA	(Kela	antan) 2018 December 4 (Wild Orchids, Arms, &	Portrait) (MS/6)	
137a	5c	Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS
137b	10c	Corybas carinatus	Orchidaceae	Fl A MS
137c	20c	, 0 33	Orchidaceae	Fl A MS
137d		Almost-Three Lobed Phaius, Phaius subtrilobus	Orchidaceae	Fl A MS
137e	40c	Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS
137f	50c	Anoectochilus reinwardtii	Orchidaceae	Fl A MS
MALAYSIA				
101a		Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS
101b	10c		Orchidaceae	Fl A MS
101c		Griffith's Vanilla, Vanilla griffithii	Orchidaceae	Fl A MS
101d		Almost-Three Lobed Phaius, <i>Phaius subtrilobus</i>	Orchidaceae	Fl A MS
101e		Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS
101f	50c	Anoectochilus reinwardtii	Orchidaceae	Fl A MS
MALAYSIA				
120a	5c	Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS
120b	10c	Corybas carinatus	Orchidaceae	Fl A MS
120c	20c	Griffith's Vanilla, Vanilla griffithii	Orchidaceae	Fl A MS
120d	30c	Almost-Three Lobed Phaius, <i>Phaius subtrilobus</i>	Orchidaceae	Fl A MS
120e		Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS
120f	50c	Anoectochilus reinwardtii	Orchidaceae	Fl A MS
MALAYSIA	,	e ,		
129a		Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS
129b	10c	Corybas carinatus	Orchidaceae	Fl A MS
129c	20c	, 0 33	Orchidaceae	Fl A MS
129d	30c	Almost-Three Lobed Phaius, <i>Phaius subtrilobus</i>	Orchidaceae	Fl A MS
129e		Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS
129f	50c	Anoectochilus reinwardtii	Orchidaceae	Fl A MS
MALAYSIA				
101a		Greenish Bulbophyllum, Bulbophyllum virescens		Fl A MS
101b		Corybas carinatus	Orchidaceae	Fl A MS
101c	20c	7 0 33	Orchidaceae	Fl A MS
101d		Almost-Three Lobed Phaius, <i>Phaius subtrilobus</i>	Orchidaceae	FI A MS
101e		Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS
101f	50c	Anoectochilus reinwardtii	Orchidaceae	Fl A MS
MALAYSIA	`		, , , ,	
186a	5c	Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS
186b	10c	Corybas carinatus	Orchidaceae	Fl A MS
186c	20c	7 0 33	Orchidaceae	Fl A MS
186d		Almost-Three Lobed Phaius, <i>Phaius subtrilobus</i>	Orchidaceae	Fl A MS
186e		Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS
186f	50c	Anoectochilus reinwardtii	Orchidaceae	Fl A MS
MALAYSIA	(Perl	is) 2018 December 4 (Wild Orchids, Arms, &	Portrait) (MS/6)	
83a	5c	Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS
83b	10c	Corybas carinatus	Orchidaceae	Fl A MS
83c	20c	Griffith's Vanilla, Vanilla griffithii	Orchidaceae	Fl A MS

MALAYS	SIA (Per	lis) (continued)			
83d		Almost-Three Lobed Phaius, Phaius subtrilobus	Orchidaceae	Fl A MS	
83e		Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS	
83f		Anoectochilus reinwardtii	Orchidaceae	Fl A MS	
MALAYS	SIA (Sab	ah) 2018 December 4 (Wild Orchids, Arms, &	Portrait) (MS/6)		
52a	•	Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS	
52b	10c	Corybas carinatus	Orchidaceae	Fl A MS	
52c	20c	Griffith's Vanilla, Vanilla griffithii	Orchidaceae	Fl A MS	
52d	30c	Almost-Three Lobed Phaius, Phaius subtrilobus	Orchidaceae	Fl A MS	
52e	40c	Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS	
52f		Anoectochilus reinwardtii	Orchidaceae	Fl A MS	
MALAYS	SIA (Sara	awak) 2018 December 4 (Wild Orchids, Arms, &	Portrait) (MS/6)		
275a	5c	Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS	
275b	10c	Corybas carinatus	Orchidaceae	Fl A MS	
275c	20c	Griffith's Vanilla, Vanilla griffithii	Orchidaceae	Fl A MS	
275d	30c	Almost-Three Lobed Phaius, <i>Phaius subtrilobus</i>	Orchidaceae	Fl A MS	
275e	40c	Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS	
275f	50c	Anoectochilus reinwardtii	Orchidaceae	Fl A MS	
MALAYS	SIA (Sela	angor) 2018 December 4 (Wild Orchids, Arms, &	Portrait) (MS/6)		
158a		Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS	
158b	10c	Corybas carinatus	Orchidaceae	Fl A MS	
158c		•	Orchidaceae	Fl A MS	
158d	30c	Almost-Three Lobed Phaius, <i>Phaius subtrilobus</i>	Orchidaceae	Fl A MS	
158e	40c	Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS	
158f		Anoectochilus reinwardtii	Orchidaceae	Fl A MS	
MALAYS	SIA (Tre	ngganu) 2018 December 4 (Wild Orchids, Arms, &	Portrait) (MS/6)		
126a	5c	Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS	
126b	10c	Corybas carinatus	Orchidaceae	Fl A MS	
126c	20c	Griffith's Vanilla, Vanilla griffithii	Orchidaceae	Fl A MS	
126d	30c	Almost-Three Lobed Phaius, <i>Phaius subtrilobus</i>	Orchidaceae	Fl A MS	
126e	40c	Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS	
126f		Anoectochilus reinwardtii	Orchidaceae	Fl A MS	
MALAYSIA (Wilayah Persekutuan) 2018 December 4 (Wild Orchids, Arms, & Portrait) (MS/6)					
21a		Greenish Bulbophyllum, Bulbophyllum virescens	Orchidaceae	Fl A MS	
21b	10c	Corybas carinatus	Orchidaceae	Fl A MS	
21c	20c	Griffith's Vanilla, Vanilla griffithii	Orchidaceae	Fl A MS	
21d	30c	Almost-Three Lobed Phaius, <i>Phaius subtrilobus</i>	Orchidaceae	Fl A MS	
21e	40c	Dendrobium macrophyllum var. ternatense	Orchidaceae	Fl A MS	
21f	50c	Anoectochilus reinwardtii	Orchidaceae	Fl A MS	
MALDIV	E ISLAI	NDS 2016 September 8 (International Year of P	ulses) (MS/4 & S	S/1)	
3727b		Beans, <i>Phaseolus vulgaris</i> (in bowl)	Fabaceae	Fr A MS	
3727c		Peas, Pisum sativum (w/ spoon)	Fabaceae	Fr A MS	
3737		Hand sorting beans	Fabaceae	Fr U B SS	
	2016 September 8 (Post-impressionist Art) (MS/4)				
3749a	20r	Irises, <i>Iris</i> sp. (Ptg: <i>Irises</i> by van Gogh)	Iridaceae	Fl A MS	
3749d		U/I citrus, <i>Citrus</i> sp. (Ptg: <i>Still Life with a Curtain</i> by Cézanne)	Rutaceae	Fr U B MS	
MEXICO		2018 August 14 (Flora of Mexico) (Single)			
3111		Monkey's Hand Tree, <i>Chiranthodendron pentadactylon</i>	Malvaceae	Fl V A	
5111	7.50p	monte, s runa 1100, Chiraminoacharon penadaciyion	1,1a1 vaccac	11 1 1	

MOLDO 997		2018 September 6 (2018 World Capital of Grapes, <i>Vitis vinifera</i> (w/ vineyard)	Wine Tourism) (Sir Vitaceae	ngle) Fr V B	
MOROC	CO	2017 August 16 (Cork Oak) (Single)			
1235		Cork oak, Quercus suber	Fagaceae	ТА	
1233	Ju	. ~		1.71	
10741	2.75.1	2018 August 9 (Flora & Fauna) (Horiz Pair		T-1 A	
1254b	3./50	Lavender flowers, Lavandula angustifolia	Lamiaceae	Fl A	
		2009 September 1 (Postage Due: Bananas)	(Single)		
J24	3.25d	Bananas, $Musa \times paradisiaca$	Musaceae	Fr A	
NETHER	RLANDS	2018 April 9 (Wild Flowers) (MS/10)			
1567a		Fluitenkruid or Cow Parsley, Anthriscus sylvestris	Apiaceae	Fl A	
1567b	(83c)	Hazenpootje or Hare's-foot Clover, Trifolium arvense	Fabaceae	Fl A	
1567c	(83c)	Wondklaver or Woundwort, Anthyllis vulneraria	Fabaceae	Fl A	
1567d	(83c)	Madelietje or Common Daisy, Leucanthemum vulgare	Asteraceae	Fl A	
1567e	(83c)	Gewone Ossentong or Common Bugloss, Anchusa officinalis	Boraginaceae	Fl A	
1567f	(83c)	Pinksterbloem or Lady's Smock, Cardamine pratensis	Brassicaceae	Fl A	
1567g	(83c)	Trilgras or Quaking Grass, Briza media	Poaceae	Fl A	
1567h	(83c)	Paarse Morgenster or Purple Salsify, Tragopogon porrifolius	Asteraceae	Fl A	
1567i	(83c)	Paardeenbloem or Dandelion, Taraxacum campylodes	Asteraceae	Fl A	
1567j	(83c)	Smalle Weegbree or Narrowleaf Plantain, Plantago lanceolata	Plantaginaceae	Fl A	
NEVIS		2018 December 5 (Christmas) (Set/4 & SS/	'1)		
1972	30c	Holly, <i>Ilex aquifolium</i>	Aquifoliaceae	Fr V A	
NEW ZE	ALAND	2019 February 13 (Native Alpine Flowers)	(Set/6 & SS/6)		
2839	\$1.20	Mountain Buttercups, Ranunculus insignis	Ranunculaceae	Fl A	
2840	\$1.20	Penwiper Plant, Notothlapsi rosulatum	Brassicaceae	Fl A	
2841	\$1.20	Black Scree Button Daisies, Leptinella atrata	Asteraceae	Fl A	
2842	\$2.40	Woollyheads, Craspedia incana	Asteraceae	Fl A	
2843	\$3	Mt. Cook Lilies, Ranunculus lyallii	Ranunculaceae	Fl A	
2844	\$3.60	Moss-dwelling Forget-me-nots, Myosotis bryonoma	Boraginaceae	Fl A	
2844a		SS/6 (Sc#2839–44)			
PALAU		2018 November 30 (Frangipani Flowers) (I	MS/4)		
1395a	\$2	Plumeria or Frangipani, Plumeria rubra (bunch w/ white petals)	Apocynaceae	Fl A MS	
1395b	\$2	Same species (bunch w/ pink petals)	Apocynaceae	Fl A MS	
1395c	\$2	Same species (single w/ pink petals)	Apocynaceae	Fl A MS	
1395d	\$2	Same species (two w/ white petals)	Apocynaceae	Fl A MS	
		Cap: P. rubra, but some are distinctly P. alba			
POLANI)	2018 November 11 (Centenary End of WW	(I) (Single)		
4377	2.60z	Poppies in grenade, Papaver rhoeas	Papaveraceae	Fl A	
SOUTH A	AFRICA	2008 June 30 (Flower Type of 2000) (Coil	PSA die cut 12¾×1	4)	
1391A	(1.40r)	Botterblom, Gazania krebsiana	Asteraceae	Fl A	
1391B	(1.40r)	Blue Marguerite, Felicia amelloides	Asteraceae	Fl A	
1391C	(1.40r)	Karoo Violet, Aptosimum procumbens	Scrophulariaceae	Fl A	
1391G	(1.40r)	Blue Marguerite, Felicia amelloides	Asteraceae	Fl A	
1391I	(1.40r)	Tree Pelargonium, Pelargonium cucullatum	Geraniaceae	Fl A	
1391J	(1.40r)	Black-eyed Susan, Thunbergia alata	Acanthaceae	Fl A	
UNITED	UNITED STATES 2019 January 17 (New Year: Year of the Boar) (Single)				
5340		Peach blossom, <i>Prunus persica</i>	Rosaceae	Fl A	
	` ′	•			

UNITED	UNITED STATES (continued) 2019 January 27 (American Landmarks) (Single)				
5347	\$7.35	Joshua Tree, Yucca brevifolia	Asparagaceae	V A	
		2019 February 15 (Cactus Flowers) (B	klt/20)		
5350	(55c)	Cow's Tongue Cactus, Opuntia engelmannii	Cactaceae	Fl A	
5351	(55c)	Rebutia minuscula	Cactaceae	Fl A	
5352	(55c)	Texas Rainbow Cactus, Echinocereus dasyacanthus	Cactaceae	Fl A	
5353	(55c)	Dahlia Cactus, Echinocereus poselgeri	Cactaceae	Fl A	
5354	(55c)	Scarlet Hedgehog Cactus, Echinocereus coccineus	Cactaceae	Fl A	
5355	(55c)	False Peyote or Peyotillo, Pelecyphora aselliformis	Cactaceae	Fl A	
5356	(55c)	Parodia microsperma	Cactaceae	Fl A	
5357	(55c)	Turk's Head Cactus, Echinocactus horizonthalonius	Cactaceae	Fl A	
5358	(55c)	Thelocactus heterochromus	Cactaceae	Fl A	
5359	(55c)	Silver Ball Cactus, Parodia scopa	Cactaceae	Fl A	
5359a		Block/10 (Sc#5350-59)			
5359b		Bklt/20 (2ea Sc#5350–59)			
UZBEKI	UZBEKISTAN 2018 August 6 (Flora & Fauna of Zomin Nature Reserve) (MS/8)				
861c	1800s	Juniper, Juniperus semiglobosa	Cupressaceae	T A MS	
861e	2800s	Foxtail Lily, Eremurus chloranthus	Asphodelaceae	Fl A MS	
861g	3400s	Ziziphora sp.	Lamiaceae	Fl U A MS	



COLUMBIA WILDLIFE REFUGE

Lisa D. Foster, Washington

On Sunday morning 7 April 2019, following the John D. Arn Philatelic Symposium at Moses Lake, Washington, we drove 22 miles south to visit the Columbia National Wildlife Refuge in search of Sandhill Cranes. The Arn Symposium is an annual event sponsored in part by the Northwest Federation of Stamp Clubs featuring speakers from the Pacific Northwest making presentations on a variety of philatelic subjects.

Every spring thousands of Sandhill Cranes (*Antigone canadensis*) migrate through Central Washington on their way to breeding grounds in Southern Alaska. Although we did not see any up close, we could hear them calling as they flew overhead.



Antigone canadensis Canada, 1999, Sc#1773

We began our birding adventure at the Drumheller Channels Overlook, a National Natural Landmark. Around 13,000 years ago dozens of megafloods carved their way through the basalt rock to form the Drumheller Channels. They were beautiful and reminded us of a smaller version of the Grand Canyon. The callings of multiple birds around us made us think we had said, "Alexa play bird sounds."



from the



Drumheller Channels



Agelaius phoeniceus USA, 1987, Sc#2303

We walked along the Marsh loop Trail where we saw an abundance of Red-winged Blackbirds (*Agelaius phoeniceus*). If you have not yet visited this magnificent area, I highly encourage you to do so. We plan to return next year to hike the three-mile Rimrock Trail.



We drove onward to an area overlooking Royal Lake in search of water-fowl and roosting cranes. From there we drove two miles to the Frog Lake parking area where a large lava pillar stood, taken

surrounding

Lava Pillar

NEW PLANTS IN THE PHILATELIC HERBARIUM

Christopher E. Dahle, BU1269

Laelia purpurata 'Miss Scarlet' ORCHIDACEAE

Cultivar. Current genus allocation is *Cattleya*.

Epiphytic, with a single leaf. Laelia purpurata is probably the species with the widest color variation in the section, and basic color on segments varies from white to light pink-magenta. The variation includes stripes, veins and splashes on petals, but is most impressive on the lip, where veins can come in different tones of pink, purple, violet, blue-gray, brick red, etc. Laelia purpurata is native to Santa Catarina in southern Brazil.

Angola Sc#1532. Issued 10 December 2018 in Set/4 & SS/1.

Cymbidium 'Sandy Tiger' ORCHIDACEAE

Hybrid of *Cymbidium sanderae* \times *C. tigrinum*.

C sanderae was first collected in Vietnam. Flowers are 7.5 cm and fragrant, appearing winter to spring. Epiphytic found at 1400–1500 m altitude. C. tigrinum is a lithophyte. Flowers 4-5 cm are honey-scented. Originally from Burma, northeast India, and China at 1,500-2,700 m.

Angola Sc#1533. Issued 10 December 2018.

Laeliocattleya Trick or Treat 'Sweety' ORCHIDACEAE

Cultivar out of Trick or Treat.

Trick or Treat was a hybrid developed in 1973 by Stewart, Inc. from Cattleya Icarus (C. cinnabarina \times C. crispata) \times Cattlianthe Chit Chat [Guarianthe aurantica \times Cattleya Coronet (C. cinnabarina × C. harpophylla)]. Large orange flowers 5–7 cm. Blooms in March.

Angola Sc#1534. Issued 10 December 2018.

Brassolaeliocattleya Momilani Rainbow 'The Gypsy' ORCHIDACEAE Cultivar from the Momilani Rainbow hybrid.

Momilani Rainbow (Brassolaeliocattleya Orange Nugget × Laeliocattleya Mari's Song). Blooms 2–3 times a year.

Angola Sc#1535. Issued 10 December 2018.



Laelia anceps 'SanBar Bounty' ORCHIDACEAE Cultivar

A tremendous grower and bloomer with all the species charm that comes with this Mexican native. October-November blooming.

Angola Sc#1536 SS. Issued 10 December 2018

Coelogyne mayeriana ORCHIDACEAE

Epiphyte on tree trunks or occasionally terrestrial in humus, with 8–24 cm pseudobulbs. Blooms summer-fall with pendant 45 cm inflorescence bearing multiple lemon-scented 7 cm flowers. Found in Malaysia, Sumatra, Java, and Borneo at elevations of sea level to 100 m often near mangroves.

Indonesia Sc#2462a. Issued 18 May 2017, for the 200th Anniversary of Boogor Botanical Garden in Sheet/34.











Coelogyne rochussenii ORCHIDACEAE

Synonyms: C. macrobulbon, C. plantanginea, C. steffiensii, C. stellaris, Pleione macrobulbon, P. plantaginea, P. rochussenii

Epiphyte, sometimes found on rocks, has two 5 cm long leaves from pseudobulbs. Blooms in winter on 45 cm inflorescence from mature pseudobulbs, with up to 40 lemon-scented, simultaneously opening, 6.25 cm flowers. Occurs in Malaysia, Borneo, Java, and Sumatra and east to the Philippines in lowlands often on trees overhanging rivers at elevations up to 1,500 m.



Indonesia Sc#2462d. Issued 18 May 2017 for the 200th Anniversary of Boogor Botanical Garden in a sheet of 34.

Bulbophyllum medusae ORCHIDACEAE

Synonyms: Cirrhopetalum medusae, C. medusae var. album, Phyllorchis medusae, Phyllorkis medusae

Epiphyte with single apical leaf from pseudobulbs. Flowers fall-winter on a 20 cm tall erect inflorescence from a new pseudobulb. Flowers are malodorous and 15 cm long. Native to Thailand, Malaysia, Borneo, Lesser Sunda Islands, and Sumatra where it is found in lowland forests at elevations of sea level to 400 m on trunks and main branches of trees.



Indonesia Sc#2462i. Issued 18 May 2017.

Thrixspermum centipeda ORCHIDACEAE

Common name: Centipede Thrixspermum

Synonyms: 16

Small epiphyte or lithophyte. Blooms in spring on 40 cm, pendant inflorescence with 2.5 cm fragrant flowers. Native to China, Hong Kong, the eastern Himalayas, Assam, Myanmar, Thailand, Laos, Cambodia, Vietnam, peninsular Malaysia, Borneo, Java, Sulawesi, Sumatra, and the Philippines in broadleaf, evergreen, semi-deciduous and deciduous, dry, lowland forests and savanna-like woodlands at elevations of 300 to 1,300 m.



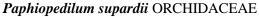
Indonesia Sc#2462n. Issued 18 May 2017.

Acanthephippium javanicum ORCHIDACEAE

Common name: Java Acanthephippium

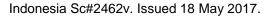
Large terrestrial herb with pseudobulbs carrying 2–4 leaves. Blooms in spring on 20 cm 1–6 flowered inflorescence with fragrant 3.5 cm flowers. Occurs in Malaysia, Java, Borneo, and Sumatra in damp lowlands and hill forests at elevations of 300 to 1,500 m.

Indonesia Sc#2462v. Issued 18 May 2017.



Common name: Supard's Paphiopedilum

Erect lithophytic herb growing on limestone rocks in leaf-mold filled hollows in half shade. Blooms from April to June on 30–40 cm, 3–7 flowered inflorescence with 10 cm flowers. Critically endangered on IUCN Red List. Known from one mountain range in southeast Borneo at 600–960 m.





Synonym: Phalaenopsis labukensis

Very large pendent-growing epiphyte with 3–5 fleshy leaves. Spring blooms on short (8 cm), 5–15 flowered inflorescence with 6.2 cm flowers. Found in Borneo where it grows on trees in hill forests on ultramafic rocks at 500–1.000 m.

Indonesia Sc#2462x. Issued 18 May 2017.







Aerides huttonii ORCHIDACEAE

Synonyms: Aerides reversa, Saccolabium huttonii

Medium sized epiphyte with pendulous stem bearing several leaves. Fall-blooming, with 35 cm densely flowered inflorescence carrying waxy simultaneously opening 2.5–3 cm flowers. Found in northeastern Sulawesi in lowland forests at elevations of sea level to 800 m.

Indonesia Sc#2462y. Issued 18 May 2017.

Paphiopedilum glanduliferum ORCHIDACEAE

Synonyms: 11

Terrestrial herb with 4–6 somewhat fleshy glabrous leaves to 40 by 3–5.5 cm. Flowers in February–June, with multiple blooms on a 30 to 50 cm inflorescence with 12–16 cm flowers. Not seen since described in 1848. Occurs in New Guinea from sea level to 1,700 m on limestone cliffs.

Indonesia Sc#2462ag. Issued 18 May 2017.







Coelogyne marthae ORCHIDACEAE

Medium-sized epiphyte with pseudobulbs having 2 leaves. Flowers in spring with 10–25 cm, 3–5 flowered inflorescence carrying 7 cm blossoms. Occurs in Sarawak Borneo on lower tree trunks in flooded heath forests at elevations of 50 to 300 m. Endemic, discovered by Bogor Botanical Gardens researchers in Katingan, Central Kalimantan, in 2013.

Indonesia Sc#2463. Issued 18 May 2017 for 200th Anniversary of Bogor Botanical Garden as a souvenir sheet. Print run: 30,000 by PT Post Indonesia.

Echinocereus dasyacanthus CACTACEAE

Common name: Texas Rainbow Cactus

Synonyms: E. dasyacanthus var. ctenoides, E. dasyacanthus ssp. dasyacanthus, E. dasyacanthus var. rectispinus, E. dasyacanthus ssp. rectispinus, E. dasyacanthus var. rigidissimus

Perennial succulent plant to 15 cm with initial oval growth habit becoming cylindrical to 10 cm diameter. Yellow flowers to 10 cm long with pink or orange tints appear March to August. Berry type fruits are green. Grows in scrubland, grassy plains, canyon sides, and limestone terraces up to 1,500 m in extreme southeast Arizona, southern New Mexico, and far west Texas and Sonora, Chihuahua, and Coahuila, in Mexico.



United States Sc#5352. Issued 15 February 2019. Designed by Ethel Kessler from photographs by John P. Schaefer of Tucson, Arizona. Printed by Banknote Corporation of America, Browns Summit, North Carolina. Printed on phosphor-tagged paper with block tagging, using double-sided panes with self-adhesive gum, in booklet format of 20 stamps in 10 designs.

Echinocereus poselgeri CACTACEAE

Common name: Dahlia Cactus, Pencil Cactus, Dahlia Hedgehog Cactus Synonyms: E. poselgeri ssp. gerhardii, E. poselgeri ssp. kroenleinii

Perennial, shrubby succulent, initially erect. Stem to 1.2 m, 2 cm diameter. Pink or red flowers 4 cm long in March to July, close at night. Grows in xerophilous scrub in alluvial soils. Prefers to clamber through woody vegetation for support. Occurs in sandy soils of

valleys and hills in semi-desert brush lands of Texas and Coahuila, Nuevo Leon, and Tamaulipas in Mexico, at elevations up to 1,150 m.

United States Sc#5353. Issued 15 February 2019.

Pelecyphora aselliformis CACTACEAE

Common name: False Peyote, Peyotillo

Perennial succulent. Small, slow growing, clustering cactus with unique, spherical to shortly cylindrical stem, to 10 cm tall and 5 cm in diameter. Flowers are pink to violet up to 3.5 cm diameter. Found in semi-desert among calcareous rocks in Subtropical/Tropical dry shrub land. Endemic to Mexican state of San Luis Potosí, where it occurs in the north and northwest at elevations of 1,800-2,400 m.



United States Sc#5355. Issued 15 February 2019.

Parodia microsperma CACTACEAE

Synonyms: 12

Succulent shrub, globose or cylindrical to 9 cm diameter, 10 cm tall. Flowers 30 mm long, 40 mm diameter are yellowish-orange with a vermillion midline and bright red throat. Ovoid fruit are 6×5 mm. Occurs in three sub-populations, two in Argentina and one in Bolivia at 500-2,000 m.



United States Sc#5356. Issued 15 February 2019.

Thelocactus heterochromus CACTACEAE

Synonyms: Thelocactus pottsii

Robust-globular somewhat squat cactus with large round tubercles. Stems are 15 cm diameter and 10-15 cm tall. Blooms March to October. Pink flowers with red throat 8-10 cm diameter. Grows on limestone hills in xerophilic woodland in Durango and Coahuila in northeast Mexico.



United States Sc#5358. Issues 15 February 2019.

ST. VINCENT & THE GRENADINES



FUNGI

Editor

Dr. Paul A. Mistretta, BU1681

New Listings

Scott# Denom Common Name/Scientific Name Family Code [Ed. Note: Occasionally in this section and also in the Herpetology section, we will note a species that is known to be poisonous by marking it with a (\$\mathbb{2}\$) symbol. One should not infer that other species that are not so marked are non-poisonous or safe to handle/eat.]

