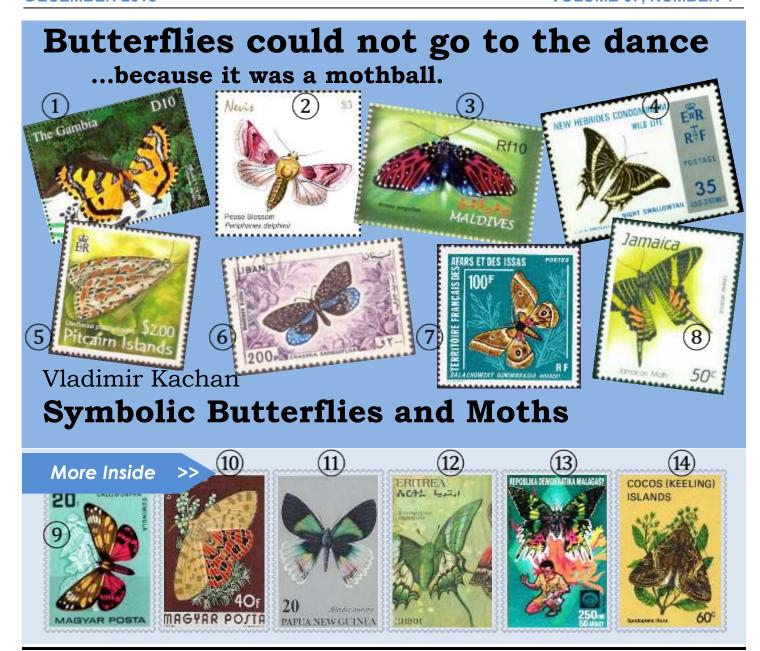
BIOPHILATELY

OFFICIAL JOURNAL OF THE BIOLOGY UNIT OF ATA

DECEMBER 2018 VOLUME 67, NUMBER 4



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The Biology Unit, founded in 1951, is a study unit of the American Topical Association dedicated to the international cooperative study of biological postage stamps and related material.

Electronic versions of back copies of *Biophilately* are available on our website, or from the Librarian on request. Please contact the individual associate editors if you have queries about the content of their columns.

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 February 2019.

FROM THE EDITOR'S DESK

Our cover provides a chance for a little quiz. Which of the species shown are moths that get to go to the dance, and which are butterflies that will get bounced at the door? See the answer on page 344.

Our final edition for this year includes some bonus material as an early holiday gift for all of our members. We have included an event calendar per member request that shows all of the American Philatelic Society sanctioned World Series of Philately exhibitions for the upcoming year.

We have also included a couple more articles than usual to start implementing some of the suggestions of the jury at the last literature exhibition.

Also the Unit Board of Directors has voted to increase the membership dues for those who receive the print edition of the journal. (See the revised rates in the box below.) The on-line electronic membership dues will remain the same.



The Unit has not increased its dues since 2001, and for the past three years it has been operating at a deficit. Perhaps the government can get away with deficit spending, but since unlike the government, we cannot print our own money, when we run out, we are through. A new membership form is included with the print copy in the mail. A downloadable version is also on the Unit website (www.biophilately.org).

The Secretary is asking **all members** to fill out and return this form whether you are paying your dues now, or not. This includes our Life members. The Secretary needs your updated address and contact information and your indication to grant or withhold your address data in our membership listing. This is very important, so please do not neglect to submit your form. The electronic version of the form is fillable on your computer, so you can fill it out, save it and email a copy to the Secretary to save yourself time and a stamp. (By the way, the new US first -class rate will go up to 55c in January 2019.)

While you are considering the new membership dues, I would like to point out that there are advantages to receiving the web/electronic version besides the lower rate. For one thing, each new edition is immediately available to read as soon as it is published. You need not wait on the mail to deliver your copy. Also, because the sections are separated, you can select and read/download only those you are interested in (though I and our authors would appreciate it if you would take a look at all of the articles).

Since it is the end of the year, what would that be without asking you to consider making a donation to the Unit along with your membership payment. For US residents, such donations are tax-deductible. Each year the Unit gives out three exhibiting awards at the National Topical Stamp Show. These donations help pay for those awards and also help sponsor the publication of handbooks and other materials produced by the ATA.

I neglected to place an index in the last edition of Volume 66 and I have corrected this omission in this edition by including a combined index for Volumes 66 and 67.

I hope everyone has a terrific holiday season and a safe and healthy New Year.

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

Jack R. Congrove

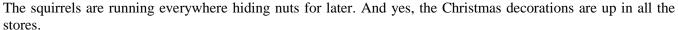
| DUES RATES (US\$) (note new amo | ounts) | ADVERTISING RATES | |
|--|------------------|--------------------------------------|--------------|
| US membership | \$25 | Full page insertion | \$20 |
| Canada membership | \$30 | Half page insertion | \$10 |
| Worldwide membership | \$45 | Quarter page insertion | \$5 |
| On-line membership | \$15 | | |
| Please see the Biology Unit website (| www.biophilate | ly.org) for membership applications. | Several pay- |
| ment options are available. Send appl | ications and pay | ments payable to the Biology Unit of | f ATA to: |

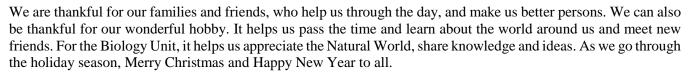
PRESIDENT'S MESSAGE

A momentous anniversary took place earlier this month. A hundred years ago the Armistice of WWI was signed at the 11th hour of the 11th day of the 11th month. This ended a hideous war, where more men died from disease and infection than from bullets and mortar shells.

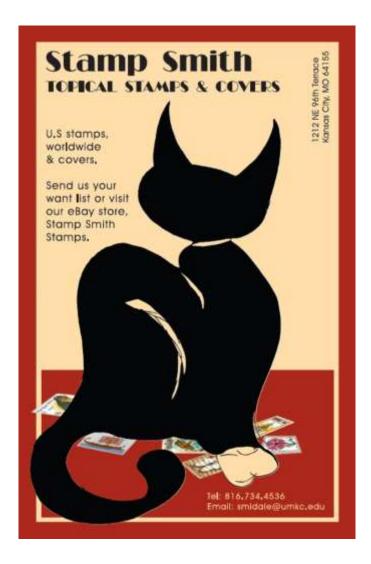
I see a souvenir sheet to honor the end of WWI with a watercolor painting of a red poppy. It symbolizes "Remembrance" of those who sacrificed and paid the ultimate price. "In Flanders field the poppies grow between the crosses row on row...." We think of the sacrifices of those who served so many years ago. And now, as then, we honor those who serve today.

Thanksgiving is here. The weather has turned cold, with wind and snow. I watch the leaves turn red, orange, and gold, then fall to the ground. The flowers have all wilted.





Laurie





SECRETARY-TREASURER'S CORNER

DUES

The Biology Unit Board of Directors has determined to increase the annual membership dues. This topic was discussed at the Unit meeting held at the joint APS-ATA show in Columbus, Ohio, in August.

For each of the past three years, the Unit has been operating at a deficit. As mentioned in the last edition of the journal, and after discussion, the Unit Board of Directors has decided that we must increase the membership dues in order to keep up with our expenses. This will be the first increase in dues since 2001.

The dues for the electronic/website version will remain the same at \$15 per year. The dues for receiving the print edition will increase to \$25 for US subscribers, \$30 for Canadian subscribers, and \$45 for worldwide subscribers.



We have included a Membership Renewal form as a separate page with this edition. Those of you who receive only the electronic version, please go to the Unit website (*www.biophilately.org*) and download an electronically fillable version of the form. Fill it out and email the completed form to the Secretary (*chris-dahle@biophilately.org*).

It is important that **everyone** fill out and return this form whether or not you are paying your dues now, or even if you are a Life member. We need the up-to-date address information and your indications for granting permission to publish your contact address information in our public membership listing.

Also, please consider including a donation with your dues payment. These donations are tax-deductible for US members. We use the money from these donations to fund our Biology Unit awards and to help sponsor publication of handbooks written by our Unit members. We also help sponsor functions at the National Topical Stamp Show.

NEW MEMBERS

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 Biology Unit welcomes the following new members:

1890 Victor Wasilov, Alpharetta, Georgia fish (5), insects (7)
1891 Peter Voice, Kalamazoo, Michigan prehistoric life/dinosaurs (0), minerals, geology

1892 Robert Odum, Milwaukee, Wisconsin

mushrooms (2), birds (5), primates (8)

Vera Felts, the Executive Director of the American Topical Association, when she sends out new member packets for those who join the ATA, includes business cards for study units that relate to the topics they collect. She reports that between 50–60 percent of the cards are for the Biology Unit, more by far than any of the other 50 units.

Check with your local club members at the next meeting to see who collects a biological topic and get them signed up. Membership forms and instructions are on our website (www.biophilately.org/membership.html).

LETTERS

[Ed. note: Excerpts from a letter from Peter Wilson received 18 September 2018.]

"For me, I would gladly pay \$25 or more for a printed copy of *Biophilately*. Two reasons for that: (1) I'm basically a Luddite.... (2) A bigger reason is that it would end up costing me more. I have collections in nearly every category of listings. It is so much easier to get the Scott number in *Biophilately* than digging through back issues of *Scott's Monthly*....

"The second point that struck me is a bit of disappointment in the level of medal won at NTSS-StampShow. Again, this just my opinion: I'm very happy with *Biophilately* as it is. Frankly, the level of medal should be secondary. I'd hate to see the listings go away. While I enjoy the articles, I [pore] over the listings to add Scott numbers to what I have, and see what I've missed.

"You are doing a great job, and I look forward to each issue. Thank you for listening to my opinions."

2018

NEWS OF NOTE SPECIAL OFFER

The Maximum Card Study Unit is running a special offer for Biology Unit members who are also ATA members. They will give you a free full year membership in their study unit. All you need to do is contact the President, Terry Watson (*terryw7633@comcast.net*), and provide your email address. Their journal is published only in an electronic format.

We will be running an article about maximum cards and how they are created in the next edition of *Biophilately*. These items can add a colorful aspect to your topical collection. You can find many that feature biological subjects and you can make some of your own. The upcoming article will teach you how.

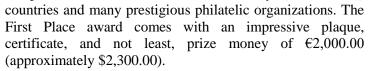
ATA PUBLICATIONS WIN AWARD

Auction house Christoph Gaertner in Germany has sponsored a philatelic literature competition each year since 2013. This year, Vera Felts, the Executive Director of the American Topical Association, the parent organization of our study unit, entered *Topical Time*, the ATA magazine, in the regular category and *The Magical World of Stamp Collecting* in the youth category. A few weeks before the award announcement she was asked if it was OK if they combined the two entries into one category, which would receive more points. Of course, she agreed to permit this.



Roger Van Laere (R) accepts First Place award on ATA's behalf from Christoph Gaertner

On 22 October, the awards were announced and the ATA entry received the First Place award. This is no small achievement as the competition involved 22 entries from many



Biology Unit member Roger Van Laere from Belgium, represented the ATA in receiving the award. See the complete listing of awards at the CG website:

(www.cg-award.com/2018_de.php).

Congratulations to Wayne Youngblood, *Topical Time* editor, and Aimee Devine, Assistant ATA Youth Coordinator and editor of *The Magical World of Stamp Collecting*.

CHEMISTRY ON STAMPS

One of the newest members of the American Topical Association, Gu-Gang Chang of Taiwan, has created a website focusing on Chemistry on Stamps (http://www.chemophil.blogspot.tw). This site has some very interesting information that relates to biophilately including a section on the "Chemistry of Life."

The site contains hundreds of fascinating exhibit pages showing stamps, covers, ephemera, and other wonderful material from his collection relating to chemistry, medicine, biology, and scientists. All of the text and captions are in English.

LONG TIME PHILATELIC PUBLISHER CLOSING

Washington Stamp Exchange of Florham Park, New Jersey, a fixture of the stamp hobby for 85 years, is closing its business at the end of 2018.

The decision was announced in a 19 October press release. The company discontinued its ArtCraft first day cover (FDC) line at the end of 2015, citing decreasing sales and high production costs. The company reported that it intends to sell everything in its stock "at steeply discounted prices," including FDCs (ArtCraft), albums (White Ace albums and pages) and supplies (StampMount).

The company is offering products through its website (http://www.washpress.com).

LABELS PURPORTING TO BE STAMPS

The Collectors Club of Chicago was founded in 1928, and has as its mission "the documentation, preservation, advancement, and promotion of philately through education, study research, and services...." The CCC organized the Arthur Salm Foundation in 1991, in order to conduct technical research on philatelic products, and to report on matters relevant to philatelic forgeries and fantasies. The foundation has issued a series of reports over the years.

The first edition of Salm Paper No. 4, "Labels Purporting to be Stamps," was issued in May 1997. The document was initiated when CCC member and well-known philatelic writer, Lester E. Winick, received a letter from a collector of topicals, who had purchased hundreds of dollars of stamps representing the fictitious modern-day nations of "Abkhazia," "Batum," and "Easdale Island" at stamp shows as prestigious as CAPEX '96. The collector was told by a stamp dealer at the bourse that "...these countries were emerging nations as a splinter off old Russia." Another collector buying the same issues was told that "...these countries were forerunners, and would be valuable in the future."

In 2012, Charles E. Cwiakala completely updated and revised the original document, adding a great deal of further or new information. This listing is a valuable reference for identifying bogus issues. You can view this listing online at the CCC website (www.collectorsclubchicago.org/label-stamps.php).

REMINDER

In the last issue, I mentioned that some members were unaware of the distinguished history of the Biology Unit. In 2013, we published *The Mother of All Indexes*, which details this history. I would like others to know about our Unit and its contributions and I offered to email an electronic copy of *The Mother of All Indexes* to any Unit member who contacts me before 31 December (*jackcongrove@comcast.net*). Time is running out on this offer.

TOPICAL COLLECTING VIDEO

In the report on the 2018 National Topical Stamp Show in the last issue, I mentioned that videographer Graham Beck had produced a high quality video report on the show (https://www.youtube.com/watch?v=5bImEro1G30). Beck has continued his video presentations and one of his latest is titled Top 10 Topics, which he produced in conjunction with the American Topical Association. In this video, he explores the top ten most popular stamp collecting topics as determined by the ATA member submissions for its membership directory.

Three of these top ten topics relate to biophilately. Can you guess what they are, or what topic is Number One? You will have to watch the video to find out (https://www.youtube.com/watch?v=H64CWAYpA7E). It is also available for ATA members to download from the ATA "Because You Belong" website so you can use it for a presentation at your local club meeting (www.ata-becauseyoubelong.org). You have to log in to this website.

There are a number of other videos relating to topical stamp collecting. You can find links to them at the ATA website (http://www.americantopicalassn.org/videos.shtml). I noticed subjects such as aquariums, cats, chickens, donkeys, elephants, fossils, and more.

DISTINGUISHED TOPICAL PHILATELIST NOMINATIONS

Each year the American Topical Association presents its highest award, the Distinguished Topical Philatelist (DTP) award to a deserving individual. The DTP is awarded for service to topical philately in general and to the ATA in particular. It was established in 1952, and has been presented to more than 120 individuals since its inception. Thirty of these awardees have been members of the Biology Unit—more than any other study unit.

This is the most prestigious award given by the ATA. The DTP Selection Committee is accepting nominations for the 2019 recipient. You can submit your nomination to the chairperson, Jean C. Stout, P.O. Box 8174, Jackson, MS 39298. Please include a description of the individual's philatelic contributions and activities.

EVENT CALENDAR

| Event | Dates | Location | |
|----------------------------|----------------------|--|--|
| Southeastern Stamp Expo | 25–27 January 2019 | Hilton Atlanta Northeast, Norcross, GA | |
| Sarasota National | 1–3 February 2019 | Municipal Auditorium, Sarasota, FL | |
| AmeriStamp Expo/ARIPEX | 15–17 February 2019 | Mesa Convention Center, Mesa, AZ | |
| Garfield-Perry March Party | 15–17 March 2019 | Holiday Inn Strongsville, Strongsville, OH | |
| St. Louis Stamp Expo | 29–31 March 2019 | St. Louis Renaissance Airport Hotel, St. Louis, MO | |
| Plymouth Show | 13-14 April 2019 | Hellenic Cultural Center, Westland, MI | |
| WESTPEX | 26-28 April 2019 | San Francisco Airport Marriott, Burlingame, CA | |
| Philatelic Show | 3–5 May 2019 | Boxboro Regency, Boxborough, MA | |
| PIPEX | 10–12 May 2019 | Red Lion Hotel on the River, Portland, OR | |
| ROPEX | 17–18 May 2019 | Greater Canandaigua Civic Center, Canandaigua, NY | |
| Rocky Mountain Stamp Show | 24–26 May 2019 | Crowne Plaza Hotel, Denver, CO | |
| NAPEX | 7–9 June 2019 | McLean Hilton at Tyson's Corners, McLean, VA | |
| COLOPEX | 14-15 June 2019 | St. Andrew-Nugent Parish Hall, Columbus, OH | |
| Royal*2019*Royale | 21–23 June 2019 | Hilton Mississauga, Mississauga, ON | |
| OKPEX | 28–29 June 2019 | Reed Convention Center, Midwest City, OK | |
| Minnesota Stamp Expo | 19-21 July 2019 | Crystal Community Center, Crystal, MN | |
| Americover | 26-28 July 2019 | Renaissance St. Louis Airport, St. Louis, MO | |
| NTSS-APS StampShow 2019 | 1-4 August 2019 | Hilton Omaha, Omaha, NE | |
| BALPEX | 30 Aug-1 Sep 2019 | Baltimore Hunt Valley Inn, Baltimore, MD | |
| SEAPEX | 13–15 September 2019 | Tukwila Community Center, Tukwila, WA | |
| MILCOPEX | 19–21 September 2019 | Crowne Plaza Milwaukee Airport, Milwaukee, WI | |
| Filatelic Fiesta | 9–10 November 2019 | Elks Lodge, San Jose, CA | |
| CHICAGOPEX | 22–24 November 2019 | Westin Chicago Northwest, Itasca, IL | |
| FLOREX | 6–8 December 2019 | Osceola Heritage Park Events Center, Kissimmee, FL | |
| Omaha Stamp Show | 12–13 September 2020 | Metro Community Center, Omaha, NE | |
| INDYPEX | 2–4 October 2020 | Hamilton Co. Fairgrounds, Noblesville, IN | |

A HANDY CHECKLIST OF SCOTT CATALOGUE PREFIXES

Clarence Chandler (Chan) Wright

[Ed. note: Chan Wright (1920–2002), of Eugene, Oregon, was also the major compiler of Linn's Stamp Identifier, an original project of the Greater Eugene Stamp Society. The original of this article was published in The Federated Philatelist, Number 156, April 1998, the journal of the Northwest Federation of Stamp Clubs. Because most of our readers use this catalogue, I thought this listing would be a useful reference. I have revised and updated it to include additional entries (including the "R" series). Since Wright assembled this list, Scott has added many new prefixes and has expanded the listing in the catalogue Introduction section. This list does not include all the many suffix letters that also exist.]

The *Scott Catalogues* list stamps and related items under each country by functional classes. In the Introduction to the 1998 Vol. 1, Scott lists 39 classes in addition to the "Regular" issues, and assigns a prefix for each. That is a lot of classes, right? Yes, but these are only the classes used by more than one country.

Over the past several years I have developed the following listing, which undoubtedly is incomplete. (Please note that Scott also uses letter prefixes followed by numbers to identify its stamp illustrations, and these prefixes may, or may not, agree with those used for the class of stamps.) I wonder whether Scott has a complete list. Note that the only "R" series included is the "RA" Postal Tax Series. There are about 30 other prefixes in the "R" Revenue Series.

A small, but interesting, collection could be made by trying to get at least one stamp in each of these classes.

| | Regular Issues | Н | Acknowledgment of Receipt |
|-----------|--------------------------------|---------|---------------------------------------|
| AR | Postal Fiscal | I | Late Fee |
| В | Semi-Postal | IRC | International Reply Coupon |
| BK | Booklet Regular | J | Postage Due |
| BKC | Booklet Airmail | JQ | Postage Due, Parcel Post |
| C | Air Post | JX | Porte De Mar |
| CB | Air Post Semi-Postal | K, #K | Offices Abroad |
| CBO | Air Post Semi-Postal Official | KB | Offices Abroad Semi-Postal |
| CE | Air Post Special Delivery | L, #L | Local or Subsidiary Issues |
| CF | Air Post Registration | #LB | Local or Subsidiary, Semi-Postal |
| CL | Air Post Semi-Official | | (US: Semi Officials) |
| CLEU | SCADTA Stamps | #LC | Local or Subsidiary, Air Post |
| CM | Air Post Military | #LE | Local or Subsidiary, Special Delivery |
| CO | Air Post Official | LF | Local or Subsidiary, Registration |
| CQ | Air Post Parcel Post | LH | Local or Subsidiary, Ack of Receipt |
| CP, #CP | Commemorative Panel | LJ | Local or Subsidiary, Postage Due |
| CVP, #CVP | Computer Vended | LO | Local or Subsidiary, Official |
| CVPT | Machine Set-up and Test Labels | | (US: Carrier Stamps) |
| #CVT | Computer Vended, Test | LOX | Post Office Seals, Typeset |
| CVUX | Computer Vended, Postal Card | #LP | Local or Subsidiary, Newspaper |
| D | Pneumatic Post | #LU | Local or Subsidiary, Envelope |
| E | Special Delivery | M | Military, Regular |
| EB | Special Delivery Semi-Postal | MC | Military, Air Post |
| EO | Special Delivery Official | MQ | Military, Parcel Post |
| EP | Encased Postage | MR | War Tax |
| ER | Delivery Tax | N, #N | Occupation, Regular |
| EX | Personal Delivery | NB, #NB | Occupation, Semi-Postal |
| EY | Authorized Delivery | NC | Occupation, Air Post |
| F | Registration | NCE | Occupation, Air Post Special Delivery |
| FA | Certified Mail | NE | Occupation, Special Delivery |
| FX | Registry Exchange Labels | NJ | Occupation, Postage Due |
| G | Insured Letter | NO, #NO | Occupation, Official |
| GY | Marine Insurance | NP | Occupation, Newspaper |

| NRA | Occupation, Postal Tax | RM | Revenue, Embossed Paper |
|-------|--|-------|--|
| NSC | Numismatic Souvenir Cards | RN | Revenue, Stamped Paper |
| NU | Occupation, Envelopes | RO | Revenue, Proprietary Match |
| NUX | Occupation, Postal Cards | RS | Revenue, Proprietary Medicine |
| NUZ | Occupation, Postal Cards, Official | RT | Revenue, Proprietary Perfumery |
| O, #O | Official | RU | Revenue, Proprietary Playing Cards |
| OX | Post Office Seals | RV | Revenue, Motor Vehicle |
| OXA | Post Office Seals, Dead Letter Office | RVB | Revenue, Boating |
| OXB | Post Office Seals, Dead Letter Office Return | RVC | Revenue, Camp |
| OXF | Post Office Seals, Registry | RVP | Revenue, Park Pass |
| OXSP | Post Office Seals, Sea Post | RVT | Revenue, Trailer |
| OY | Life Insurance | RW | Revenue, Hunting Permit |
| P | Newspaper | RX | Revenue, Distilled Spirits |
| #P | Die and Plate Proofs | RY | Revenue, Firearms Transfer |
| PC | Postage Currency | RZ | Revenue, Rectification |
| PN | Postal Note | S | Franchise (US: Post Office Savings Stamps) |
| PR | Newspaper and Periodical | #S | Specimen Stamps |
| PS | Postal Savings Stamps | SC | Souvenir Cards |
| Q | Parcel Post | SP | Souvenir Pages |
| QE | Special Handling | T | Telegraph Stamps |
| QI | Special Insurance Labels | #TC | Trial Color Proof |
| QRA | Parcel Post, Postal Tax | TS | Treasury Savings Stamps |
| QY | Parcel Post, Authorized Delivery | U | Stamped Envelopes & Letter Sheets |
| R | Revenue, Documentary and General | UC | Stamped Envelopes & Letter Sheets, Air |
| RA | Postal Tax, Regular Issues | UCM | Stamped Envelopes, Military Air Post |
| RAB | Postal Tax, Semi-Postal | UO | Stamped Envelopes, Official |
| RAC | Postal Tax, Airmail | UX | Postal Cards |
| RAJ | Postal Tax, Postage Due | UXC | Postal Cards, Air |
| RB | Revenue, Proprietary | UY | Postal Cards, Paid Reply |
| RC | Revenue, Future Delivery | UZ | Postal Cards, Official |
| RD | Revenue, Stock Transfer | #V | Imperforate Coils |
| RE | Revenue, Cordials and Wines | W | Stamped Wrappers |
| REA | Revenue, Beer | WO | Stamped Wrappers, Official |
| REF | Revenue, Fermented Fruit Juice | WS | War Savings Stamps |
| RF | Revenue, Playing Cards | WV | Sanitary Fair Stamps |
| RG | Revenue, Silver | WX | Christmas Seals |
| RH | Revenue, Cigarette Tubes | X, #X | Provisional Stamps |
| RI | Revenue, Potato Tax | #XU | Provisional Stamped Envelopes |
| RJ | Revenue, Tobacco Tax | Y | Revolutionary Issue |
| RJA | Revenue, Narcotic Tax | YF | Revolutionary Issue, Registration |
| RJM | Revenue, Marihuana Tax | YP | Revolutionary Issue, Newspaper |
| RK | Revenue, Consular Service Fee | Z | Prefecture Stamps (Japan) |
| RL | Revenue, Customs Fee | - | |
| | | | |



STAMP STORIES

Jack R. Congrove, BU1424

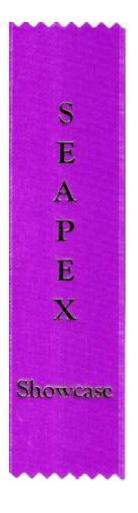
This is a continuation of the Biology Unit one-frame exhibit shown at the joint ATA-APS show in Columbus, Ohio. The theme was, "What Does (your topic) Do in Its Spare Time?" This came about due to a challenge by Bob Lamb at an ATA board meeting (see at right).

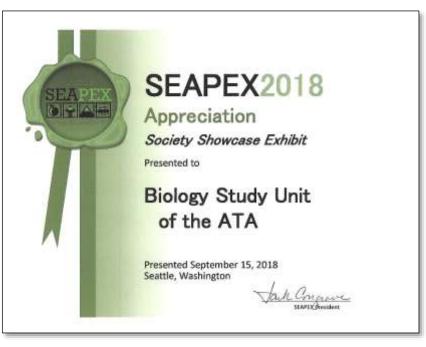
The group of exhibitors who created pages kindly allowed me to take the exhibit for display in the society showcase at the Seattle Philatelic Exhibition (SEAPEX) held 14–16 September.

Many attendees enjoyed the humor of the exhibit and the imaginations of the exhibitors. We also received a nice certificate of appreciation and ribbon.

I will show the remaining pages in upcoming editions of the journal.







Page 3: Beavers (Larry Davidson)

BEAVERS

It is true that beavers spend a lot of their time cutting down trees, and building dams and lodges.





Nestlé "Animal Habitats" card

But in their spare time they enjoy music.

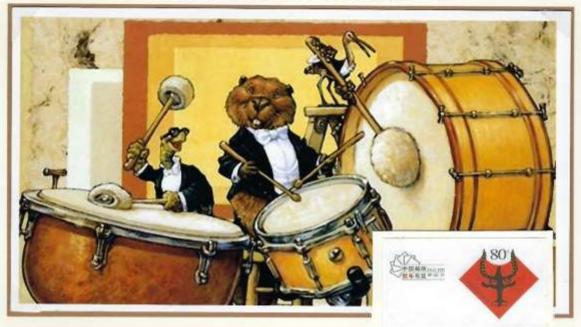


Some beavers especially enjoy singing, and one of their favorite times of the year is Christmas, when they can sing carols, especially "O, Christmas tree" (they love trees).



2002 Canadian Christmas Seals

Other beavers prefer playing in a band or orchestra, and their favorite is playing a woodwind instrument or drums.



Postal card issued by China Post, 2009

Indicium

Page 4: Butterflies (Jack Congrove)

BUTTERFLIES

Butterflies travel great distances; some follow each other all the way from Canada to Mexico.



Even young caterpillars like to follow each other around.

This behavior should not surprise us because in their spare time, butterflies love to march in parades.







Butterflies like to put on their people costumes and celebrate Mardi Gras and Carnival (they especially love the floats with flowers).



They are also good dancers and often perform fancy maneuvers along the parade route.





ZOONIVERSE

Jack R. Congrove, BU1424

With the advent of automated data collection that uses high resolution imaging and other refined instrumentation, scientists are dealing with huge volumes of data. And these volumes are increasing exponentially with each new generation of instrumentation. In astronomy, some instruments collect up to 2.5 terabytes (TB) of data each night. A terabyte is a unit of digital information equal to one million, million (10¹²) bytes. (More accurately it is 2⁴⁰ bytes.) Some future instrumentation will be able to collect 15 to 30 TB of data per night. One TB can hold about 310,000 photographs, or the text of more than 132,000 large books.

All of this data requires analysis (otherwise why collect it at all?). Individual scientists could spend their entire lifetime working around the clock and would only be able to sort through a tiny fraction of this volume. After all, how many large books have you read?

What's more, for much of this data, computers are of little help. Computers can organize the data, but it takes a human being to perform the analysis itself. It turns out that humans are more adept at picking out patterns than any computer algorithm yet devised. Computer programs easily get confused and often miss significant factors.

This is where Zooniverse comes in. Zooniverse was founded in 2007, as a collaboration among the Alder Planetarium, the University of Oxford, and the Citizen Science Alliance. Zooniverse started as an astronomy project that called on volunteers to classify galaxies in digital images from the Sloan Digital Sky Survey. It has since grown to more than 125 completed and current projects.

The Zooniverse website connects people with professional researchers to promote collaboration and discovery using large data sets. Zooniverse enables citizen scientists to take part in cutting-edge research with nothing more than an internet connection. And participants do not need specialized training. Each project describes the procedures and provides help and instruction to perform the required tasks. Each project also has on-line discussion boards for the exchange of information and ideas.

When the first project started, within a day, the site was receiving nearly 70,000 classifications per hour. Within a year, more than 50 million classifications had been submitted by more than 150,000 participants. The more volunteers who look at an image, the more likely the resulting classification is to be correct.



Rainforest Flowers



Reading Nature's Library

Now its diverse project categories include biology, history, climate science, the arts, medicine, ecology, and the social sciences. Participants can switch among projects. If you get tired of counting Weddell seals in Antarctica's Ross Sea (Weddell Seal Count: www.zooniverse.org/projects/slg0808/weddell-seal-count), you can sort through fragments of Middle Eastern and Mediterranean texts from the 10th to 13th centuries (Scribes of the Cairo Geniza: www.zooniverse.org/projects/judaicadh/scribes-of-the-cairo-geniza).

Obviously, this system benefits researchers by having others sort through the data to identify areas for further study and to cull out less significant information. But it also benefits the volunteers by enabling them to become part of a community involved in exploration and scientific advancement.

The names of volunteers are listed with those of the project leaders on discovery publications and dozens of volunteers have been co-authors on articles and scientific papers. Zooniverse puts the power of science in your hands and gives volunteers a first-hand look at how science progresses from raw data to analyzed results.

Currently, Zooniverse has 88 active projects. Below is a listing of the 46 current Zooniverse projects related to biology and ecology. There is something here to interest everyone. (www.zooniverse.org/projects)

Beluga Bits: Examine underwater photos of wild beluga whales and help identify the age, sex, and group size. Also need a keen eye to look for identifying marks to recognize beluga that return to this location year after year.

Snapshot Hoge Veluwe: Classify the wildlife in the pictures and contribute to important ecological research in the Netherlands.

South Sudan DiversityCam: South Sudan, the newest nation in the world, is extraordinarily biodiverse. Help conserve wildlife in this special and under-studied region by identifying animals in camera trap photos.

Rainforest Flowers: Help tag the Field Museum's photos of tropical flowers.

London Bird Records: Help recover 20th century bird observations collected by the London Natural History Society.

Penguin Watch: Tag penguins in remote regions to help researchers understand their lives and environment.

Candid Camera: Identify New York wildlife to create thriving forests.

eMammal: Help classify camera trap photos of different animals.

Invader ID: Help researchers track changes in coastal environments by identifying marine invertebrates.

HumBug: Discover mosquitoes from their buzz.

Manatee Chat: Identification and classification of manatee calls.

Grouse Grooves: Our lab is studying Greater Sage-grouse conservation, help us protect this important species.

Orangutan Nest Watch: Search drone images of Bornean rainforest for orangutan nests and fig trees.

Interior Least Tern and Piping Plover Predators: Help researchers identify predators of threatened and endangered species that nest within the Central Platte River Basin in Nebraska.

Reading Nature's Library: Help Manchester Museum discover the treasures in its collection.

Snapshot Grumeti: Check out photos of wildlife living in Grumeti, home of the ancient annual wildebeest migration, which drives the dynamics of this unique ecosystem.

Snapshot Serengeti: Help researchers explore the secret life of the Serengeti. Our cameras track the movement of thousands upon thousands of animals migrating with and following the wildebeest migration.

Snapshot Ruaha: Help researchers mitigate human-wildlife conflict by classifying photos that are used to assess communities' contributions to conservation efforts.

Project Plumage: Help researchers explore bird color with museum specimens.

Floating Forests: Help researchers uncover the history of Giant Kelp forests around the globe.

The Community Seagrass Initiative – Seagrass Explorer: The UK's most important marine habitat is in decline, help researchers understand why and find out more about the animals that live there.

Cheetahs of Central Namibia: The Cheetah Conservation Fund needs your assistance: Help us research the predator and prey species of central Namibia, home to the largest population of wild cheetah.

Parasite Safari: Do watering holes concentrate wildlife and their parasites? Help researchers to measure how different species balance the need for water with the risks of parasitism and predation.

Treeversity: Tag our trees. Help researchers identify plant features while learning about botany and exploring the Arnold Arboretum's Living Collection.

Seabirdwatch: The world's seabirds are in rapid decline. Help monitor them and change conservation worldwide.

Leaf Targeting: Help us understand how plants grow by marking leaves in plant images.

Wildwatch Kenya: We need your help to count, identify, and track the giraffes and other wildlife living in our field conservation sites in northern Kenya.

Weddell Seal Count: Are Antarctic Weddell seals threatened by fishing? By climate change? Help us find out.

Colorado Corridors Project: Let's build an overpass for wildlife. Help us identify animals that need a safe place to cross the road.

Fossil Atmospheres: Count cells of modern & fossil leaves. Help researchers track climate change over millions of years

Serengeti Wildebeest Count: Count the Serengeti wildebeest.

Michigan ZoomIN: Help researchers investigate wildlife in Michigan.

Western Montana Wildlife: Help process the thousands of creatures captured on camera.

Etch a Cell: Help researchers learn more about the structures that make up cells.

Steller Watch: Help researchers find out why the endangered Steller sea lion continues to decline in the Aleutian Islands.

Chicago Wildlife Watch: Help researchers understand how animals—from coyotes to chipmunks—share this great city with humans.

Arizona BatWatch: Help scientists learn about endangered Lesser Long-nosed Bats.

Mapping Change: Help researchers use over a century's worth of specimens to map the distribution of animals, plants, and fungi. Your data will let us know where species have been and predict where they may end up in the future.

Camera CATalogue: Analyze wildlife photos to help Panthera protect big cats.

Notes from Nature: Transcribe museum records from several groups including plants and insects.

Snapshot Wisconsin: Discover wildlife by classifying images captured on trail cameras.

Whales as Individuals: Help researchers identify individual Humpback Whales by clueing our computer algorithms in to patterns on their tails.

Chimp & See: Welcome to Africa—home of the chimpanzee. Our cameras have taken thousands of videos of these and other animals. Now we need your help to study, explore, and learn from them.

Science Gossip: In the Victorian period, scientists and members of the public worked together to further scientific discovery. Before computers and cameras they had to draw what they saw. Their drawings are locked away in the pages of Victorian periodicals, such as *Science Gossip*, *Recreative Science*, and *The Intellectual Observer*. Help us to classify their drawings and map the origins of citizen science.