JAPAN		2018 August 23 (Definitives) (2ea MS/10)		
4225e	62¥	U/I boletes (circular)	Boletaceae	U A
4226a	82¥	U/I boletes (w/ chipmunk)	Boletaceae	U B
4226d	82¥	U/I Mushrooms (w/ fallen leaves)		U A
LIBERIA		2018 May 22 (Mushrooms) (MS/6)		
3267a	\$100	Penny Buns, Boletus edulis	Boletaceae	A
3267b	\$100	Crab Brittlegills, Russula xerampelina	Russulaceae	A
3267c	\$200	Chanterelles, Cantharellus cibarius	Cantharellaceae	A
3267d	\$200	Field Mushrooms, Agaricus campestris	Agaricaceae	A
3267e	\$300	Honey Mushrooms, Armillaria mellea	Physalacriaceae	A
3267f	\$300	Sponge Morels, Morchella esculenta	Morchellaceae	A

MALAWI 2018 August (Mushrooms) (MS/6 & 6ea SS/1)

The Scott Catalogue does not specify which number applies to each subject in the MS/6. I speculate in the list below as my best guess based on the traditional numbering scheme. Each species on the SS also appears in the margin.

•	•	•	* *	•
863a	700k	? Agaricus sp.	Agaricaceae	U A
863b	700k	U/I Bolete	Boletaceae	U A
863c	700k	? Pleurotus sp.	Pleurotaceae	U A
863d	700k	? Russula sp.	Russulaceae	U A
863e	700k	? Pleurotus sp.	Pleurotaceae	U A
863f	700k	? Stropharia sp.	Strophariaceae	U A
863	Margin	Bkgrd: U/I Mushrooms		UΖ
864	SS 450k	Branched Oyster, Pleurotus cornucopiae	Pleurotaceae	A
865	SS 450k	Portabella, Agaricus bisporus	Agaricaceae	A
866	SS 450k	U/I Mushroom (Cap: Psathyrella Cap) (does not appear to be a	Psathyrella species)	U A
867	SS 450k	Pearl Oyster, <i>Pleurotus ostreatus</i>	Pleurotaceae	A
868	SS 450k	Coccora or Coccoli, Amanita calyptroderma	Amanitaceae	A
869	SS 450k	U/I Chanterelles	Cantharellaceae	U A
NETHE	ERLANDS	2018 September 17 (Mushrooms) (MS/10)		
1575a	(83c)	Sparrenveertje, Pterula multifida	Pleutaceae	A
1575b	(83c)	Fly Agaric, Amanita muscaria (\$)	Amanitaceae	A
1575c	(83c)	Twig Parachute, Marasmius ramealis	Marasmiaceae	A
1575d	(83c)	Fragile Brittlegill, Russula fragilis	Russulaceae	A
1575e	(83c)	Bonnet Mold, Spinellus fusiger	Phycomycetaceae	A
1575f	(83c)	Moor Club, Clavaria argillacea	Clavariaceae	A
1575g	(83c)	Plooivlieswaaiertje, Plicaturopsis crispa	Amylocorticiaceae	A
1575h	(83c)	Verdigris Agaric, Psilocybe aeruginosa	Strophariaceae	A

NETHERLANDS (continued)

1575i	(83c)	Bleeding Fairy Helmet, Mycena haematopus	Mycenaceae	A
1575j	(83c)	Cauliflower Fungus, Sparassis crispa	Sparassidaceae	A

Look-alikes

JAPAN		2018 June 1 (Odd Shape Definitives) (MS/10)	
4209a	82¥	Base of fan looks like a Marasmius or Mycena mushroom	X
4209b	82¥	Base of fan looks like a Marasmius or Mycena mushroom	X

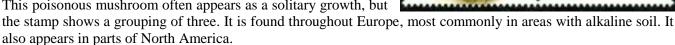
SERBIA MUSHROOMS

On 7 March 2019, Serbia issued a block of four stamps depicting different species of mushrooms found in Serbia. The colorful stamps were printed in sheets of 16 with only 25,000 produced.

The first stamp shows *Psilocybe serbica*. The mushroom contains the compound psilocybin, a naturally occurring psychedelic prodrug. Psilocybin is quickly converted by the body to psilocin, which has mind-altering effects similar in some aspects to those of LSD and mescaline. Imagery found on prehistoric murals and rock paintings of modern-day Spain and Algeria suggests that human usage of psilocybin mushrooms predates recorded history.

The second stamp shows *Tuber petrophilum*. This is a newly described species of black truffle, which is the fruiting body of a subterranean fungus highly prized as food in haute cuisine. Truffles are usually found in close association with tree roots, in this case oak trees.

The third stamp shows the Magpie Inkcap, *Coprinopsis picacea*. This poisonous mushroom often appears as a solitary growth, but



The fourth stamp shows *Octospora pannosa*. This is another newly described species that has been found in two localities in Germany and Serbia. It grows on the pleurocarpous moss *Brachytheciastrum velutinum*, and this is the first reported instance of this moss hosting a species of *Octospora*.





MAMMALIA

Editor

Michael Prince, LM68

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ANDO	RRA (Fren	ch) 2018 September 28 (Otter) (Single)		
796	95c	European Otter, Lutra lutra	Mustelidae	A
ANGO	DLA	2018 December 10 (Rhinoceroses) (Set/4 of	& SS/1)	
1420	300k	Black Rhinoceros, Diceros bicornis (w/ calf)	Rhinocerotidae	A
1421	300k	Black Rhinoceros, Diceros bicornis (facing R)	Rhinocerotidae	A
1422	300k	White Rhinoceros, Ceratotherium simum (one adult)	Rhinocerotidae	A
1423	300k	White Rhinoceros, Ceratotherium simum (two adults)	Rhinocerotidae	A
1540	SS 1200k	White Rhinoceros, Ceratotherium simum	Rhinocerotidae	A
	Margin	LL & R: Same species	Rhinocerotidae	Z
		2018 December 10 (Giraffes) (Set/4 & SS/	['] 1)	
1424	300k	Giraffe, Giraffa camelopardalis ssp. angolensis (head)	Giraffidae	A
1425	300k	Giraffe, Giraffa camelopardalis ssp. angolensis (drinking)	Giraffidae	A
1426	300k	Giraffe, Giraffa camelopardalis ssp. angolensis (facing R)	Giraffidae	A
1427	300k	Giraffe, Giraffa camelopardalis ssp. angolensis (six animals)	Giraffidae	Α
1541	SS 1200k	Giraffe, Giraffa camelopardalis ssp. angolensis	Giraffidae	A
	Margin	LL & R: Same species	Giraffidae	Z
		2018 December 10 (Primates) (Set/4 & SS	/1)	
1428	300k	Demidoff's Galago, Galagoides demidoff	Galagidae	A
1429	300k	Allen's Swamp Monkey, Allenopithecus nigroviridis	Cercopithecidae	A
1430	300k	Grey-cheeked Mangabey, Lophocebus albigena	Cercopithecidae	A
1431	300k	Angolan Colobus, Colobus angolensis	Cercopithecidae	A
1542	SS 1200k	Red-tailed Monkey, Cercopithecus ascanius	Cercopithecidae	Α
	Margin	R: Western Gorilla, Gorilla gorilla	Hominidae	Z
		ML: Angolan Colobus, Colobus angolensis	Cercopithecidae	Z
		LL: Allen's Swamp Monkey, Allenopithecus nigroviridis	Cercopithecidae	Z
		2018 December 10 (Bats) (Set/4 & SS/1)		
1432	300k	Hammer-headed Fruit Bat, Hypsignathus monstrosus	Pteropodidae	A
1433	300k	Angolan Free-tailed Bat, Mops condylurus	Molossidae	A
1434		Franquet's Epauletted Bat, Epomops franqueti	Pteropodidae	A
1435		Peters's Epauletted Fruit Bat, Epomophorus crypturus	Pteropodidae	A
1543	SS 1200k	Angolan Hairy Bat, Cistugo seabrae	Vespertilionidae	(new) A
	Margin	UR & LL: Franquet's Epauletted Bat, Epomops franqueti	Pteropodidae	Z
		LR: Hammer-headed Fruit Bat, Hypsignathus monstrosus	Pteropodidae	Z
		ML: Angolan Free-tailed Bat, Mops condylurus	Molossidae	Z
		2018 December 10 (Big Cats) (Set/4 & SS	·	
1436	300k	Cheetah, Acinonyx jubatus	Felidae	A
1437	300k	Leopard, Panthera pardus ssp. pardus	Felidae	A
1438	300k	Caracal, Caracal caracal	Felidae	A
1439	300k	Lion, Panthera leo ssp. bleyenberghi	Felidae	A

ANGO	LA (continu	ued)		
1544	SS 1200k	Serval, Leptailurus serval	Felidae	A
	Margin	R: Cheetah, Acinonyx jubatus	Felidae	Z
		ML: Lion, Panthera leo	Felidae	Z
		LL: Leopard, Panthera pardus	Felidae	Z
		2018 December 10 (Elephants) (Set/4 & SS	5/1)	
1440	300k	African Bush Elephant, <i>Loxodonta africana</i> (walking L)	Elephantidae	A
1441			Elephantidae	A
1442		African Bush Elephant, <i>Loxodonta africana</i> (two facing L & R)	Elephantidae	A
1443		African Bush Elephant, <i>Loxodonta africana</i> (two facing R)	Elephantidae	A
1545		African Bush Elephant, Loxodonta africana	Elephantidae	A
		L & R: Same species	Elephantidae	Z
		2018 December 10 (Dolphins) (Set/4 & SS/	/1)	
1444	300k	Pantropical Spotted Dolphin, Stenella attenuata	Delphinidae	A
1445		Spinner Dolphin, Stenella longirostris	Delphinidae	A
1446		Atlantic Spotted Dolphin, Stenella frontalis	Delphinidae	A
1447		Fraser's Dolphin, Lagenodelphis hosei	Delphinidae	A
1546		Rough-toothed Dolphin, Steno bredanensis	Delphinidae	A
	Margin	R: Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	Z
		LL: Pantropical Spotted Dolphin, Stenella attenuata	Delphinidae	\overline{z}
		ML: Atlantic Spotted Dolphin, Stenella frontalis	Delphinidae	Z
		2018 December 10 (Whales) (Set/4 & SS/1	-	
1448	300k	Short-finned Pilot Whale, <i>Globicephala macrorhynchus</i>	Delphinidae	Α
1449		Humpback Whale, Megaptera novaeangliae	Balaenopteridae	A
1450	300k		Balaenidae	A
1451		Pygmy Sperm whale, Kogia breviceps	Physeteridae	A
1547		Humpback Whale, Megaptera novaeangliae	Balaenopteridae	A
1547	55 1200K	(incorrectly Cap: Balaenoptera musculus)	Dancenopterione	71
	Margin	R & ML: Humpback Whale, Megaptera novaeangliae	Balaenopteridae	Z
		LL: Pygmy Sperm Whale, Kogia breviceps	Physeteridae	Z
ANTIC	GUA	2018 May 8 (Marine Mammals) (MS/6)		
3400a		Orca (Killer Whale), Orcinus orca	Delphinidae	A
3400b		Humpback Whale, Megaptera novaeangliae	Balaenopteridae	Α
3400c	\$4	Sperm Whale, Physeter macrocephalus	Physeteridae	A
3400d	\$5	False Killer Whale, Pseudorca crassidens	Delphinidae	A
3400e	\$6	Spinner Dolphin, Stenella longirostris	Delphinidae	A
3400f	\$7	Common Bottlenose Dolphin, Tursiops truncatus	Delphinidae	A
BOTS	WANA	2018 August 30 (Animals) (Set/15 & SS/5)		
1048	20t	Bat-eared Fox, Otocyon megalotis	Canidae	A
1055	(5p)	Springbok, Antidorcas marsupialis (inscr. "STD A")	Bovidae	A
1056	(7p)	Small-spotted Genet, Genetta genetta (inscr. "STD B")	Viverridae	A
1057	(8p)	Puku, Kobus vardonii (inscr. "Postcard Rate")	Bovidae	A
1058	9p	Blue Wildebeest, Connochaetes taurinus	Bovidae	A
1058a	-	SS/5 (Sc#1048, Sc#1055–58)		
BRITI	SH ANTAR	2018 November 1 (Migratory Seals) (2ea V	ert Pair)	
571a	66p	Antarctic Fur Seal, Arctocephalus gazella	Otariidae	A
571b	76p	Antarctic Fur Seal, Arctocephalus gazella	Otariidae	A
572a	•	Leopard Seal, <i>Hydrurga leptonyx</i>	Phocidae	A
572b	£1.50	Leopard Seal, Hydrurga leptonyx	Phocidae	A

Trichechidae A Cervidae A	COSTA	A RICA	2018 September 13 (200th anniv. Indepen	ndence) (MS/6+3 labels)	
STONIA SOC Cas Sc#70 a − c + 3 labels SC SC SC SC Golden Jackal, Canis aureus Canidae A FRENCH SOUTH. & ANTARCTIC TERR. 2018 October 17 (50th death anniv. Albert Faure) (SS/1) S98 Margin LL: Southern Elephant Seal, Mirounga leonina Phocidae Z GRENADA 2018 August 3 (Flora & Fauna) (Set/6) A 4288 \$10 West Indian Manatec, Trichechus manatus Trichechidae A 4289 \$20 Nine-banded Armadillo, Dasypus novemcinctus Dasyproctidae A 4288 \$30 Nine-banded Armadillo, Dasypus novemcinctus Dasyproctidae A 4284 A 42					
PRENCH SOUTH South Activation Act		685col	<u> </u>	Cervidae	A
### Result SOUTH	701		MS/6 (2ea Sc#/01a–c + 3 labels)		
PRENCH SOUTH. & ANTARCTIC TERR. 2018 October 17 (50th death anniv. Albert Faure) (SS/1)		NIA	2018 October 12 (Jackal) (Single)		
System	878	65c	Golden Jackal, Canis aureus	Canidae	A
CRENADA 2018 August 3 (Flora & Fauna) (Set/6)	FREN	CH SOUTE	I. & ANTARCTIC TERR. 2018 October 17 (50th death anni	v. Albert Faure) (SS/1)	
\$\ \cerc{4288}{280} \ \$\ \sqrt{10} \ \ \text{Nine-banded Armadillo, Dasypnes noveme incitus} \ \ \text{Dasypodidae} \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	598	Margin	LL: Southern Elephant Seal, Mirounga leonina	Phocidae	Z
\$10 West Indian Manatee, *Trichechus manatus	GREN	ADA	2018 August 3 (Flora & Fauna) (Set/6)		
Section Sec	4288	\$10		Trichechidae	A
Solita	4289	\$20	Nine-banded Armadillo, Dasypus novemcinctus	Dasypodidae	A
Solita	GREN	ADA GREI	NADINES 2018 March 7 (Mammals) (MS/5 & SS/1))	
Solit			, , , ,		A
3001d \$6 Northern Black-eared Opossum, Didelphis marsupialis Didelphidae A 3001e \$7 Geoffroy's Tailless Bat, Anoura geoffroyi Phyllostomidae A 3002 \$S \$14 Mona Monkey, Cercopithecus mona Cercopithecidae A 6UYANA 2018 November 20 (South American Tapirs) (MS/4 & SS/2) S 4589b \$300 South American Tapir, Tapirus terrestris (head facing R) Tapiridae A 4589b \$300 Same species (facing L) Tapiridae A 4589c \$300 Same species (facing front) Tapiridae A 4589d \$300 Same species (facing front) Tapiridae A 4590a \$S S500 South American Tapir, Tapirus terrestris Tapiridae A 4590a \$S \$550 South American Tapir, Tapirus terrestris Tapiridae A 4590b \$S \$550 South American Tapir, Tapirus terrestris Tapiridae A 1NDOTEIA 1 2017 June 1 (Lions Club International Centenary) (Horiz Pairi A	3001b				A
Solit	3001c	\$5	Wild Boar, Sus scrofa	Suidae	A
Solit	3001d	\$6	Northern Black-eared Opossum, Didelphis marsupialis	Didelphidae	A
GUYANN 2018 November 20 (South American Tapirs) (MS/4 & SS/2) 4589a \$300 South American Tapir, Tapirus terrestris (head facing R) Tapiridae A 4589b \$300 Same species (facing L) Tapiridae A 4589c \$300 Same species (striped head facing R) Tapiridae A 4589d \$300 Same species (facing front) Tapiridae A 4590a \$S\$500 South American Tapir, Tapirus terrestris Tapiridae A 4590b \$S\$550 South American Tapir, Tapirus terrestris Tapiridae A 4590b \$S\$550 South American Tapir, Tapirus terrestris Tapiridae A 4590b \$S\$500 South American Tapir, Tapirus terrestris Tapiridae A 4590b \$S\$500 South American Tapir, Tapirus terrestris Tapiridae A 4590b \$S\$500r Lion, Panthera leo & Q Pellidae A 4824 \$1000r Lion, Panthera leo & Q Pellidae A 4825 \$000r Brown Bear, Ursus arctos ssp. is	3001e	\$7		Phyllostomidae	A
South American Tapir, Tapirus terrestris (head facing R) Tapiridae A	3002	SS \$14	Mona Monkey, Cercopithecus mona	Cercopithecidae	A
South American Tapir, Tapirus terrestris (head facing R) Tapiridae A	GUYA	NA	2018 November 20 (South American Tap	irs) (MS/4 & SS/2)	
\$300			· · · · · · · · · · · · · · · · · · ·		A
Same species (striped head facing R) Tapiridae A			1 1	•	
SS \$500 South American Tapir, Tapirus terrestris Tapiridae A	4589c	\$300		_	A
SS \$550 South American Tapir, Tapirus terrestris Tapiridae A	4589d	\$300	Same species (facing front)	Tapiridae	A
INDONESIA 2017 June 1 (Lions Club International Centenary) (Horiz Pair) 2464a 5000r Lion, Panthera leo ♂ & ♀ Felidae A 2464b 5000r Lion, Panthera leo ♂ & ♀ Felidae A KAZAKHSTAN 2018 September 17 (Bears) (SS/2) S Brown Bear, Ursus arctos ssp. isabellinus Ursidae A 863b SS 500te Brown Bear, Ursus arctos ssp. isabellinus Ursidae A KAZAKHSTAN 2018 October 19 (Almaty State Nature Reserve Animals) (SS/3) Bovidae A 874a SS 500te Siberian Ibex, Capra sibirica Bovidae A 874c SS 500te Stoat (Ermine), Mustela erminea Mustelidae A KYRGYZ EXPRESS POST 2018 December 7 (Endangered Species) (Set/4 & SS/4) 99 50s Marbled Polecat, Vormela peregusna Mustelidae A 100 75s Pallas's Cat, Otocolobus manul Felidae A 101 100s Eurasian Lynx, Lynx lynx ssp. isabellinus Ursidae A 102a (SS/4 (Sc#99–102) Eurasian Lynx, Lynx lynx sp. isabellinus	4590a	SS \$500	South American Tapir, Tapirus terrestris	Tapiridae	A
2464a 5000r Lion, Panthera leo ♂ & ♀ Felidae A 2464b 5000r Lion, Panthera leo ♂ Relidae A KAZAKHSTAN 2018 September 17 (Bears) (SS/2) Winder the period of the period o	4590b	SS \$550	South American Tapir, Tapirus terrestris	Tapiridae	A
2464a 5000r Lion, Panthera leo ♂ & ♀ Felidae A 2464b 5000r Lion, Panthera leo ♂ Relidae A KAZAKHSTAN 2018 September 17 (Bears) (SS/2) Winder the period of the period o	INDON	NESIA	2017 June 1 (Lions Club International Ce	ntenary) (Horiz Pair)	
2464b5000rLion, Panthera leo ♂FelidaeAKAZAKHSTAN2018 September 17 (Bears) (SS/2)863aSS 500teBrown Bear, Ursus arctos ssp. isabellinusUrsidaeA863bSS 600teBrown Bear, Ursus arctos ssp. isabellinusUrsidaeAKAZAKHSTAN2018 October 19 (Almaty State Nature Reserve Animals) (SS/3)874aSS 500teSiberian Ibex, Capra sibiricaBovidaeA874cSS 500teStoat (Ermine), Mustela ermineaMustelidaeAKYRGYZ EXPRESS POST2018 December 7 (Endangered Species) (Set/4 & SS/4)9950sMarbled Polecat, Vormela peregusnaMustelidaeA10075sPallas's Cat, Otocolobus manulFelidaeA101100sEurasian Lynx, Lynx lynx ssp. isabellinusFelidaeA102150sBrown Bear, Ursus arctos ssp. isabellinusUrsidaeA102a(SS/4 (Sc#99-102)LIBERIA2017 March 14 (Wildlife) (Set/3)3189\$6000Red River Hog Potamochoerus porcusSuidaeA3190\$10000Leopard, Panthera pardusFelidaeACut7 April 14 (Animals of the World) (MS/4 & SS/1)3196c\$180African Wild Dog, Lycaon pictusCanidaeA				•	A
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863bSS 600teBrown Bear, Ursus arctos ssp. isabellinusUrsidaeAKAZAKHSTAN2018 October 19 (Almaty State Nature Reserve Animals) (SS/3)874aSS 500teSiberian Ibex, Capra sibiricaBovidaeA874cSS 500teStoat (Ermine), Mustela ermineaMustelidaeAKYRGYZ EXPRESS POST2018 December 7 (Endangered Species) (Set/4 & SS/4)9950sMarbled Polecat, Vormela peregusnaMustelidaeA10075sPallas's Cat, Otocolobus manulFelidaeA101100sEurasian Lynx, Lynx lynx ssp. isabellinusFelidaeA102150sBrown Bear, Ursus arctos ssp. isabellinusUrsidaeA102a(SS/4 (Sc#99–102)LIBERIA2017 March 14 (Wildlife) (Set/3)3189\$6000Red River Hog Potamochoerus porcusSuidaeA3190\$10000Leopard, Panthera pardusFelidaeA2017 April 14 (Animals of the World) (MS/4 & SS/1)3196c\$180African Wild Dog, Lycaon pictusCanidaeA				Ursidae	Α
KAZAKHSTAN SS 500te Siberian Ibex, Capra sibirica SS 500te Stoat (Ermine), Mustela erminea KYRGYZ EXPRESS POST 2018 December 7 (Endangered Species) (Set/4 & SS/4) 99 50s Marbled Polecat, Vormela peregusna Mustelidae A 100 75s Pallas's Cat, Otocolobus manul 101 100s Eurasian Lynx, Lynx lynx ssp. isabellinus 102 150s Brown Bear, Ursus arctos ssp. isabellinus 102a (SS/4 (Sc#99–102) LIBERIA 2017 March 14 (Wildlife) (Set/3) 3189 \$6000 Red River Hog Potamochoerus porcus \$1000 Set/4 & SS/1) \$196c \$180 African Wild Dog, Lycaon pictus Canidae A					
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KYRGYZ EXPRESS POST2018 December 7 (Endangered Species) (Set/4 & SS/4)9950sMarbled Polecat, Vormela peregusnaMustelidaeA10075sPallas's Cat, Otocolobus manulFelidaeA101100sEurasian Lynx, Lynx lynx ssp. isabellinusFelidaeA102150sBrown Bear, Ursus arctos ssp. isabellinusUrsidaeA102a(SS/4 (Sc#99–102)LIBERIA2017 March 14 (Wildlife) (Set/3)3189\$6000Red River Hog Potamochoerus porcusSuidaeA3190\$10000Leopard, Panthera pardusFelidaeA2017 April 14 (Animals of the World) (MS/4 & SS/1)3196c\$180African Wild Dog, Lycaon pictusCanidaeA			•		
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101 100s Eurasian Lynx, Lynx lynx ssp. isabellinus Felidae A 102 150s Brown Bear, Ursus arctos ssp. isabellinus Ursidae A 102a (SS/4 (Sc#99–102) LIBERIA 2017 March 14 (Wildlife) (Set/3) 3189 \$6000 Red River Hog Potamochoerus porcus Suidae A 3190 \$10000 Leopard, Panthera pardus Felidae A 2017 April 14 (Animals of the World) (MS/4 & SS/1) 3196c \$180 African Wild Dog, Lycaon pictus Canidae A					
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3190 \$10000 Leopard, Panthera pardus Felidae A 2017 April 14 (Animals of the World) (MS/4 & SS/1) 3196c \$180 African Wild Dog, Lycaon pictus Canidae A					
2017 April 14 (Animals of the World) (MS/4 & SS/1) 3196c \$180 African Wild Dog, Lycaon pictus Canidae A					
3196c \$180 African Wild Dog, Lycaon pictus Canidae A	3190	\$10000	Leopard, Panthera pardus	Felidae	A
			2017 April 14 (Animals of the World) (M	S/4 & SS/1)	
3197 SS \$360 Matschie's Tree Kangaroo, <i>Dendrolagus matschiei</i> Macropodidae A	3196c	\$180	African Wild Dog, Lycaon pictus	Canidae	A
	3197	SS \$360	Matschie's Tree Kangaroo, Dendrolagus matschiei	Macropodidae	A

LIBER	IA (continu	(MS/4 & SS/2) aed) 2017 July 24 (Fennec Foxes) (MS/4 & SS/2)	2)	
3219a	•	Fennec Fox, Vulpes zerda (facing front)	Canidae	A
3219b	\$180		Canidae	A
3219c	\$180		Canidae	A
3219d	\$180	A	Canidae	A
	Margin		Canidae	Z
3220a	SS \$250	Fennec Fox, Vulpes zerda (sitting)	Canidae	A
3220b	SS \$250	Same species (standing)	Canidae	A
	Margin	Bot: Same species	Canidae	Z
		2017 July 24 (Diana Monkeys) (MS/3 & SS	S/2)	
3221a	\$200	Diana Monkey, <i>Cercopithecus diana</i> (holding food)	Cercopithecidae	A
3221b	\$200	Same species (looking up)	Cercopithecidae	A
3221c	\$200	1	Cercopithecidae	A
3222a	SS \$200	Diana Monkey, Cercopithecus diana (facing L)	Cercopithecidae	A
3222b	SS \$200	Same species (facing front)	Cercopithecidae	A
	22 120			
3223a	\$180	2017 July 24 (Elephants) (MS/4 & SS/3) African Bush Elephant, <i>Loxodonta africana</i> (adults & juvenile)	Elephantidae	Λ
3223a 3223b	\$180	Same species (in jungle)	Elephantidae	A A
3223c	\$180	Same species (four animals)	_	
3223d	\$180	Same species (in grassland)	Elephantidae	A
3223u		LL: Same species	Elephantidae Elephantidae	A Z
3224a	SS \$180	-	Elephantidae	A
3224a 3224b	SS \$180		Elephantidae Elephantidae	
3224c	SS \$180	Same species (facing front)	Elephantidae	A A
3224C			Elephantidae	Z
	Margin		Елернаницае	L
2220	400	2018 January 24 (Hyenas) (MS/6 & SS/3)	** '1	
3239a	\$90	Spotted Hyena, Crocuta crocuta	Hyaenidae	A
3239b	\$90	Brown Hyena, Hyaena brunnea	Hyaenidae	A
3239c	\$100	Striped Hyena, Hyaena hyaena	Hyaenidae	A
3239d	\$100	¥ , ,	Hyaenidae	A
3239e	\$150	¥ , ,	Hyaenidae	A
3239f	\$150	·	Hyaenidae	A
22.40	Margin	Ctr: Spotted Hyena, Crocuta crocuta	Hyaenidae	Z
3240a	SS \$175		Hyaenidae	A
3240b	SS \$185	-	Hyaenidae	A
3240c	SS \$195	Same species	Hyaenidae	A
	Margin	R: Same species	Hyaenidae	Z
	***	2018 February 8 (Monkeys) (MS/4 & SS/2	*	
3244a	\$180	Collared Mangabey, Cercocebus torquatus	Cercopithecidae	Α
3244b	\$180	Mona Monkey, Cercopithecus mona	Cercopithecidae	Α
3244c	\$180	Green Monkey, Chlorocebus sabaeus	Cercopithecidae	A
3244d	\$180	Patas Monkey, Erythrocebus patas	Cercopithecidae	A
3245a	SS \$250	Diana Monkey, Cercopithecus diana	Cercopithecidae	A
3245b	SS \$250	Sooty Mangabey, Cercocebus atys	Cercopithecidae	A
LIBER		2018 May 22 (Big Cats) (MS/6)		
3266a	\$100	Lion Panthera leo	Felidae	A
3266b	\$100	Snow Leopard, Panthera uncia	Felidae	A
3266c	\$200	Cheetah, Acinonyx jubatus	Felidae	A

LIBER	IA (continu	ned)		
3266d	\$200	Leopard, Panthera pardus	Felidae	A
3266e	\$300	Leopard, Panthera pardus	Felidae	A
3266f	\$300	Tiger, Panthera tigris	Felidae	A
		2018 May 22 (Duikers) (MS/4 & SS/1)		
3268a	\$200	Common Duiker, Sylvicapra grimmia	Bovidae	A
3268b	\$250	Red Forest Duiker, Cephalophus natalensis	Bovidae	A
3268c	\$300	Red Forest Duiker, Cephalophus natalensis	Bovidae	A
3268d	\$350	Common Duiker, Sylvicapra grimmia	Bovidae	A
3269	SS \$500	Common Duiker, Sylvicapra grimmia	Bovidae	A
		2018 September 14 (Wild Cats) (MS/4 of	& SS/1)	
3287a	\$250	African Wild Cat, Felis silvestris ssp. lybica	Felidae	A
3287b	\$250	Black-footed Cat, Felis nigripes	Felidae	A
3287c	\$250	Jungle Cat, Felis chaus	Felidae	A
3287d	\$250	Caracal, Caracal caracal	Felidae	A
3288	SS \$500	Sand Cat, Felis margarita	Felidae	A
		2018 October 25 (Donkeys & Zebras) (S	SS/3)	
3292a	SS \$200	Donkey, Equus africanus ssp. asinus	Equidae	A
3292b	SS \$250	1 1 1	Equidae	A
3292c	SS \$300	Plains Zebra, Equus quagga	Equidae	A
		2018 October 25 (Great Zebra Migration	n) (MS/4 & SS/1)	
3293a	\$150	Burchell's Zebra, Equus quagga ssp. burchellii	Equidae	A
		Blue Wildebeest, Connochaetes taurinus	Bovidae	C
3293b	\$250	Burchell's Zebra, Equus quagga ssp. burchellii	Equidae	A
		Blue Wildebeest, Connochaetes taurinus	Bovidae	В
3293c	\$350	Burchell's Zebra, Equus quagga ssp. burchellii	Equidae	A
		Blue Wildebeest, Connochaetes taurinus	Bovidae	C
3293d	\$450	Burchell's Zebra, Equus quagga ssp. burchelli	Equidae	A
3293	Margin	1	Giraffidae	Z
		Bot: Blue Wildebeest, Connochaetes taurinus	Bovidae	Z
3294	SS \$600	Burchell's Zebra, Equus quagga ssp. burchelli	Equidae	A
	Margin	Bot: Same species	Equidae	Z
		LL & LR: African Bush Elephant, Loxodonta africana	Elephantidae	Z
NORW		2017 March 29 (Wildlife Type of 2006)		
1825	11.50k	Western Roe Deer, Capreolus capreolus	Cervidae	A
SLOVE		2018 September 28 (Endangered Anima		
1285		Eurasian Lynx, Lynx lynx (inscr. "A")	Felidae	A
1286		Mountain Hare, Lepus timidus (inscr. "B")	Leporidae	A
1287		Least Weasel, Mustela nivalis	Mustelidae	A
1288	(€1.17)	Southern Water Shrew, Neomys anomalus (inscr. "C")	Soricidae	(new) A
1289	(€1.31)	European Otter, Lutra lutra (inscr. "D")	Mustelidae	A
	KISTAN	2018 August 6 (Zomin Nature Reserve F		
861b	1000s	Wild Boar, Sus scrofa	Suidae	A
861d	2700s	Red Fox, Vulpes vulpes	Canidae	A

BRITISH BIRDS OF PREY

On 4 April 2019, the British Royal Mail issued a set of ten First Class stamps depicting photographs of various birds of prey native to the United Kingdom. Each bird was individually photographed by well-known and leading British animal photographer, Tim Flach, at the International Centre for Birds of Prey.



Included in the set are: White-tailed Eagle, Buzzard, Sparrowhawk, Merlin, Golden Eagle, Kestrel, Goshawk, Hobby, Red Kite, and Peregrine Falcon. Birds of prey are also known as "raptors."

The stamps and a range of collectible products are available on general sale from www.royalmail.com/birdsofprey.

British photographer, Tim Flach, who specializes in animal photography, has captured the exquisite beauty of the birds in a mix of close-up shots and the majestic sight of them in flight. He said of working with Royal Mail, "It's always very special to be invited to work on a set of stamps.

"I think it's great that Royal Mail has chosen to put a focus on the birds of prey that we have in the UK. I'm really mindful of the fact that we've never been more separated from nature. And, the stamps really let us better understand what these animals are. It's never been more important for us to think about the natural world."

Royal Mail also worked with Jemima Parry-Jones MBE, Director of the International Centre for Birds of Prey, conservationist, established author, and leading British authority on birds of prey.

She said of the stamps, "Look at the stamps, enjoy the stamps, see if you can recognize those birds that you might see in your garden—like a Sparrowhawk or a Kestrel or a Buzzard sitting on a telegraph pole. See if you can recognize them from the stamps—that would be a huge step forward."

Philip Parker, Royal Mail, said, "Our birds of prey are masters of the skies. Tim Flach's photography for our stamps captures their beauty and character in extraordinary detail."

The defining characteristic of birds of prey is that they are carnivores. Various birds eat meat, but only raptors catch and carry their food with their feet and have such exceptionally good binocular vision.

The diurnal birds of prey present in the UK are divided into several groups: eagles, true hawks, falcons, buzzards, kites, harriers, and the osprey.

The eagles are the Golden Eagle, a member of the booted eagle family, and the White-tailed Eagle, a member of the fish or sea-eagle family. Both are very large birds of prey, with the latter being the bigger of the two. In the UK, both are found in the more remote areas of Scotland and Northern Ireland.

There are two true hawks of the genus Accipiter: the Goshawk and the Sparrowhawk. These are forest species, with a short and very agile sprinting flight to catch their prey. Both have long tails and short rounded wings. Their yellow eyes turn orange and with age may even end up red.

The best-known falcon is the Peregrine. The others are the Kestrel (also known as the Windhover), the Merlin (the smallest British bird of prey), and the Hobby, present in the UK only in the summer, to breed.

The largest bird in the kite family, the Red Kite, is the only kite present in the UK and can now be seen in many places thanks to reintroductions and releases.

WHITE-TAILED EAGLE (Haliaeetus albicilla)

This very large eagle catches fish or sea birds with a low, slow approach, dropping its feet into the water to snatch the prey and then taking it to shore. These eagles were persecuted to extinction by 1918, but in 1975, a release program was started on Rum in Scotland. The population in Scotland is now around 60 breeding pairs, with more than 200 adult birds.

BUZZARD (Buteo buteo)

By the 1970s, the Common (or Eurasian) Buzzard was rare in the UK other than in the far west. Since then, however, there has been a huge increase thanks to more nesting areas and to rabbits surviving myxomatosis, and buzzards are now breeding in every county. Buzzards are usually seen on fine days soaring and calling, with a mewing cry, or sitting on poles, on fences by roads, or on the ground, particularly when ploughed in the winter. They scavenge roadkill, which can cause them traffic injuries, or feed on insects on the ground. There is enormous color variation in this species, from almost all cream to very dark brown.

MERLIN (Falco columbarius)

The Merlin, which belongs to the falcon family, is the smallest UK raptor and can be found during the spring and summer on the uplands, nesting on the ground underneath heather. A specialist bird-catcher, it feeds its young on larks and meadow pipits in the summer. Females are brown, as are juveniles, while adult males have a blue-grey back. After the autumn arrives, these birds move to lowlands, in a partial migration, for the winter. Since Merlins are fast, agile, and small, they are not commonly seen, but energetic young make a spectacular ringing flight after larks.

GOSHAWK (Accipiter gentilis)

This aggressive, forest-dwelling hunter was probably extinct as a breeder until the middle of the 20th century. Its wing shape allows it to twist and turn through trees, and its long legs and powerful feet are well suited to hunting birds and mammals up to the size of a hare, with a short, often surprise attack. Adults are grey and white, with fine horizontal bars on the breast, while juveniles are brown, with vertical brown stripes. Goshawks build large stick nests and lay up to four eggs. The parents are vocal in the spring, when they can sometimes be seen soaring high in good weather.

SPARROWHAWK (Accipiter nisus)

This little hawk is most commonly seen in gardens catching small birds. Its defining features are very long, thin legs and yellow eyes. Males are tiny in comparison to females. Both hunt birds, but females can take birds up to the size of a pigeon. The Sparrowhawk is often blamed, wrongly, for the demise of small birds, while in fact it is cats, cars, windows, and pesticides that are responsible. Sparrowhawks build a stick nest and rear up to five young. The young grow swiftly and become independent by the age of 14 weeks, although only about a third survive their first year.

HOBBY (Falco subbuteo)

Larger than the merlin, this little falcon migrates to the UK from Africa in the spring to breed. With its long, sickle-shaped wings, it resembles a giant swift and is incredibly nimble in flight. Feeding on dragonflies and other insects, the hobby is often seen near large bodies of water. It nests using abandoned crows' nests, and during the breeding season it hunts for swallows and swifts to feed its young. After the young are able to fly and can hunt for themselves, Hobbies migrate with the swallows back to Africa.

KESTREL (Falco tinnunculus)

Once the UK's most common raptor, observed hovering by roads and motorways, this falcon has seen a decrease of 40 percent over the past two decades. A key reason for the decline is the lack of sufficient nest sites and suitable grasslands for hunting. Kestrels are characterized by a beautiful chestnut-red color over their bodies. The female has a red tail with bars, while the adult male has a grey head and grey tail with a black band at its tip. These birds are best known for hunting mice and voles by hovering, often descending in stages to drop on their prey.

RED KITE (Milvus milvus)

By 1903, Red Kites had been persecuted close to extinction, with the last few remaining in the mountains of Wales, when a farmer started to feed them. Now, with four feeding stations, there are 900 pairs in Wales. There have been very successful translocation programs in England, Scotland, and Northern Ireland, so kites are now seen soaring together in many places. Long wings, a long, forked tail, and red color make the Red Kite easy to identify. These birds are mainly scavengers, feeding on roadkill and animal remains. They have small feet for their body size, which limits the prey they can catch.

GOLDEN EAGLE (Aquila chrysaetos)

The Golden Eagle prefers remote moorlands and mountains in Scotland, usually nesting on cliff ledges. It soars over the Highlands, catching rabbits, hares, and birds with its very powerful feet. It also consumes carrion, in some areas being reliant on dead animals during the winter. Golden Eagles pair for life. Of the two eggs that the female lays, one chick rarely survives, the other fledging at about three-and-a-half months. Juveniles have a mottled white and brown tail with a black band, which turns brown over the years. The golden feathers that give this eagle its name are on the head and the neck.

PEREGRINE FALCON (Falco peregrinus)

Brought to low numbers by pesticides in the middle of the 20th century, the Peregrine has recovered dramatically. Many Peregrines are now urban birds, nesting on cathedrals, other tall buildings, and bridges. Probably the fastest living creature, the Peregrine hunts birds up to the size of large gulls, almost always on the wing. It has a short tail and long, pointed wings. The juveniles are brown, while the adults have a grey-blue back. In the UK, these birds are sedentary, but Peregrines in other areas can be migratory, and they are the most widely spread raptors worldwide.



ORNITHOLOGY

Editor Glenn G. Mertz, BU1455



New Issues

Scott# Denom Common Name/Scientific Name Family/Subfamily Code

ANGOLA

2018 December 10

A repola stamps were each made available in sheets of ten of the same stamp. In an email to Martin

The following Angola stamps were each made available in sheets of ten of the same stamp. In an email to Martin J. Frankevicz, New Issues Editor for Scott Publications (Amos Press) they received 120 sheets of ten stamps, for 120 different stamps. Therefore, there are 48 individual Scott numbers for each of the twelve sets I have listed for Angola for issues featuring birds, and 12 souvenir sheets.

		2018 December 10 (Pigeons &	& Doves) (MS/4 & SS/1)	\mathbf{A}
1452	300k	African Green-Pigeon, Treron calvus	Columbidae	
1453	300k	Namaqua Dove, Oena capensis	Columbidae	
1454	300k	Speckled Pigeon, Columba guinea	Columbidae	
1455	300k	Ring-necked Dove, Streptopelia capicola	Columbidae	
1548	SS 1200k	Laughing Dove, Streptopelia senegalensis*	Columbidae	
	Margin	LR: Laughing Dove, Streptopelia senegalensis	Columbidae	
		UR: Speckled Pigeon, Columba guinea	Columbidae	
		LL: Ring-necked Dove, Streptopelia capicola	Columbidae	

^{*}If you are a reviewer of Kjell Scharning's website, Theme Birds on Stamps (www.birdtheme.org), you will see the genus of Spilopelia. This is a common, but not universal way of classifying these doves—Cornell may adopt this genu name in the future, but have not done so.

		2018 December 10 (Owls) (MS/4 & SS/1)		A
1456	300k	Spotted Eagle-Owl, Bubo africanus	Strigidae	
1457	300k	Akun Eagle-Owl, Bubo leucostictus	Strigidae	
1458	300k	African Scops-Owl, Otus senegalensis	Strigidae	
1459	300k	Pel's Fishing-Owl, Scotopelia peli	Strigidae	
1549	SS 1200k	Verreaux's Eagle-Owl, Bubo lacteus	Strigidae	
	Margin	R & LL: African-Scops-Owl, Otus senegalensis	Strigidae	
		2018 December 10 (Parrots) (Set/4 & SS/1)		A
1460	300k	Red-headed Lovebird, Agapornis pullarius	Psittaculidae	
1461	300k	Meyer's Parrot, Poicephalus meyeri ssp. reichenowi	Psittacidae	
1462	300k	Brown-necked Parrot, Poicephalus robustus	Psittacidae	
1463	300k	Rueppell's Parrot, Poicephalus rueppellii	Psittacidae	
1550	SS 1200k	Gray Parrot, Psittacus erithacus	Psittacidae	
	Margin	R: Rosy-faced Lovebird, Agapornis roseicollis ssp. catumbellus	Psittaculidae	
		2018 December 10 (Kingfishers) (MS/4 &	SS/1)	A
1464	300k	Woodland Kingfisher, Halcyon senegalensis	Alcedinidae	
1465	300k	Malachite Kingfisher, Corythornis cristatus	Alcedinidae	
1466	300k	African Pygmy-Kingfisher, Ispidina picta	Alcedinidae	
1467	300k	Pied Kingfisher, Ceryle rudis	Alcedinidae	
1551	SS 1200k	Gray-headed Kingfisher, Halcyon leucocephala	Alcedinidae	
	Margin	R: Malachite Kingfisher, Corythornis cristatus	Alcedinidae	

ANGO	OLA (continu	2018 December 10 (Bee-eaters) (MS/4 &	& SS/1)	A
1468		Blue-breasted Bee-eater, Merops variegates	Meropidae	
1469		White-throated Bee-eater, Merops albicollis	Meropidae	
1470	300k	White-fronted Bee-eater, Merops bullockoides	Meropidae	
1471	300k	Southern Carmine Bee-eater, Merops nubicoides	Meropidae	
1552	SS 1200k	Rosy Bee-eater, Merops malimbicus	Meropidae	
	Margin	R: Blue-cheeked Bee-eater, Merops persicus	Meropidae	
		2018 December 10 (Woodpeckers) (Set/	4 & SS/1)	A
1472	300k	Cardinal Woodpecker, Chloropicus fuscescens	Picidae	
1473		Golden-tailed Woodpecker, Campethera abingoni	Picidae	
1474	300k	Elliot's Woodpecker, Chloropicus elliotii	Picidae	(new)
1475	300k	Golden-crowned Woodpecker, Chloropicus xantholophus	Picidae	(new)
1553	SS 1200k	Bennett's Woodpecker, Campethera bennettii	Picidae	
	Margin	R: Rufous-necked Wryneck, Jynx ruficollis	Picidae	(new)
		2018 December 10 (Hornbills) (Set/4 &	SS/1)	A
1476	300k	Southern Yellow-billed Hornbill, Tockus leucomelas	Buceroridae	
1477	300k	Piping Hornbill, Bycanistes fistulator	Bucerotidae	
1478	300k	Crowned Hornbill, Lophoceros alboterminatus	Bucerotidae	(new)
1479	300k	Southern Ground-Hornbill, Bucorvus leadbeateri	Bucorvidae	
1554	SS 1200k	Trumpeter Hornbill, Bycanistes bucinator	Bucerotidae	
	Margin	R: Trumpeter Hornbill, Bycanistes bucinator	Bucerotidae	
		2018 December 10 (Warblers) (Set/4 & S	SS/1)	A
1480	300k	Red-capped Crombec, Sylvietta ruficapilla	Macrosphenidae	(new)
1481	300k	Lesser Swamp-Warbler, Acrocephalus gracilirostris	Acrocephalidae	(new)
1482	300k	Cape Crombec, Sylvietta rufescens	Macrosphenidae	(new)
1483	300k	Green Hylia, Hylia prasina	Macrosphenidae	(new)
1555	SS 1200k	Yellow-bellied Hyliota, Hyliota flavigaster	Hyliotidae	
	Margin	R: Moustached Grass Warbler, Melocichla mentalis	Macrosphenidae	
		2018 December 10 (Barbets) (Set/4 & SS	S/1)	A
1484	300k	L: Pied Barbet, Tricholaema leucomelas	Lybiidae	
		R: Yellow-throated Tinkerbird, Pogoniulus subsulphureus	Lybiidae	
1485	300k	Yellow-fronted Tinkerbird, Pogoniulus chrysoconus	Lybiidae	
1486	300k	Crested Barbet, Trachyphonus vaillantii	Lybiidae	
1487	300k	Black-backed Barbet, Lybius minor	Lybiidae	(new)
1556		Yellow-billed Barbet, Trachyphonus purpuratus	Lybiidae	
	Margin	R: Crested Barbet, Trachyphonus vaillantii	Lybiidae	
		2018 December 10 (Cuckoos) (Set/4 & S	SS/1)	A
1488		Blue-headed Coucal, Centropus monachus	Cuculidae	
1489		Klass's Cuckoo, Chrysococcyx klaas	Cuculidae	
1490		Dideric Cuckoo, Chrysococcyx caprius	Cuculidae	
1491		Great Spotted Cuckoo, Clamator glandarius	Cuculidae	
1557		African Emerald Cuckoo, Chrysococcyx cupreus	Cuculidae	
	Margin	R: African Cuckoo, Cuculus gularis	Cuculidae	
		2018 December 10 (Water Birds) (MS/4	& SS/1)	A
1492		Purple Heron, Ardea purpurea	Ardeidae	
1493		Great White Pelican, Pelecanus onocrotalus	Pelecanidae	
1494	300k	Caspian Tern, Hydroprogne caspia	Laridae	
1495	300k	Knob-billed Duck, Sarkidiornis melanotos	Anatidae	(new)

ANGO	LA (continu	ued)		
1558		Red-crested Pochard, Netta rufina	Anatidae	
	Margin	R: Ruff, Calidris pugnax \lozenge & \lozenge (Cap: Philomachus pugnax)	Scolopacidae	
		2018 December 10 (Birds of Prey) (MS/4 of	& SS/1)	A
1496		African Fish-Eagle, Haliaeetus vocifer	Accipitridae	
1497		Steppe Eagle, Aquila nipalensis	Accipitridae	
1498		Tawny Eagle, Aquila rapax	Accipitridae	
1499		Palm-nut Vulture, Gypohierax angolensis	Accipitridae	
1559		Bateleur, Terathopius ecaudatus	Accipitridae	
	Margin	R: Tawny Eagle, Aquila rapax	Accipitridae	
1531	300k	2018 December 10 (Endangered Species) (White-backed Vulture, <i>Gyps africanus</i>	(MS/4) Accipitridae	A
ANTIO	GUA & BAI	RBUDA 2018 October 1 (Magnificent Frigatebird)	(MS/4 & SS/1)	A
3424a		Magnificent Frigatebird, Fregata magnificens (on perch)	Fregatidae	
3424b	\$5	Same species (in flight)	Fregatidae	
3424c	\$6	Same species (facing L)	Fregatidae	
3424d	\$6	Same species (facing R)	Fregatidae	
3425	SS \$10	Same species	Fregatidae	
AUST	RALIA	2018 September 18 (Items Starting w/ San	ne Letter) (Set/5 & Bklt/10)	В
4853	\$1	Emu, Dromaius novaehollandiae (perf 143/4×14) (letter E)	Casuariidae	
4857	\$1	Chestnut-eared Finch, <i>Taeniopygia castanotis</i> (perf 14 ³ / ₄ ×14)	Estrildidae	
		(Letter Z) (also now lumped under the name of Zebra Finch)		
4858	\$1	Emu, <i>Dromaius novaehollandiae</i> (die cut 11¼) (s/a) (letter E)	Casuariidae	
4858a	¢ 1	Bklt/10 (Sc#4858) Chaptered and Final Transitional and activities and 111/2 (a/a)	V Dataildida	
4862 4862a	\$1	Chestnut-eared Finch, <i>Taeniopygia castanotis</i> (die cut 11 ¹ / ₄) (s/8 Bklt/10 (Sc#4862)	i) Estrididae	
		NTARCTIC TERR. 2018 September 25 (30th anniv. RSV Auro		В
L220	\$1	Adelie Penguin, <i>Pygoscelis adeliae</i>	Spheniscidae	
L222a		SS/4 (Sc#L219–22)		
	LADESH	2018 August (Fish Eagle) (Block/4 & SS/1		A
		ontaining one example of Sc#885a (perf 13½×14¼) sold for 60t, a		ng
a sheet	margins wit	th the country's flag, the 2018 Praga Expo show emblem, and a se	erial number sold for 80t.	
885a	20t	Pallas's Fish-Eagle, Haliaeetus leucoryphus (on branches)	Accipitridae	
885b	20t	Same species (in flight heading down & R)		
885c	20t			
885d	20t	Same species (on branch)		
885		Block/4 (Sc#885a-d) (perf 13 ¹ / ₄)		
BOTS	WANA	2018 August 30 (Kgalagadi Biodiversity) (A
1049		Namaqua Sandgrouse, Pterocles namaqua	Pteroclidae	
1050	50t	Bateleur, Terathopius ecaudatus	Accipitridae	
1053	2p	Sociable Weaver, Philetairus socius	Ploceidae	
1059	•	Knob-billed Duck, Sarkidiornis melanotos	Anatidae	
1061	30p	, 1	Charadriidae	
1061a		SS/5 (Sc#1049, 1050, 1053, 1059, 1061)		
		RCTIC TERR. 2018 November 1 (Penguins) (Set/12)		A
551	•	Adelie Penguin, Pygoscelis adeliae	Spheniscidae	
552	5p	Macaroni Penguin, Eudyptes chrysolophus	Spheniscidae	
553	10p	Chinstrap Penguin, Pygoscelis antarcticus	Spheniscidae	