Condor Watch: The California Condor is a critically endangered species and the population is suffering from the effects of lead poisoning. By tracking the location and social behavior of the animals we can better detect early warning signs of the illness.

Plankton Portal: Understanding where and when plankton occur at different depths in the ocean allows scientists to get a global understanding of the function and health of the ocean from small to global scales.

Reference: Klesman, Alison. "Zooniverse: A Citizen Science Success Story." Astronomy. October 2018. pp. 26–35.

SYMBOLIC BUTTERFLIES AND MOTHS

Vladimir Kachan, Belarus

Since the dawn of Man, we have co-existed with butterflies and moths. Their effect on man has been far-reaching, inspiring us in all aspects of the arts, sciences, and humanities.

The bright clusters and nebulae of planet Earth's night sky are often named for flowers or insects. Though its wingspan covers more than three light-years, the Butterfly Nebula (NGC 6302) is one of these. This celestial object looks like a delicate butterfly. But it is far from serene.

What resembles dainty butterfly wings are actually roiling cauldrons of gas heated to more than 36,000 degrees Fahrenheit. The gas is tearing across space at more than 600,000 miles per hour—fast enough to travel from Earth to the moon in 24 minutes! A new camera aboard NASA's Hubble Space Telescope snapped this image of the planetary nebula in July 2009.

Catalogued as NGC 6302, but more popularly called the Butterfly Nebula, it lies within our Milky Way galaxy, roughly 3,800 light-years away in the constellation Scorpius. The glowing gas is the outer layers of a star, expelled about 2,200 years. The structures in the nebula are among the most complex ever



Butterfly Nebula St. Vincent, 2013, Sc#3848a

observed in planetary nebulae. The spectrum of NGC 6302 shows that its central star is one of the hottest stars in the galaxy, with a surface temperature in excess of 250,000 degrees Celsius, implying that the star from which it formed must have been very large.

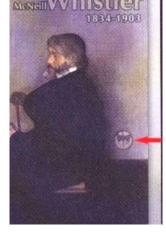
James Abbott McNeill Whistler (1834–1903) was an American painter and graphic artist, active during the American Gilded Age and based primarily in the United Kingdom. His famous signature for his paintings was in the shape of a stylized butterfly possessing a long stinger for a tail. Whistler invented a monogram signature—a stylized butterfly based on his initials—and always placed it deliberately as a compositional element, not just a maker's mark. A butterfly surrounded by an oval was for Whistler as a symbol of his own image, an artist of elusive beauty, professing "art for art."

Nobel Prize winner Edward Norton Lorenz (1917–2008) was an American mathematician, meteorologist, and a pioneer of chaos theory. He introduced the strange attractor notion and coined the term, butterfly effect.



Edward Norton Lorenz Guinea, 2008, Mi#5886

He proposed the butterfly effect to illustrate his chaos theory, wherein the flapping of butterfly wings could result in a hurricane thousands of miles away.



Whistler Painting Micronesia, 2003, Sc#564

The butterfly effect is the sensitive dependence on initial conditions in which a small change in one state of a complex system can result in large differences in a later state. The term is derived from the metaphorical example of the details of a tornado (exact time of formation, exact path taken) being influenced by minor perturbations such as the flapping of the wings of a distant butterfly several weeks earlier.

Lorenz discovered the effect when he observed that runs of his weather model with initial condition data that was rounded in a seemingly inconsequential manner would fail to reproduce the results of runs with the unrounded initial condition data. A very small change in initial conditions had created a significantly different outcome.

The term refers to the idea that a butterfly's wings could create tiny changes in the atmosphere that might ultimately alter the path of a tornado or delay, accelerate, or even prevent the occurrence of a tornado in another location. The butterfly does not power, or directly create the tornado. The term is intended to imply that the flapping wing represents a small change in the initial condition of the system, which cascades to large-scale alterations of events.

Had the butterfly not flapped its wings, the trajectory of the system might have been vastly different—but it is also equally possible that the set of conditions without the butterfly flapping its wings could lead to a tornado. The butterfly effect presents an obvious challenge to prediction, since initial conditions for a system

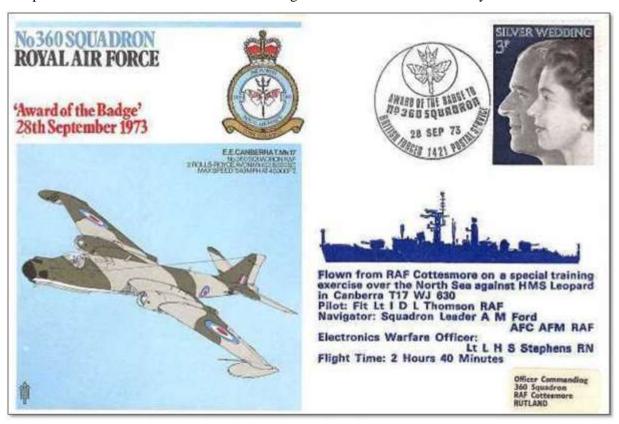


Hurricane Hattie Relief Br. Honduras, 1962, Sc#165

such as the weather can never be known to complete accuracy. This problem motivated the development of ensemble forecasting, in which a number of forecasts are made from perturbed initial conditions.

Melese laodamia is a moth of the family Erebidae. It is found in Mexico, Panama, Colombia, Venezuela, and Trinidad. This species has a pair of sound-producing tymbals, where each organ is a swollen, air-filled structure formed externally from the lower part of the thorax with 15–20 grooves on its outer face. The moth can compress these using its basalar muscles and the grooves act as an array of "microtymbals," each producing a brief pulse of sound. The result is a pattern of ultrasonic vibrations generated between 30 and 90 kHz with a pulse repetition frequency of 1200 per sesond. The ultrasound was thought to jam the sonar of insectivorous bats.

This moth was used in the insignia of the Royal Air Force (RAF) 360 Squadron, whose task was to develop equipment and tactics to jam enemy radars during the Cold War period. This joint Royal Navy/Royal Air Force squadron provided electronic countermeasures training for users of air defense radar systems.



Melese laodamia on RAF 360 Squadron Badge Insignia Cachet and Special Cancel Great Britain, 28 September 1973

Butterflies are often used to accompany the yin-yang symbol, representing perfect balance and harmony among Man and his universe. The yin yang symbol is all about finding unity amidst duality. It's a perfect sign for balance, harmony and moderation.

In Chinese philosophy, the concept of yin yang is used to describe how polar opposites, or seemingly contrary forces are interconnected and interdependent in the natural world, and how they give rise to each other in turn. Opposites thus only exist in relation to each other.

The concept lies at the origins of many branches of classical Chinese science and philosophy, as well as being a primary guideline of traditional Chinese medicine. The symbol is also a central principle of different forms of Chinese martial arts and exercise.

Many natural dualities (e.g., dark and light, female and male, low and high, cold and hot, water and fire, air and earth) are thought of as manifestations of yin and yang respectively. The national flag of South Korea has an image of the yin-yang symbol, which represents balance in the universe. A stamp from South Korea shows a moth with a marking n its wing that closely resembles the symbol on the flag.

In China, the butterfly is a symbol of long life because the second character in the word butterfly in Chinese has exactly the same pronounciation as the character (die) which means "70 or 80 years of age." The butterfly also signifies joy and warmth.

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



Alternative Medicine Sri Lanka, 2000, Sc#1323



Metopta rectifasciata South Korea, 1954, Sc#202A

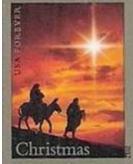


CHRISTMAS BIOTA

How many different biological subjects can you find on Christmas stamps? That question occurred to me when I came across a stamp from Christmas Island showing a drawing of a Christmas tree composed of red crabs (Sc#539).

There are animals associated with the Holy Family and the birth of Jesus.









Many dozens of stamps have been issued that show holiday trees, both realistic and stylized, as well as other greenery and flowers associated with the season.







Besides Santa's reindeer, there are many portrayals of other animals that are either associated with the winter season, or evoke warm feelings of friendship and charity.







Many stamps (like the red crab tree) depict a wide variety of local or exotic animals that are not normally associated with the traditional western Christmas traditions.

An interesting and challenging collection could be assembled that shows at least one example of every biological subject found on a Christmas stamp from around the world.



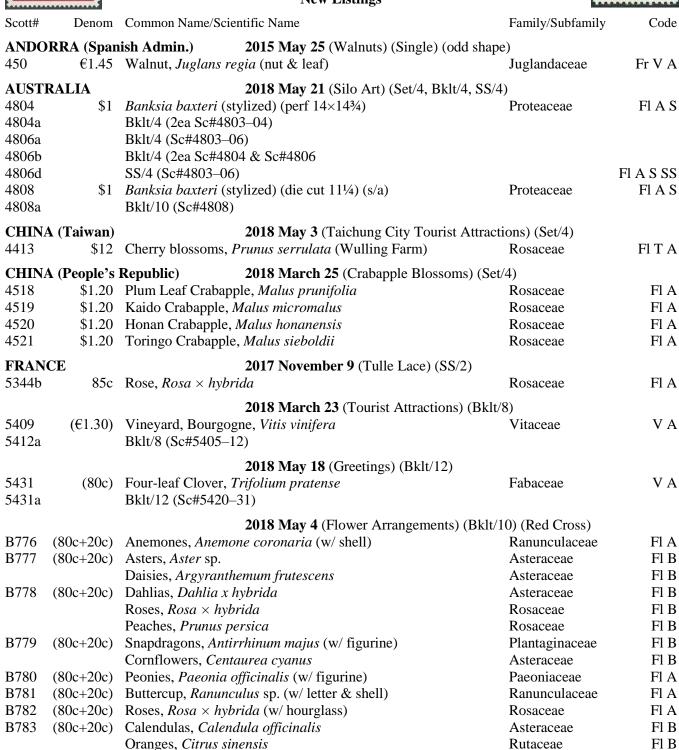


BOTANY

Editor

Christopher E. Dahle, BU1269

New Listings



| FRANCE | • | | A . | El D |
|-------------------|--------------|---|-------------------------|----------------|
| B784 (80 | 0c+20c) | Sunflowers, <i>Helianthus annuus</i> (w/ teapot) Blue Thistles, <i>Eryngium bourgatii</i> | Asteraceae | Fl B Fl B |
| B785 (80 | 0c+20c) | Zinnias, <i>Zinnia elegans</i> (w/ snail & butterflies) | Apiaceae Asteraceae | Fl A |
| B785a (80 | JC+20C) | Bklt/10 (Sc#B776–85) | Asteraceae | ПА |
| FRENCH | POLYN | NESIA 2018 June 22 (Medicinal Plants) (Single) (| w/ basil scent) | |
| 1212 | 80fr | Basil, Ocimum basilicum | Lamiaceae | Fl V A |
| GERMAN | JV | 2018 (Flowers Type of 2005) (see <i>Plants or</i> | Stamps Vol V n | 62) |
| 3009 | 100c | • | Primulaceae | Fl A |
| 3010 | | Love-in-a-Mist (Jungfer im Grünen), <i>Nigella damascena</i> | Ranunculaceae | Fl A |
| 3011 | 379c | , , | Asteraceae | Fl A |
| 3023 | 70c | 2018 February 1 (25th anniv. Tafel Charity Apple (stylized), <i>Malus domestica</i> | y) (Single) Rosaceae | Fr A S |
| | | 2018 May 3 (Greetings) (Set/2) | | |
| 3038 | 70c | Four-leaf Clover, Trifolium pratense (w/ paper boat) | Fabaceae | V B |
| 3039a | | Bklt/7 (Sc#2917–19, Sc#2975–76, Sc3038–39) | | |
| | | 2018 August 9 (Harz Mountain Spruce For | est) (Single) | |
| 3055 | 70c | Tree trunks, <i>Picea abies</i> | Pinaceae | ΤA |
| HUNGAR | \mathbf{v} | 2018 May 2 (Lavender) (SS/1) | | |
| | | es with green serial numbers, imperforate examples with red serial | l numbers and ner | forated and |
| | • | les with lavender serial numbers and lavender scent were printed | | |
| 4472 | 1000fo | Lavender (stylized), Lavandula angustifolia (black numbers) | Lamiaceae | Fl V S SS |
| ITALY 3498 | 95c | 2018 March 8 (Famous Women) (Set/4) U/I flower w/ Eva Marnelli Calvino (1886–1978), botanist | Orchidaceae? | Fl B U |
| JAPAN | | 2017 May 15 (Flowers for Mourning Type | of 2014) (Set/3) | |
| 4106 | 62¥ | Plum blossoms, <i>Prunus mume</i> (like Sc#3655) | Rosaceae | Fl A |
| 4107 | 62¥ | | Rosaceae | Fl A |
| 4108 | 62¥ | Apricot blossoms, Prunus mume | Rosaceae | Fl A |
| | | 2017 September 20 (Traditional Color Seri | es #1) (2ea MS/10 |) |
| 4148a | 62¥ | Fringed Pinks, Dianthus superbus | Caryophyllaceae | Fl A |
| 4148b | | Gentians, Gentiana scabra | Gentianaceae | Fl A |
| 4148c | 62¥ | Mandarin Oranges, Citrus reticulata | Rutaceae | Fr A |
| 4148e | 62¥ | Grapes, Vitis vinifera | Vitaceae | Fr A |
| 4148f | 62¥ | Patrinia flowers, Patrinia scabiosifolia | Caprifoliaceae | Fl A |
| 4148g | | Morning Glories, <i>Ipomoea nil</i> | Convolvulaceae | Fl A |
| 4148i | 62¥ | . 1 | Equisetaceae | VA |
| 4148j | 62¥ | Fallen leaves | | VAU |
| 4149a | 82¥ | Maple leaves, Acer palmatum | Sapindaceae | VA |
| 4149d | 82¥ | | Fagaceae | Fr A |
| 4149e | 82¥ | , 1 | Fabaceae | Fl A |
| 4149g | | Persimmon, Diospyros kaki Wolnuts, Juglans gilantifolia | Ebenaceae | Fr A |
| 4149h 4149i | | Walnuts, Juglans ailantifolia Grass | Juglandaceae Poaceae | Fr A Fr A U |
| JORDAN | | 2018 June 28 (Vegetables) (MS/10) | | |
| 2362a | 20ni | Spinach, Spinacia oleracea | Amaranthaceae | V A MS |
| 2362b | 20pi | - | Malvaceae | Fr A MS |
| 2362c | • | Watercress, Nasturtium officinale | Brassicaceae | V A MS |
| 23020 | • | | | |

| JORDA | AN (continu | ed) | | |
|-------|--------------------|---|-------------------|-------------|
| 2362d | | Broccoli, <i>Brassica cretica</i> (=B. oleracea var. italica) | Brassicaceae | Fl A MS |
| 2362e | • | Cauliflower, Brassica cretica (=B. oleracea var. hatretis) | Brassicaceae | Fl A MS |
| 2362f | • | Corchorus (Jute), Corchorus olitorius | Malvaceae | V A MS |
| 2362g | 20pi | Dandelion, Taraxacum campylodes | Asteraceae | V A MS |
| 2362h | 20pi | Fava Beans, Vicia faba | Fabaceae | Fr A MS |
| 2362i | 20pi | Green Beans, Phaseolus vulgaris | Fabaceae | Fr A MS |
| 2362j | 20pi | Chard, Beta vulgaris | Amaranthaceae | V A MS |
| KIRIB | • | 2017 October 14 (Flowers) (Set/6) | | , |
| 1040 | 25c | Te Kanawa (Glueberry), <i>Cordia subcordata</i> | Boraginaceae | Fl A |
| 1041 | 50c | Te Kaituru (Everblooming Ixora), <i>Ixora casei</i> | Rubiaceae | Fl A |
| 1042 | 75c | Te Nikarairai (Yellow Elder), Tecoma stans | Bignoniaceae | Fl A |
| 1043 | \$1 | Te Rooti (Hibiscus), Hibiscus rosa-sinensis | Malvaceae | Fl A |
| 1044 | \$2.50 | Te Meeria (Frangipani), <i>Plumeria alba</i> | Apocynaceae | Fl A |
| 1045 | \$4 | Te Kiebu (Poison Bulb), <i>Crinum asiaticum</i> | Amaryllidaceae | Fl A |
| | YZSTAN | 2017 December 29 (Rice Varieties) (Set/2 | • | |
| 561 | 22s | Ak Turpak, Oryza sativa | Poaceae | Fr A |
| 562 | 83s | Devzira, <i>Oryza sativa</i> | Poaceae | Fr A |
| 562a | 000 | SS/2 (Sc#561–62) | 1 0 40 0 40 0 | Fr A SS |
| LIBER | PTA . | 2015 November 2 (Vincent van Gogh Flov | vers) (MS/6 & SS/ | ′1) |
| 3079a | \$100 | "Three Sunflowers in a Vase" (1888), Helianthus annuus | Asteraceae | Fl A MS |
| 3079b | \$100 | "Still Life: Japanese Vase with Roses and Anemones" (1890) | Tisteraceae | 1111111 |
| 20170 | Ψ100 | Rosa sp. | Rosaceae | Fl B MS |
| | | Anemone coronaria | Ranunculaceae | Fl B MS |
| 3079c | \$100 | "Vase with Red Poppies" (1886), Papaver rhoeas | Papaveraceae | Fl A MS |
| 3079d | \$100 | "Vase with Oleanders and Books" (1888), Nerium oleander | Apocynaceae | Fl A MS |
| 3079e | \$100 | "Vase with Red Gladioli" (1886), Gladiolus sp. | Iridaceae | Fl A MS |
| 3079f | \$100 | "Blossoming Almond Branch in a Glass with a Book" (1888) | Trauceuc | 1171110 |
| | | Prunus dulcis | Rosaceae | Fl A MS |
| 3080 | SS \$350 | "Still Life: Vase with Pink Roses" (1890), Rosa sp. | Rosaceae | Fl A SS |
| | | 2016 February 20 (Plants & Flowers of A | | |
| 3109a | \$100 | Oyster Plant, Acanthus mollis | Acanthaceae | Fl A MS |
| 3109b | \$100 | Almond, Prunus dulcis | Rosaceae | Fl A MS |
| 3109c | \$100 | Cardoon, Cynara cardunculus | Asteraceae | Fl A MS |
| 3109d | \$100 | Purple Foxglove, Digitalis purpurea | Plantaginaceae | Fl A MS |
| 3109 | Margin | LL: Grapes, Vitis vinifera | Vitaceae | Fr Z MS |
| 3110a | \$100 | Burning Bush, Dictamnus albus | Rutaceae | Fl A MS |
| 3110b | \$100 | Bay Laurel, Laurus nobilis | Lauraceae | Fl A MS |
| 3110c | \$100 | African Oil Palm, Elaeis guineensis | Arecaceae | Fl A MS |
| 3110d | | Poppy, Papaver rhoeas | Papaveraceae | Fl A MS |
| 3110e | \$100 | Bird Cherry, Prunus avium | Rosaceae | Fl A MS |
| 3110f | \$100 | Blessed Mary's Thistle, Silybum marianum | Asteraceae | Fl A MS |
| 3110 | Margin | Top: Crocus? Crocus sp. | Iridaceae | Fl Z U MS |
| 3111 | SS \$350 | Maidenhair Ferns, Adiantum capillus-veneris (also on margin) | Adiantaceae | V A Z SS |
| | DONIA | 2017 October 19 (Flora) (Horiz Strip/4) | | _ |
| 761a | 11d | Marijuana, Cannabis sativa | Cannabaceae | VA |
| 761b | 20d | Cotton, Gossypium hirsutum | Malvaceae | Fl Fr A |
| 761c | 50d | Tobacco, Nicotiana tabacum | Solanaceae | VA |
| 761d | 100d | Opium Poppy, Papaver somniferum | Papaveraceae | Fl Fr A |