BRIT	ISH ANTAR	RCTIC TERR. (continued)		
554	20p	Gentoo Penguin, Pygoscelis papua	Spheniscidae	
555	50p	King Penguin, Aptenodytes patagonicus	Spheniscidae	
556	66p	Adelie Penguin, Pygoscelis adeliae	Spheniscidae	
557	76p	Adelie Penguin, Pygoscelis adeliae	Spheniscidae	
558	£1	Macaroni Penguin, Eudyptes chrysolophus	Spheniscidae	
559	£1.20	Chinstrap Penguin, Pygoscelis antarcticus	Spheniscidae	
560	£2	Gentoo Penguin, Pygoscelis papua	Spheniscidae	
561	£3.50	King Penguin, Aptenodytes patagonicus	Spheniscidae	
562	£5	Emperor Penguin, Aptenodytes forsteri	Spheniscidae	
		2018 November 1 (Landscapes) (Set/4)		A
569	£1.01	Emperor Penguin, Aptenodytes forsteri (colony)	Spheniscidae	
		THERLANDS 2018 July 20 (Hummingbirds) (MS/8+2 labe		A
105a	150c	U/I sp. (also LL margin)	Trochilidae	
105b	150c	Ruby-throated Hummingbird, <i>Archilochus colubris</i> ♂	Trochilidae	
105c	150c	Ruby-throated Hummingbird, <i>Archilochus colubris</i> ♀	Trochilidae	
105d	150c		Trochilidae	
105e		Antillean Crested Hummingbird, Orthorhyncus cristatus	Trochilidae	
105f		U/I sp. (also LR margin)	Trochilidae	
105g		U/I sp. (also Top margin)	Trochilidae	
105h		Broad-billed Hummingbird, Cynanthus latirostris	Trochilidae	
	Margin	Bot: Ruby-throated Hummingbird, <i>Archilochus colubris</i> \circlearrowleft	Trochilidae	
CENT	RAL AFRI	,		A
a	900fr	Blue Hawk, Falco cyaneus	Falconidae	
		as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci	rcus cyaneus, Accipitridae	e)
(Wilso b		as Blue Hawk, but most avifauna recognize it as a Hen Harrier, <i>Ci</i> Bot: American Avocet, <i>Recurvirostra americana</i>	rcus cyaneus, Accipitridae Recurvirostridae	e)
b	900fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, <i>Ci</i> . Bot: American Avocet, <i>Recurvirostra americana</i> Top: Roseate Spoonbill, <i>Platalea ajaja</i>	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae	e)
b c	900fr 900fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia	e)
b	900fr 900fr 900fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, <i>Ci</i> Bot: American Avocet, <i>Recurvirostra americana</i> Top: Roseate Spoonbill, <i>Platalea ajaja</i> †Passenger Pigeon, <i>Ectopistes migratorius</i> Eurasian Griffon, <i>Gyps fulvus</i>	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae	e)
b c	900fr 900fr 900fr SS 3600fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae	e)
b c	900fr 900fr 900fr SS 3600fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus)	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae	
b c d	900fr 900fr 900fr SS 3600fr Margin	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1)	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae	e) A
b c d	900fr 900fr 900fr SS 3600fr Margin 900fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae	
b c d	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae Strigidae	
b c d	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae Strigidae Strigidae Strigidae	
b c d	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr 900fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae	
b c d	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr 900fr SS 3600fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae	
b c d	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr 900fr SS 3600fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus R: Great Gray Owl, Strix nebulosa	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae	A
b c d	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr SS 3600fr Margin	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus R: Great Gray Owl, Strix nebulosa 2018 December 20 (Global Warming) (MS/4)	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae	
b c d	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr SS 3600fr Margin	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus R: Great Gray Owl, Strix nebulosa 2018 December 20 (Global Warming) (MS/Adelie Penguin, Pygoscelis adeliae	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae	A
b c d	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr SS 3600fr Margin	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus R: Great Gray Owl, Strix nebulosa 2018 December 20 (Global Warming) (MS/Adelie Penguin, Pygoscelis adeliae Dovekie, Alle alle	Recurvirostridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Accipitridae Accipitridae	A
b c d	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr SS 3600fr Margin 900fr 900fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus R: Great Gray Owl, Strix nebulosa 2018 December 20 (Global Warming) (MS/Adelie Penguin, Pygoscelis adeliae Dovekie, Alle alle 2018 December 20 (Pigeons) (MS/4 & SS/1)	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae	A A
b c d a b c d	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr SS 3600fr Margin 900fr 900fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus R: Great Gray Owl, Strix nebulosa 2018 December 20 (Global Warming) (MS/Adelie Penguin, Pygoscelis adeliae Dovekie, Alle alle 2018 December 20 (Pigeons) (MS/4 & SS/1) Bolle's Pigeon, Columba bollii	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae (A) Spheniscidae Alcidae) Columbidae (ne	A
b c d a b c d a b b b	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr SS 3600fr Margin 900fr 900fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus R: Great Gray Owl, Strix nebulosa 2018 December 20 (Global Warming) (MS/Adelie Penguin, Pygoscelis adeliae Dovekie, Alle alle 2018 December 20 (Pigeons) (MS/4 & SS/1) Bolle's Pigeon, Columba bollii Nilgiri Wood-Pigeon, Columba elphinstonii	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Columbidae (necure columbidae Columbidae Columbidae	A A
b c d a b c d a b c	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 850fr 850fr 850fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus R: Great Gray Owl, Strix nebulosa 2018 December 20 (Global Warming) (MS/Adelie Penguin, Pygoscelis adeliae Dovekie, Alle alle 2018 December 20 (Pigeons) (MS/4 & SS/1) Bolle's Pigeon, Columba bollii Nilgiri Wood-Pigeon, Columba elphinstonii Papuan Mountain-Pigeon, Gymnophaps albertisii	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Columbidae Columbidae Columbidae Columbidae Columbidae	A A
b c d a b c d a b b b	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 850fr 850fr 850fr 850fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci. Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus R: Great Gray Owl, Strix nebulosa 2018 December 20 (Global Warming) (MS/Adelie Penguin, Pygoscelis adeliae Dovekie, Alle alle 2018 December 20 (Pigeons) (MS/4 & SS/1) Bolle's Pigeon, Columba bollii Nilgiri Wood-Pigeon, Columba elphinstonii Papuan Mountain-Pigeon, Gymnophaps albertisii European Turtle-Dove, Streptopelia turtur	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Columbidae Alcidae Columbidae Columbidae Columbidae Columbidae Columbidae Columbidae	A A
b c d a b c d a b c	900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 900fr SS 3600fr Margin 900fr 900fr 850fr 850fr 850fr 850fr 850fr	as Blue Hawk, but most avifauna recognize it as a Hen Harrier, Ci Bot: American Avocet, Recurvirostra americana Top: Roseate Spoonbill, Platalea ajaja †Passenger Pigeon, Ectopistes migratorius Eurasian Griffon, Gyps fulvus Eurasian Griffon, Gyps fulvus R: Hen Harrier, Circus cyaneus (Cap: Falco cyaneus) 2018 December 20 (Owls) (MS/4 & SS/1) Eurasian Eagle-Owl, Bubo bubo Great Gray Owl, Strix nebulosa Long-eared Owl, Asio otus Short-eared Owl, Asio flammeus Snowy Owl, Bubo scandiacus R: Great Gray Owl, Strix nebulosa 2018 December 20 (Global Warming) (MS/Adelie Penguin, Pygoscelis adeliae Dovekie, Alle alle 2018 December 20 (Pigeons) (MS/4 & SS/1) Bolle's Pigeon, Columba bollii Nilgiri Wood-Pigeon, Columba elphinstonii Papuan Mountain-Pigeon, Gymnophaps albertisii	rcus cyaneus, Accipitridae Recurvirostridae Threskiornithidae Columbia Accipitridae Accipitridae Accipitridae Strigidae Strigidae Strigidae Strigidae Strigidae Strigidae Columbidae Columbidae Columbidae Columbidae Columbidae	A A

CENTRA	L AFRI	CA (continued) 2018 December 20 (Hornbills) (MS/4 & S	S/1)	A
a		Southern Ground-Hornbill, Bucorvus leadbeateri	Bucorvidae	
b	900fr	Knobbed Hornbill, Rhyticeros cassidix	Bucerotidae	
c		Wrinkled Hornbill, Rhabdotorrhinus corrugatus	Bucerotidae	
d	900fr	Southern Yellow-billed Hornbill, Tockus leucomelas	Bucerotidae	
S		Wreathed Hornbill, <i>Rhyticeros undulates</i>	Bucerotidae	
		R: Knobbed Hornbill, <i>Rhyticeros cassidix</i>	Bucerotidae	
CHINA (Taiwan)	2018 October 3 (Birds) (MS/4)		A
4441a	\$7	Whiskered Tern, <i>Chlidonias hybrida</i> (in flight)	Laridae	11
4441b	\$7	Same species (on branch)	Laridae	
4441c	\$8	Pied Avocet, <i>Recurvirostra avosetta</i> (standing facing L)	Recurvirostridae	
4441d	\$8	Same species (feeding facing R)	recal virostrate	
CHRIST	MAS ISI		& SS/4)	A
570		Christmas Island Boobook, <i>Ninox natalis</i>	Strigidae	11
370	Ψ1	(This species now lumped under Southern Boobook that was	C	rk)
571	\$1	White-tailed Tropicbird, <i>Phaethon lepturus</i>	Phaethontidae	1K.)
572		Brown Goshawk, Accipiter fasciatus	Accipitridae	
573	\$2 \$2	Christmas Island White-eye, Zosterops natalis	Zosteropidae	
573a	Ψ2	SS/4 (Sc#570–73)	Zosteropidae	
COSTA I	DICA		danaa) (MS/6+2 labala)	A
701a	580col	2018 September 13 (200th anniv. Independent Clay-colored Thrush, <i>Turdus grayi</i>	Turdidae	A
701a 701	380001	MS/6+3 labels (2ea Sc#701a–c)	Turdidae	
CYPRUS		2018 September 27 (Birds) (Set/3)		A
1301		European Goldfinch, Carduelis carduelis	Fringillidae	
1302		European Greenfinch, Carduelis chloris	Fringillidae	
1303	€1	Common Chaffinch, Fringilla coelebs	Fringillidae	
FALKLA	ND ISL	ANDS 2018 October 18 (Migratory Birds) (2ea V	ert Pair)	A
1230a	31p	Rockhopper Penguin, Eudyptes chrysocome	Spheniscidae	
1230b	76p	Same species	Spheniscidae	
1231a	£1.01	Sooty Shearwater, Ardenna grisea	Procellariidae	
1231b	£1.22	Same species	Procellariidae	
FAROE I	SLAND	S 2018 September 24 (Christmas) (Set/2)		\mathbf{C}
719		Northern Gannet, Morus bassanus	Sulidae	_
FIJI		2011 August 15 (Pomegranate Tree & Bird	ds) (Horiz Pair) (Undate)	U C
1264a	65c	Small U/I sp.	() () () () () () () () ()	
1264b	\$1.20	Small U/I sp.		
FRANCE	<u>.</u>	2018 June 10 (Birds) (Single, SS/4 & 2ea S	SS/2)	A
5453	80c	Eurasian Blue Tit, Cyanistes caeruleus	Paridae	11
5454a	80c	European Robin, Erithacus rubecula	Muscicapidae	
5454b	80c	House Sparrow, Passer domesticus	Passeridae	
5454c	80c	Eurasian Magpie, <i>Pica pica</i>	Corvidae	
5454	000	SS/4 (Sc#5453, 5454a–c)	Corvidue	
5454d		SS/2 (Sc#5454a–b)		
5454e		SS/2 (Sc#5453, 5454c)		
3 13 10			1)	•
5156	٥n-	2018 June 20 (Tourism: Kaysersberg) (Sin	•	C
5456	80c	White Stork, Ciconia ciconia	Ciconiidae	

FRANC 5471	E (continu €1.30	ed) 2018 July 6 (Camargue Region House) (Si Greater Flamingo, <i>Phoenicopterus roseus</i>	ngle) Phoenicopteridae	В
FRENCI	H SOUTE	I. & ANTARCTIC TERR. 2018 June 7 (Penguins) (Set/3 & M	<u> </u>	A
594		Southern Rockhopper Penguin, Eudyptes chrysocome	Spheniscidae	11
595	20c	King Penguin, Aptenodytes patagonicus	Spheniscidae	
596	30c	Gentoo Penguin, Pygoscelis papua	Spheniscidae	
597a	85c	Emperor Penguin, Aptenodytes forsteri	Spheniscidae	
597b	85c	King Penguin, Aptenodytes patagonicus	Spheniscidae	
597c	85c	Gentoo Penguin, Pygoscelis papua	Spheniscidae	
597d	85c	Southern Rockhopper Penguin, Eudyptes chrysocome	Spheniscidae	
		2018 October 17 (Alfred Faure, Crozet Islands)	and Base) (SS/1)	C
598	SS 95c	Wandering Albatross, Diomedea exulans	Diomedeidae	
	Margin	LL: Emperor Penguin, Aptenodytes forsteri	Spheniscidae	
		MR: Great Shearwater, Ardenna gravis	Procellariidae	
Both cap	tioned Euc	2019 January 1 (Penguins) (Horiz Pair + Ladyptes chrysocome moseleyi, but ssp. moseleyi was previously ele		A
599a	95c	Moseley's Rockhopper Penguin, Eudyptes moseleyi	Spheniscidae	
599b		Same species	Sphemserate	
GERMA	NY	2018 July 12 (Garden Kingdom of Dessau-	-Wörlitz) (Horiz Pair)	C
3049	45c	Mute Swan, Cygnus olor	Anatidae	
3049a		Horiz Pair (Sc#3048–49)		
GREAT	BRITAIN	N 2018 August 16 (250th anniv. Endeavour l	Expedition) (Set/6 & MS/4)	В
3757	(58p)	Red-tailed Tropicbird, Phaethon rubricauda (w/ Joseph Banks)	•	
3758a		(Horiz Pair (Sc#3757–58)		
3762	£1.45	Blue-black Grassquit, Volatinia jacarina (w/ Sydney Parkinson) Thraupidae	
3762a		(Horiz Pair (Sc#3761–62)		
		2018 November 1 (Christmas) (MS/8 & M	(S/20)	C
3792e	£1.25	European Robin, Erithacus rubecula (w/ mailbox)	Muscicapidae	
3792		MS/8 (Sc#3792a-h) (perf 14½×15)		
3797	£1.25	Same species (photo) (die cut 14½×15) (s/a)	Muscicapidae	
3797a	£1.25	Same species (litho) (die cut 14½×15) (s/a) (w/label)	Muscicapidae	
3800b		MS/20+20 labels (Sc#3797a, 3798a, 3799a, 8ea Sc#3793b & 37	794b)	
GREAT		N (Isle of Man) 2017 October 19 (12 Days of Christmas) (\mathbf{A}
1904a	(52p)	Red-legged Partridge, Alectoris rufa	Phasianidae	
1904b	(52p)	European Turtle-Dove, Streptopelia turtur	Columbidae	
1904d	(52p)	Eurasian Blackbird, Turdus merula	Turdidae	
1904f	(52p)	Canada Goose, Branta canadensis	Anatidae	
1904g	(52p)	Mute Swan, Cygnus olor	Anatidae	
1904	/=- ·	Block/12 (Sc#1904a–l) (perf 12½)	DI	
1905a	(52p)	Red-legged Partridge, Alectoris rufa	Phasianidae	
1905b	(52p)	European Turtle-Dove, Streptopelia turtur	Columbidae	
1905d	(52p)	Eurasian Blackbird, Turdus merula	Turdidae	
1905f	(52p)	Canada Goose, Branta canadensis	Anatidae	
1905g	(52p)	Mute Swan, Cygnus olor	Anatidae	
1905		MS/12 (Sc#1905a–l) (die cut 12¾) (s/a)		

GRE	AT BRITAIN	V (Jersey) 2018 May 25 (150th anniv, JSPCA) (Set/8)		\mathbf{A}
2147	£2.64	Tawny Owl, Strix aluco	Strigidae	
		2018 September 3 (Birds) (SS/2 & SS/6)		\mathbf{A}
2170	50p	Red-billed Chough, Pyrrhocorax pyrrhocorax	Corvidae	
2171	50p	Yellowhammer, Emberiza citronella	Emberizidae	
2172	50p	Barn Owl, Hirundo rustica	Hirundinidae	
2173		European Stonechat, Saxicola rubicola	Muscicapidae	
2173		SS/2 (Sc#2170 & 2173)		
2174		European Goldfinch, Carduelis carduelis	Fringillidae	
2175		Eurasian Linnet, Carduelis cannabina	Fringillidae	
2175	a	SS/6 (Sc#2170–75)		
	NADA	2018 August 3 (Flora & Fauna) (Set/6)		A
4292	\$80	Grenada Dove, <i>Leptotila wellsi</i>	Columbidae	
GUI	NEA	2018 August 28 (Owls) (MS/4 & SS/1) (GU	J18412a&b)	A
a	12500fr	Barred Owl, Strix varia	Strigidae	
b	12500fr	Barn Owl, Tyto alba	Tytonidae	
c	12500fr	Elf Owl, Micrathene whitneyi	Strigidae	
d		Northern Hawk-Owl, Surnia ulula	Strigidae	
	SS 50000fr	Great Horned Owl, Bubo virginianus	Strigidae	
	Margin	UL: Snowy Owl, Bubo scandiacus	Strigidae	
		Bot: Long-eared Owl, Asio otus	Strigidae	
		2018 August 28 (Stamp-on-Stamp) (MS/4)	(GU18423a)	В
a	12500fr	American Kestrel, Falco sparverius (USA Sc#3044)	Falconidae	
d		Nuthatch, Sitta canadensis (Algeria Sc#633)	Sittidae	
		2018 October 23 (Water Birds) (MS/4 & SS	S/1) (GU18521a&b)	A
a	12500fr	2018 October 23 (Water Birds) (MS/4 & SS		A
a h		Canada Goose, Branta canadensis	Anatidae	A
b	12500fr	Canada Goose, <i>Branta canadensis</i> Australian Pelican, <i>Pelecanus conspicillatus</i>	Anatidae Pelecanidae	A
b c	12500fr 12500fr	Canada Goose, <i>Branta canadensis</i> Australian Pelican, <i>Pelecanus conspicillatus</i> Great Blue Heron, <i>Ardea herodias</i>	Anatidae Pelecanidae Ardeidae	A
b	12500fr 12500fr 12500fr	Canada Goose, <i>Branta canadensis</i> Australian Pelican, <i>Pelecanus conspicillatus</i> Great Blue Heron, <i>Ardea herodias</i> Mallard, <i>Anas platyrhynchos</i>	Anatidae Pelecanidae Ardeidae Anatidae	A
b c	12500fr 12500fr 12500fr SS 50000fr	Canada Goose, <i>Branta canadensis</i> Australian Pelican, <i>Pelecanus conspicillatus</i> Great Blue Heron, <i>Ardea herodias</i> Mallard, <i>Anas platyrhynchos</i> Great Egret, <i>Ardea alba</i>	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae	A
b c	12500fr 12500fr 12500fr SS 50000fr	Canada Goose, <i>Branta canadensis</i> Australian Pelican, <i>Pelecanus conspicillatus</i> Great Blue Heron, <i>Ardea herodias</i> Mallard, <i>Anas platyrhynchos</i> Great Egret, <i>Ardea alba</i> R: Mallard, <i>Anas platyrhynchos</i> ♂ & ♀	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae	
b c d	12500fr 12500fr 12500fr SS 50000fr Margin	Canada Goose, <i>Branta canadensis</i> Australian Pelican, <i>Pelecanus conspicillatus</i> Great Blue Heron, <i>Ardea herodias</i> Mallard, <i>Anas platyrhynchos</i> Great Egret, <i>Ardea alba</i> R: Mallard, <i>Anas platyrhynchos</i> ♂ & ♀ 2018 October 23 (Climate Change) (MS/4)	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae (GU18502a)	A
b c	12500fr 12500fr 12500fr SS 50000fr Margin	Canada Goose, <i>Branta canadensis</i> Australian Pelican, <i>Pelecanus conspicillatus</i> Great Blue Heron, <i>Ardea herodias</i> Mallard, <i>Anas platyrhynchos</i> Great Egret, <i>Ardea alba</i> R: Mallard, <i>Anas platyrhynchos</i> & \(\Phi \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, <i>Pygoscelis antarcticus</i>	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae (GU18502a) Spheniscidae	A
b c d	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr	Canada Goose, <i>Branta canadensis</i> Australian Pelican, <i>Pelecanus conspicillatus</i> Great Blue Heron, <i>Ardea herodias</i> Mallard, <i>Anas platyrhynchos</i> Great Egret, <i>Ardea alba</i> R: Mallard, <i>Anas platyrhynchos</i> & \(\psi \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, <i>Pygoscelis antarcticus</i> 2018 October 23 (Bee-eaters) (MS/4 & SS/4)	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b)	
b c d	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & \$\frac{1}{2}\$ 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/Little Bee-eater, Merops pusillus	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae	A
b c d b	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & \(\preceq \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae	A
b c d b	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & Q 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae Meropidae	A
b c d b	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr 12500fr	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & & \(\begin{align*} \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides European Bee-eater, Merops apiaster	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae Meropidae Meropidae Meropidae	A
b c d b	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr 12500fr SS 50000fr	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & & \(\begin{align*} \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides European Bee-eater, Merops apiaster European Bee-eater, Merops apiaster	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae	A
b c d b	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr 12500fr SS 50000fr	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & & \(\preceq \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides European Bee-eater, Merops apiaster European Bee-eater, Merops apiaster R: Same species	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae	A
b c d b c d	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr 12500fr Margin	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & & \(\bigcip \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides European Bee-eater, Merops apiaster European Bee-eater, Merops apiaster R: Same species 2018 October 23 (Arctic Animals) (MS/4 & SS/4)	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae Se SS/1) (GU18520a&b)	A
b c d b	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr 12500fr Margin 12500fr	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & & \(\preceq \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides European Bee-eater, Merops apiaster European Bee-eater, Merops apiaster R: Same species 2018 October 23 (Arctic Animals) (MS/4 & Snowy Owl, Bubo scandiacus	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae SS/1) (GU18520a&b) Strigidae	A
b c d b c d	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr 12500fr Margin 12500fr	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & & \(\begin{align*} & 2018 October 23 \) (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 \(\begin{align*} & \text{Bee-eaters} \) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides European Bee-eater, Merops apiaster European Bee-eater, Merops apiaster R: Same species 2018 October 23 \(\text{Arctic Animals} \) (MS/4 & Snowy Owl, Bubo scandiacus R: Snowy Owl, Bubo scandiacus	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae SS/1) (GU18520a&b) Strigidae Strigidae	A
b c d b c d	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr SS 50000fr Margin 12500fr SS 50000fr NEA-BISSAU	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos ♂ & ♀ 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides European Bee-eater, Merops apiaster European Bee-eater, Merops apiaster R: Same species 2018 October 23 (Arctic Animals) (MS/4 & Snowy Owl, Bubo scandiacus R: Snowy Owl, Bubo scandiacus R: Snowy Owl, Bubo scandiacus U 2018 July 17 (Birds of Prey) (MS/5+label & Snowy Owl, Bubo scandiacus	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae SS/1) (GU18520a&b) Strigidae Strigidae Strigidae SS/1) (GB18604a&b)	A
b c d b c d d GUII a	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr 12500fr SS 50000fr Margin 12500fr SS 50000fr NEA-BISSAU 640fr	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & & \(\preceq \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides European Bee-eater, Merops apiaster European Bee-eater, Merops apiaster R: Same species 2018 October 23 (Arctic Animals) (MS/4 & Snowy Owl, Bubo scandiacus R: Snowy Owl, Bubo scandiacus R: Snowy Owl, Bubo scandiacus Booted Eagle, Hieraaetus pennatus	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae SS/1) (GU18520a&b) Strigidae Strigidae Strigidae Strigidae Strigidae	A A
b c d b c d d	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr 12500fr SS 50000fr Margin 12500fr SS 50000fr NEA-BISSAU 640fr 640fr	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & & \(\pi \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides European Bee-eater, Merops apiaster European Bee-eater, Merops apiaster R: Same species 2018 October 23 (Arctic Animals) (MS/4 & Snowy Owl, Bubo scandiacus R: Snowy Owl, Bubo scandiacus R: Snowy Owl, Bubo scandiacus Common Buzzard, Buteo buteo	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae SS/1) (GU18520a&b) Strigidae Strigidae Strigidae Strigidae Accipitridae Accipitridae	A A
b c d b c d d GUII a	12500fr 12500fr 12500fr SS 50000fr Margin 12500fr 12500fr 12500fr 12500fr 12500fr SS 50000fr Margin 12500fr SS 50000fr Margin	Canada Goose, Branta canadensis Australian Pelican, Pelecanus conspicillatus Great Blue Heron, Ardea herodias Mallard, Anas platyrhynchos Great Egret, Ardea alba R: Mallard, Anas platyrhynchos & & \(\preceq \) 2018 October 23 (Climate Change) (MS/4) Chinstrap Penguin, Pygoscelis antarcticus 2018 October 23 (Bee-eaters) (MS/4 & SS/4) Little Bee-eater, Merops pusillus Northern Carmine Bee-eater, Merops nubicus Southern Carmine Bee-eater, Merops nubicoides European Bee-eater, Merops apiaster European Bee-eater, Merops apiaster R: Same species 2018 October 23 (Arctic Animals) (MS/4 & Snowy Owl, Bubo scandiacus R: Snowy Owl, Bubo scandiacus R: Snowy Owl, Bubo scandiacus Booted Eagle, Hieraaetus pennatus	Anatidae Pelecanidae Ardeidae Anatidae Ardeidae Anatidae Anatidae (GU18502a) Spheniscidae (1) (GU18508a&b) Meropidae Meropidae Meropidae Meropidae Meropidae Meropidae SS/1) (GU18520a&b) Strigidae Strigidae Strigidae Strigidae Strigidae	A A

GUIN	NEA-BISSAU	J (continued)		
e		Osprey, Pandion haliaetus	Pandionidae	
	Label	Red-tailed Hawk, Buteo jamaicensis	Accipitridae	
		Red-tailed Hawk, Buteo jamaicensis	Accipitridae	
		Booted Eagle, Hieraaetus pennatus	Accipitridae	
		R: Merlin, Falco columbarius	Falconidae	
		2018 August 10 (Owls) (MS/5 & SS/1) (Gl	B18705a&b)	A
a	640fr	Elf Owl, <i>Micrathene whitneyi</i> (also Bot margin)	Strigidae	
b		Long-eared Owl, Asio otus	Strigidae	
c		Spectacled Owl, <i>Pulsatrix perspicillata</i>	Strigidae	
d		Lesser Sooty-Owl, <i>Tyto multipunctata</i> (also MR margin)	Tytonidae	
e		Barred Owl, Strix varia	Strigidae	
		ML: Northern Hawk-Owl, Surnia ulula	Strigidae	
		Northern Hawk-Owl, Surnia ulula	Strigidae	
		R: Long-eared Owl, Asio otus	Strigidae	
		Bot: Barred Owl, Strix varia	Strigidae	
		2018 October 15 (Extinct Animals) (MS/5	& \$\$/1) (GB18904a&b)	В
c	640fr	Snail-eating Coua, Coua delalandei	Cuculidae Cuculidae	D
C		LL: Mascarene Parrot, Mascarinus mascarin	Psittaculidae	
	•	Mascarene Parrot, Mascarinus mascarin	Psittaculidae	
		LR: Snail-eating Coua, Coua delalandei	Cuculidae	
				D
	640fm	2018 October 15 (90th anniv. Roald Amun		В
a b		Snowy Owl, <i>Bubo scandiacus</i> Wandering Albatross, <i>Diomedea exulans</i>	Strigidae Diomedeidae	
		King Penguin, Aptenodytes patagonica	Spheniscidae	
e	04011		•	
	C 10 C	2018 October 15 (Lighthouses) (MS/5 & S		В
a		Common Loon, Gavia immer	Gaviidae	
b		Atlantic Puffin, Fratercula arctica	Alcidae	
C		Laughing Gull, Leucophaeus atricilla	Laridae	
d		Osprey, Pandion haliaetus	Pandionidae	
e		Gull-billed Tern, Gelochelidon nilotica	Laridae	
	33 330011	LL: Trumpeter Swan, Cygnus buccinator	Anatidae	
		2018 November 12 (Antarctica) (MS/5 & S		A
a		Adelie Penguin, Pygoscelis adeliae	Spheniscidae	
e		Antarctica Tern, Sterna vittata	Laridae	
	_	Top: Gentoo Penguin, Pygoscelis papua	Spheniscidae	
	SS 3300fr	Gentoo Penguin, Pygoscelis papua	Spheniscidae	
	Margin	R: Adelie Penguin, Pygoscelis adeliae	Spheniscidae	
		2018 November 12 (Hummingbirds) (MS/S		A
a		Violet-headed Hummingbird, Klais guimeti		ew)
b	640fr	Allen's Hummingbird, Selasphorus sasin	Trochilidae	
c	640fr	<i>C</i> , 1	Trochilidae	
d	640fr	White-chested Emerald, Amazilia brevirostris	Trochilidae	
e	640fr	Rufous Hummingbird, Selasphorus rufus	Trochilidae	
	Margin	Top: Green-breasted Mango, Anthracothorax prevostii	Trochilidae	
	SS 3300fr	Green-breasted Mango, Anthracothorax prevostii	Trochilidae	
	Margin	R: White-chested Emerald, Amazilia brevirostris	Trochilidae	

GUINI	EA-BISSAU	(continued) 2018 November 12 (Kingfishers) (MS/5 &		a&b) A
a		Common Kingfisher, Alcedo atthis	Alcedinidae	
b		White-throated Kingfisher, Halcyon smyrnensis	Alcedinidae	
c		Giant Kingfisher, Megaceryle maximus	Alcedinidae	
d		Belted Kingfisher, Megaceryle alcyon	Alcedinidae	
e		Amazon Kingfisher, Chloroceryle amazona	Alcedinidae	
		Top: Pied Kingfisher, Ceryle rudis	Alcedinidae	
		Pied Kingfisher, Ceryle rudis	Alcedinidae	
	Margin	R: Belted Kingfisher, Megaceryle alcyon	Alcedinidae	
		2018 December 17 (Owls) (MS/5 & SS/1) ((GB181106a&b)	\mathbf{A}
a	640fr	Spectacled Owl, Pulsatrix perspicillata	Strigidae	
b	640fr	Barn Owl, Tyto alba	Tytonidae	
c	640fr	Snowy Owl, Bubo scandiacus	Strigidae	
d	640fr	Striped Owl, Pseudoscops clamator	Strigidae	
e	640fr	Northern Saw-whet Owl, Aegolius acadicus	Strigidae	
	Margin	Top: Eurasian Eagle-Owl, Bubo bubo	Strigidae	
	SS 3300fr	Eurasian Eagle-Owl, Bubo bubo	Strigidae	
	Margin	R: Striped Owl, Pseudoscops clamator	Strigidae	
		2018 December 17 (Parrots) (MS/5 & SS/1) (GN181107a&b)	A
a	640fr	Regent Parrot, Polytelis anthopeplus	Psittaculidae	
b		Eclectus Parrot, Eclectus roratus	Psittaculidae	
c		Blue-and yellow-Macaw, Ara ararauna	Psittacidae	
d		Black-headed Parrot, Pionites melanocephalus	Psittacidae	
e		Hyacinth Macaw, Anodorhynchus hyacinthinus	Psittacidae	
		Top: Sulphur-crested Cockatoo, Cacatua galerita	Cacatuidae	
	-	Sulphur-crested Cockatoo, Cacatua galerita	Cacatuidae	
		R: Hyacinth Macaw, Anodorhynchus hyacinthinus	Psittacidae	
GUYA	NA	2018 June 7 (Wildlife) (Set/5)		A
4556	\$25	Scarlet Macaw, Ara macao	Psittacidae	11
4559		Black Curassow, Crax alector	Cracidae	
4560		White-throated Toucan, Ramphastos tucanus	Ramphastidae	
	Ψ150	•	-	
4562a	\$200	2018 July 13 (National Bird) (MS/4 & SS/1 Hoatzin, <i>Opisthocomus hoazin</i>	Opisthocomidae	A
4562b	\$300		Opisthocomidae	
4562c	\$300 \$450	Same species Same species	Opisthocomidae	
4562d	\$430 \$500	Same species	Opisthocomidae Opisthocomidae	
4563	SS \$850	Same species	Opisthocomidae Opisthocomidae	
4303	33 4630	•	-	
		2018 November 20 (Tanagers) (MS/6 & SS	·	A
4587a	\$200	Silver-breasted Tanager, Tangara icterocephala	Thraupidae	
		(previously on a Bernera British local issue)		
4587b	\$200	Silver-beaked Tanager, Ramphocelus carbo	Thraupidae	
4587c	\$200	Bay-headed Tanager, Tangara gyrola	Thraupidae	
4587d	\$200	Scarlet Tanager, Piranga olivacea	Cardinalidae	
4587e	\$200	Golden-hooded Tanager, Tangara larvata	Thraupidae	
4587f	\$200	Guira Tanager, Hemithraupis guira	Thraupidae	Vol. 68(1)
4588a	SS \$500	Speckled Tanager, Tangara guttata	Thraupidae	Vol. 68(1)
4588b	SS \$550	Same species	Thraupidae	
		2018 November 20 (50th anniv. Apollo 11)	(SS/2)	В
4592b	SS \$600	Bald Eagle, <i>Haliaeetus leucocephalus</i> (Apollo 11 patch)	Accipitridae	
		- · · · · · · · · · · · · · · · · · · ·	-	

HOND	OURAS	2017 October 11 (Plan International) (Set/	8)	В
C1417	251	Honduran Emerald, Amazilia luciae	Trochilidae	
INDO	NESIA	2016 October 21 (PhilaTaipei 2016 Exhibi	tion) (SS/1)	A
2452	SS 10000r	Green Peafowl, Pavo muticus	Phasianidae	
		2017 January 21 (New Year: Year of Roos	ster) (Strip/3, SS/6, & SS/	1) A
2456a	3000r	Red Junglefowl, Gallus gallus (facing R)	Phasianidae	-,
2456b		Same species (rooster, hen, and chicks)	Phasianidae	
2456c	3000r	Same species (hen facing L)	Phasianidae	
2456d		SS/6 (2ea Sc#2456a–c)		
2457	SS 10000r	Same species (vertical)	Phasianidae	
		2018 June 5 (World Environment Day) (He	oriz Pair)	\mathbf{C}
B245b	3000r+500r	White-breasted Waterhen, Amaurornis phoenicurus	Rallidae	
JAPA	N	2018 June 26 (50th anniv. Return of Bonin	Islands) (MS/10)	В
4214g	82¥	Bonin White-eye, Apalopteron familiare (two birds)	Zosteropidae	
4214h	82¥	Same species (one bird)	Zosteropidae	
		2018 October 9 (Letter Writing Week) (Se	t/6)	A
4241	8¥	Peregrine Falcon, Falco peregrinus	Falconidae	
4243	70¥	Java Sparrow, Lonchura oryzivora	Estrildidae	
4243a		Vert Pair (Sc#4242–43)		
KOSO	OVO	2018 January 31 (Birds) (Set/2 & MS/5+1	label)	A
364	40c	Eurasian Hoopoe, <i>Upupa epops</i>	Upupidae	
365	€1	Eurasian Golden Oriole, Oriolus oriolus	Oriolidae	
366a		Eurasian Kestrel, Falco tinnunculus	Falconidae	
366b		Great Crested Grebe, Podiceps cristatus	Podicipedidae	
366c	80c	European Startling, Sturnus vulgaris	Sturnidae	
366		MS/5 (Sc#364–65 & Sc#366a–c)		
	SYZSTAN	2018 September 15 (Surma-Tash State Na		C
581	76s	Common Kestrel, Falco tinnunculus	Falconidae	
LIBER	RIA	2017 August 2 (African Penguins) (MS/4 &	& SS/3)	A
3225a	\$180	African Penguin, Spheniscus demersus (two penguins)	Spheniscidae	
3225b	\$180		Spheniscidae	
3225c		Same species (two grooming)	Spheniscidae	
3225d		Same species (one penguin, feet showing)	Spheniscidae	
3226a	SS \$180	*	Spheniscidae	
3226b	SS \$180	Same species (beach bkgrd)	Spheniscidae	
3226c	SS \$180	Same species (sky bkgrd)	Spheniscidae	
2202	4.5 0	2018 August 8 (African Guineafowl) (MS/		A
3283a	\$170	Helmeted Guineafowl, Numida meleagris	Numididae	
3283b	\$170 \$170	Crested Guineafowl, Guttera pucherani Vulturing Guineafowl, A amilium vulturinum	Numididae	
3283c 3283d	\$170 \$180	Vulturine Guineafowl, Acryllium vulturinum	Numididae Numididae	
3283e	\$180	Helmeted Guineafowl, <i>Numida meleagris</i> Crested Guineafowl, <i>Guttera pucherani</i>	Numididae	
3283f	\$180	Vulturine Guineafowl, Acryllium vulturinum	Numididae	
3284	SS \$500	White-breasted Guineafowl, <i>Agelastes meleagrides</i>	Numididae	
	4000			

LIBERI	IA (continu	(MS/6 & SS (Oxpeckers) (MS/6 & SS)	/1)	\mathbf{A}
3295a	\$80	Red-billed Oxpecker, Buphagus erythrorhynchus	Buphagidae	
3295b	\$90	Same species, full vertical bird	Buphagidae	
3295c	\$100	Yellow-billed Oxpecker, Buphagus africanus	Buphagidae	
3295d	\$200	Red-billed Oxpecker, Buphagus erythrorhynchus	Buphagidae	
3295e	\$300	Yellow-billed Oxpecker, Buphagus africanus	Buphagidae	
3295f	\$400	Red-billed Oxpecker, Buphagus erythrorhynchus	Buphagidae	
3296	SS \$600	Red-billed Oxpecker, Buphagus erythrorhynchus	Buphagidae	
LIECH	TENSTEI	, , , ,		A
1777a	1.50fr	Golden Eagle, Aquila chrysaetos (In flight)	Accipitridae	
1777b	1.50fr	Same species, on ground looking backward	Accipitridae	
MALDI	VE ISLAN	NDS 2019 January 4 (Owls) (MS/4 & SS/1) (M	LD181213ab)	A
a	20m	Crested Owl, Lophostrix cristata	Strigidae	
b	20m	Short-eared Owl, Asio flammeus	Strigidae	
c	20m	Snowy Owl, Bubo scandiacus	Strigidae	
d	20m	Giant Scops-Owl, Otus gurneyi	Strigidae	
	SS 60m		Strigidae	
	Margin	Bot: Snowy Owl, Bubo scandiacus	Strigidae	
		LR: Giant Scops-Owl, Otus gurneyi	Strigidae	
		2019 January 4 (Ibis) (MS/4 & SS/1) (ML	D181201ab)	A
a	22m	Sacred Ibis, Threskiornis aethiopicus	Threskiornithidae	
b	22m	Buff-necked Ibis, Theristicus caudatus	Threskiornithidae	
c	22m	Madagascar Ibis, Lophotibis cristata	Threskiornithidae	
d	22m	Scarlet Ibis, Eudocimus ruber	Threskiornithidae	
		Scarlet Ibis, Eudocimus ruber	Threskiornithidae	
	Margin	Bot: Buff-necked Ibis, Theristicus caudatus	Threskiornithidae	
		2019 January 4 (Condors) (MS/4 & SS/1)	(MLD181211a&b)	A
a	20m	Andean Condor, Vultur gryphus (on perch)	Cathartidae	
b	20m	Same species (in flight)	Cathartidae	
c	20m	California Condor, Gymnogyps californianus (wings spread)	Cathartidae	
d	20m	Same species (head)	Cathartidae	
		Andean Condor, Vultur gryphus	Cathartidae	
	Margin	Bot: Same species	Cathartidae	
MONG	OLIA	2018 July 27 (Landscapes) (Set/7)		A
2899	1300t	Mongolian Ground-Jay, Podoces hendersoni	Corvidae	
MOZA	MBIQUE	2019 February 10 (Rare Birds) (MS/4 & S	S/1) (MOZ190109a&b)	A
a	116m	Turquoise-browned Motmot, Eumomota superciliosa	Momotidae	
b	116m	Andean Cock-of-the-Rock, Rupicola peruvianus	Cotingidae	
c	116m	Bare-faced Curassow, Crax fasciolata	Cracidae	
d	116m	Greater Bird-of-Paradise, Paradisaea apoda	Paradisaeidae	
	SS 300m	Resplendent Quetzal, Pharomachrus mocinno	Trogonidae	
	Margin	R: Hoatzin, Opisthocomus hoazin	Opisthocomidae	
		2019 February 10 (Hummingbirds) (MS/4	& SS/1) (MOZ190110a&	b)A
a	116m	Velvet-purple Coronet, Boissonneaua jardini	Trochilidae	
b	116m	Sparkling Violetear, Colibri coruscans	Trochilidae	
c	116m	Anna's Hummingbird, Calypte anna	Trochilidae	
d		Crowned Woodnymph, Thalurania colombica	Trochilidae	
	SS 300m	Tufted Coquette, Lophornis ornatus	Trochilidae	
	Margin	R: Allen's Hummingbird, Selasphorus sasin	Trochilidae	

MO	ZAMBIQUE ((continued) 2019 February 10 (Kingfishers) (MS/4 & SS/1) (MOZ1	90111a&b)	A
a	_	Black-capped Kingfisher, <i>Halcyon pileata</i> Alcedinidae		11
b		Stork-billed Kingfisher, <i>Pelargopsis capensis</i> Alcedinidae		
c		Black-capped Kingfisher, <i>Halcyon pileata</i> Alcedinidae		
d		Blue-eared Kingfisher, <i>Alcedo meninting</i> Alcedinidae		
u		Common Kingfisher, Alcedo atthis Alcedinidae		
		R: Stork-billed Kingfisher, <i>Pelargopsis capensis</i> Alcedinidae		
	iviai giii			
0	116m	2019 February 10 (Ducks) (MS/4 & SS/1) (MOZ19011) Hooded Merganser, <i>Lophodytes cucullatus</i> Anatidae	24&0)	A
a h		Hooded Merganser, <i>Lophodytes cucullatus</i> Green-winged Teal, <i>Anas crecca</i> Anatidae		
b				
C d				
d		Wood Duck, <i>Aix sponsa</i> Mandarin Duck, <i>Aix galericulata</i> Anatidae		
		, 6		
	Maighi	R: Common Goldeneye, Bucephala clangula Anatidae		
		2019 February 10 (Extinct Birds) (MS/4 & SS/1) (MOZ		A
a	116m			
b	116m	1 1	;	
c	116m	, 6 1		
d		†Archaeopteryx, Archaeopteryx lithographica †Archaeopt		
	SS 300m	L: †Confuciusornis, Confuciusornis sanctus †Confuciusornis		
		R: †Eoalulavis, <i>Eoalulavis hoyasi</i> Clade: †Ena		
	Margin	R: †Hokkaidornis, <i>Hokkaidornis abashiriensis</i> †Plotopterio	lae	
		2019 February 10 (Lighthouses) (MS/4) (MOZ190125a	.)	A
a	116m	American Herring Gull, Larus smithsonianus Laridae		
b	116m	Northern Gannet, <i>Morus bassanus</i> Sulidae		
c	116m	Black-headed Gull, Chroicocephalus ridibundus Laridae		
NIG	ER	2018 October 24 (Seabirds) (MS/4 & SS/1) (NIG18511a	a&b)	A
a	800fr	Dolphin Gull, Leucophaeus scoresbii Laridae		
b	800fr	Common Tern, Sterna hirundo Laridae		
c	800fr	Swallow-tailed Gull, <i>Creagrus furcatus</i> Laridae		
d	800fr	Long-tailed Cormorant, Microcarbo africanus Phalacrocor	acidae	
	SS 3300fr	Red-billed Tropicbird, <i>Phaethon aethereus</i> Phaethontid	lae	
	Margin	UR: Pacific Gull, <i>Larus pacificus</i> Laridae		
		LL: Black Skimmer, Rynchops niger Laridae		
		LR: Great White Pelican, <i>Pelecanus onocrotalus</i> Pelecanidae	;	
		2018 October 24 (Kingfishers) (MS/4 & SS/1) (NIG185	12a&b)	A
a	800fr	Stork-billed Kingfisher, <i>Pelargopsis capensis</i> Alcedinidae		
b	800fr	· · · · · · · · · · · · · · · · · · ·	<u>,</u>	
c	800fr)	
d	800fr)	
		Green-backed Kingfisher, Actenoides monachus Alcedinidae	;	
		LL & R: Common Kingfisher, <i>Alcedo atthis</i> Alcedinidae)	
	C	2018 November 22 (Parrots) (MS/4 & SS/1) (NIG18605	(a&h)	A
9	800fr	Australian King-Parrot, Alisterus scapularis Psittaculida	·	/1
a b	800fr			
	800fr	•		
c d		, 1 , 1		
d	800fr			
	SS 3300fr			
	wargin	Bot: Kakapo, Strigops habroptila Strigopidae		

NIG	ER (continued	2018 November 22 (Owls) (MS/4 & SS/1)	(NIG18601a&b)	A
a	800fr	Boreal Owl, Aegolius funereus	Strigidae	
b	800fr	Eastern Screech-Owl, Megascops asio	Strigidae	
c	800fr	Sri Lanka Bay-Owl, <i>Phodilus assimilis</i>	Tytonidae	
d	800fr	Eurasian Eagle-Owl, Bubo bubo	Strigidae	
	SS 3300fr	Long-eared Owl, Asio otus	Strigidae	
	Margin	LL: Eurasian Eagle-Owl, Bubo bubo	Strigidae	
		LR: Eastern Screech-Owl, Megascops asio	Strigidae	
		2018 November 22 (Antarctica) (MS/4) (N		\mathbf{A}
a		Emperor Penguin, Aptenodytes forsteri	Spheniscidae	
b	800fr	Snow Petrel, Pagodroma nivea	Procellariidae	
ST.	THOMAS & I	* / *		A
a		Long-eared Owl, Asio otus	Strigidae	
b		Tawny Owl, Strix aluco	Strigidae	
c		Northern Pygmy-Owl, Glaucidium gnoma	Strigidae	
d		Barred Owl, Strix varia	Strigidae	
	SS 124d	Snowy Owl, Bubo scandiacus	Strigidae	
	Margin	R: Barred Owl, Strix varia	Strigidae	
		2018 March 13 (Extinct Species) (MS/4 &		A
a	31d	†Huia, Heteralocha acutirostris	Callaeidae	
d		†Mauritius Blue-Pigeon, Alectroenas nitidissimus	Columbidae	
	SS 124d	R: †Laughing Owl, Sceloglaux albifacies	Strigidae	
		2018 March 13 (Hornbills) (MS/4 & SS/1)		A
a		Rufous-necked Hornbill, Aceros nipalensis	Bucerotidae	
b		Wreath Hornbill, Rhyticeros undulates	Bucerotidae	
C		Great Hornbill, Buceros bicornis	Bucerotidae	
d		Oriental Pied-Hornbill, Anthracoceros albirostris	Bucerotidae	
		Knobbed Hornbill, Rhyticeros cassidix	Bucerotidae	
	Margin	Bot: Great Hornbill, Buceros bicornis	Bucerotidae Bucerotidae	
		R: Knobbed Hornbill, <i>Rhyticeros cassidix</i>		
	21.1	2018 March 13 (Birds of Prey) (MS/4 & S/4)		A
a		White-tailed Eagle, Haliaeetus albicilla	Accipitridae	
b		Red Kite, Milvus milvus	Accipitridae	
C		Eurasian Kestrel, Falco tinnunculus	Falconidae	
d		Bald Eagle, Haliaeetus leucocephalus	Accipitridae Falconidae	
	SS 124d Margin	Saker Falcon, <i>Falco cherrug</i> R: Eurasian Marsh-Harrier, <i>Circus aeruginosus</i>	Accipitridae	
	Maigiii		-	
	21.1	2019 February 4 (Pigeons) (MS/4 & SS/1)		A
a		Oriental Turtle-Dove, Streptopelia orientalis	Columbidae	
b		Pied Imperial-Pigeon, Ducula bicolor	Columbidae	
C		Crested Pigeon, Ocyphaps lophotes	Columbidae Columbidae	
d	31d	Asian Emerald Dove, Chalcophaps indica	Columbidae	
	SS 124d	Domestic Pigeon, <i>Columba livia ssp. domestica</i> (Cap: <i>Pombo cauda de leque</i>)	Commondae	
	Margin	R: Nicobar Pigeon, Caloenas nicobarica	Columbidae	
SIE	RRA LEONE	2018 April 27 (205th anniv. Alexander Wil	son) (MS/4 & SS/1)	В
a	9800le	Pine Warbler, Setophaga pinus		67(3)
b		Gray Heron, Ardea cinerea	Ardeidae	
c	9800le	Baltimore Oriole, Icterus galbula	Icteridae	

SIER	RRA LEONE	(continued)		
d		Mountain Bluebird, Sialia currucoides	Turdidae	
		Pileated Woodpecker, Dryocopus pileatus	Picidae	
		LL & R: Wild Turkey, Meleagris gallopavo	Phasianidae	
	C	LR: American Robin, <i>Turdus migratorius</i>	Turdidae	
		2018 April 27 (Kingfishers) (MS/4 & SS/1)	(SRI 18307a&b)	A
a	98001e	Ruddy Kingfisher, <i>Halcyon coromanda</i>	Alcedinidae	A
b		Forest Kingfisher, Todiramphus macleayii	Alcedinidae	
c		Pied Kingfisher, Ceryle rudis	Alcedinidae	
d		Common Kingfisher, Alcedo atthis	Alcedinidae	
u		Laughing Kookaburra, Dacelo novaeguineae	Alcedinidae	
		UR: Buff-breasted Paradise-Kingfisher, <i>Tanysiptera sylvia</i>	Alcedinidae	
	111415111	LR: Black-backed Dwarf-Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
		LL: Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
		•		A
0	08001a	2018 April 27 (Owls) (MS/4 & SS/1) (SRL Pharaoh Eagle-Owl, <i>Bubo ascalaphus</i>	Strigidae	A
a b	9800le	Cape Eagle-Owl, Bubo capensis	Strigidae	
c		African Wood-Owl, Strix woodfordii	Strigidae	
d		Spotted Eagle-Owl, Bubo africanus	Strigidae	
u		Verreaux's Eagle-Owl, Bubo lacteus	Strigidae	
	Margin	Top: Barn Owl, Tyto alba	Tytonidae	
	Margin	R: Northern White-faced Owl, <i>Ptilopsis leucotis</i>	Strigidae	
		LL: Spotted Eagle-Owl, Bubo africanus	Strigidae	
		· · · · · · · · · · · · · · · · · · ·	_	n
	09001	2018 May 30 (Lighthouses) (MS/4 & SS/1)	Procellariidae	В
a b		Cory's Shearwater, Calonectris diomedea ssp. borealis Wilson's Storm-Petrel, Oceanites oceanicus		
b		Balearic Shearwater, <i>Puffinus mauretanicus</i>	Hydrobatidae Procellariidae	
c d		Manx Shearwater, Puffinus puffinus	Procellariidae	
u		Fea's Petrel, Pterodroma feae	Procellariidae	
		Cory's Shearwater, Calonectris diomedea ssp. borealis	Procellariidae	
	Margin	-		
	00001-	2018 May 30 (Seabirds) (MS/4 & SS/1) (SR		A
a 1-		European Shag, Phalacrocorax aristotelis	Phalacrocoracidae	
b	9800le 9800le	Northern Gannet, Morus bassanus	Sulidae Procellariidae	
C d		Sooty Shearwater, <i>Ardenna grisea</i> Brown Booby, <i>Sula leucogaster</i>	Sulidae	
d		Long-tailed Cormorant, Microcarbo africanus	Phalacrocoracidae	
		UL: Black-headed Gull, Chroicocephalus ridibundus	Laridae	
	Margin	LR: Cory's Shearwater, Calonectris diomedea ssp. borealis	Procellariidae	
	00001-	2018 June 29 (Birds of Prey) (MS/4 & SS/1		A
a 1.		Osprey, Pandion haliaetus	Pandionidae	
b		Brown Snake-Eagle, Circaetus cinereus	Accipitridae	
c d	9800le 9800le	African Harrier-Hawk, <i>Polyboroides typus</i> Tawny Eagle, <i>Aquila rapax</i>	Accipitridae	
u	SS 40000le	White-backed Vulture, Gyps africanus	Accipitridae Accipitridae	
		LL: Shikra, Accipiter badius	Accipitridae	
	wangiii	UR: African Fish-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae	
		LR: Lesser Kestrel, Falco naumanni	Falconidae	
		Lix. Lesser resurt, 1 and mammin	1 arcomaac	

SIEI	RRA LEONE	(continued) 2018 October 30 (Pigeons) (MS/4 & SS/1)	(SRL18911a&b) A
a		New Zealand Pigeon, Hemiphaga novaeseelandiae	Columbidae
b		Yellow-footed Pigeon, Treron phoenicopterus	Columbidae
c	9800le	Pheasant Pigeon, Otidiphaps nobilis	Columbidae
d		Papuan Mountain-Pigeon, Gymnophaps albertisii	Columbidae
		Crested Pigeon, Ocyphaps lophotes	Columbidae
		Bot: Pheasant Pigeon, Otidiphaps nobilis	Columbidae
	00001	2018 November 30 (Lighthouses) (MS/4 &	
a		U/I gull	Laridae
	SS 40000le	Bot: U/I gull	Laridae
	00001	2018 November 30 (Owls) (MS/4 & SS/1)	
a		Great Gray Owl, Strix nebulosa	Strigidae
b		Barn Owl, Tyto alba	Tytonidae
c		Ural Owl, Strix uralensis	Strigidae
d		Great Horned Owl, Bubo virginianus	Strigidae
		Tawny Owl, Strix aluco	Strigidae
	Margin	Bot: Great Gray Owl, Strix nebulosa	Strigidae
		2018 November 30 (Hummingbirds) (MS/4	
a		Lesser Violetear, Colibri cyanotus	Trochilidae
b		Brown Violetear, Colibri delphinae	Trochilidae
c		Rufous-tailed Hummingbird, Amazilia tzacatl	Trochilidae
d		White-vented Violetear, Colibri serrirostris	Trochilidae
		Long-tailed Sylph, Aglaiocercus kingii	Trochilidae
	Margin	LL: Lesser Violetear, Colibri cyanotus	Trochilidae
		LR: Rufous-tailed Hummingbird, Amazilia tzacatl	Trochilidae
		Ctr: Brown Violetear, Colibri delphinae	Trochilidae
		2018 November 30 (Penguins) (MS/4 & SS	
a		Macaroni Penguin, Eudyptes chrysolophus	Spheniscidae
b	9800le	Top: Brown Skua, Stercorarius antarcticus	Stercorariidae
		Bot: Gentoo Penguin, Pygoscelis papua	Spheniscidae
c	9800le	Magellanic Penguin, Spheniscus magellanicus	Spheniscidae
d	9800le	Humboldt Penguin, Spheniscus humboldti	Spheniscidae
		Yellow-eyed Penguin, Megadyptes antipodes	Spheniscidae
	Margin	LL: Brown Skua, Stercorarius antarcticus	Stercorariidae
		LR: Gentoo Penguin, Pygoscelis papua	Spheniscidae
		2018 November 30 (150th anniv. Robert Fa	alcon Scott) (MS/4 & SS/1) A
a	9800le	Emperor Penguin, Aptenodytes forsteri (Scott portrait)	Spheniscidae
c	9800le	Same species (ship in bkgrd)	Spheniscidae
	SS 40000le	Same species (Scott portrait)	Spheniscidae
		2018 December 28 (Birds of Prey) (MS/4 &	
a		Ural Owl, Strix uralensis	Strigidae
b	9800le	Merlin, Falco columbarius	Falconidae
c	9800le	California Condor, Gymnogyps californianus	Cathartidae
d		Eurasian Marsh-Harrier, Circus aeruginosus	Accipitridae
	SS 40000le	Southern Caracara, Caracara plancus	Falconidae
	Margin	R: Eurasian Marsh-Harrier, Circus aeruginosus	Accipitridae