| MACEDONIA (continued)2017 December 22 (Vegetables) (Set/4)76618dCeleriac, Apium graveolensApiaceae76718dButternut Squash, Cucurbita moschataCucurbitaceae76818dRadishes, Raphanus raphanistrum ssp. sativusBrassicaceae | V A Fr A V A V A | | | |
|---|---------------------------|--|--|--|
| 767 18d Butternut Squash, <i>Cucurbita moschata</i> Cucurbitaceae | V A | | | |
| | | | | |
| , I I | | | | |
| 769 18d Red Onions, <i>Allium cepa</i> Amaryllidaceae | | | | |
| MALAYSIA 2018 April 24 (Citrus Fruits) (Set/3 & SS/1) | | | | |
| 1753 60c Lime, Citrus aurantiifolia Rutaceae | Fr A | | | |
| 1754 60c Makrut Lime, <i>Citrus hystrix</i> Rutaceae | Fr A | | | |
| 1755 60c Calamondin, Citrus microcarpa Rutaceae | Fr A | | | |
| • | A SS | | | |
| 2018 May 17 (Medicinal Plants) (Set/3 & SS/1) | | | | |
| 1757 60c Dogfruit, Archidendron jiringa Fabaceae Fl | Fr A | | | |
| 1758 80c Freshwater Mangrove, Barringtonia asiatica Lecythidaceae Fl | Fr A | | | |
| 1759 \$1 Butter Fruit, <i>Litsea garciae</i> Lauraceae Fl | Fr A | | | |
| 1760 SS \$3 Bitter Beans, <i>Parkia speciosa</i> Fabaceae Fl Fr | A SS | | | |
| MALAYSIA (Kelantan) 2018 February 13 (Flowers & Arms of Sultan Muhammad V) (SS/6 | 5) | | | |
| 131 10c Lotus, <i>Nelumbium nelumbo</i> Nelumbonaceae | Fl A | | | |
| 132 20c Hydrangea, <i>Hydrangea macrophylla</i> Hydrangeaceae | Fl A | | | |
| 133 30c Amaryllis, <i>Hippeastrum reticulatum</i> Amaryllidaceae | Fl A | | | |
| 134 40c Bougainvillea, <i>Bougainvillea spectabilis</i> Nyctaginaceae | Fl A | | | |
| 135 50c Morning Glory, <i>Ipomoea indica</i> Convolvulaceae | Fl A | | | |
| 136 60c Hibiscus, <i>Hibiscus rosa-sinensis</i> Malvaceae | Fl A | | | |
| | A SS | | | |
| MALDIVE ISLANDS 2015 August 25 (Paintings) (MS/4) | | | | |
| 3471a 20r Murillo ptg: "Boys Eating Grapes and Melon" | | | | |
| Vitis vinifera Vitaceae Fr I | B MS | | | |
| Cucurbita pepo Cucurbitaceae Fr I | B MS | | | |
| 3474a 20r Van Gogh ptg: "Three Sunflowers," <i>Helianthus annuus</i> Asteraceae Fl A | A MS | | | |
| 2016 May 23 (Butterflies & Orchids) (MS/4 & SS/1) | | | | |
| | B MS | | | |
| V = I | B MS | | | |
| O | B MS | | | |
| v | B MS | | | |
| 3615 SS 60r Oncidium (=Odontoglossum) hallii Orchidaceae Fl | B SS | | | |
| MOLDOVA 2018 March 1 (Trees) (Set/4 & MS/8) | | | | |
| 971 1.201 Poplar, <i>Populus</i> sp. Salicaceae | ΤA | | | |
| 972 1.751 Horse chestnut, Aesculus hippocastanum Hippocastanaceae | ΤA | | | |
| 973 51 Norway maple, <i>Acer platanoides</i> Sapindaceae | ΤA | | | |
| 974 5.751 European oak, <i>Quercus robur</i> Fagaceae | ΤA | | | |
| 974a MS/8 (2ea Sc#971–74) | | | | |
| 2018 April 13 (Months of the Year) (MS/3+1 label) | | | | |
| 980a 5.751 Tulips, <i>Tulipa hybrida</i> Liliaceae Fl I | B MS | | | |
| Daffodils, Narcissus pseudonarcissus Amaryllidaceae Fl I | 3 MS | | | |
| 980b 5.751 Cherry blossoms, <i>Prunus avium</i> Rosaceae Fl I | B MS | | | |
| 980c 5.751 Cherries, <i>Prunus avium</i> Rosaceae Fl A | A MS | | | |
| 980 Margin Multiple U/I flowers & plants Fl U 2 | Z MS | | | |

| MONA 2920 | | 2018 March 7 (Intl. Flower U/I flowers | Arrangement Festival) (Single) Fl A U |
|-------------------------|----------------------------|---|---|
| 2922 | €1.90 | 2018 March 7 (50th anniv. Roses, $Rosa \times hybrida$ | Garden Club of Monaco) (Single) Rosaceae Fl A |
| 2929 | 80c | U/I plants 2018 April 30 (Exotic Gard Cactaco | len of Monaco) (Single) eae, Euphorbiaceae, Xanthorrhoeaceae V B U |
| 2881a 2881b 2881 | SS 1500t SS 1500t | Butterfly Blue, Scabiosa comosa (w/ flag) | costume) Caprifoliaceae Caprifoliaceae Fl B SS Fl Z SS |
| MONT 396 | TENEGRO 95c | 2016 April 19 (Flower) (Sin Gentiana kochiana | ngle & MS/8+label) Gentianaceae Fl A |
| 428 429 | 30c 95c | 2018 April 12 (Flowers) (S Texas Balloonwort, <i>Sphaerocarpos texanus</i> Yellow Gentian, <i>Gentiana lutea</i> | et/2) Spaerocarpaceae V A Gentianaceae Fl A |
| NEW 2 | ZEALAND | 2018 June 6 (Personalized | Stamp Type of 2016) (MS/10) |
| 2799b 2799f 2799h | \$1.20 \$1.20 \$2.40 | Fern fiddlehead Pohuhukawa flowers, <i>Metrosideros excelsa</i> Fern fiddlehead Pohuhukawa flowers, <i>Metrosideros excelsa</i> | V A U MS Myrtaceae Fl A MS V A U MS |
| 2799j | \$2.40 | Pohuhukawa flowers, Metrosideros excelsa | Myrtaceae Fl A MS |
| PERU 1962 | 5s | 2018 February 16 (Flower) <i>Epidendrum nocturnum</i> | Orchidaceae Fl A |
| 1702 | 35 | | |
| 1967 | 10s | Cacao pods, <i>Theobroma cacao</i> | an Exports) (Set/2) (dated 2017) Malvaceae Fr A |
| 1968 | | Cochineal, <i>Opuntia</i> sp. | Cactaceae V A U |
| PITCA | IRN ISLA | ND 2018 July 18 (Flowers) (M | S/6) |
| 847a | | Hibiscus, Hibiscus rosa-sinensis | Malvaceae Fl A MS |
| 847b | \$! | Bird-of-paradise, Strelitzia reginae | Strelitziaceae Fl A MS |
| 847c | \$! | Lobster plant, Heliconia rostrata | Heliconiaceae Fl A MS |
| 847d | | Anthurium, Anthurium andraeanum | Araceae Fl A MS |
| 847e 847f | | Red ginger, <i>Alpinia purpurata</i> Allamanda, <i>Allamanda blanchetii</i> | Zingiberaceae Fl A MS Apocynaceae Fl A MS |
| | | | • |
| POLA 1 4332 | | 2018 May 11 (Flowers & F Lily of the Valley, <i>Convallaria majalis</i> | ruit Type of 2009) (Single) Asparagaceae Fl A |
| | | | 1 6 |
| ROMA | | · · | iums) (Set/4, 4ea MS/5+label, SS/4) |
| 6025 6025a | 2.201 | Pelargonium peltatum MS/5+1 label (Sc#6025) | Geraniaceae Fl A |
| 6025a | 2.501 | Pelargonium zonale | Geraniaceae Fl A |
| 6026a | 2.501 | MS/5+1 label (Sc#6026) | |
| 6027 | 81 | Pelargonium grandiflorum | Geraniaceae Fl A |
| 6027a | | MS/5+1 label (Sc#6027) | |
| 6028 | 151 | Pelargonium zonale | Geraniaceae Fl A |
| 6028a | | MS/5+1 label (Sc#6028) | TI 4 00 |
| Note | | SS/4 (Sc#6025–28) (printed in limited quantities | s) Fl A SS |