SIER	RA LEONE			A
a		Western Swamphen, Porphyrio porphyrio	Rallidae	
b		Wood Duck, Aix sponsa	Anatidae	
c		Northern Lapwing, Vanellus vanellus	Charadriidae	
d		Canada Goose, Branta canadensis	Anatidae	
		Common Crane, Grus grus	Gruidae	
	Margin	R: Northern Lapwing, Vanellus vanellus	Charadriidae	
		2019 January 30 (Rare Birds) (MS/4 & SS/		A
a		Cattle Egret, Bubulcus ibis	Ardeidae	
b	12500le	Resplendent Quetzal, Pharomachrus mocinno	Trogonidae	
c	12500le	Andean Cock-of-the-Rock, Rupicola peruvianus	Cotingidae	
d		Great Curassow, Crax rubra	Cracidae	
		Indian Bustard, Ardeotis nigriceps	Otididae	
	Margin	R: Red-crowned Crane, Grus japonensis	Gruidae	
		2019 January 30 (Owls) (MS/4 & SS/1) (S		A
a		Barn Owl, Tyto alba	Tytonidae	
b		Western Screech-Owl, Megascops kennicottii	Strigidae	
c		Eurasian Pygmy-Owl, Glaucidium passerinum	Strigidae	
d		Eurasian Eagle-Owl, Bubo bubo	Strigidae	
		Snowy Owl, Bubo scandiacus	Strigidae	
	Margin	Ctr: Long-eared Owl, Asio otus	Strigidae	
		R: Eurasian Eagle-Owl, Bubo bubo	Strigidae	
		2019 January 30 (Water Birds) (MS/4 & S	S/1) (SRL190117a&b)	A
a	12500le	Double-crested Cormorant, Phalacrocorax auritus	Phalacrocoracidae	
b	12500le	African Jacana, Actophilornis africanus	Jacanidae	
c	12500le	Eared Grebe, Podiceps nigricollis	Podicipedidae	
d	12500le	Eurasian Spoonbill, Platalea leucorodia	Threskiornithidae	
	SS 50000le	James's Flamingo, Phoenicoparrus jamesi	Phoenicopteridae	
	Margin	R: Same species	Phoenicopteridae	
		2019 February 27 (Indian Trains) (MS/4) (SRL190205a)	В
c	12500le	Himalayan Monal, Lophophorus impejanus	Phasianidae	
		2019 February 27 (Endangered Species) (M	MS/4) (SRL190218a)	В
c	12500le	Galapagos Penguin, Spheniscus mendiculus	Spheniscidae	
	Margin	L: Same species	Spheniscidae	
TRIS	TAN DA CU	2018 October 18 (Migratory Birds) (2ea Ve	ert Pairs)	A
1147a	a 85p	Yellow-nosed Albatross, <i>Thalassarche chlororhynchos</i> (flying)	Diomedeidae	
1147l	o 85p	Same species (on nest)	Diomedeidae	
1148a	a 90p	Great Shearwater, Ardenna gravis (in flight)	Procellariidae	
11481	90p	Same species (in water)	Procellariidae	
UZB]	EKISTAN	2018 (Birds Type of 2017) (Set/12)		A
845	650s	Rock Dove, Columba livia	Columbidae	
846	800s	Thrush Nightingale, Luscinia luscinia	Muscicapidae	
847	1000s	Mute Swan, Cygnus olor	Anatidae	
848	1300s	Same species	Anatidae	
849	1800s	Same species	Anatidae	
850	2500s	Thrush Nightingale, Luscinia luscinia	Muscicapidae	
851	2600s	Common Crane, Grus grus	Gruidae	
852	2800s	White Stork, Ciconia ciconia	Ciconiidae	
853	3500s	Common Quail, Coturnix coturnix	Phasianidae	

UZBEKI	ISTAN (c	ontinued)		
854	4550s	White Stork, Ciconia ciconia	Ciconiidae	
855	7800s	Eurasian Magpie, Pica pica	Corvidae	
856	15800s	Eurasian Magpie, Pica pica	Corvidae	
		2018 August 6 (Zomin Nature Reserve Flo	ora & Fauna) (MS/8)	\mathbf{A}
861a	900s	Common Raven, Corvus corax	Corvidae	
861f	3200s	Chukar, Alectoris chukar	Phasianidae	
		2018 November 23 (Fauna) (Set/4)		\mathbf{A}
866	2700s	Common Rosefinch, Carpodacus erythrinus	Fringillidae	
VATICA	N CITY	2018 November 9 (Gioachino Rossini) (Si	ngle)	SC
1695	€2.40	Eurasian Magpie, Pica pica (stylized)	Corvidae	
		2018 November 9 (Popes) (Set/2)		\mathbf{C}
1698	€1.15		Fringillidae	

EUROPA STAMPS

Birds on stamps collectors should be able to gather flocks of birds for their collections in 2019. Each year the PostEurop Association (from 1960 to 1992, known as the European Conference of Postal and Telecommunications Administrations [CEPT]) sponsors the Europa joint stamp issues with a common design or theme and produced by the postal administrations of its member countries. This year the theme is "National Birds."

Already this year we have seen Europa bird issues from Austria, Azores, Belarus, Cyprus, Czech Republic, Greece, Guernsey, Iceland, Ireland, Jersey, Kosovo, Liechtenstein, Lithuania, Luxembourg, Madeira, Malta, Moldova, Monaco, Montenegro, Netherlands, Norway, Poland, Portugal, Romania, Russia, Serbia, Spain, Spanish Andorra, Sweden, and Turkey. There surely are others.

On 24 April 2019, the Czech Republic issued a single Europa stamp produced in sheets of six depicting a pair of Common Kingfishers (*Alcedo atthis*). The stamp was designed by Jaromír Knotkovi and Libuše Knotkovi. The denomination is shown as "E," which is equal to 39k.

The Common Kingfisher is also known as the Eurasian Kingfisher and has a wide distribution across Eurasia and North Africa. It is small, about the size of a sparrow, and has a relatively large head and long bill. It feeds mainly on fish, caught by diving, and has special visual adaptations to enable it to see prey under water.



NEW BIRDS IN THE PHILATELIC AVIARY

Charles E. Braun, BU1364

New Birds



†CONFUCIONURNIS, Confuciusornis sanctus Confuciusornithidae Mozambique, 2019 February 10, not yet cataloged, 300m SS (extinct 120 million years ago)

Length: 20 inches, sexes alike, resident. Dark body and pale wings and a

long dark tail and a toothless bill.

Habitat: Treetops. Range: Central China.

Reference: Ivanov, M., S. Hrdlickov, and R. Gregorova. The Complete

Encyclopedia of Fossils.

ANDAMAN SERPENT-EAGLE, Spilornis elgini Accipitridae Surinam, 2019 February 13, not yet cataloged, \$14

Length: 20 to 22 inches, sexes alike, resident. All white-spotted dark brown, paler

below.

Habitat: Forest clearings and hillsides with scattered trees.

Range: Andaman Islands, India.

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

World, Volume 2.

BESRA, Accipiter virgatus Accipitridae

Tonga, 2018 December 18, not yet cataloged, \$4.30

Length: 9 to 14 inches, sexes similar, resident. Brown above and streaked and barred

whitish below with a dark throat stripe.

Habitat: Highland forest.

Range: Northern India to Taiwan, the Philippines, and Bali.

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

World, Volume 2.



RED-LEGGED CRAKE, Rallina fasciata Rallidae Palau, 2018 December 19, not yet cataloged, 75c

Length: 9 to 10 inches, sexes alike, resident. Brown above and black-barred white below with a cinnamon head, neck, and breast.

Habitat: Low wetlands and open hillsides.

Range: Northeastern India to the Philippines and the Moluccas.

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

World, Volume 3.





DUSKY TURTLE-DOVE, Streptopelia lugens Columbidae

Ethiopia, 2018, not yet cataloged, 60c

Length: 11 inches, sexes alike, resident. Dark brownish gray above and bluish gray head and below with black neck patches.

Habitat: Montane forest.

Range: Southeastern Sudan to Yemen and northern Malawi.

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

of the World, Volume 4.



BAR-SHOULDERED DOVE, Geopelia humeralis Columbidae

Togo, 2019 February 25, not yet cataloged, 800fr

Length: 10 to 12 inches, sexes similar, resident. Scalloped light grayish brown above and pink and bluish gray below.

Habitat: Scrubby woodland.

Range: Southeastern New Guinea and western, northern and eastern

Australia.

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

Birds of the World, Volume 3.



WHITE-BELLIED GO-AWAY-BIRD, Corythaixoides leucogaster

Musophagidae

Ethiopia, 2018, not yet cataloged, 40c

Length: 18 inches, resident. The male (shown) is gray with a white belly and a dark bill. The female has a yellow bill.

Habitat: Low-lying acacia steppe and savanna.

Range: Southern Sudan to Tanzania.

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

of the World, Volume 4.



GOLDEN MASKED-OWL, Tyto aurantia Tytonidae

Surinam, 2019 April 10, not yet cataloged, \$4.50

Length: 11 to 13 inches, sexes similar, resident. Blackish-brown mottled golden-buff

above. Paler below. Habitat: Rainforest. Range: New Britain.

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

World, Volume 5.

TALIABU OWL, Tyto nigrobrunnea Tytonidae

Surinam, 2019 April 10, not yet cataloged, \$12

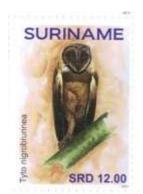
Length: 13 inches, sexes similar, resident. White-spotted dark brown above and vermiculated golden brown below, with a pinkish brown facial disc.

Habitat: Rainforest and lowland forest.

Range: Taliabu Island, Indonesia.

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

World, Volume 5.



MINHASSA MASKED-OWL, Tyto inexpectata Tytonidae

Niuafo'ou, 2018 December 18, not yet cataloged, \$5.20

Length: 12 inches, sexes alike, resident. Black and rusty above and black-spotted rusty

below.

Habitat: Rainforest.

Range: Northern and north-central Sulawesi.

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

World, Volume 5.



SULAWESI OWL, Tyto rosenbergii Tytonidae Surinam, 2019 April 10, not yet cataloged, \$18

Length: 15 to 18 inches, sexes similar, resident. White-spotted and speckled blackish

gray above and black-spotted buffy below.

Habitat: Lightly wooded cultivation.

Range: Sulawesi and neighboring islands.

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

World, Volume 5.



RUFOUS-LEGGED OWL, Strix rufipes Strigidae

Marshall Islands, 2018 December 21, not yet cataloged, \$1.25

Length: 13 to 15 inches, sexes alike, resident. Dark rufous brown above and barred buffy

white below with a rusty facial disc.

Habitat: Dense, moist forest.

Range: Southern and central Chile and Argentina.

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

World, Volume 5.



VIOLET-HEADED HUMMINGBIRD, Klais guimeti Trochilidae

Guinea-Bissau, 2018 November 12, not yet cataloged, 640fr

Length: 4 inches, resident. The male (shown) is bronzy green with a violet head. The female is pale gray below.

Habitat: Tall humid forest and second growth.

Range: Eastern Honduras to West-central Bolivia'

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

World, Volume 5.



VELVET-PURPLE CORONET, Boissonneaua jardini Trochilidae

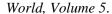
Mozambique, 2019 February 10, not yet cataloged, 116m

Length: 5 inches, sexes similar, resident. Bluish green above and purplish blue below with a velvety black head and throat.

Habitat: Wet mossy forest and forest borders,

Range: Andes of western Colombia and northwestern Ecuador.

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







BLACK-BREASTED PUFFLEG, Eriocnemis nigrivestis Trochilidae

Ecuador, 2018 December 27, not yet cataloged, 75c

Length: 4 inches, resident. The male (shown) is blackish with a violet-blue throat patch. The female is bronze green above and golden green below with a light blue gular patch.

Habitat: Mountain ridges. Range: Northwestern Ecuador.

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

World, Volume 5.



SCINTILLANT HUMMINGBIRD, Selasphorus scintilla Trochilidae

St Thomas and Prince Islands, 2019, not yet cataloged, 31d

Length: 3 inches, resident. The male (shown) is green above with a fiery red gorget and white collar. The female is white below with rufous flanks and has a grayspeckled buff throat.

Habitat: Forest edges, scrub, hedgerows, and plantations.

Range: North-central Costa Rica and western Panama.

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



RED-FRONTED TINKERBIRD, Pogoniulius pusillus Lybiidae

Ethiopia, 2018, not yet cataloged, 3b

Length: 4 inches, sexes alike, resident. Streaky dark above and light olivegrayish below with a red forehead and a yellow throat and rump.

Habitat: Dry woodland and scrub.

Range: Eritrea to eastern South Africa.

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



HAIRY-BREASTED BARBET, Tricholaema hirsuta Lybiidae

Angola, 2018 December 10, not yet cataloged, 300k

Length: 7 inches, sexes similar, resident. Yellow-spotted black above and yellowish or rufous below with "hairy" feathers on the throat and breast.

Habitat: Forest and forest edges.

Range: Sierra Leone to Kenya and northwestern Angola.

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



BLACK-BILLED BARBET, Lybius guifsobalito Lybiidae

Ethiopia, 2018, not yet cataloged, 2b

Length: 7 inches, sexes alike, resident, Black with a red forehead, face, and

breast.

Habitat: Open woodland,

Range: Southern Uganda to Namibia and eastern South Africa.

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

of the World, Volume 7.



GOLDEN-CROWNED WOODPECKER, Chloropicus xantholophus Picidae

Angola, 2018 December 10, not yet cataloged, 300k

Length: 10 inches, resident. The male (shown) is olive-brown above and heavily barred whitish below with a black and white head and a yellow crown. The female lacks the yellow crown.

Habitat: Lowland forest and forest edges.

Range: Southwestern Cameroon to western Kenya and northwestern Angola.

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



WHITE-CRESTED ELAENIA, *Elaenia albiceps* Tyrannidae Ecuador, 2018 December 27, not yet cataloged, \$3

Length: 6 inches, sexes alike, migratory. Dingy olive-gray above and pale grayish below with a white coronal stripe.

Habitat: Scrub, woodland borders, and gardens.

Range: Breeds from southwestern Colombia to Tierra del Fuego. Winters from Ecuador to northern Argentina.

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

RED-SHOULDERED CUCKOO-SHRIKE, *Campephaga phoenicea* Campephagidae Liberia, 2019 March 13, not yet cataloged, \$300

Length: 8 inches, resident. The male (shown) is black with red shoulders. The female is gray-brown above and black-barred white below.

Habitat: Forest, wooded grassland, and thickets in savannas.

Range: Senegal to Eritrea and western Kenya,

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

World, Volume 10.





GHANA CUCKOO-SHRIKE, *Lobotos lobatus* Campephagidae Liberia, 2019 March 13, not yet cataloged, \$300

Length: 8 inches, resident. The male (shown) is olive-yellow above and orange-yellow below with a black head and an orange cheek patch. The female is yellow below.

Habitat: Canopy of primary forest or rainforest.

Range: Eastern Sierra Leone to southwestern Ghana.

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

World, Volume 10.

ROCK NUTHATCH, Sitta neumayer Sittidae

Greece, 2019 May 9, not yet cataloged, 90c

Length: 5 inches, sexes alike, resident. Light gray above and creamy below with a black eye stripe.

Habitat: Rocky areas. Range: Croatia to Iran.

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

World, Volume 13.





CAPE CROMBEC, Sylvietta rufescens Macrosphenidae

Angola, 2018 December 10, not yet cataloged, 340k

Length: 4 inches, sexes alike resident. Grayish above and pale cinnamon

below with a pale superciliary.

Habitat: Dry savannah with bushes or scrub.

Range: Southern D. R. Congo to South Africa.

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

of the World, Volume 11.



RED-CAPPED CROMBEC, Sylvietta ruficapilla Macrosphenidae

Angola, 2018 December 10, not yet cataloged, 340k

Length: 5 inches, sexes alike, resident. Gray above and whitish below with a

chestnut face and collar.

Habitat: Wooded savanna.

Range: Southeastern Gabon to central Angola and Mozambique.

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

Birds of the World, Volume 11.



GREEN HYLIA, Hylia prasina Macrosphenidae

Angola. 2018 December 10, not yet cataloged, 340k

Length: 5 inches, sexes alike, resident. Dark olive-green above and olive-gray

below with a pale yellow supercilium.

Habitat: Forest undergrowth.

Range: Southwestern Senegal to western Kenya and northern Angola. Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. *Handbook of the*

Birds of the World, Volume 11.



LESSER SWAMP-WARBLER, Acrocephalus gracilirostris

Acrocephalidae

Angola, 2018 December 10, not yet cataloged, 340k

Length: 7 inches, sexes alike, resident. Warm brown above and buff below with a black eye stripe.

Habitat: Reed beds and grassy and bushy wetlands.

Range: Southern Sudan to Angola and South Africa.

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

Birds of the World, Volume 11.



YELLOW-BELLIED HYLIOTA, Hyliota flavigaster Hyliotidae

Angola, 2018 December 10, not yet cataloged, 1200k SS

Length: 5 inches, sexes similar, resident. Black above and yellow below with a white wing patch.

Habitat: Wooded moist savanna.

Range: Gambia to Kenya, Namibia, and southern Mozambique.

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

of the World, Volume 11.



CUBAN ORIOLE, Icterus melanopsis Icteridae

Cuba, 2018 November 4, not yet cataloged, 65c

Length: 8 inches, sexes similar, resident. Black with yellow rump, thighs, and shoulders.

Habitat: Woodland, parks, and gardens.

Range: Cuba and Isle of Pines.

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

of the World, Volume 16.



SCARLET-BELLIED MOUNTAIN-TANAGER, Anisognathus igniventris

Thraupidae

Ecuador, 2018 December 27, not yet cataloged, 50c

Length: 6 inches, sexes similar, resident. Slaty black with orange-red neck patches and belly.

Habitat: Montane forest and elfin woodland.

Range: Southwestern Venezuela to northern Peru.

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

World, Volume 16.

MORE EUROPA BIRDS

On 9 May 2019, Montenegro issued a single stamp and a MS/1 as part of the Europa stamp series depicting a male and female Western Capercaillie (*Tetrao urogallus*). This bird is also known as the Wood Grouse and is the largest member of the grouse family.

The largest recorded specimen weighed 16 lb (7.2 kg). The species shows extreme sexual dimorphism, with the male twice the size of the female. Found across Eurasia, this ground-living forest bird is renowned for its mating display. Several subspecies have been described.

The stamp was designed by Zoran Popović and printed by Forum – Novi Sad.



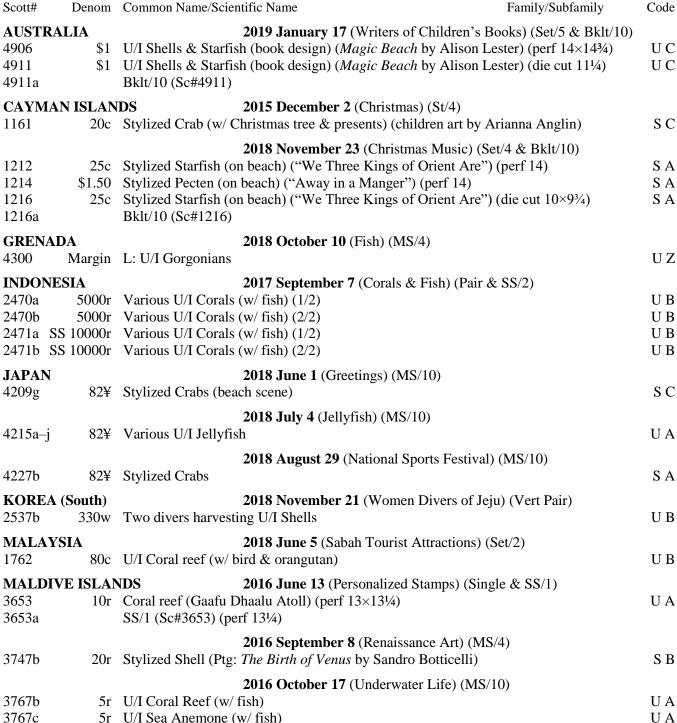


MARINE INVERTEBRATES

Editor

Ian Hunter, BU1619

New Listings



MALDIV	VE ISLAN	NDS (continued)		
3767f		U/I Coral (w/ Moray Eel)		U A
3767g		U/I Coral Reef		UΑ
3767j		U/I Octopus		UΑ
<u> </u>				
3771	15	2016 October 17 (Wildlife) (Set/3) U/I Hermit Crab		U A
3//1	131	O/I Hermit Crao		UA
		2016 November 17 (Corals) (MS/4 & SS/1))	
3776a		Lesser Valley Coral, Platygyra daedalea	Merulinidae	A
3776b	20r	Orange Tube Coral, Tubastrea coccinea	Dendrophylliidae	A
3776c	20r	Staghorn Coral, Acropora cervicornis	Acroporidae	A
3776d	20r	Kenya Tree Coral, Capnella thyrsoidea	Nephtheidae	A
3786	SS 60r	Gorgonian Fan, Annella mollis	Subergorgiidae	A
		2016 December 28 (Finding Dory Cartoon	Characters) (Block/6)	
3794e	20r	Stylized Octopus (Hank)		S A
MEXICO)	2018 December 7 (Caldo de Piedra– Stone	Soup) (Horiz Pair)	
3130	7p	U/I Seafood & Shrimp (bowl of soup)	boup) (Horiz Fuir)	UВ
	•			ОВ
MOROC		2015 June 9 (Marine Life) (Bklt/10)	XX 11 .11	
1205f		Green Ormer, Haliotis tuberculata	Haliotidae	A
1205i	9d	1 / 1 0	Octopodidae	A
1205j	90	Common Cuttlefish, Sepia officinalis	Sepiidae	A
NEW CA	LEDON	IA 2018 November 7 (Fauna) (Horiz Strip/3)		
1247a		Tadpole Shrimp, Triops longicaudatus ssp. intermedius	Triopsidae	A
1247c	75fr	Deep Water Snail, Tuba valkyrie	Mathildidae	A
PALAU		2018 July 5 (Palau Nautilus) (MS4 & SS/2)		
1383a	\$2	Palau Nautilus, <i>Nautilus belauensis</i> (one facing L/one facing R)		Α
1383b	\$2	Same species (one facing L)	Nautilidae	A
1383c	\$2	Same species (two facing L)	Nautilidae	A
1383d	\$2	Same species (one facing R)	Nautilidae	A
1384a	SS \$3	Palau Nautilus, <i>Nautilus belauensis</i> (facing R)	Nautilidae	A
1384b	SS \$3	Same species (facing L)	Nautilidae	A
1393a	¢ 1	2018 November 9 (Giant Clams) (MS/4 & S Giant Clam, <i>Tridacna gigas</i>	Tridacnidae	٨
1393a 1393b	\$1 \$1.50		Tridacnidae	A A
1393c	\$1.50	Same species	Tridacnidae	A
1393d	\$2.50	Same species	Tridacnidae	A
1393u 1394	\$2.50 SS \$4	Giant Clam, <i>Tridacna gigas</i>	Tridacnidae	A
				71
	STATES	` ` \ 1	oil Strip/4)	a 5
5363	(35c)	•		SB
5364	(35c)	Stylized Brain Coral (w/ Spotted Moray Eel)		SB
5365	(35c)	Stylized Pillar Coral (w/Coney Grouper & Neon Gobies)		SB
5366	(35c)	Stylized Staghorn Coral (w/ Blue-striped Grunts)		S B
5366a	(25.)	Horiz or Vert Strip/4 (Sc#5363–66) (die cut 11 ¹ / ₄ ×10 ³ / ₄)		0.5
5367	(35c)	Stylized Pillar Coral (w/Coney Grouper & Neon Gobies)		SB
5368	(35c)	Stylized Staghorn Coral (w/ Blue-striped Grunts)		SB
5369	(35c)	Stylized Elkhorn Coral (w/ French Angelfish) Stylized Proin Coral (w/ Spotted Morey Fel)		SB
5370 5370a	(35c)	Stylized Brain Coral (w/ Spotted Moray Eel) Horiz Strip(4 (Se#5367, 70) (die out 916 vort) (coil)		S B
17/08		Horiz Strip/4 (Sc#5367–70) (die cut 9½ vert) (coil)		



ICHTHYOLOGY

Editor

J. Dale Shively, BU1832

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ALBANI	A	2018 December 14 (Fish) (Horiz Pair)		
3023a 3023b	51 1901	Sturgeon, Acipenser sturio Sea Trout, Salmo trutta	Acipenseridae Salmonidae	A A
CHINA (Taiwan)	2018 November 15 (Blue & White Porcelai		
4447	\$6	Stylized Koi	Cyprinidae	S B
ECUADO 2224a		2018 December 11 (San Francisco Univ. So Whale Shark, <i>Rhincodon typus</i>	cientific Contrib.) (MS/9 Rhincodontidae	9) A
FINLAN	D	2018 February 28 (WWF) (Vert Strip/3)		
1562c		Atlantic Salmon, Salmo salar	Salmonidae	A
		2018 June 6 (Fish) (Horiz Pair)		
1567a	€1.50	Pike-Perch (Zander), Sander lucioperca	Percidae	A
1567b	€1.50	Vendace, Coregonus albula	Salmonidae	A
GREENI	LAND	2018 May 25 (Fish) (Set/2)		
788		Atlantic Mackerel, Scomber scombrus (pale buff bkgrd)	Scombridae	A
789		Atlantic Herring, Clupea harengus (pale buff bkgrd)	Clupeidae	A
790a	12k	Atlantic Mackerel, Scomber scombrus (pale blue bkgrd)	Scombridae	A
790b	16k	Atlantic Herring, Clupea harengus (pale blue bkgrd)	Clupeidae	A
790		SS/2 (Sc#790a–b) (perf 12½×13)		
INDONE	SIA	2017 September 7 (Corals & Fish) (Pair &	SS/2)	
2470a	5000r	Clown Anemonefish, Amphiprion ocellaris (no. 1/2)	Pomacentridae	В
		U/I reef fish		UC
2470b	5000r	UR: Yellow Tang, Zebrasoma flavescens (no. 2/2)	Acanthuridae	В
		UL: Bartlett's Anthias, Pseudanthias bartlettorum	Serranidae	В
		ML: Bartlett's Anthias, <i>P. bartlettorum</i> (?) (color phase)	Serranidae	U B
- · - ·	10000	Bkgrd: U/I reef fish		UC
2471a	10000r	, 1 1	Pomacentridae	В
2471b	10000r	Yellow Tang, Zebrasoma flavescens (like Sc#2470a)	Acanthuridae	В
2471	Margin	SS/2 (Sc#2471a-b) L & Bkgrd: U/I reef fish		UΖ
KAZAKI	_	-	on) (22/2+2 labala)	_
860		2018 September 7 (West Kazakhstan Regio LR: Balkhash Perch, <i>Perca schrenkii</i>	Percidae	CZ
KOREA	(South)	2018 November 21 (Women Divers of Jeju) (Vert Pair)	
2537b	330w	Bkgrd: U/I fish		UC
MALDIV	E ISLAN	NDS 2016 June 13 (Photographs of Atolls) (20ea	SS/1)	
3647a		LR: Scrawled Butterflyfish, <i>Chaetodon meyeri</i> (Alifu Alifu)	Chaetodontidae	Z
3648a	_	LR: Giant Manta, Mobula birostris (Alifu Dhaalu)	Myliobatidae	Z
3649a	_	U/I Sharks (Baa)	•	UC
	Margin	LR: Coral Hawkfish, Cirrhitichthys oxycephalus	Cirrhitidae	Z
3650a	Margin	LR: Orange-spine Tang, Naso lituratus (Dhaalu)	Balistidae	Z

MALDI	VE ISLA	NDS (continued)		
3651a	Margin	LR: Blackside Hawkfish, Paracirrhites forsteri (Faafu)	Cirrhitidae	\mathbf{Z}
3652a	Margin	LR: Bignose Unicornfish, Naso vlamingii (Gaafu Alifu)	Acanthuridae	Z
3653a	Margin	LR: Moorish Idol, Zanclus cornutus (Gaafu Dhaalu)	Zanclidae	Z
3654a	Margin	LR: Threespot Angelfish, Apolemichthys trimaculatus (Gnaviya	ni) Pomacanthidae	Z
3655a		LR: Indian Ocean Oriental Sweetlips, Plectorhinchus vittatus (H	Iaa Alifu) Haemulidae	Z
3656a		U/I Sharks (Haa Dhaalu)		U A
	•	LR: Spotted Eagle Ray, Aetobatus narinari	Myliobatidae	\mathbf{Z}
3657a	_	LR: Whitetip Reef Shark, Triaenodon obesus (Kaafu)	Carcharhinidae	Z
3658a		LR: Bridled Parrotfish, Scarus frenatus (Laamu)	Scaridae	Z
3659a	_	LR: Indian Sail-Fin Surgeonfish, Zebrasoma desjardinii (Lhavi		Z
3660a	•	LR: Turkey Moray, Gymnothorax meleagris (Meemu)	Muraenidae	Z
3661a	-	LR: Steephead Parrotfish, Chlorurus strongylocephalus (Noonu		Z
3662a	-	LR: Regal Angelfish, Pygoplites diacanthus (Raa)	Pomacentridae	Z
3663a	_	LR: Arc-eye Hawkfish, <i>Paracirrhites arcatus</i> (Seenu)	Cirrhitidae	Z
3664a	•	LR: Giant Trevally, Caranx ignobilis (Shaviyani)	Carangidae	Z
3665a	_	LR: Dogtooth Tuna, Gymnosarda unicolor (Thaa)	Scombridae Chapte dontidae	Z
3666a	Margin	LR: Bluelashed Butterflyfish, Chaetodon bennetti (Vaavu)	Chaetodontidae	Z
26001	20	2016 July 20 (Birds of Prey) (MS/4 & SS/1)	ша
3689b		U/I fish (in Osprey's talons)		UC
3699	33 00F	U/I fish (in Western Marsh Harrier's talons)		UC
2.50.4	22	2016 July 20 (Fish) (MS/4 & SS/1)	~	
3694a		Sea Goldie, Pseudanthias squamipinnis	Serranidae	A
3694b		Clown Triggerfish, Balistoides conspicillum	Balistidae	A
3694c		White-banded Triggerfish, <i>Rhinecanthus aculeatus</i>	Balistidae	A
3694d	22r	Titan Triggerfish, Balistoides viridescens	Balistidae	A
3704	SS 70r	Regal Angelfish, Pygoplites diacanthus M.: Indian Ocean Oriental Sweetling, Pleatarhinghus vittatus	Pomacentridae Haemulidae	A Z
	Margin	ML: Indian Ocean Oriental Sweetlips, <i>Plectorhinchus vittatus</i>	Congridae	Z
		LL: Splendid Garden Eel, <i>Gorgasia preclara</i> Bot: Scalloped Hammerhead, <i>Sphyrna lewini</i>	Sphyrnidae	Z
		LR: Common Bluestripe Snapper, <i>Lutjanus kasmira</i>	Lutjanidae	Z
		MR: Blacktip Soldierfish, Myripristis botche (Cap: M. melanost		Z
			icius) Holocentilade	L
3701	SS 60r	2016 July 20 (Endangered Species) (SS/1) Humphead Wrasse, <i>Cheilinus undulates</i>	Labridae	A
3,01	55 001	*		11
3767a	5r	2016 October 17 (Underwater Life) (MS/19) Whale Shark, <i>Rhincodon typus</i> (w/ divers)	Rhincodontidae	В
3767a 3767b		Sergeant-major, Abudefduf saxatilis	Pomacentridae	В
37070	31	Melon (Red-fin) Butterflyfish (?), Chaetodon trifasciatus	Chaetodontidae	UВ
		U/I reef fish	Chactodonnaac	UC
3767c	5r	Twoband Anemonefish, <i>Amphiprion bicinctus</i>	Pomacentridae	В
3767d		Giant Manta, Mobula birostris	Myliobatidae	A
3767 a	5r	Yellow Tang, <i>Zebrasoma flavescens</i> (cleaning sea turtle)	Acanthuridae	В
31010	31	U/I reef fish	7 icanimaridae	UC
3767f	5r	U/I Eel	Congridae	U A
3767i	5r	Spotted Eagle Ray, Aetobatus narinari	Myliobatidae	A
3767	_	L: Clown anemonefish, <i>Amphiprion ocellaris</i>	Pomacentridae	Z
-	. 6	2016 October 17 (Wildlife) (Set/3)		
3770	15r	Whale Shark, Rhincodon typus	Rhincodontidae	A
2.70	131	Salaring a control of the state of th		

MALDIVE ISLANDS (continued) 2016 November 17 (Marine Life of the Maldives) (MS/4) (SS/1)

These ten MS/4 all have the same design in the margin that includes stylized fish. Each of the ten accompanying SS/1 have differing marginal designs depicting various species of sea life including fishes and stylized fishes. 3772 Margin Stylized fish (w/ dolphins) SZSS 60r Bot: Stylized fish (w/ dolphins) 3782 SZ20r Reef Manta Ray, Mobula alfredi (two) 3773a Myliobatidae A 3773b 20r L: Giant Manta, Mobula birostris (underside) Myliobatidae В R: Reef Manta Ray, Mobula alfredi Myliobatidae В 3773c 20r Giant Manta, Mobula birostris (two) Myliobatidae Α В 3773d 20r L: Giant Manta, Mobula birostris Myliobatidae В R: Reef Manta Ray, Mobula alfredi (underside) Myliobatidae 3773 Margin Stylized fish (w/ manta rays) SZ3783 SS 60r Reef Manta Ray, Mobula alfredi Myliobatidae A Margin Top: Reef Manta Ray, Mobula alfredi Z Myliobatidae Bot: Stylized fish (w/ manta rays) SZ20r Geometric Moray, Gymnothorax griseus (Cap: Siderea grisea) 3774a Muraenidae A 3774b 20r Undulated Moray, Gymnothorax undulatus Muraenidae A 3774c 20r Laced Moray, Gymnothorax favagineus Muraenidae A 20r Blackcheek Moray, Gymnothorax breedeni Muraenidae 3774d Α 3774 Margin Stylized fish (w/ moray eels) SZ3784 SS 60r Giant Moray, Gymnothorax javanicus Muraenidae A Margin LL & UR: Giant Moray, Gymnothorax javanicus Z Muraenidae ML: Red-toothed Triggerfish, Odonus niger Balistidae \mathbf{Z} SZBot: Stylized fish (w/ moray eels) 3775a 20r Sunburst Butterflyfish, Chaetodon kleinii Chaetodontidae A 3775b 20r Saddle Butterflyfish, Chaetodon ephippium Chaetodontidae A 20r Redtail Butterflyfish, Chaetodon collare (two) 3775c Chaetodontidae A 3775d 20r Speckled Butterflyfish, Chaetodon citrinellus Chaetodontidae Α Margin Stylized fish (w/ butterflyfish) 3775 SZSS 60r Indian Butterflyfish, Chaetodon mitratus 3785 Chaetodontidae A Margin UR: Triangle Butterflyfish, Chaetodon triangulum (two) Chaetodontidae Z Chaetodontidae LL: Bluelashed Butterflyfish, Chaetodon bennetti Z UL & Bot: Threadfin Butterflyfish, *Chaetodon auriga* (two) Z Chaetodontidae UZCtr: U/I yellow butterflyfish (seven) Chaetodontidae Bot: Stylized fish (w/ butterflyfish) SZ3776 Margin Stylized fish (w/ corals) SZ3786 SS 60r Bot: Stylized fish (w/ corals) SZMargin Stylized fish (w/ whales) 3777 SZ3787 SS 70r Bot: Stylized fish (w/ whales) SZ22r Oceanic Whitetip Shark, Carcharhinus longimanus (facing L) 3778a Carcharhinidae A 22r Great Hammerhead Shark, Sphyrna mokarran 3778b Sphyrnidae Α 3778c 22r Tiger Shark, Galeocerdo cuvier (two) Carcharhinidae A 22r Oceanic Whitetip Shark, Carcharhinus longimanus (two) Carcharhinidae 3778d A SZ3778 Margin Stylized fish (w/ sharks) SS 70r Tiger Shark, Galeocerdo cuvier Carcharhinidae 3788 A Margin MR: Tiger Shark, Galeocerdo cuvier Z Carcharhinidae UL: Great Hammerhead Shark, Sphyrna mokarran Sphyrnidae Z SZBot: Stylized fish (w/ sharks) 22r Wedge-tail Triggerfish, Rhinecanthus rectangulus 3779a Balistidae Α 3779b 22r Orange-lined Triggerfish, Balistapus undulatus Balistidae A 22r Gilded Triggerfish, Xanthichthys auromarginatus Balistidae 3779c A 3779d 22r Clown Triggerfish, Balistoides conspicillum Balistidae Α

MALDI	VE ISLAN	NDS (continued)		
3779	Margin	Stylized fish (w/ triggerfish)		SZ
3789	SS 70r	White-banded Triggerfish, Rhinecanthus aculeatus	Balistidae	A
	Margin	UR: Clown Triggerfish, Balistoides conspicillum	Balistidae	Z
		ML: Yellowmargin Triggerfish, Pseudobalistes flavimarginatus	Balistidae	Z
		LL: Titan Triggerfish, Balistoides viridescens	Balistidae	Z
		Bot: Stylized fish (w/ triggerfish)		SZ
3780a	22r	Southern Bluefin Tuna, Thunnus maccoyii	Scombridae	A
3780b	22r	Atlantic Bluefin Tuna, Thunnus thynnus	Scombridae	A
3780c	22r	Skipjack Tuna, Katsuwonus pelamis	Scombridae	A
3780d	22r	Yellowfin Tuna, Thunnus albacares	Scombridae	A
3780	Margin	Stylized fish (w/ tuna)		SZ
3790	SS 70r	Albacore, Thunnus alalunga	Scombridae	A
		(Top, ML, LL) Albacore, Thunnus alalunga	Scombridae	Z
		Bot: Stylized fish (w/ tuna)		SZ
3781	Margin	Stylized fish (w/ sea turtles)		SZ
3791	SS 70r	Bot: Stylized fish (w/ sea turtles)		SZ
		2016 December 26 (Fisherman's Day) (MS	/4)	
3793a	15r	U/I bait fish (about to be chummed)	,	UВ
3793b		U/I bait fish (in net)		UВ
			D) (D1 1/6)	
2704	20	2016 December 28 (Characters from Finding		a
3794a		Blue Tang, Paracanthurus hepatus (Dory)	Acanthuridae	S
3794b		Clown Anemonefish, Amphiprion ocellaris (Marlin)	Pomacentridae	S
3794c		Clown Anemonefish, Amphiprion ocellaris (Nemo)	Pomacentridae	S
3794f	20r	Whale Shark, <i>Rhincodon typus</i> (Destiny)	Rhincodontidae	S
MEXIC	O	2018 December 7 (Caldo de Piedra Stone S	oup) (Horiz Pair)	
3129	O 7p	Stylized fish (w/ cook)	oup) (Horiz Pair)	S C
		·	oup) (Horiz Pair)	S C S C
3129 3130 MONTS	7p 7p ERRAT	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Montserrat)	/IS/3 & SS/1)	
3129 3130 MONTS 1416b	7p 7p ERRAT \$6	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus	•	S C
3129 3130 MONTS 1416b 1416	7p 7p ERRAT \$6 Margin	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish	/IS/3 & SS/1)	S C A U Z
3129 3130 MONTS 1416b	7p 7p ERRAT \$6	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus	/IS/3 & SS/1)	S C
3129 3130 MONTS 1416b 1416	7p 7p ERRAT \$6 Margin SS \$10	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish	/IS/3 & SS/1)	S C A U Z
3129 3130 MONTS 1416b 1416 1417	7p 7p ERRAT \$6 Margin SS \$10	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish	/IS/3 & SS/1)	S C A U Z
3129 3130 MONTS 1416b 1416 1417 MOROC	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10)	AS/3 & SS/1) Lutjanidae	S C A U Z U Z
3129 3130 MONTS 1416b 1416 1417 MOROC 1205a	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata	AS/3 & SS/1) Lutjanidae Sparidae Sparidae Scombridae	S C A U Z U Z
3129 3130 MONTS 1416b 1416 1417 MOROC 1205a 1205b 1205c 1205d	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata Saddled Seabream, Oblada melanura	AS/3 & SS/1) Lutjanidae Sparidae Sparidae	S C A U Z U Z A A
3129 3130 MONTS 1416b 1416 1417 MOROC 1205a 1205b 1205c	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata Saddled Seabream, Oblada melanura Atlantic Bonito, Sarda sarda	AS/3 & SS/1) Lutjanidae Sparidae Sparidae Scombridae Sparidae Xiphiidae	S C A U Z U Z A A A
3129 3130 MONTS 1416b 1416 1417 MOROC 1205a 1205b 1205c 1205d	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d 9d 9d 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata Saddled Seabream, Oblada melanura Atlantic Bonito, Sarda sarda Parrotfish, Sparisoma cretense	AS/3 & SS/1) Lutjanidae Sparidae Sparidae Scombridae Sparidae	A UZ UZ A A A A A
3129 3130 MONTS 1416b 1416 1417 MOROC 1205a 1205b 1205c 1205d 1205e	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d 9d 9d 9d 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata Saddled Seabream, Oblada melanura Atlantic Bonito, Sarda sarda Parrotfish, Sparisoma cretense Swordfish, Xiphias gladius Shortfin Mako Shark, Isurus oxyrinchus	AS/3 & SS/1) Lutjanidae Sparidae Sparidae Scombridae Sparidae Xiphiidae	A UZUZ
3129 3130 MONTS 1416b 1416 1417 MOROC 1205a 1205b 1205c 1205d 1205e 1205g	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d 9d 9d 9d 9d 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata Saddled Seabream, Oblada melanura Atlantic Bonito, Sarda sarda Parrotfish, Sparisoma cretense Swordfish, Xiphias gladius Shortfin Mako Shark, Isurus oxyrinchus Sardine (European Pilchard), Sardina pilchardus	AS/3 & SS/1) Lutjanidae Sparidae Sparidae Scombridae Sparidae Xiphiidae Lamnidae	A UZUZ
3129 3130 MONTS 1416b 1416 1417 MOROC 1205a 1205b 1205c 1205d 1205e 1205g 1205h	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d 9d 9d 9d 9d 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata Saddled Seabream, Oblada melanura Atlantic Bonito, Sarda sarda Parrotfish, Sparisoma cretense Swordfish, Xiphias gladius Shortfin Mako Shark, Isurus oxyrinchus Sardine (European Pilchard), Sardina pilchardus 2016 September 22 (Seabream) (Single)	AS/3 & SS/1) Lutjanidae Sparidae Sparidae Scombridae Sparidae Xiphiidae Lamnidae Clupeidae	A UZUZ
3129 3130 MONTS 1416b 1416 1417 MOROC 1205a 1205b 1205c 1205d 1205e 1205g	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d 9d 9d 9d 9d 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata Saddled Seabream, Oblada melanura Atlantic Bonito, Sarda sarda Parrotfish, Sparisoma cretense Swordfish, Xiphias gladius Shortfin Mako Shark, Isurus oxyrinchus Sardine (European Pilchard), Sardina pilchardus	AS/3 & SS/1) Lutjanidae Sparidae Sparidae Scombridae Sparidae Xiphiidae Lamnidae	A UZUZ
3129 3130 MONTS 1416b 1416 1417 MOROC 1205a 1205b 1205c 1205d 1205e 1205g 1205h 1224	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d 9d 9d 9d 9d 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata Saddled Seabream, Oblada melanura Atlantic Bonito, Sarda sarda Parrotfish, Sparisoma cretense Swordfish, Xiphias gladius Shortfin Mako Shark, Isurus oxyrinchus Sardine (European Pilchard), Sardina pilchardus 2016 September 22 (Seabream) (Single) Redbanded Seabream, Pagrus auriga 2017 January 25 (Shark) (Single)	AS/3 & SS/1) Lutjanidae Sparidae Sparidae Scombridae Sparidae Xiphiidae Lamnidae Clupeidae Sparidae	A UZUZ
3129 3130 MONTS 1416b 1416 1417 MOROC 1205a 1205b 1205c 1205d 1205e 1205g 1205h	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d 9d 9d 9d 9d 9d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata Saddled Seabream, Oblada melanura Atlantic Bonito, Sarda sarda Parrotfish, Sparisoma cretense Swordfish, Xiphias gladius Shortfin Mako Shark, Isurus oxyrinchus Sardine (European Pilchard), Sardina pilchardus 2016 September 22 (Seabream) (Single) Redbanded Seabream, Pagrus auriga	AS/3 & SS/1) Lutjanidae Sparidae Sparidae Scombridae Sparidae Xiphiidae Lamnidae Clupeidae	A UZUZ
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3129 3130 MONTS 1416b 1416 1417 MOROC 1205a 1205b 1205c 1205d 1205e 1205g 1205h 1224 1224	7p 7p ERRAT \$6 Margin SS \$10 CCO 9d 9d 9d 9d 9d 9d 9d 7d 8d	Stylized fish (w/ cook) Stylized fish (w/ soup bowl) 2018 October 10 (Fishing in Montserrat) (Northern Red Snapper, Lutjanus campechanus Bkgrd: U/I reef fish Bkgrd: U/I reef fish 2015 June 9 (Marine Life) (Bklt/10) Gilthead Seabream, Sparus aurata Saddled Seabream, Oblada melanura Atlantic Bonito, Sarda sarda Parrotfish, Sparisoma cretense Swordfish, Xiphias gladius Shortfin Mako Shark, Isurus oxyrinchus Sardine (European Pilchard), Sardina pilchardus 2016 September 22 (Seabream) (Single) Redbanded Seabream, Pagrus auriga 2017 January 25 (Shark) (Single) Blue Shark, Prionace glauca 2018 July 23 (Dutch Guilder Currency) (MS	AS/3 & SS/1) Lutjanidae Sparidae Sparidae Scombridae Sparidae Xiphiidae Lamnidae Clupeidae Sparidae Sparidae Sparidae	A UZUZ

NORWA	Y	2019 January 4 (Oslo European Green Cap	oital) (Coil Single)	
1864	23k	Stylized fish		S C
PALAU		2018 June 26 (Marine Life Preservation) (Marine Life Preservation)	MS/2)	
1381a	\$1.50	Blacktip Reef Shark, Carcharhinus melanopterus	Carcharhinidae	A
1381	Margin	Bkgrd: U/I reef fish		CZ
PANAM.	A	2017 October 23 (Gran Coclé Archaeologie	cal Artifacts) (Set/3 &	x SS/2)
982	20c	Seahorse-shaped pendant	Syngnathidae	ΑX
985a	SS 75c	Seahorse-shaped pendant (w/ frame line)	Syngnathidae	ΑX
UNITED	STATES	2017 March 29 (Coral Reefs) (Strip/4 & Co	oil Strip/4)	
5363	(35c)	French Angelfish, Pomacanthus paru (w/ Elkhorn Coral)	Pomacentridae	S B
5364	(35c)	Spotted Moray Eel, Gymnothorax moringa (w/ Brain Coral)	Muraenidae	S B
5365	(35c)	Coney Grouper (Coney), Cephalopholis fulva (w/ Pillar Coral)	Serranidae	S B
		Neon Goby, Elacatinus oceanops	Gobiidae	S B
5366	(35c)	Blue-striped Grunt, Haemulon sciurus (w/ Staghorn Coral)	Haemulidae	S B
5366a		Horiz or Vert Strip/4 (Sc#5363–66) (die cut 111/4×103/4)		
5367	(35c)	Coney Grouper (Coney), Cephalopholis fulva (w/ Pillar Coral)	Serranidae	S B
		Neon Goby, Elacatinus oceanops	Gobiidae	S B
5368	(35c)	Blue-striped Grunt, Haemulon sciurus (w/ Staghorn Coral)	Haemulidae	S B
5369	(35c)	French Angelfish, Pomacanthus paru (w/ Elkhorn Coral)	Pomacentridae	S B
5370	(35c)	Spotted Moray Eel, Gymnothorax moringa (w/ Brain Coral)	Muraenidae	S B
5370a		Horiz Strip/4 (Sc#5367–70) (die cut 9½ vert) (coil)		

BELARUS AQUATIC FAUNA

On 17 April 2019, Belarus issued a set of four and MS/4 colorful stamps depicting a wide variety of aquatic animals.

The "A" (42k) stamp has a Great Diving Beetle (*Dytiscus marginalis*). It is native to Europe and northern Asia. This large insect can grow to a length of 1.1–1.4 in (27–35 mm).

The "N" (1.02r) stamp shows a pair of Three-spined Sticklebacks (*Gasterosteus aculeatus*). This fish is native to most inland coastal waters north of 30°N. It shows great morphological variation throughout its range, which makes it a prime subject for scientific study of evolution.

The "M" (1.38r) stamp shows a Danube Crayfish (*Astacus leptodactylus*). It can grow to a length of 12 in (30 cm), but more commonly it is half that size.



The "H" (1.50r) stamp shows a Lister's River Snail (*Viviparus contectus*). Its distribution is palaearctic, specifically Europe and western Siberia. The large fresh water snail lives in slow flowing rivers and canals that are unpolluted.

The stamps were designed by Marina Vitkovskaya based on art by Alexander Mityanin.