| 6031a 88 Rowan, Sorbus aucuparia Rosaceae Fr T A 6032a 81 Spruce, Picea abies Pinaceae Fr T A 6032a 81 Spruce, Picea abies Pinaceae Fr T A 6032a 88 Spruce, Picea abies Pinaceae Fr T A 6094 41 Gheorghe Petrascu ptg: "Zinnias," Zinnia elegans Asteraceae Fl A 6095a 4.50 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae Fl A 6095a 270 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae Fl A 7923a 27r Chrysanthemums, Chrysanthemum sp. Asteraceae Fl B 7923b 27r Daisies, Leucanthemum vulgare Asteraceae Fl B 8 Kodoendrons, Rhododendron sp. Papaveraceae Fl C MS 8 75 S S S 10 Poppies, Papaver rhoeas Papaveraceae Fl C MS 8 75 S S S 10 Poppies, Papaver rhoeas Papaveraceae Fr C MS 8 126a 75c Starfruit on tree, Averrhoa carambola Oxalidaceae Fr A 4 126b 3.75 Sliced Guavas on tree, Psidium guajava Myrtaceae | Section Sec | ROMANIA (continued) | 2017 November 24 (Trees) (S | et/2 & 2ea MS/5+label) | | |
|---|--|--|--|---|-----------------|--|
| 6031a MS/5+label (Sc#6031) Fr T A 6032a MS/5+label (Sc#6032) Fr T A 6094a 4 Gheorghe Petrascu ptg: "Zinnias," Zinnia elegans Asteraceae Fl A Asteraceae Fl A 6094a 4.50 Gheorghe Petrascu ptg: "Zinnias," Zinnia elegans Asteraceae Fl A MS/5+label (Sc#6094) 6095a 4.50 Staphan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae Fl A MS/5+label (Sc#6095) RUSSIA Chrysanthemums, Chrysanthemun sp. Asteraceae Fl B 7923a 27r Chrysanthemums, Chrysanthemun sp. Cherry blossoms, Prinaus serrulata Asteraceae Fl B 7923b 23r Daises, Leucanthemun vulgare Rhododendrons, Rhododendrons, Rhododendrons p. Asteraceae Fl C MS 877-78 83.25 Poppies, Papaver rhoeas Papaveraceae Pi C SS 8797-78 83.25 Poppies, Papaver rhoeas Papaveraceae Pi C SS 8797-8 83.25 Poppies, Papaver rhoeas Papaveraceae Pi C SS 87126 Starfruit on tree, Averrhoa carambola Oxalidaceae Fr A 8126a 75c Starfruit on tree, Averrhoa carambola Oxalidaceae Fr A 8126e 82.75 Apple Guavas on tree, Psidium guajava Myrtaceae Fr A < | MS/S + label (Sc#6031) | · · · · · · · · · · · · · · · · · · · | | · | | |
| 6032a 8pruce, Picea abies Pinaceae Fr T A 6032a MS/5+label (Sc#6032) Pinaceae Fr T A 6094 41 Gheorghe Petrascu ptg; "Zinnias," Zinnia elegans Asteraceae Fl A 6094 40 Gheorghe Petrascu ptg; "Zinnias," Zinnia elegans Asteraceae Fl A 6095a MS/5+label (Sc#6094) Stephan Luchian ptg; "Comflowers," Centaurea cyanus Asteraceae Fl A 6095a MS/5+label (Sc#6095) Chrysanthemum sp. Asteraceae Fl B Chery blossoms, Prinus serrulata Rosaceae Fl B Cherry blossoms, Prinus serrulata Rosaceae Fl B Rhododendrons, Rhododendron sp. Ericaceae Fl B ST. VINCENT S325 Poppies, Papaver rhoeas Papaveraceae Fl C MS S979-80 S5 \$10 Poppies, Papaver rhoeas Papaveraceae Fl C MS S126 Poppies, Papaver rhoeas Papaveraceae Fr C MS S127 Poppies, Papaver rhoeas Papaveraceae Fr C MS <td colsp<="" td=""><td>6032a 8I Spruce, Picea abies Pinaceae Fr T A 6032a WS/5+label (Sc#6032) 2018 April 27 (85th anniv. Bucharest Pinacotheque) (Sct/4 & MS/5) 6094a 4I Gheorghe Petrascu ptg: "Ziminas," Zimina elegams Asteraceae FI A 6095a 4-501 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A 6095a 4-501 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A 6095a 4-501 Stephan Luchian ptg: "Cornflowers of Japan & Russia) (Pair) To Cherry blossons, Pramus servaldat Rosaceae FI B 7923b 2-7 Cherry blossons, Pramus servaldat Rosaceae FI B 87.VINCENT 2015 January I (Battle of Somme Centemary) (2ea MS/48 & SS1) 3977-78 \$3.25 Poppies, Papaver rhoeas Papaverraceae FI C MS 3979-80 \$5 \$10 Poppies, Papaver rhoeas Papaverraceae FI C MS 4126a \$1.75 Sliced Starfruit, Averrhoa carambola Oxalidaceae Fr A 4126b \$1.75 Sliced Starfruit, Averrhoa carambola Oxalidaceae Fr</td><td></td><td></td><td>Rosuccue 11 1 7</td></td> | <td>6032a 8I Spruce, Picea abies Pinaceae Fr T A 6032a WS/5+label (Sc#6032) 2018 April 27 (85th anniv. Bucharest Pinacotheque) (Sct/4 & MS/5) 6094a 4I Gheorghe Petrascu ptg: "Ziminas," Zimina elegams Asteraceae FI A 6095a 4-501 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A 6095a 4-501 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A 6095a 4-501 Stephan Luchian ptg: "Cornflowers of Japan & Russia) (Pair) To Cherry blossons, Pramus servaldat Rosaceae FI B 7923b 2-7 Cherry blossons, Pramus servaldat Rosaceae FI B 87.VINCENT 2015 January I (Battle of Somme Centemary) (2ea MS/48 & SS1) 3977-78 \$3.25 Poppies, Papaver rhoeas Papaverraceae FI C MS 3979-80 \$5 \$10 Poppies, Papaver rhoeas Papaverraceae FI C MS 4126a \$1.75 Sliced Starfruit, Averrhoa carambola Oxalidaceae Fr A 4126b \$1.75 Sliced Starfruit, Averrhoa carambola Oxalidaceae Fr</td> <td></td> <td></td> <td>Rosuccue 11 1 7</td> | 6032a 8I Spruce, Picea abies Pinaceae Fr T A 6032a WS/5+label (Sc#6032) 2018 April 27 (85th anniv. Bucharest Pinacotheque) (Sct/4 & MS/5) 6094a 4I Gheorghe Petrascu ptg: "Ziminas," Zimina elegams Asteraceae FI A 6095a 4-501 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A 6095a 4-501 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A 6095a 4-501 Stephan Luchian ptg: "Cornflowers of Japan & Russia) (Pair) To Cherry blossons, Pramus servaldat Rosaceae FI B 7923b 2-7 Cherry blossons, Pramus servaldat Rosaceae FI B 87.VINCENT 2015 January I (Battle of Somme Centemary) (2ea MS/48 & SS1) 3977-78 \$3.25 Poppies, Papaver rhoeas Papaverraceae FI C MS 3979-80 \$5 \$10 Poppies, Papaver rhoeas Papaverraceae FI C MS 4126a \$1.75 Sliced Starfruit, Averrhoa carambola Oxalidaceae Fr A 4126b \$1.75 Sliced Starfruit, Averrhoa carambola Oxalidaceae Fr | | | Rosuccue 11 1 7 | |
| MS/5+label (Sc#6032) 2018 April 27 (85th anniv. Bucharest Pinacotheque) (Sct/4 & MS/5) 6094 4 Gheorghe Petrascu ptg: "Zinnias," Zinnia elegans Asteraceae FI A 6095a 4.501 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A 6095a 4.501 Siephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A RUSSIA 2018 May 16 (Flowers of Japan & Russia) (Pair) 7923a 277 Cherry blossoms, Prunus serrulata Rosaceae FI B 7923b 277 Daisies, Leucanthemum vulgare Asteraceae FI B ST.VINCENT 2015 January 1 (Battle of Somme Centenary) (2ea MS/4 & SSI-18) 3979-80 S \$25 Poppies, Papaver rhoeas Papaveraceae FI C MS 3979-80 S \$35 Poppies, Papaver rhoeas Papaveraceae FI C MS 4126a \$15 Starfruit on tree, Averrhoa carambola Castari | MS/5+label (Sc#6032) 2018 April 27 (85th anniv. Bucharest Pinacotheque) (Sct/4 & MS/5) | | | Pinaceae Fr T A | | |
| 6094 41 Gheorghe Petrascu ptg; "Zinnias," Zinnia elegans Asteraceae FI A 6094a 40 MS/5+label (Sc#6094) Asteraceae FI A 6095a 4.50! Stephan Luchian ptg; "Cornflowers," Centaurea cyamus Asteraceae FI A 6095a 4.50! Stephan Luchian ptg; "Cornflowers," Centaurea cyamus Asteraceae FI B 7923a 27 Chrysanthemums, Chrysanthemum sp. Asteraceae FI B 7923b 27r Cherry blossoms, Prunus serrulata Rosaceae FI B 8072b 27r Daisies, Leucanthemum vulgare Asteraceae FI B 8077-78 \$3.25 Poppies, Papaver rhoeas Papaveraceae FI C MS 8079-80 \$\$ \$10 Poppies, Papaver rhoeas Papaveraceae FI C MS 8126a 75c Starfruit on tree, Averhoa carambola Oxalidaceae Fr T A 4126a 75c Starfruit on tree, Averhoa carambola Oxalidaceae Fr A 4126a \$1.75 Siliced Apple Guava, Psidium guajava Myrtaceae Fr A 4126a </td <td> </td> <td>.</td> <td></td> <td>T maccae 11 1 A</td> | | . | | T maccae 11 1 A | | |
| 6094 6094 6095 4.50 4MS/5+label (Sc#6095) Asteraceae FI A MS/5+label (Sc#6095) RUSSIA 4.50 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A MS/5+label (Sc#6095) RUSSIA 27r Chrysanthemums, Chrysanthemum sp. Asteraceae FI B A Steraceae FI B A Steraceae FI B B Ericaceae FI C MS STERA B S S S S S S S S S S S S S S S S S S | 60944 4I Ghoorghe Petrascu ptg: "Zinnias," Zinnia elegans Asteraceae FI A 6095a 4.50l Stephan Luchian ptg: "Comflowers," Centaurea cyanus Asteraceae FI A 6095a 4.50l Stephan Luchian ptg: "Comflowers," Centaurea cyanus Asteraceae FI A 6095a 277 Chrysanthemums, Chrysanthemum sp. Asteraceae FI B 7923b 277 Chrysanthemums, Chrysanthemum sp. Asteraceae FI B 7923b 277 Daisies, Leucanthemum vulgare Asteraceae FI B 7927b 85 277 Poppies, Papaver rhoeas Papaveraceae FI C MS 857-78 85.210 Poppies, Papaver rhoeas Papaveraceae FI C MS 8379-80 85 10 Poppies, Papaver rhoeas Papaveraceae FI C MS 4126a 75c Starfruit on tree, Averrhoa carambola Oxalidaceae Fr T A 4126a \$1.75 Starfruit on tree, Averrhoa carambola Oxalidaceae Fr A 4126c \$2.75 Sapole Guavas on tree, Psidlum guajava Myrtaceae Fr A | 0032a 1VIS/3+. | , | | | |
| 6094a MS/5+label (Sc#6094) Asteraceae FI A 6095a 4.501 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A 6095a 4.501 MS/5+label (Sc#6095) WS/5-label (Sc#6095) To MS/5-label (Sc#6095) RUSSIA 2017 Chrrysanthemums yl (Flowers of Japan & Russia) (Pair) Asteraceae FI B 7923b 277 Chrrysanthemums yl (Martingare) Asteraceae FI B 7923b 277 Risies, Leucanthemum vulgare Asteraceae FI B 81 B Rhododendrons, Rhododendron sp. Ericaceae FI B 81 B St. St. Papaver rhoeas Papaveraceae FI C MS 83 979−80 S \$10 Poppies, Papaver rhoeas Papaveraceae FI C MS 84 126b \$1.75 Starfruit on tree, Averrhoa carambola Oxalidaceae Fr A 4126b \$1.75 Starfruit on tree, Averrhoa carambola Oxalidaceae Fr A 4126c \$2.75 Starfruit on tree, Averrhoa carambola Myrtaceae Fr A 4126e \$3.75 | 6094a MS/5+label (Sc#6094) 6095a 4.50l Stephan Luchian pg: "Cornflowers," Centaurea cyanus Asteraceae FI A RUSSIA 2018 May 16 (Flowers of Japan & Russia) (Pair) 7923a 27r Chrysanthemums, Chrysanthemum sp. Asteraceae FI B 7923b 27r Chrysanthemum, Chrysanthemum sp. Asteraceae FI B 7923b 27r Daisies, Leucanthemun vulgare Asteraceae FI B 800dendrons, Rhododendron sp. Ericaceae FI B 817 S3.25 Poppies, Papaver rhoeas Papaveraceae FI C MS 8379-80 S8 10 Poppies, Papaver rhoeas Papaveraceae FI C MS 4126a 51.75 Starfruit on tree, Averrhoa carambola Oxalidaceae Fr A 4126b \$1.75 Starfruit, Averrhoa carambola Oxalidaceae Fr A 4126c \$2.75 Apple Guavas on tree, Psidium guajava Myrtaceae Fr A 4126c \$3.75 Sliced Apple Guava, Psidium guajava Myrtaceae Fr A 4127a \$5 Sl | | <u>=</u> | * ' ' | | |
| 6095 4.50t Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A MS/5+label (Sc#6095) RUSSIA MS/5+label (Sc#6095) 2018 May 16 (Flowers of Japan & Russia) (Pair) 7923a 27r Chrysanthemums, Chrysanthemum sp. Cherry blossoms, Prunus serrulata Rosaceae FI B B Cherry blossoms, Prunus serrulata Asteraceae FI B B Rosaceae FI B R Rosaceae FI B R Rosaceae FI B R Rosaceae FI C M Rosaceae FI C MS Rosaceae FI A M Rytaceae FI A A M Rytaceae </td <td>6095 4.501 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A MS/5+label (Sc#6095) RUSSIA 7923a 277 Chrysanthemums, Chrysanthemum sp. Cherry blossoms, Pranus serrulata Asteraceae FI B Rosaceae 7923b 277 Chrysanthemums, Chrysanthemum sp. Cherry blossoms, Pranus serrulata Asteraceae FI B Rosaceae 8325 Papaveraceae FI B Rhododendrons, Rhododendron sp. Efficaceae FI B Efficaceae 8379-80 \$3.25 Poppies, Papaver rhoeas Papaveraceae FI C SS 8379-80 \$3.51 Poppies, Papaver rhoeas Papaveraceae FI C MS 84126a 7.5c Starfruit on tree, Averrhoa carambola Oxalidaceae Fr A A 4126a 7.5c Starfruit, Averrhoa carambola Oxalidaceae Fr A A 4126d \$3.75 Sliced Apple Guava, Psidium guajava Myrtaceae Fr A 4126d \$3.75 Sliced Apple Guava, Psidium guajava Myrtaceae Fr A 4127b \$4.75 Jackfruit on tree, Artocarpus heterophyllus Moraceae Fr A 4127c \$4.75</td> <td></td> <td></td> <td>Asteraceae Fl A</td> | 6095 4.501 Stephan Luchian ptg: "Cornflowers," Centaurea cyanus Asteraceae FI A MS/5+label (Sc#6095) RUSSIA 7923a 277 Chrysanthemums, Chrysanthemum sp. Cherry blossoms, Pranus serrulata Asteraceae FI B Rosaceae 7923b 277 Chrysanthemums, Chrysanthemum sp. Cherry blossoms, Pranus serrulata Asteraceae FI B Rosaceae 8325 Papaveraceae FI B Rhododendrons, Rhododendron sp. Efficaceae FI B Efficaceae 8379-80 \$3.25 Poppies, Papaver rhoeas Papaveraceae FI C SS 8379-80 \$3.51 Poppies, Papaver rhoeas Papaveraceae FI C MS 84126a 7.5c Starfruit on tree, Averrhoa carambola Oxalidaceae Fr A A 4126a 7.5c Starfruit, Averrhoa carambola Oxalidaceae Fr A A 4126d \$3.75 Sliced Apple Guava, Psidium guajava Myrtaceae Fr A 4126d \$3.75 Sliced Apple Guava, Psidium guajava Myrtaceae Fr A 4127b \$4.75 Jackfruit on tree, Artocarpus heterophyllus Moraceae Fr A 4127c \$4.75 | | | Asteraceae Fl A | | |
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| 4126c\$2.75Apple Guavas on tree, Psidium guajavaMyrtaceaeFr T A4126d\$3.75Sliced Apple Guava, Psidium guajavaMyrtaceaeFr A4126e\$4.75Jackfruit on tree, Artocarpus heterophyllusMoraceaeFr T A4126f\$5.75Sliced Jackfruit. Artocarpus heterophyllusMoraceaeFr A4127a\$2Gooseberries on bush, Ribes uva-crispaGrossulariaceaeFr T A4127b\$4Custard Apples on tree, Annona reticulataAnnonaceaeFr T A4127c\$6Purple Star Apple on tree, Chrysophyllum cainitoSapotaceaeFr A4127d\$8Sliced Gooseberries, Ribes uva-crispaGrossulariaceaeFr A4127e\$10Sliced Custard Apple, Annona reticulataAnnonaceaeFr A4127f\$12Sliced Purple Star Apple, Chrysophyllum cainitoSapotaceaeFr ASIERRA LEONE2017 March 30 (Orchids) (MS/4 & SS/1)4182a9800leRed Disa, Disa unifloraOrchidaceaeFl A MS4182b9800leCymbidium hybridOrchidaceaeFl A MS4182c9800leHardy Chinese Orchid, Pleione limprichtiiOrchidaceaeFl A MS4201SS 40000leNorthern Queen of Sheba, Thelymitra pulcherrimaOrchidaceaeFl A SSMarginUL: Thelymitra jonesiiOrchidaceaeFl Z SSCtr: Myrmecophila (=Schomburgkia) tibicinisOrchidaceaeFl Z SSLR: Myrmecophila brysianaOrchidaceaeFl Z SSCtr: Myrmecophila brysianaOrchida | 4126c \$2.75 Apple Guavas on tree, Psidium guajava Myrtaceae Fr T A 4126d \$3.75 Sliced Apple Guava, Psidium guajava Myrtaceae Fr A 4126e \$4.75 Jackfruit on tree, Artocarpus heterophyllus Moraceae Fr T A 4126f \$5.75 Sliced Jackfruit. Artocarpus heterophyllus Moraceae Fr T A 4127a \$2 Gooseberries on bush, Ribes uva-crispa Grossulariaceae Fr T A 4127b \$4 Custard Apples on tree, Annona reticulata Annonaceae Fr T A 4127c \$6 Purple Star Apple on tree, Chrysophyllum cainito Sapotaceae Fr T A 4127d \$8 Sliced Gooseberries, Ribes uva-crispa Grossulariaceae Fr A 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127e \$10 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 4127e \$10 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 41282 98001e Red Disa, Disa uniflora Orchidaceae Fl A MS 4182b 98001e Cymbidium hybrid Orchidaceae Fl A MS 4182c 98001e Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 98001e Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 98001e Morthern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A MS 4201 SS 400001e Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A SS 4358a 98001e Cattleya bicalhoi (=Laelia dayana) Orchidaceae Fl Z SS 4358b 98001e Cattleya bicalhoi (=Laelia dayana) Orchidaceae Fl A MS 4358b 98001e Bulbophyllum pteroglossum (=monanthum) Orchidaceae Fl A MS 4358d 98001e Bulbophyllum pteroglossum (=monanthum) Orchidaceae Fl A SS Margin UR: Bulbophyllum pteroglossum (=monanthum) Orchidaceae Fl Z SS | | | Oxalidaceae Fr A | | |
| 4126e \$4.75 Jackfruit on tree, Artocarpus heterophyllus Moraceae Fr T A 4126f \$5.75 Sliced Jackfruit. Artocarpus heterophyllus Moraceae Fr A 4127a \$2 Gooseberries on bush, Ribes uva-crispa Grossulariaceae Fr T A 4127b \$4 Custard Apples on tree, Annona reticulata Annonaceae Fr T A 4127c \$6 Purple Star Apple on tree, Chrysophyllum cainito Sapotaceae Fr T A 4127d \$8 Sliced Gooseberries, Ribes uva-crispa Grossulariaceae Fr A 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 4182a 9800le Red Disa, Disa uniflora Orchidaceae Fl A MS 4182b 9800le Cymbidium hybrid Orchidaceae Fl A MS 4182c 9800le Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 9800le Vandopsis lissochiloides 4182d 9800le Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A MS 4182d Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A SS 4201 SS 40000le Ut. Thelymitra jonesii Orchidaceae Fl Z SS 4358a 9800le Cattleya bicalhoi (=Laelia dayana) Orchidaceae Fl A MS | 4126e \$4.75 | 4126c \$2.75 Apple 6 | Guavas on tree, <i>Psidium guajava</i> | Myrtaceae Fr T A | | |
| 4126e \$4.75 Jackfruit on tree, Artocarpus heterophyllus Moraceae Fr T A 4126f \$5.75 Sliced Jackfruit. Artocarpus heterophyllus Moraceae Fr A 4127a \$2 Gooseberries on bush, Ribes uva-crispa Grossulariaceae Fr T A 4127b \$4 Custard Apples on tree, Annona reticulata Annonaceae Fr T A 4127c \$6 Purple Star Apple on tree, Chrysophyllum cainito Sapotaceae Fr T A 4127d \$8 Sliced Gooseberries, Ribes uva-crispa Grossulariaceae Fr A 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 4182a 9800le Red Disa, Disa uniflora Orchidaceae Fl A MS 4182b 9800le Cymbidium hybrid Orchidaceae Fl A MS 4182c 9800le Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 9800le Vandopsis lissochiloides 4201 SS 40000le Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A SS Margin Ut.: Thelymitra jonesii Orchidaceae Fl Z SS Ctr: Myrmecophila (=Schomburgkia) tibicinis Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS 2017 August 30 (Orchids) (MS/4 & SS/1) | 4126e \$4.75 Sliced Jackfruit on tree, Artocarpus heterophyllus Moraceae Fr A 4127a \$2 Gooseberries on bush, Ribes uva-crispa Grossulariaceae Fr T A 4127b \$4 Custard Apples on tree, Annona reticulata Annonaceae Fr T A 4127c \$6 Purple Star Apple on tree, Chrysophyllum cainito Sapotaceae Fr T A 4127d \$8 Sliced Gooseberries, Ribes uva-crispa Grossulariaceae Fr T A 4127d \$8 Sliced Gooseberries, Ribes uva-crispa Grossulariaceae Fr A 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 4128a 9800le Al82a 9800le Al82b 9800le Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182b 9800le Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 9800le Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A MS 4201 SS 40000le Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A SS LR: Myrmecophila (=Schomburgkia) tibicinis Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl A MS 4358b 9800le Angraecum leonis Angraecum leonis Orchidaceae Fl A MS 4358d 9800le Epidendrum hybrid Orchidaceae Fl A MS 4358d 9800le Epidendrum hybrid Orchidaceae Fl A MS 4358d 9800le Bulbophyllum rothschildianum Orchidaceae Fl A SS Margin UR: Bulbophyllum rothschildianum | | 9 0 | - | | |
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| 4127b \$4 Custard Apples on tree, Annona reticulata 4127c \$6 Purple Star Apple on tree, Chrysophyllum cainito 5 Sapotaceae Fr T A 4127d \$8 Sliced Gooseberries, Ribes uva-crispa Grossulariaceae Fr A 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 4128a 9800le Red Disa, Disa uniflora Orchidaceae Fl A MS 4182b 9800le Cymbidium hybrid Orchidaceae Fl A MS 4182c 9800le Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 9800le Vandopsis lissochiloides Vandopsis lissochiloides Vandopsis lissochiloides UL: Thelymitra jonesii Ctr: Myrmecophila (=Schomburgkia) tibicinis Ctr: Myrmecophila brysiana Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS Orchidaceae Fl Z SS Cric Myrmecophila brysiana Orchidaceae Fl Z SS Tr Cattleya bicalhoi (=Laelia dayana) Orchidaceae Fl A MS | 4127b \$4 Custard Apples on tree, Annona reticulata Annonaceae Fr T A 4127c \$6 Purple Star Apple on tree, Chrysophyllum cainito Sapotaceae Fr T A 4127d \$8 Sliced Gooseberries, Ribes uva-crispa Grossulariaceae Fr A 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum perioliti Sliced Purple Star Apple, Chrysophyllum Cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum Star Apple, Chrysophyllum Star Apple, Chrysophyllum Star Apple, Chrysophyllum Cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum Cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 512 Sliced Purple Star Apple, Chrysoph | 4126f \$5.75 Sliced. | Jackfruit. Artocarpus heterophyllus | Moraceae Fr A | | |
| 4127c \$6 Purple Star Apple on tree, Chrysophyllum cainito \$8 Sliced Gooseberries, Ribes uva-crispa Grossulariaceae Fr A 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 5127f SIERRA LEONE 2017 March 30 (Orchids) (MS/4 & SS/1) 4182a 9800le Red Disa, Disa uniflora Orchidaceae Fl A MS 4182b 9800le Cymbidium hybrid Orchidaceae Fl A MS 4182c 9800le Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 9800le Vandopsis lissochiloides Orchidaceae Fl A MS 4182d 9800le Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A MS 4201 SS 40000le Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A SS Margin UL: Thelymitra jonesii Orchidaceae Fl Z SS Ctr: Myrmecophila (=Schomburgkia) tibicinis Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS SS 9800le Cattleya bicalhoi (=Laelia dayana) Orchidaceae Fl A MS | 4127c \$6 Purple Star Apple on tree, Chrysophyllum cainito \$127d \$8 Sliced Gooseberries, Ribes uva-crispa Grossulariaceae Fr A | 4127a \$2 Gooseb | perries on bush, <i>Ribes uva-crispa</i> | Grossulariaceae Fr T A | | |
| 4127d \$8 Sliced Gooseberries, Ribes uva-crispa Grossulariaceae Fr A 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A SIERRA LEONE 2017 March 30 (Orchids) (MS/4 & SS/1) 4182a 9800le Red Disa, Disa uniflora Orchidaceae Fl A MS 4182b 9800le Cymbidium hybrid Orchidaceae Fl A MS 4182c 9800le Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 9800le Vandopsis lissochiloides Orchidaceae Fl A MS 4201 SS 40000le Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A SS Margin UL: Thelymitra jonesii Orchidaceae Fl Z SS Ctr: Myrmecophila (=Schomburgkia) tibicinis Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS 4358a 9800le Cattleya bicalhoi (=Laelia dayana) Orchidaceae Fl A MS | 4127d \$8 Sliced Gooseberries, Ribes uva-crispa 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A SIERRA LEONE 2017 March 30 (Orchids) (MS/4 & SS/1) 4182a 9800le Red Disa, Disa uniflora Orchidaceae Fl A MS 4182b 9800le Cymbidium hybrid Orchidaceae Fl A MS 4182c 9800le Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 9800le Vandopsis lissochiloides Orchidaceae Fl A MS 4201 SS 40000le Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A SS Margin UL: Thelymitra jonesii Orchidaceae Fl Z SS Ctr: Myrmecophila (=Schomburgkia) tibicinis Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl A MS 4358a 9800le Cattleya bicalhoi (=Laelia dayana) Orchidaceae Fl A MS 4358b 9800le Angraecum leonis Orchidaceae Fl A MS 4358c 9800le Bifrenaria inodora Orchidaceae Fl A MS 4358d 9800le Epidendrum hybrid 4378 SS 40000le Bulbophyllum pteroglossum (=monanthum) Orchidaceae Fl A SS Margin UR: Bulbophyllum rothschildianum Orchidaceae Fl Z SS | 4127b \$4 Custard | d Apples on tree, Annona reticulata | Annonaceae Fr T A | | |
| 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A SIERRA LEONE 2017 March 30 (Orchids) (MS/4 & SS/1) 4182a 9800le Red Disa, Disa uniflora Orchidaceae Fl A MS 4182b 9800le Cymbidium hybrid Orchidaceae Fl A MS 4182c 9800le Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 9800le Vandopsis lissochiloides Orchidaceae Fl A MS 4182d 9800le Vandopsis lissochiloides 4201 SS 40000le Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A SS Margin UL: Thelymitra jonesii Orchidaceae Fl Z SS Ctr: Myrmecophila (=Schomburgkia) tibicinis Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS 2017 August 30 (Orchids) (MS/4 & SS/1) 4358a 9800le Cattleya bicalhoi (=Laelia dayana) Orchidaceae Fl A MS | 4127e \$10 Sliced Custard Apple, Annona reticulata Annonaceae Fr A 4127f \$12 Sliced Purple Star Apple, Chrysophyllum cainito Sapotaceae Fr A SIERRA LEONE 4182a 9800le Red Disa, Disa uniflora Orchidaceae Fl A MS 4182b 9800le Cymbidium hybrid Orchidaceae Fl A MS 4182c 9800le Hardy Chinese Orchid, Pleione limprichtii Orchidaceae Fl A MS 4182d 9800le Vandopsis lissochiloides Orchidaceae Fl A MS 4201 SS 40000le Northern Queen of Sheba, Thelymitra pulcherrima Orchidaceae Fl A SS Margin UL: Thelymitra jonesii Orchidaceae Fl Z SS LR: Myrmecophila (=Schomburgkia) tibicinis Orchidaceae Fl Z SS LR: Myrmecophila brysiana Orchidaceae Fl Z SS 4358a 9800le Cattleya bicalhoi (=Laelia dayana) Orchidaceae Fl A MS 4358b 9800le Angraecum leonis 4358c 9800le Bifrenaria inodora Orchidaceae Fl A MS 4358d 9800le Epidendrum hybrid 4378 SS 40000le Bulbophyllum pteroglossum (=monanthum) Orchidaceae Fl Z SS Margin UR: Bulbophyllum rothschildianum | 4127c \$6 Purple | Star Apple on tree, Chrysophyllum cainito | Sapotaceae Fr T A | | |
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| • | Margin UR: Bulbophyllum rothschildianum Orchidaceae Fl Z SS | 1 | · · · · · · · · · · · · · · · · · · · | | | |
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| · | LL: Dracula chestertonii Orchidaceae Fl Z SS | LL: Dr | racula chestertonii | Orchidaceae Fl Z SS | | |