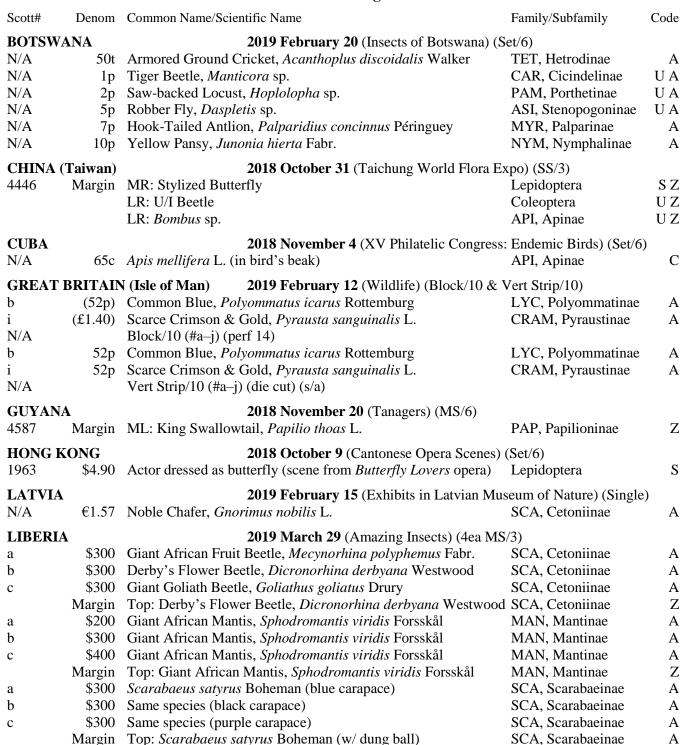


ENTOMOLOGY

Editor

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

New Listings



	IA (continu	ed)		
a		Rainbow Bush Locust, <i>Phymateus saxosus</i> Coquerel	PYRG, Pyrgomorphinae	A
b		Migratory Locust, Locusta migratoria	, , ,	
		ssp. migratorioides Reich & Fairmaire	ACR, Oedipodinae	A
c	\$350	Milkweed Grasshopper, <i>Phymateus morbillosus</i> L.	PYRG, Pyrgomorphinae	A
		Top: Rainbow Bush Locust, Phymateus saxosus Coquerel	PYRG, Pyrgomorphinae	Z
MALA	WI	2019 February 5 (Malawi Insects) (MS/6	& 6ea SS/1) (inscr. 2018)	
a	700k	Polistes sp.	VES, Polistinae U	UΑ
b	700k	Seven-Spotted Ladybird, Coccinella septempunctata L.	COC, Coccinellinae	A
c	700k	Blue Monarch, Tirumala limniace Cramer	NYM, Danainae	A
d	700k	Praying Mantis, Sphodromantis sp.	MAN, Mantinae U	UΑ
e	700k	Garden Locust, Acanthacris ruficornis Fabr.	ACR, Cyrtacanthacridinae	A
f	700k	Western Honeybee, Apis mellifera L.	API, Apinae	A
	Margin	UR: U/I Ant	Formicidae	UΖ
N/A	SS 450k	Elegant Grasshopper, Zonocerus elegans Thunberg	PYRG, Pyrgomorphinae	A
N/A	SS 450k	Western Honeybee, Apis mellifera L.	API, Apinae	Α
N/A		U/I Grasshopper	Acrididae U	UΑ
N/A	SS 450k	Eastern Subterranean Termite, Reticulitermes flavipes Kollar		
			rmitidae, Heterotermitinae	A
N/A	SS 450k	Big-Headed Ant, <i>Pheidole megacephala</i> Fabr.	FOR, Myrmicinae	A
N/A		Yellow & Black Potter Wasp, Delta campaniforme Fabr.	EUM, Eumeninae	A
Althoug Central		mps are captioned "Malawi Insects," the Termite, Ladybird, and	Blue Monarch are not found	d in
MALA		2019 February 19 (Exotic Food) (Set/3 &		
N/A	60s	Javanese Grasshopper, <i>Valanga nigricornis</i> Burmeister (fried grasshoppers)	ACR, Cyrtacanthacridinae	A
		THEO GIASSIODDEIST		
		(inica grassitoppers)		
MOLD	OVA	2019 (Honeybees) (MS/12)		
	s a questio	2019 (Honeybees) (MS/12)	API, Apinae	A
There i	s a questio 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue.	API, Apinae API, Apinae	A A
There i	s a questio 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, <i>Apis mellifera</i> ssp. <i>mellifera</i> L.	•	
There i a b	s a questio 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, <i>Apis mellifera</i> ssp. <i>mellifera</i> L. German Black Honeybee, <i>A. mellifera</i> ssp. <i>mellifera</i> L.	API, Apinae	A
There i a b c	s a questio 1.751 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, <i>Apis mellifera</i> ssp. <i>mellifera</i> L. German Black Honeybee, <i>A. mellifera</i> ssp. <i>mellifera</i> L. Carniolan Honeybee, <i>A. mellifera</i> ssp. <i>carnica</i> Pollman	API, Apinae API, Apinae	A A
There is a b c d	s a questio 1.751 1.751 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, <i>Apis mellifera</i> ssp. <i>mellifera</i> L. German Black Honeybee, <i>A. mellifera</i> ssp. <i>mellifera</i> L. Carniolan Honeybee, <i>A. mellifera</i> ssp. <i>carnica</i> Pollman Buckfast Honeybee, <i>A. mellifera</i> L. (hybrid)	API, Apinae API, Apinae API, Apinae	A A A
There i a b c d e f	s a questio 1.751 1.751 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, <i>Apis mellifera</i> ssp. <i>mellifera</i> L. German Black Honeybee, <i>A. mellifera</i> ssp. <i>mellifera</i> L. Carniolan Honeybee, <i>A. mellifera</i> ssp. <i>carnica</i> Pollman Buckfast Honeybee, <i>A. mellifera</i> L. (hybrid) African Honeybee, <i>A. mellifera</i> ssp. <i>scutellata Lepeletier</i>	API, Apinae API, Apinae API, Apinae API, Apinae	A A A
There i a b c d e	s a questio 1.751 1.751 1.751 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, Apis mellifera ssp. mellifera L. German Black Honeybee, A. mellifera ssp. mellifera L. Carniolan Honeybee, A. mellifera ssp. carnica Pollman Buckfast Honeybee, A. mellifera L. (hybrid) African Honeybee, A. mellifera ssp. scutellata Lepeletier Italian Honeybee, A. mellifera ssp. ligustica Spinola Russian Honeybee, A. mellifera L. (strain)	API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae	A A A A
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There i a b c d e f g h i	s a questio 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, Apis mellifera ssp. mellifera L. German Black Honeybee, A. mellifera ssp. mellifera L. Carniolan Honeybee, A. mellifera ssp. carnica Pollman Buckfast Honeybee, A. mellifera L. (hybrid) African Honeybee, A. mellifera ssp. scutellata Lepeletier Italian Honeybee, A. mellifera ssp. ligustica Spinola Russian Honeybee, A. mellifera L. (strain) Carpathian Honeybee, A. m. ssp. carnica Pollman (ecotype) Gray Caucasian Honeybee, A. m. ssp. caucasica Gorbachev	API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae	A A A A A A
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There i a b c d e f g h i	s a questio 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, Apis mellifera ssp. mellifera L. German Black Honeybee, A. mellifera ssp. mellifera L. Carniolan Honeybee, A. mellifera ssp. carnica Pollman Buckfast Honeybee, A. mellifera L. (hybrid) African Honeybee, A. mellifera ssp. scutellata Lepeletier Italian Honeybee, A. mellifera ssp. ligustica Spinola Russian Honeybee, A. mellifera L. (strain) Carpathian Honeybee, A. m. ssp. carnica Pollman (ecotype) Gray Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Yellow Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Asiatic Honeybee, Apis cerana Enderlein	API, Apinae	A A A A A A
There is a b c c d e f g h i j k l	s a questio 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, Apis mellifera ssp. mellifera L. German Black Honeybee, A. mellifera ssp. mellifera L. Carniolan Honeybee, A. mellifera ssp. carnica Pollman Buckfast Honeybee, A. mellifera L. (hybrid) African Honeybee, A. mellifera ssp. scutellata Lepeletier Italian Honeybee, A. mellifera ssp. ligustica Spinola Russian Honeybee, A. mellifera L. (strain) Carpathian Honeybee, A. m. ssp. carnica Pollman (ecotype) Gray Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Yellow Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Asiatic Honeybee, Apis cerana Enderlein Cordovan Honeybee, A. m. ssp. ligustica Spinola (race)	API, Apinae	A A A A A A A
There is a b c c d e f g h is j k l	s a questio 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, Apis mellifera ssp. mellifera L. German Black Honeybee, A. mellifera ssp. mellifera L. Carniolan Honeybee, A. mellifera ssp. carnica Pollman Buckfast Honeybee, A. mellifera L. (hybrid) African Honeybee, A. mellifera ssp. scutellata Lepeletier Italian Honeybee, A. mellifera ssp. ligustica Spinola Russian Honeybee, A. mellifera L. (strain) Carpathian Honeybee, A. m. ssp. carnica Pollman (ecotype) Gray Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Yellow Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Asiatic Honeybee, Apis cerana Enderlein Cordovan Honeybee, A. m. ssp. ligustica Spinola (race) 2016 March 23 (Easter) (SS/3)	API, Apinae	A A A A A A A A
There is a b c c d e f g h i j k l	s a questio 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, Apis mellifera ssp. mellifera L. German Black Honeybee, A. mellifera ssp. mellifera L. Carniolan Honeybee, A. mellifera ssp. carnica Pollman Buckfast Honeybee, A. mellifera L. (hybrid) African Honeybee, A. mellifera ssp. scutellata Lepeletier Italian Honeybee, A. mellifera ssp. ligustica Spinola Russian Honeybee, A. mellifera L. (strain) Carpathian Honeybee, A. m. ssp. carnica Pollman (ecotype) Gray Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Yellow Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Asiatic Honeybee, Apis cerana Enderlein Cordovan Honeybee, A. m. ssp. ligustica Spinola (race)	API, Apinae	A A A A A A A
There is a b c c d e f g h is j k l	s a questio 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, Apis mellifera ssp. mellifera L. German Black Honeybee, A. mellifera ssp. mellifera L. Carniolan Honeybee, A. mellifera ssp. carnica Pollman Buckfast Honeybee, A. mellifera L. (hybrid) African Honeybee, A. mellifera ssp. scutellata Lepeletier Italian Honeybee, A. mellifera ssp. ligustica Spinola Russian Honeybee, A. mellifera L. (strain) Carpathian Honeybee, A. m. ssp. carnica Pollman (ecotype) Gray Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Yellow Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Asiatic Honeybee, Apis cerana Enderlein Cordovan Honeybee, A. m. ssp. ligustica Spinola (race) 2016 March 23 (Easter) (SS/3)	API, Apinae	A A A A A A A A
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There is a b c d d e f g h is j k l ROMA Mi7055	s a questio 1.751	2019 (Honeybees) (MS/12) n about the validity and source of this issue. European Honeybee, Apis mellifera ssp. mellifera L. German Black Honeybee, A. mellifera ssp. mellifera L. Carniolan Honeybee, A. mellifera ssp. carnica Pollman Buckfast Honeybee, A. mellifera L. (hybrid) African Honeybee, A. mellifera ssp. scutellata Lepeletier Italian Honeybee, A. mellifera ssp. ligustica Spinola Russian Honeybee, A. mellifera L. (strain) Carpathian Honeybee, A. m. ssp. carnica Pollman (ecotype) Gray Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Yellow Caucasian Honeybee, A. m. ssp. caucasica Gorbachev Asiatic Honeybee, Apis cerana Enderlein Cordovan Honeybee, A. m. ssp. ligustica Spinola (race) 2016 March 23 (Easter) (SS/3) Western Honeybee, Apis mellifera L. (w/ tulips) Beyond the Catalog (Issues of dubious validity) CA 2019 March 12 (Caterpillars) (Single) (CA)	API, Apinae	A A A A A A A A C

MOZAMBIQUE 2019	Pebruary 10 (Butterflies) (MS/4 & SS/1) (MOZ190113a&b)	
a 116m Small Blue Grecian, Hel	iconius sara Fabr. NYM, Heliconiinae	A
b 116m Goliath Birdwing, Troid	es goliath Oberthür PAP, Papilioninae	A
c 116m Numata Longwing, Heli	conius numata ssp. aurora Bates NYM, Heliconiinae	A
d 116m Peacock, Nymphalis io I	NYM, Nymphalinae	A
SS 300m Banded Peacock, Papilio	palinurus Fabr. PAP, Papilioninae	A
Margin R: Uranus Giant Owl, Co	uligo uranus Herrich-Schaeffer NYM, Morphinae	Z
ST. THOMAS & PRINCE IS 2019	February 4 (Butterflies) (MS/4 & SS/1) (ST190108a&b)	
a 31d White Peacock, <i>Anartia</i>		A
b 31d Pipevine Swallowtail, Ba	attus philenor L. PAP, Papilioninae	A
c 31d Giant Swallowtail, <i>Papil</i>	io cresphontes Cramer PAP, Papilioninae	A
d 31d American Painted Lady,	•	A
Margin Top: Brimstone, Gonept		Z
SS 124d Bluewing, Myscelia ethu	sa Doyere NYM, Biblidinae	A
Margin R: Malachite, Siproeta sa	relenes L. NYM, Nymphalinae	Z
SIERRA LEONE 2019	January 30 (Bees) (MS/4 & SS/1) (SRL190106a&b)	
a 12500le Red Mason Bee, Osmia		A
b 12500le Tawny Mining Bee, And		A
c 12500le Violet Carpenter Bee, Xy	olocopa valga Gerstaecker API, Xylocopinae	A
d 12500le Buff-Tailed Bumblebee,		A
SS 50000le Violet Carpenter bee, Xy		A
Margin R: Western Honeybee, A		\mathbf{Z}
TOGO 2019	February 25 (Butterflies) (2ea MS/4) (TG190106a & 190107a)	
a 800fr Cepora aspasia Stoll	PIE, Pierinae	A
b 800fr Blue Morpho, Morpho r	netenor ssp. cacica Staudinger NYM, Morphinae	A
c 800fr Scarlet Mormon, Papilio	deiphobus ssp. rumanzovia EschscholtzPAP, Papilioninae	A
d 800fr Italian Marbled White, A	Melanargia arge Sulzer NYM, Satyrinae	A
Margin UL: Pink-Tipped Satyr,	Cithaerias pireta ssp. aurorina Weymer NYM, Satyrinae	Z
L-UR: U/I Butterfly	Nymphalidae U	Z
Mid-UR: African Monar	ch, Danaus chrysippus L. NYM, Danainae	Z
R-UR: Small Copper, Ly	caena phlaeas L. LYC, Lycaeninae	Z
a 800fr Large Copper, Lycaena o	lispar Haworth LYC, Lycaeninae	A
b 800fr Checkered Swallowtail,	Papilio demoleus L. PAP, Papilioninae	A
c 800fr Amazon Beauty, Baeotu	s aeilus Stoll NYM, Nymphalinae	A
d 800fr Blue Morpho, Morpho r	netenor Cramer NYM, Morphinae	A
	1 1 J	Z
L-UR: U/I Butterfly	Nymphalidae U	Z
	, , , , , , , , , , , , , , , , , , , ,	Z
R-UR: Small Copper, Ly	caena phlaeas L. LYC, Lycaeninae	Z

Fun Facts

Which insects have appeared on 150 or more different stamps?

- Western Honeybee, Apis mellifera L.
- 353 Monarch, Danaus plexippus L.
- 267 Old World Swallowtail, Papilio machaon L.
- 184 African Monarch, Danaus chrysippus L.
- 167 Peacock, Nymphalis io L.
- Seven-Spotted Ladybird, Coccinella septempunctata L.
- 152 Painted Lady, Vanessa cardui L.
- 150 Red Admiral, Vanessa atalanta L.

Thirty-seven species have appeared more than 50 times on stamps, with all being Lepidoptera except for a honeybee, stag beetle, ladybird, and mosquito. Species listed also include subspecies. Of the 37 species, 78 percent were described by Linnaeus, indicating stamp designers and postal authorities favor common, well-known species. Meanwhile, entomo-philatelists groan "Not those again."



Code

Z

Scott#



Denom Common Name/Scientific Name

SS Margin Top: U/I Dinosaurs & Pterosaurs

PALEONTOLOGY

Editor Michael Kogan, BU1863

New Listings



Family

ARMENIA			2019 March 27 (Flora & Fauna of Ancie	ent Time III) (Single)		
N/A	230d	†Steppe Mammoth,	Mammuthus trogontherii	Elephantidae	1	A
CENTRAL	AFRI(CAN REPUBLIC	2019 January 16 (Dinosaurs) (MS/4 & S	$(SS/1)^{[1]}$		
а	850fr	Centrosaurus aperti	VS.	†Ceratonsidae	1	Α

CENT	RAL AFRIC	CAN REPUBLIC 2019 January 16 (Dinosaurs) (MS/4	& SS/1) ^[1]	
a	850fr	Centrosaurus apertus	†Ceratopsidae	A
b	850fr	Lambeosaurus lambei	†Hadrosauridae	A
c	850fr	Citipati osmolskae	†Oviraptoridae	A
d	850fr	Giganotosaurus carolinii	†Carcharodontosauridae	A
N/A	SS 3300fr	Velociraptor mongoliensis	†Dromaeosauridae	A
	Margin	R: Giganotosaurus carolinii	†Carcharodontosauridae	Z

GUINEA	\	2019 April 22 (Dinosaurs) (Set/4) ^[1]		
Each of t	hese stamp	os was also issued in SS/1 with two of the other species show	vn in the bottom margin.	
N/A	12500fr	Parasaurolophus walkeri	†Hadrosauridae	A
N/A	12500fr	Spinosaurus aegyptiacus	†Spinosauridae	A
N/A	12500fr	†Cryolophosaurus ellioti	Clade: Tetanurae	A
N/A	12500fr	Euoplocephalus tutus	†Ankylosauridae	A

MOZAMBIQUE		2019 February 10 (Dinosaur	s) (MS/4 & SS/1) ^[1]	
a	116m	Nodosaurus textilis	†Nodosauridae	A
b	116m	Giganotosaurus carolinii	†Carcharodontosauridae	A
c	116m	Fukuisaurus tetoriensis	Superfamily: †Hadrosauroidea	A
d	116m	Ankylosaurus magniventris	†Ankylosauridae	Α
N/A	SS 300m	Triceratops horridus	†Ceratopsidae	Α
	Margin	R: Deinonychus antirrhopus	†Dromaeosauridae	\mathbf{Z}

		,	2019 Febri	uary 10 (Extinct Birds) (M	$(S/4)^{[1]}$
1 -	4 7	7. 7	7 .		

		zors restauty to (Entineer	Sir 45) (1115/ 1)	
d	116m	Archaeopteryx lithographica	†Archaeopterygidae	A
NIGE	R	2019 February 27 (Dinosau:	rs) (MS/4 & SS/1) ^[1]	
a	800fr	Bajadasaurus pronuspinax	†Dicraeosauridae	Α
b	800fr	Mussaurus patagonicus	†Mussauridae	Α
c	800fr	L: Staurikosaurus pricei	†Herrerasauridae	В
		R: Eoraptor lunensis	Suborder: Theropoda	В
d	800fr	Riojasaurus incertus	†Riojasauridae	Α
	Margin	UL: Triceratops (skull)	†Ceratopsidae	Z
N/A	SS 3300fr	Sauropelta edwardsorum	†Nodosauridae	A
	Margin	UR: Riojasaurus incertus	†Riojasauridae	Z
	_	LR: Staurikosaurus pricei	†Herrerasauridae	Z

2019 February 27 (Meteorites) (MS/4 & SS/1)^[1]

Illustrates the theory that dinosaurs were killed by an asteroid impact. SS shows Luis & Walter Alvarez.

MS Margin Top: U/I Pterosaurs Order: †Pterosauria Z

PORTUGAL		2019 April 5 (Museums) (Set/13)		
N/A	20g	Jurassic Ammonite (Geological Museum of Lisbon)	Subclass: †Ammonoidea	В
N/A	20g	Natural History Museum of Lisbon		R
N/A	20g		R	
ST. TH	IOMAS & I	PRINCE 2019 February 4 (Dinosaurs) (MS/4 & SS	/1) ^[1]	
a	31d	Agustinia ligabuei	†Agustiniidae	A
b	31d	Einiosaurus procurvicornis	†Ceratopsidae	A
c	31d	Citipati osmolskae	†Oviraptoridae	A
d	31d	Brachylophosaurus canadensis	†Hadrosauridae	A
		Top: Tyrannosaurus	†Tyrannosauridae	Z
N/A SS 124d		Majungasaurus crenatissimus	†Abelisauridae	A
	Margin	Bot: Tyrannosaurus rex	†Tyrannosauridae	Z
SLOV	ENIA	2019 March 22 (Fossil Mammals in Slover	nia) (Single)	
N/A	85c	Anthracotherium magnum	†Anthracotheriidae	A
TOGO	1	2019 February 25 (Dinosaurs) (2ea MS/4)	[1]	
a	800fr	Stegosaurus stenops	†Stegosauridae	A
b		Pterodactylus antiquus	Clade: †Pterodactylidae	A
c	c 800fr Spinosaurus aegyptiacus †Spinosauridae			A
d	•		†Hadrosauridae	A
		Top: Pterodactylus antiquus	Clade: †Pterodactylidae	Z
a			†Tyrannosauridae	A
b	800fr Triceratops horridus †Ceratopsidae			A
c	800fr Brachiosaurus altithorax †Brachiosauridae		'	A
d	· · · · · · · · · · · · · · · · · · ·		†Ankylosauridae	A
Margin		Top: Stegosaurus stenops	†Stegosauridae	Z
		2019 February 25 (Fossils) (MS/4 & SS/1)	[1]	
a	800fr	Dicranurus elegans (fossil)	†Odontopleuridae	A
b	800fr	Elrathia kingii (fossil)	†Alokistocaridae	A
c	800fr	Velociraptor mongoliensis (fossil)	†Dromaeosauridae	A
d	800fr	†Mioplosus labracoides (fossil)	Percidae	A
	Margin	UL: Tyrannosaurus rex (skeleton)	†Tyrannosauridae	Z
		UR: †Smilodon (skull)	Felidae	Z
N/A		Stegosaurus stenops (fossil)	†Stegosauridae	A
	Margin	LR: Triceratops horridus (skull)	†Ceratopsidae	Z
		UL: Archaeopteryx lithographica (fossil)	†Archaeopterygidae	Z
		Other Stamps to Consider		
PERU		2019 February 11 (100th anniv. Peru Natu	ural History Museum) (Sing	le)
N/A	\$6	Museum entrance	(<u>-</u>	R
		Personalized Issue		
BELG	IUM	2019 February (Neanderthal Fossils)		
N/A	1 Europe	Bones of Neanderthals from Spy cave in Belgium, discovered i (20gr Europe Letter rate)	n 1886	R
NETH	ERLANDS	2019 April 20 (Mammoth)		
N/A	1	†Mammoth, <i>Mammuthus</i> sp. (three walking) (20gr Domestic Letter rate) (Issued for a stamp show in Goud	Elephantidae a, Netherlands.)	A

Commemorative Postmarks

CHINA (Taiwan)

2019 May 12 (Tainan City Zuojhen Fossil Park)

Commemorative postmark of Tainan City Zuojhen Fossil Park with fossil of prehistoric *Rhinoceros sinensis* ssp. *hayasakai* from Tsai-liao fossil museum of Tainan City.

CZECH REPUBLIC

2019 May 22 (10th anniv. Chlupac Museum of Earth History)

R-Label with skull of Carnotaurus dinosaur.

GERMANY

2019 April 11 (Mammoth from Balve Cave)

Stylized mammoth on meter franking from Balve, Germany.

NETHERLANDS

2019 April 20 (Mammoth)

Commemorative postmark with Mammoth eating Gouda cheese from mousetrap. Issued for a stamp show is Gouda, Netherlands.

Future Issues

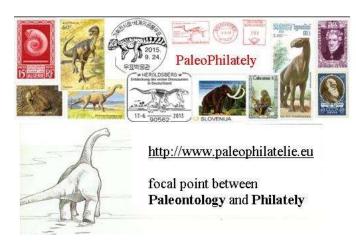
- 2019.06.03: **Hungary:** 150th anniversary of the Hungarian Royal Geological Institute (tentative: it is still not clear what will be depicted there).
- 2019.06.07: **Michel Stamp Catalog:** *Dinos: Whole World*, 1st edition. Lists stamps with prehistoric animals from all over the world. Planned for 03.05.2019, but delayed. Clear design and modern layout due to their innovative production process. Approximately 2,500 color illustrations and about 20,000 price quotations. Novelties up to Michel Rundschau 1/2019 have been catalogued in this edition. Format: Paperback. Pages: approx. 328. Language: German.
- 2019.06.28: **United States:** *Tyrannosaurus rex.* Set/4 to be issued in Washington D.C. "With this pane of 16 stamps, the Postal Service brings *Tyrannosaurus rex* to life—some 66 million years after its demise. One design illustrates a face-to-face encounter with a *T. rex* approaching through a forest clearing; another shows the same young adult *T. rex* with a young *Triceratops*—both dinosaurs shown in fossil form. The third and fourth stamps depict a newly hatched *T. rex* covered with downy feathers and a bare-skinned juvenile *T. rex* chasing a primitive mammal. The 'Nation's *T. rex*,' the young adult depicted on two of the stamps, was discovered on federal land in Montana and is one of the most studied and important specimens ever found. Its remains will soon be on display at the Smithsonian Institution's National Museum of Natural History in Washington, D.C. Art director Greg Breeding designed the stamps with original artwork by Julius T. Csotonyi, a scientist and paleo artist."
- 2019.05.09: **Germany:** 250th anniversary of Alexander von Humboldt, great German naturalist. Some collectors might consider this stamp because Charles Darwin made frequent reference to Humboldt's work in his *Voyage of the Beagle*, where Darwin described his own scientific exploration of the Americas.
- 2019.10.20: **Netherlands:** Personalized stamp of *Mosasaurus hoffmanni* to be issued in MS/10.
- 2019.xx.xx: **Portugal:** ATM stamps "Fossils Discovered in Portugal."
- 2019.xx.xx: **Ukraine:** Commemorative cover for 100th anniversary of Zoological Museum in Kiev (there are big Paleontology exhibits in the museum).

Notes:

[1] Commercial issue: Stamps issued only for sale to collectors, not used for postal purpose. Stamps of countries that issued excessive or too expensive stamps. Not recommended for serious collectors.

If you know about any recent or future Paleontology-related stamps not listed above, please send a short message to Associate Editor Mr. Michael Kogan (*admin@paleophilatelie.eu*), or by post to the Editor, Jack R. Congrove (address on inside cover).

Images and detailed descriptions of all stamps mentioned above can be viewed on the following website: http://www.paleophilatelie.eu/year/current.html.



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

http://www.paleophilatelie.eu/phil_catalogue.html chronology and country based catalog

http://www.paleophilatelie.eu/stamps_overview.html gallery of stamps, FDC, circulated covers

Contact: admin@paleophilatelie.eu

Join us on Facebook: PaleoPhilately group

USA DINOSAUR STAMPS

On 28 June 2019, the U.S. Postal Service plans to issue a set of four Forever (55c) stamps depicting *Tyrannosaurus rex*, probably the most famous dinosaur species. The die cut self-adhesive stamps will be issued in panes of 16.

One design illustrates a face-to-face encounter with a *T. rex* approaching through a forest clearing. Another shows the fossil skeleton of a young adult *T. rex* with the skeleton a young *Triceratops*.

The third and fourth stamps depict a newly hatched *T. rex* covered with downy feathers and a bareskinned juvenile *T. rex* chasing a primitive mammal.

Described as "the Nation's *T. rex*," the young adult depicted on two of the stamps, was discovered on federal land in Montana and is one of the most studied and important specimens ever found. Its



remains will soon be on display at the Smithsonian Institution's National Museum of Natural History in Washington, D.C.

Art director Greg Breeding designed the stamps with original artwork by Julius T. Csotonyi, a scientist and paleoartist.

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

 $\textbf{Catawiki}. \ Listings \ and \ illustrations \ of \ stamps \ for \ sale \ by \ topic \ for \ every \ theme \ from \ A \ to \ Z.$

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/

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*. 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

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

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

https://entomologytoday.org/

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

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	Α	Subject is the primary design element
FI	Flowers (with or without other plant parts)	В	Subject is only part of the main design
Fr	Fruit (including seeds, nuts, grains, etc.)	С	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.)	Χ	Subject is a lookalike (e.g., mushroom cloud)
Wr	Wreath	Z	Subject is in the Margin or selvage
Wr*	Head wreath (or chaplet)	*	Subject is natural color (no longer in use)

Acronyms and Abbreviations:

Acrony	ms and Appreviations:		
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
bklt	booklet	s/a	self-adhesive
Cap	captioned	Sc#	Scott Catalogue number
CTO	canceled to order	S-0-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	imperforate	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	3	male symbol
NTSS	National Topical Stamp Show	\$	female symbol
NWF	National Wildlife Federation	®	poisonous/venomous symbol

Entomology Family Abbreviations:

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	Phylliidae	
PIE	Pieridae	PLU	Plutellidae	POM	Pompilidae	
PSY	Psychodidae	PTE	Pterophoridae	PYR	Pyralidae	
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			