| SIERI | RA LEONE | (continued) 2017 September 29 (Orchids) (MS/4 & SS | /1) | |
|-------------------------------------|------------|--|-----------------|---------------|
| 4476a | | Trichopilia (=Helcia) brevis | Orchidaceae | Fl A MS |
| 4476b | | Sweet Scented Lycaste, Lycaste aromatica | Orchidaceae | Fl A MS |
| 4476c | 9800le | Downy Rattlesnake Plantain, Goodyera pubescens | Orchidaceae | Fl A MS |
| 4476d | 9800le | Bartholina burmanniana | Orchidaceae | Fl A MS |
| | Margin | LR: Large Duck Orchid, Caleana major | Orchidaceae | Fl Z MS |
| 4496 | SS 40000le | Red-lipped Cymbidiella, Cymbidiella pardalina (=rhodochila) | Orchidaceae | Fl A SS |
| | Margin | LL: Cattleya hybrid | Orchidaceae | Fl Z SS |
| | | Bot: Dendrobium amplum (Cap: Epigeneium amplum) | Orchidaceae | Fl Z SS |
| | | LR: Miltoniopsis santanaei | Orchidaceae | Fl Z SS |
| SING | APORE | 2018 June 22 (125th anniv. Vanda Miss Jo | aquim Orchid) (| Set/4 & SS/1) |
| 1894 | (30c) | Vanda Miss Joaquim Orchid, Papilionanthe 'Miss Joaquim' | Orchidaceae | Fl A |
| 1895 | 70c | Same species | Orchidaceae | Fl A |
| 1896 | 90c | Same species | Orchidaceae | Fl A |
| 1897 | \$1.30 | Same species | Orchidaceae | Fl A |
| 1898 | SS \$5 | Vanda Miss Joaquim Orchid, <i>Papilionanthe</i> 'Miss Joaquim' | Orchidaceae | Fl A SS |
| | AKIA | 2018 June 1 (Peonies) (Single) | | |
| 795 | (50c) | Peonies, Paeonia officinalis | Paeoniaceae | Fl A |
| SWIT | ZERLAND | 2018 September 6 (Greetings Stamps) (Blo | ock/4) | |
| 1695 | 85c | Four-leaf Clover, Trifolium pratense (w/ flowers) | Fabaceae | Fl V A |
| 1698 | 100c | Fern in envelope | | V B U |
| 1698a | | Block/4 (Sc#1695–98) | | |
| TURE | EY | 2018 March 21 (Flora) (Set/7) | | |
| 3591 | 21 | Fritillary (Crown Imperial), Fritillaria imperialis | Liliaceae | Fl A |
| 3592 | 21 | Olive, Olea europaea | Oleaceae | Fr A |
| 3593 | 21 | Tulip, <i>Tulipa</i> sp. | Liliaceae | Fl A |
| 3594 | 21 | Yanardöner, Cyanus (=Centaurea) tchihatcheffii | Asteraceae | Fl A |
| 3595 | 21 | Pontic Rhododendron, Rhododendron ponticum | Ericaceae | Fl A |
| 3596 | 21 | Antalya Crocus, Crocus antalyensis | Iridaceae | Fl A |
| 3597 | 21 | Cornflower, Centaurea cyanus | Asteraceae | Fl A |
| | | 2018 April 18 (Spices) (Set/4) | | |
| 3600 | | Mint, Mentha spicata | Lamiaceae | V A |
| 3601 | | Black pepper, Piper nigrum | Piperaceae | Fr A |
| 3602 | | Chili pepper, Capsicum annuum | Solanaceae | Fr A |
| 3603 | 6.501 | Cumin, Cuminum cyminum | Apiaceae | Fr A |
| TUVA | | 2018 May 30 (Colorful Fruits) (MS/3 & SS | * | |
| 1415a | | Papaya, Carica papaya (Cap: Pomegranate) | Caricaceae | Fr A MS |
| 1415b | | Coconut, Cocos nucifera | Arecaceae | Fr A MS |
| 1415c | \$3 | Cavendish Banana, $Musa \times paradisiaca$ | Musaceae | Fr A MS |
| 1415 | Margin | Oranges, Citrus sinensis | Rutaceae | Fr Z MS |
| 1416a | SS \$3.50 | Pomegranate, <i>Punica granatum</i> (also on margin) | Punicaceae | Fr A Z SS |
| 1416b | SS \$4 | Pink Grapefruit, Citrus paradisi (also on margin) | Rutaceae | Fr A Z SS |
| 2018 May 30 (Orchids) (MS/4 & SS/2) | | | | |
| 1421a | \$1 | Encyclia cordigera | Orchidaceae | Fl A MS |
| 1421b | | Trichocentrum cavendishianum | Orchidaceae | Fl A MS |
| 1421c | \$3 | Large-flowered Sobralia, Sobralia macrantha | Orchidaceae | FI A MS |
| 1421d | | Oncidium candelabrum (=Otoglossum coronarium) | Orchidaceae | FI A MS |
| 1422a | SS \$3 | Guarianthe aurantica | Orchidaceae | FI A SS |
| 1422b | SS \$4 | Guarianthe skinneri | Orchidaceae | Fl A SS |

| URUGUAY | | 2018 January 23 (30th anniv. Diplomatic Relations w/ China) (SS/2) | | |
|---------|-----|---|--------------|-----------|
| 2617a | 20p | Pink Ipê, Handroanthus impetiginosus (also on margin) | Bignoniaceae | Fl B Z SS |
| 2617b | 65p | Bamboo, <i>Bambusa vulgaris</i> (also on margin) | Poaceae | V B Z SS |

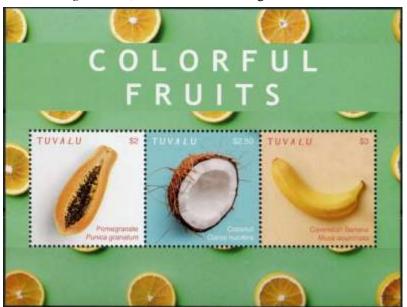
TUVALU MISIDENTIFIES FRUIT

Sc#1415a from Tuvalu was issued on 30 May 2018, on a miniature sheet of three titled, "Colorful Fruits." The inscription on the \$2.00 stamp reads "Pomegranate/Punica granatum," but it is not a Pomegranate.

It is in fact a Papaya, *Carica papaya*, cut open to reveal all the seeds inside. The other images on the sheet are captioned correctly. On the \$2.50 stamp is a cracked open Coconut, *Cocos nucifera*, and on the \$3.00 stamp, a Cavendish Banana, *Musa acuminata*.

A souvenir sheet containing a \$3.50 stamp and a \$4.00 stamp was issued also as part of this set. The \$3.50 stamp actually shows a Pomegranate and the \$4.00 stamp shows a sliced Pink Grapefruit, *Citrus paradisi*. The background of this sheet also shows images of these two fruits.

One wonders if they intended to show a pomegranate and chose a picture of the wrong fruit, or if the designer was just careless with the caption.



ANIMALS, DOGS & CATS, HORSES, INSECTS, BUGS, BUTTERFLIES, MALARIA, FLOWERS & PLANTS, ORCHIDS, MUSHROOMS, MARINE LIFE, FISH, TURTLES, REPTILES, SHELLS, WHALES & SEALS, BIRDS, MINERALS, MIXED BIOLOGY TOPICS

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NEW PLANTS IN THE PHILATELIC HERBARIUM

Christopher E. Dahle, BU1269

Ixiolirion tartaricum, IXIOLIRIACEAE

Common name: Siberian Lily

Synonyms: 18

Bulbous herb to 45 cm. Flower color ranges from light blue to dark violet. Blooms late spring to summer. Grow on rocky hillsides to elevations of 2675 m. Native to central and southwest Asia from the Sinai Peninsula to Xinjiang Province of China.

Armenia Sc#1132. Issued 29 December 2017, Set/2, Flora and Fauna. Printed by Cartor Security Printing.



Orbea knobelli, APOCYNACEAE

Common name: Starfish Plant, Carrion Flower

Synonyms: Stapelia variegata, S. variegata var. brevicornis, Stisseria variegata

Leafless, glabrous, clump-forming, succulent perennial. The four-angled stems are usually prominently sharp-toothed, with a soft tip, grey green mottled purple growing in full sun. Each stem can reach over 25 cm. Starfish-like flower, up to 7.5 cm. Drought resistant plant found amongst shrubs in deep Kalahari sands or on calcrete around the Makgadikgadi pans of Botswana.



Botswana Sc#1037. Issued 5 December 2017. Christmas issue, Flowers of the Desert, Set/4. Designed by Ann Gollifer and graphically designed by Irfan Kokabi. Printed in four colors on 103 gsm, Tullis Russell high reading yellow/green phosphor gummed stamp paper.

Calanthe puberula, ORCHIDACEAE

Common name: Hairy Calanthe

Synonyms: 12

Cool-to-cold growing terrestrial with narrowly cylindric pseudobulbs carrying 4 to 5, basal, green, leaves. Blooms in late spring and summer bearing one or two 23–40 cm long, 4–10-flowered inflorescences. Range: Himalayas to temperate East Asia in moist evergreen broad leaved forests at elevations of 1200 to 3000 m.

China (Taiwan) Sc#4395. Wild Orchids of Taiwan definitive issued 26 January 2018. Designer Chi-jen Lai. Printed by La Poste (France) by offset on phosphorescent stamp paper, or self-adhesive stamp paper in quantity of 60 million.



Neottia meifongensis, ORCHIDACEAE

Synonyms: Listera meifongensis

Plants 12–25 cm tall, with short rhizomes. Leaves sessile, broadly ovate. The labellum is yellowish-green and semi-transparent. The flowers measure 1.2 to 1.8 cm across. It flowers in summer. Endemic to forests of *Abies kawakamii* and *Tsuga chinensis* var. *formosana*, 2,700–3,000 m, in central Taiwan.

China (Taiwan) Sc#4398. Issued 27 February 2018 for definitive issue Wild Orchids of Taiwan. Designed by Chi-jen Lai. Printed by China Color Printing Co. Ltd. on phosphorescent stamp paper in quantities of 1.2 million.



Dendrobium chryseum, ORCHIDACEAE Common name: Yellow Flowered Dendrobium

Synonyms: 10

Large, epiphytic or lithophytic orchid has golden, or almost orange flowers that are 4–7 cm. It flowers from spring until midsummer. Common at 1,000–2,150 m altitudes. Found throughout the western Himalayas, eastern Himalayas, Assam, Bangladesh, Bhutan, Nepal, Myanmar, Thailand, Laos, southern China, Vietnam, and Taiwan.



China, Taiwan. Sc#4399. Issued 27 February 2018, for definitive issue Wild Orchids of Taiwan. Designed by Chijen Lai. Printed by China Color Printing Co. Ltd. on phosphorescent stamp paper in quantities of 6 million.

Bulbophyllum pectinatum, ORCHIDACEAE

Common name: Comb-like Bulbophyllum

Synonyms: Bulbophyllum pectinatum var. pectinatum, B. pectinatum var. transarisanense, B. spectabile, B. transarisanense, B. transarisanense f. alboviride, B. viridiflorum

Small 5 cm plant has 1.5 cm olive shaped pseudobulbs, each with a single oval leaf. Compact growth habit. Inflorescence holds the single flower above the foliage. Large light green flower is spotted and striped with chocolate, 5 cm. Blooms late



spring to summer. Range: Southern China, Assam, Myanmar, Vietnam, and Taiwan, where it is found in forests at 1,000–2,000 m throughout the island.

China, Taiwan. Scott #4400. Issued 26 January 2018 for definitive issue Wild Orchids of Taiwan. Designed by Chijen Lai. Printed by La Poste (France) on phosphorescent stamp paper or self-adhesive stamp paper in quantities of 100 million.

Drynaria propingua, POLYPODIACEAE

Common name: Basket Fern

Synonyms:

Basket ferns are characterized by the presence of two types of fronds, fertile foliage fronds and sterile nest fronds. Dark green foliage fronds are large, 0.61–1.22 m long, with elongated stalks. They are deeply lobed or pinnate, winged, and bear sori on the bottom surfaces. Epiphytic or epipetric. Native to Nepal, Bhutan, India, Southeast Asia, and China. Found on mossy tree trunks in dense evergreen forests at 1,200–1,700 m, locally abundant.



Nepal Sc#1059. Issued in a Set/6 in 2017.

Nephrolepis cordifolia, NEPHROLEPIDACEAE

Common names: Fishbone Fern, Tuberous Sword Fern, Tuber Ladder Fern, Erect Sword Fern, Narrow Sword Fern, Ladder Fern, and Herringbone Fern

Synonyms: Aspidium cordifolium, A. tuberosum, Nephrodium tuberosum, Nephrolepis cordifolia var. tuberosa, Nephrolepis exaltata var. tuberosa, Polypodium cordifolium

Tuberous herbaceous plant, epiphytic, epilithic, or terrestrial, with fronds once pinnate, to 1 m long and 7 cm wide. In its native Australia, it occurs in rainforest or open forest in eastern Queensland and northeastern New South Wales. Grown as an ornamental.

Nepal Sc#1060. Issued in 2017.



Harrisia bonplandii, CACTACEAE

Common name: Applecactus, Midnight Lady, Queen of the Night, Tuna

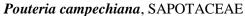
Synonyms: Cereus bonplandii, C. guelichii, C. pomanensis var. grossei, Eriocereus

bonplandii, E. guelichii, Harrisia guelichii, H. pomanensis ssp. bonplandii

Stems: Slender and weak, some erect or clambering and reaching 1–1.5 m, the others procumbent, arching, or trailing on the ground up to 2.5–3 m long, and 3–8 cm in diameter, strongly 3- to 4-angled. Flowers: White, nocturnal, funnelform, 15–22 cm

long, closing soon after sunrise. Fruit: Edible, globular, and strongly tuberculate, 4–6 cm in diameter, red. Grows in the Gran Chaco (Paraguay, north of Argentina, Bolivia, and southwest of Brazil). Present in the understory at edges of dry forests, or associated with tropical plants.

Paraguay Sc#3058b. Issued 28 March 2017 in Set/6 featuring "Cactus and Wild Butterflies of Paraguay." Printed by *Talleres de Valores Fiscales del Ministro de Hacienda*, Asunción.



Common name: Egg Fruit, Canisteel

Synonyms: 32

Evergreen tree to 10 m with spreading crown. Leaves are thin and glossy 11–28 cm long and 4–7 cm wide. Fragrant flowers are bisexual, solitary, or in clusters January to June. Fruit is yellow, ovate or spindle-shaped maturing September to January. Native to southern Mexico and Central America. Cultivated for fruit.

Philippines Sc#3651. Popular Fruits of the Philippines definitives issued 14 March 2017. Designed by Rodine C. Teodoro. Printed by Litho Offset, Amstar Printing Company, Inc. Quantity 300,000 in sheets of 100.



Rubus rosifolius, ROSACEAE

Common names: Roseleaf Bramble, Mauritius Raspberry, Thimbleberry, Philippine

Wild Raspberry Synonyms: 14

Shrub with trailing glandular-hairy stems to 2 m long. Leaves pinnate with 5 or 7 leaflets. Flowers in short panicles or solitary in upper axils. Petals white, as long as, or shorter than the sepals. Fruit ovoid, about 20 mm long, red, edible with a distinct bitter-sour-sweet taste and a hairy receptacle. Native to rainforest and tall open forest of the Himalayas, East Asia, and eastern Australia.

Philippines Sc#3652. Popular Fruits of the Philippines definitives issued 14 March 2017. Quantity 500,000 in sheets of 100.



Rollinia mucosa. ANNONACEAE

Common name: Wild Sweet Sop, Wild Sugar Apple, Biriba

Synonyms: Rollinia deliciosa and 21 others

Tree 4–15 m with deciduous oblong-ovate leaves 10–25 cm long. Cultivated for its edible fruits. The fruit is large, conical, green when unripe, ripening to yellow. Its surface is covered with soft spines which bruise and blacken when handling. The fruit pulp is very soft and sweet, tasting somewhat like a lemon meringue pie. Native to the Brazilian-Peruvian Amazon at elevations 150–600 m.

Philippines Sc#3714. Popular Fruits of the Philippines definitives issued 14 March 2017. Quantity 3,300,000 in sheets of 100.



Begonia gutierrezii, BEGONIACEAE

New species described in 2010. Endemic to southern Palawan at quite low altitudes. This species occurs within the Lipuun Point Reservation, but is currently only known from two collections. Instantly distinct as the only species known from the island with peltate leaves. Native range is Philippines.

Philippines Sc#3741b. Issued 16 October 2017, for Endemic Flowers of the Philippines. Designer: Ma. Aimee Cabingao. Final Artist: Victorino Z. Serevo. Printed in se-tenant blocks of four in Litho Offset by Amstar Printing Company, Inc. Quezon City with quantity of 25,600.



Opuntia aciculata, CACTACEAE

Common name: Chenille Pricklypear

Synonyms: O. engelmannii ssp. aciculata, O. engelmannii var. aciculata, O. engelmannii var. flexospina, O. flexospina, O. lendheimeri var. aciculata, O. strigii var. flexospina

Shrub to 1.2 m. Green flattened succulent stems. Areoles on the circular or oval pads have prominent clusters of loosely attached brown glochids, on the pad surface and especially along the edges. Spines are mostly absent. Flowers orange or deep red to 30 mm. Fruit purplish red, ovoid, 30×17 mm. Found on dry hills mainly on stony outcrops, often in small colonies usually to the exclusion of other plants. Widespread in southern North America, to the Isthmus of Panama.



Romania Sc#5996. Issued 15 September 2017, in Set/4. Designed by Alec Bartos. Printed in offset using four colors by Fabrica de Timbre, Bucharest

Coryphantha sulcata, CACTACEAE

Common name: Pineapple Cactus

Synonyms: C. calcarata, C. radians var. sulcata, C. roederiana, C. speciosa, C. sulcata var. sulcata, Mammillaria radians var. sulcata, M. sulcata

Plants unbranched to freely branched and forming clumps $30{\text -}50$ cm in diameter. Relatively smooth except for protruding abaxial central spine. Stems spheric or obovoid, $4{\text -}8 \times 6{\text -}8$ cm. Flowers yellow apical $40{\text -}60 \times 35{\text -}55$ mm in late spring to summer. Occurs in sandy or gravelly soil in valleys, grasslands, and thickets. Found in Mexican states of Coahuila, Nuevo León, and Tamaulipas and in United States in Texas, at elevations below 150 m.



Romania Sc#5997. Issued 15 September 2017, in Set/4.

Echinocactus horizonthalonius, CACTACEAE

Common names: Devilshead, Blue Barrel Cactus

Synonyms: 15

Pale, grey-green to bright glaucous grey-blue, flat-topped or hemispheric, and deep-seated in substrate. Spherical with age or stoutly short cylindrical. Stem slowly growing up to 30 cm tall, 15–20 cm in diameter. Flowers: Pinkish-red, 5–7 cm in diameter, appear end of March to late May. Fruit: Red or pink, oblong, fleshy or semi-dry, and ephemeral. Grows in semi-desert, in xerophilous scrub, on several types of substrates. Occurs on limestone soils of rocky hills in the desert. Native to the southwestern United States and northern Mexico, where it occurs in Chihuahuan Desert and Sonoran Desert habitats.



Romania Sc#5998. Issued 15 September 2017, in Set/4.

ST. VINCENT & THE GRENADINES

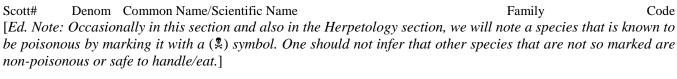


FUNGI

Editor

Dr. Paul A. Mistretta, BU1681

New Listings



| GERM | | 2018 August 9 (Mushrooms) (Set/3) | | | |
|--|--|--|-----------------------------|----------|--|
| B1144 | | Chanterelle, Cantharellus cibarius | Cantharellaceae | Α | |
| B1145 | | U/I Porcini, <i>Boletus</i> sp. | Boletaceae | U A | |
| B1146 | 145c+55c | Bay Bolete, Imleria badia | Boletaceae | A | |
| MALD | MALDIVE ISLANDS 2016 May 23 (Owls & Mushrooms) (MS/4 & SS/1) | | | | |
| 3609a | | Field Mushroom (Meadow Mushroom), Agaricus campestris | Agaricaceae | В | |
| 3609b | | Common Morel (Morel, True Morel), Morchella esculenta | Morchellaceae | В | |
| 3609c | | Gypsy Mushroom; Cortinarius caperatus | Cortinariaceae | В | |
| 3609d | | Honey Fungus (Honey Mushroom), Armillaria mellea | Physalacriaceae | В | |
| 3618 | | False Chanterelle, <i>Hygrophorus aurantiaca</i> | Hygrophoropsidaceae | В | |
| | Margin | LL: Candlestick Fungus, <i>Xylaria hypoxylon</i> | Xylariaceae | Z | |
| | | Bot: Armillaria ostoyae (Cap: Armillaria solidipes) | Physalacriaceae | Z | |
| ROMA | NIA | 2017 October 6 (Mushrooms) (Set/4, 4ea M | IS/5+label, SS/4) | | |
| 6005 | 2.501 | Fly Agaric (Fly Amanita), Amanita muscaria (\$) | Amanitaceae | A | |
| 6005a | | MS/5+label (Sc#6005) | | | |
| 6006 | 4.451 | Blusher, Amanita rubescens | Amanitaceae | A | |
| 6006a | | MS/5+label (Sc#6006) | | | |
| 6007 | 81 | Red-capped Scaber Stalk, Leccinum aurantiacum | Boletaceae | A | |
| 6007a | | MS/5+label (Sc#6007) | | | |
| 6008 | 151 | Parasol Mushroom, Macrolepiota procera | Agaricaceae | A | |
| 6008a | | MS/5+label (Sc#6008) | | | |
| Note | | SS/4 (Sc#6005–08) (unlisted—printed in limited quantities) | | | |
| SIERRA LEONE 2017 March 30 (Mushrooms) (MS/4 & SS/1) | | | | | |
| 4183a | 9800le | Scarlet Elf Cup (Scarlet Elf Cap), Sarcoscypha coccinea | Sarcoscyphaceae | A | |
| 4183b | | Dark Cap (Bronze Bolete), Boletus aereus | Boletaceae | A | |
| 4183c | 9800le | (Earth Star), Myriostoma coliforme | Geastraceae | A | |
| 4183d | 9800le | Smooth Chanterelle, Cantharellus lateritius | Cantharellaceae | A | |
| 4183 | Margin | UL: Morchella sp. | Morchellaceae | UΖ | |
| 1201 | 10 400001 | UR: Boletus sp. | Boletaceae | UΖ | |
| 4204 S | SS 40000le | Netted Rhodotus (Rosy Vein Cap), <i>Rhodotus palmatus</i> | Physalacriaceae | A | |
| | Margin | UL: Morchella sp. | Morchellaceae | UΖ | |
| | | UR: Boletus sp. | Boletaceae | U Z Z | |
| | | LL: Amethyst Deceiver, Laccaria amethystina | Hydnangiaceae Phallaceae | Z Z | |
| | | LR: Latticed Stinkhorn (Basket Stinkhorn), Clathrus ruber | | L | |
| | | 2017 June 30 (Mushrooms) (MS/4 & SS/1) | | | |
| 4359a | 9800le | Petticoat Mottlegill, Panaeolus papilionaceus | Bolbitiaceae | A | |
| | | (Syn: P. campanulatus, P. retirugis, P. sphinctrinus) | | | |

| | SIERRA LEON | E (continued) | | | |
|--|---------------|--|------------------|----|--|
| | 4359b 9800 | le Panther Cap (False Blusher), Amanita pantherina (\$\strack{\frac{1}{8}}\) | Amanitaceae | A | |
| | 4359c 9800 | le no common name, Cortinarius archeri | Cortinariaceae | A | |
| | 4359d 9800 | le no common name, Psilocybe aztecorum | Hymenogastraceae | A | |
| | 4379 SS 40000 | le Death Cap, Amanita phalloides (\$) | Amanitaceae | A | |
| | Marg | n LL: Pixie's Parasol, Mycena interrupta | Mycenaceae | Z | |
| | | R: Fly Agaric (Fly Amanita), Amanita muscaria (🖫) | Amanitaceae | Z | |
| | | 2017 September 29 (Mushrooms) (MS/4 & | SS/1) | | |
| | 4477a 9800 | le Golden Chanterelle, Cantharellus cibarius | Cantharellaceae | A | |
| | 4477b 9800 | le Black Morel, Morchella elata | Morchellaceae | A | |
| | 4477c 9800 | le Death Cap, Amanita phalloides (\$) | Amanitaceae | A | |
| | 4477d 9800 | le Bay Bolete, Imleria badia (Cap: Boletus badius) | Boletaceae | A | |
| | 4477 Marg | n LL: no common name, Gyromitra esculenta (\$) | Discinaceae | Z | |
| | | Bot: Blusher, Amanita rubescens | Amanitaceae | Z | |
| | | LR: Sickener (Emetic Russula), Russula emetica (\$) | Russulaceae | Z | |
| | 4497 SS 40000 | le Plums & Custard (Red-haired Agaric), Tricholomopsis rutilans | Tricholomataceae | A | |
| | Marg | n LL: Indigo Milkcap, Lactarius indigo | Russulaceae | Z | |
| | | Bot: Beautiful Clavaria (Pink Coral Fungus), Ramaria formosa | Gomphaceae | Z | |
| | | LR: Netted Rhodotus (Rosy Vein Cap), Rhodotus palmatus | Physalacriaceae | Z | |
| SWITZERLAND 2018 September 6 (Fairy Tale Characters) (Set/2) | | | | | |
| Both stamps were released in MS with additional stylized mushrooms shown in the margins. | | | | | |
| | 1689 10 | c Stylized mushrooms (LR) (Red Riding Hood) | | CS | |
| | 1690 10 | • | | CS | |
| Mycologist | | | | | |
| SIERRA LEONE 2017 November 30 (Inventors) (MS/4) | | | | | |
| | 4551c 9800 | | Trichocomaceae | В | |
| Lichen | | | | | |
| FRANCE 2018 January 5 (Nature Photographs) (Bklt/12) | | | | | |
| | 5363 (95 | | , | UВ | |
| | 5368a | Bklt/12 (Sc#5357–68) | | | |
| | | · | | | |

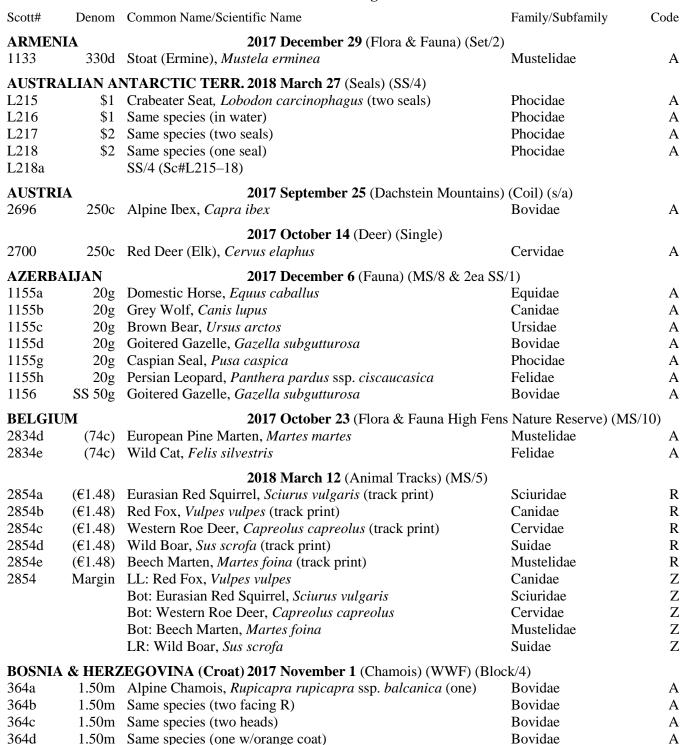


MAMMALIA

Editor

Michael Prince, LM68

New Listings



| BOSNI | A & HERZ | ZEGOVINA (Serb) 2017 November 9 (Endangered Animals) (I | MS/4) | | | |
|-------|---|--|-----------------|----|--|--|
| 584a | 90pf | Brown Bear, Ursus arctos | Ursidae | A | | |
| 584b | 90pf | Eurasian Lynx, <i>Lynx lynx</i> | Felidae | A | | |
| 584c | 1.70m | Brown Bear, Ursus arctos | Ursidae | A | | |
| 584d | 1.70m | Eurasian Lynx, <i>Lynx lynx</i> | Felidae | A | | |
| DJIBO | UTI | 2018 March 15 (Fauna) (MS/4 & SS/1) | | | | |
| 1391a | 240fr | Polar Bear, Ursus maritimus (leaping) | Ursidae | A | | |
| 1391b | | Same species (two adults) | Ursidae | A | | |
| 1391c | | Same species (two cubs) | Ursidae | A | | |
| 1391d | | Same species (swimming) | Ursidae | A | | |
| 1409 | | Polar Bear, Ursus maritimus (also in R margin) | Ursidae | ΑZ | | |
| 1392a | | Giant Panda, Ailuropoda melanoleuca (eating in forest) | Ursidae | A | | |
| 1392b | | Same species (walking) | Ursidae | A | | |
| 1392c | | Same species (rolling on back) | Ursidae | A | | |
| 1392d | | Same species (eating on hillside) | Ursidae | A | | |
| 1410 | | Giant Panda, Ailuropoda melanoleuca (also LL & LR margin) | Ursidae | AZ | | |
| 1393a | | Jungle Cat, Felis chaus | Felidae | A | | |
| 1393b | | Puma, Puma concolor | Felidae | A | | |
| 1393c | 240fr | Asiatic Golden Cat, Catopuma temminckii | Felidae | A | | |
| 1393d | 240fr | • | Felidae | A | | |
| 1411 | SS 950fr | | Felidae | AZ | | |
| 1394a | | Pygmy Sperm Whale, Kogia breviceps | Physeteridae | A | | |
| 1394b | | True's Beaked Whale, Mesoplodon mirus | Ziphiidae | A | | |
| 1394c | | North Atlantic Right Whale, Eubalaena glacialis | Balaenidae | A | | |
| 1394d | | Bryde's Whale, Balaenoptera brydei | Balaenopteridae | A | | |
| 1412 | SS 950fr | Beluga, Delphinapterus leucas | Monodontidae | A | | |
| | Margin | Bot: Narwhal, Monodon monoceros | Monodontidae | Z | | |
| | | 2018 June 12 (Dolphins) (MS/4 & SS/1) | | | | |
| 1442a | | Common Bottlenose Dolphin, <i>Tursiops truncatus</i> (facing up) | Delphinidae | A | | |
| 1442b | 240fr | 1 , | Delphinidae | A | | |
| 1442c | | Common Bottlenose Dolphin, <i>Tursiops truncatus</i> (facing L) | Delphinidae | Α | | |
| 1442d | | Orca (Killer Whale), Orcinus orca | Delphinidae | A | | |
| 1462 | | Common Bottlenose Dolphin, Tursiops truncatus | Delphinidae | A | | |
| | Margin | R: Spinner Dolphin, Stenella longirostris | Delphinidae | Z | | |
| FALKI | FALKLAND ISLANDS 2018 April 18 (Wildlife) (Set/4) | | | | | |
| 1219 | £1.01 | South American Sea Lion, Otaria flavescens | Otariidae | A | | |
| GERM | ANY | 2018 January 2 (Juvenile Animals) (Set/2) | | | | |
| 3017 | | Red Deer (Elk), <i>Cervus elaphus</i> (perf 13½×13¾) | Cervidae | A | | |
| 3018 | | Harbor Seal, <i>Phoca vitulina</i> | Phocidae | A | | |
| | - | | | | | |
| 3019 | 85c | 2018 April 12 (Juvenile Animals) (Bklt/10) Red Deer (Elk), <i>Cervus elaphus</i> (die cut 9³/4) (s/a) | Cervidae | A | | |
| GREAT | Γ BRITAIN | N 2018 April 17 (Reintroduced Species) (3ea | Horiz pair) | | | |
| 3717 | | Eurasian Beaver, Castor fiber | Castoridae | A | | |
| 3718a | | Horiz pair (Sc#3717–18) | | | | |
| MALD | MALDIVE ISLANDS 2015 August 10 (Wildlife Conservation & Rehabilitation) (MS/4 & SS/1) | | | | | |
| 3451a | | Brown Bear, <i>Ursus arctos</i> (standing looking L) | Ursidae | Á | | |
| 3451b | 20r | Same species (standing on large rock) | Ursidae | A | | |
| 3451c | 20r | Same species (standing on small rock) | Ursidae | A | | |
| 3451d | 20r | | Ursidae | A | | |
| | | | | | | |

| Margin UR: Same species (sitting on globe) Ursidae | MALDIVE ISLANDS (continued) | | | | | |
|--|-----------------------------|--------|---|-----------------|----|--|
| SS 60r Brown Bear, Ursus arctos Ursidae A | | | | Ursidae | Z | |
| LL & LR: Same species | 3461 | - | | Ursidae | A | |
| LL & IR: Same species Giant Panda, Ailuropoda melanoleuca (sitting eating bamboo) Virsidae A 3452b 20r Same species (standing) Wirsidae A 3452c 20r Same species (standing) Ursidae A 3452d Aurgin UR: Same species (sitting on globe) Ursidae A 3452 SS 60r Giant Panda, Ailuropoda melanoleuca Ursidae A 3452 Ursidae A 3452 Ursidae A 3453 Ursidae A 3454 Ursidae A 3 | | | | Ursidae | Z | |
| 3452a 20r Giant Panda, Ailuropoda melanoleuca (sitting eating bamboo) Ursidae A 3452b 20r Same species (standing) Ursidae A 3452c 20r Same species (tend eating bamboo) Ursidae A 3452 Margin Ursidae A 3451 Margin Ursidae A 3452 Same species (stiting on globe) Ursidae A 3451 Margin Urs. Same species (stiting on globe) Ursidae A 3452 Margin Urs. Same species Ursidae Z 3453b 20r Angolan Colobus, Colobus angolensis (head) Cercopithecidae A 3453b 20r Angolan Colobus, Colobus angolensis (adult & juvenile) Cercopithecidae A 3453b 20r Angolan Colobus, Colobus angolensis Cercopithecidae A 3452 Margin Margion Colobus, Colobus angolensis Cercopithecidae A 3452 Margin Wr. Sane species Cercopithecidae Z 3454 2 | | C | | Ursidae | | |
| 3452b 20r Same species (kanding) Ursidae A 3452c 20r Same species (head eating bamboo) Ursidae A 3452d Margin UR: Same species (sitting on globe) Ursidae Z 3452 Margin UR: Same species (sitting on globe) Ursidae Z 3451 Margin UR: Same species (sitting on globe) Ursidae Z 3453a 20r Angolan Colobus, Colobus angolensis (head) Cercopithecidae Z 3453a 20r Angolan Colobus, Colobus angolensis (adult & juvenile) Cercopithecidae A 3453d 20r Mantled Guereza, Colobus angolensis (adult & juvenile) Cercopithecidae A 3453d 20r Mantled Guereza, Colobus angolensis Cercopithecidae A 3453d 20r Mantled Guereza, Colobus angolensis Cercopithecidae A 453d Margin UR: Asiant Colobus, Colobus angolensis Cercopithecidae Z 4543d Agrain WR: Same species (sitting on gloebe) Cercopithecidae Z 4 | 3452a | 20r | | Ursidae | | |
| 3452c20rSame species (head eating bamboo)UrsidaeA3452WarginUR: Same species (on stump)UrsidaeZ3462SS 60rGiant Panda, Ailuropoda melanoleucaUrsidaeZ3451MarginUR: Same species (sitting on globe)UrsidaeZ3453a20rAngolan Colobus, Colobus angolensis (head)CercopithecidaeZ3453a20rAngolan Colobus, Colobus, Elicoclobus kirkiiCercopithecidaeA3453c20rAngolan Colobus, Colobus angolensis (adult & juvenile)CercopithecidaeA3453d20rAngolan Colobus, Colobus angolensis (sitting on globe)CercopithecidaeA3453d20rAngolan Colobus, Colobus angolensis (sitting on globe)CercopithecidaeA3453dSS 60rAngolan Colobus, Colobus angolensis (sitting on globe)CercopithecidaeZ3454aSS 60rAngiatic Elephant, Elephas maximus ssp. maximusElephantidaeA3454b20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454d20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA34543454MarginUR: Asiatic Elephant, Elephas maximus ssp. indicusElephantidaeA345520rAsiatic Elephant, Elephas maximus ssp. indicusElephantidaeA345520rAsiatic Elephant, Elephas maximus ssp. indicusElephantidaeA345520rFraser's Dolphin, Jamento, Lamantimas ssp. indicus <t< td=""><td>3452b</td><td></td><td></td><td>Ursidae</td><td>A</td></t<> | 3452b | | | Ursidae | A | |
| 3452d20rSame species (on stump)UrsidaeA3462SS 60rGiant Panda, Ailuropoda melanoleucaUrsidaeZ3451MarginUR: Same species (sitting on globe)UrsidaeZ3453a20rAngolan Colobus, Colobus angolensis (head)CercopithecidaeA3453b20rAngolan Colobus, Colobus angolensis (head)CercopithecidaeA3453d20rAngolan Colobus, Colobus angolensis (adult & juvenile)CercopithecidaeA3453d20rMantled Guereza, Colobus angolensis (adult & juvenile)CercopithecidaeA3452MarginUR: Angolan Colobus, Colobus angolensis (sitting on globe)CercopithecidaeA3453d20rMantled Guereza, Colobus angolensis (sitting on globe)CercopithecidaeZ345aMarginUR: Same species (sitting on globe)CercopithecidaeZ345a20rAsiatic Elephant, Elephas maximus ssp. maximusElephantidaeA3454d20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454d20rAsiatic Elephant, Elephas maximus ssp. indicusElephantidaeA3454MarginUR: Asiatic Elephant, Elephas maximus ssp. indicusElephantidaeA3455OrSaitic Elephant, Elephas maximus ssp. indicusElephantidaeZ3455a20rSaitic Elephant, Elephas maximus ssp. indicusElephantidaeZ3455a20rSaitic Elephant, Elephas maximus ssp. indicusElephantidae | | | 1 | | | |
| 3452 Margin UR: Same species (sitting on globe) Ursidae Z 3462 SS 60r Giant Panda, Ailuropoda melanoleuca Ursidae Z 3451 Margin UR: Same species (sitting on globe) Ursidae Z 3453a 20r Angolan Colobus, Colobus angolensis (head) Cercopithecidae A 3453b 20r Angolan Colobus, Colobus angolensis (adult & juvenile) Cercopithecidae A 3453c 20r Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae A 3453 20r Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae A 3453 SS 60r Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae Z 3453 SS 60r Angini UR: Same species (sitting on globe) Cercopithecidae Z 454 SS 60r Asiatic Elephant, Elephas maximus ssp. maximus Elephantidae Z 3454b 20r Asiatic Elephant, Elephas maximus ssp. indicus (two) Elephantidae A 3454 Margin UR: Asiatic Elephant, Elephas m | 3452d | | | Ursidae | A | |
| August | 3452 | | A | Ursidae | Z | |
| Margin UR: Same species (sitting on globe) Ursidae Z LL & R: Same species Ursidae Z LL & R: Same species Ursidae Z Classified Classified Classified Classified Classified A Angolan Colobus, Colobus angolensis (head) Cercopithecidae A Angolan Colobus, Colobus angolensis (adult & juvenile) Cercopithecidae A Angolan Colobus, Colobus angolensis (adult & juvenile) Cercopithecidae A Angolan Colobus, Colobus angolensis (adult & juvenile) Cercopithecidae A Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae A Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae A Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae A Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae A Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae A Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae A Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae A Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae A Asiatic Elephant, Elephas maximus ssp. indicus (three) Elephantidae A Asiatic Elephant, Elephas maximus ssp. indicus (three) Elephantidae A Asiatic Elephant, Elephas maximus (sitting on globe) Elephantidae A Asiatic Elephant, Elephas maximus (sitting on globe) Elephantidae A Asiatic Elephant, Elephas maximus (sitting on globe) Elephantidae A Asiatic Elephant, Elephas maximus (sitting on globe) Elephantidae A Asiatic Elephant, Elephas maximus (sitting on globe) Elephantidae A Asiatic Elephant, Elephas maximus (sitting on globe) Elephantidae A Asiatic Elephant, Elephas maximus (sitting on globe) Elephantidae A Asiatic Elephant, Elephas maximus (sitting on globe) Elephantidae A Asiatic Elephant, Elephas maximus (sitting on globe) Elephantidae A Asiatic Elephant, Elephas maximus (sitting on globe) Elephantidae A Asiatic Elep | 3462 | • | | Ursidae | | |
| LL & R: Same species Ursidae Z | 3451 | | <u> •</u> | Ursidae | Z | |
| 3453a 20r Angolan Colobus, Colobus angolensis (head) Cercopithecidae A 3453b 20r Zanzibar Red Colobus, Piliocolobus kirkii Cercopithecidae A 3453d 20r Mandala Colobus, Colobus angolensis (adult & juvenile) Cercopithecidae A 3453d 20r Mantled Guereza, Colobus guereza Cercopithecidae A 3452 Margin UR: Angolan Colobus, Colobus angolensis Cercopithecidae A 345a SS 60r Angolan Colobus, Colobus angolensis Cercopithecidae Z 345a SS 60r Asiatic Elephant, Colobus angolensis Cercopithecidae Z 3454a 20r Asiatic Elephant, Elephas maximus ssp. maximus Cercopithecidae Z 3454b 20r Asiatic Elephant, Elephas maximus ssp. indicus (three) Elephantidae A 3454c 20r Asiatic Elephant, Elephas maximus ssp. indicus (two) Elephantidae A 3454 Margin UR: Asiatic Elephant, Elephas maximus ssp. indicus Elephantidae A 3454 Margin UR: Asiatic Elephant, Elephas maxi | | C | | Ursidae | | |
| 3453b 20r Zanzibar Red Colobus, Piliocolobus kirkii Cercopithecidae A 3453c 20r Angolan Colobus, Colobus angolensis (adult & juvenile) Cercopithecidae A 3452 Margin UR: Angolan Colobus, Colobus angolensis (sitting on globe) Cercopithecidae Z 3463 SS 60r Angolan Colobus, Colobus angolensis Cercopithecidae Z 3454 Bot & R: Same species (sitting on globe) Cercopithecidae Z 3454b 20r Asiatic Elephant, Elephas maximus ssp. maximus Elephantidae A 3454c 20r Asiatic Elephant, Elephas maximus ssp. indicus (three) Elephantidae A 3454d 20r Asiatic Elephant, Elephas maximus ssp. indicus (two) Elephantidae A 3454d Margin UR: Asiatic Elephant, Elephas maximus ssp. indicus Elephantidae A 3454 Margin UR: Asiatic Elephant, Elephas maximus ssp. indicus Elephantidae A 3454 Margin UR: Asiatic Elephant, Elephas maximus ssp. indicus Elephantidae A 3455a Or Spinner Dolphin, | 3453a | 20r | • | Cercopithecidae | A | |
| 3453c20rAngolan Colobus, Colobus angolensis (adult & juvenile)CercopithecidaeA3453d20rMantled Guereza, Colobus guerezaCercopithecidaeA3452MarginLix Angolan Colobus, Colobus angolensis (sitting on globe)CercopithecidaeZ3463SS 60rAngolan Colobus, Colobus angolensisCercopithecidaeZ3454a20rAsiatic Elephant, Elephas maximus ssp. maximusElephantidaeA3454b20rAsiatic Elephant, Elephas maximus ssp. indicus (three)ElephantidaeA3454c20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454d20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454MarginUR: Asiatic Elephant, Elephas maximus ssp. indicusElephantidaeZ3454SS 60rAsiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZ3455UR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZ3455a20rSpinner Dolphin, Stenella longirostrisDelphinidaeZ3455b20rFraser's Dolphin, Lagenorhynchus hoseiDelphinidaeA3455c20rPantropical Spotted Dolphin, Stenella attenuataDelphinidaeA3455d20rPantropical Spotted Dolphin, Tursiops aduncusDelphinidaeA3455a22rPantropical Spotted Dolphin, Tursiops atuncusDelphinidaeA3456a22rJaguar, Panthera onca (adult & juvenile) <td< td=""><td>3453b</td><td>20r</td><td></td><td>_</td><td>A</td></td<> | 3453b | 20r | | _ | A | |
| 3453d20rMantled Guereza, Colobus guerezaCercopithecidaeA3452MarginUR: Angolan Colobus, Colobus angolensis (sitting on globe)CercopithecidaeZ3463SS 60rMarginUR: Same species (sitting on globe)CercopithecidaeZ3454a20rAsiatic Elephant, Elephas maximus ssp. maximusElephantidaeA3454b20rAsiatic Elephant, Elephas maximus ssp. indicus (three)ElephantidaeA3454c20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454d20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454dWarginUR: Asiatic Elephant, Elephas maximus ssp. indicusElephantidaeA3454MarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZ345aVasiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZBot: Same speciesElephantidaeZ3455a20rSpinner Dolphin, Stenella longirostrisDelphinidaeA3455b20rFraser's Dolphin, Lagenorhynchus hoseiDelphinidaeA3455d20rPantropical Spotted Dolphin, Stenella attenuataDelphinidaeA3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ345622rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3457a22r </td <td>3453c</td> <td>20r</td> <td>Angolan Colobus, Colobus angolensis (adult & juvenile)</td> <td></td> <td>A</td> | 3453c | 20r | Angolan Colobus, Colobus angolensis (adult & juvenile) | | A | |
| 3452MarginUR: Angolan Colobus, Colobus angolensis (sitting on globe)CercopithecidaeZ3463SS 60rAngolan Colobus, Colobus angolensisCercopithecidaeAWarginUR: Same species (sitting on globe)CercopithecidaeZ3454a20rAsiatic Elephant, Elephas maximus ssp. maximusElephantidaeA3454b20rAsiatic Elephant, Elephas maximus ssp. indicus (three)ElephantidaeA3454d20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454d3454d20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454MarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZ3464SS 60rAsiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZBot: Same speciesElephantidaeZ3455a20rSpinner Dolphin, Stenella longirostrisDelphinidaeA3455b20rStriped Dolphin, Stenella coeruleoalbaDelphinidaeA3455b20rPantropical Spotted Dolphin, Stenella attenuataDelphinidaeA3455WarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeA3456a22rJaguar, Panthera onca (one animal)FelidaeA3456b22rJaguar, Panthera onca (alult & juvenile)FelidaeA3456c22rJaguar, Panthera onca (also UR & LL margin)FelidaeA3457a22rSa | 3453d | | | • | A | |
| SS 60r Angolan Colobus, Colobus angolensis Cercopithecidae A | 3452 | | | • | Z | |
| Margin UR: Same species (sitting on globe) Bot & R: Same species (Sitting on globe) Bot Asiatic Elephant, Elephas maximus ssp. indicus (two) Belphantidae A Batside UR: Asiatic Elephant, Elephas maximus (Sitting on globe) Bot Same species Bot Same species Bot Same species Bot Same species Bot Spinner Dolphin, Stenella longirostris Bot Spinner Dolphin, Stenella longirostris Bot Spinner Dolphin, Stenella coeruleoalba Bot Soft Suriped Dolphin, Stenella coeruleoalba Bot Soft Dolphin, Stenella coeruleoalba Bot Common Bottlenose Dolphin, Tursiops aduncus Bot Common Bottlenose Dolphin, Tursiops truncatus Bot Dolphinidae A | 3463 | • | | _ | | |
| Bot & R: Same species | | Margin | UR: Same species (sitting on globe) | • | Z | |
| 3454b20rAsiatic Elephant, Elephas maximus ssp. indicus (three)ElephantidaeA3454c20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454d20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454MarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZ3464SS 60rAsiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeAMarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZBot: Same speciesElephantidaeZ3455a20rSpinner Dolphin, Stenella longirostrisDelphinidaeA3455b20rFraser's Dolphin, Lagenorhynchus hoseiDelphinidaeA3455c20rStriped Dolphin, Stenella coeruleoalbaDelphinidaeA3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3465SS 60rIndo-Pacific Bottlenose Dolphin, Tursiops aduncusDelphinidaeZ3456a22rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d32rJaguar, Panthera onca (adult & juvenile)FelidaeA3456MarginR: Puma, Puma concolorFelidaeA3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front) | | C | Bot & R: Same species | | | |
| 3454b20rAsiatic Elephant, Elephas maximus ssp. indicus (three)ElephantidaeA3454c20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454d20rAsiatic Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454MarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZ3464SS 60rAsiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeAMarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZBot: Same speciesElephantidaeZ3455a20rSpinner Dolphin, Stenella longirostrisDelphinidaeA3455b20rFraser's Dolphin, Lagenorhynchus hoseiDelphinidaeA3455c20rStriped Dolphin, Stenella coeruleoalbaDelphinidaeA3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3465SS 60rIndo-Pacific Bottlenose Dolphin, Tursiops aduncusDelphinidaeZ3456a22rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d32rJaguar, Panthera onca (adult & juvenile)FelidaeA3456MarginR: Puma, Puma concolorFelidaeA3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front) | 3454a | 20r | • | - | | |
| 3454c20rAsiatic Elephant, Elephant, Elephas maximus ssp. indicus (two)ElephantidaeA3454d20rAsiatic Elephant, Elephas maximus ssp. sumatranusElephantidaeA3454MarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZ3464SS 60rAsiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeAMarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZBot: Same speciesElephantidaeZ3455a20rSpinner Dolphin, Stenella longirostrisDelphinidaeA3455b20rFraser's Dolphin, Lagenorhynchus hoseiDelphinidaeA3455c20rPantropical Spotted Dolphin, Stenella attenuataDelphinidaeA3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3465SS 60rIndo-Pacific Bottlenose Dolphin, Tursiops aduncusDelphinidaeZMarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3456a22rPuma, Puma concolor (adult & juvenile)FelidaeA3456b22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456dSS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeA3457a22rSame species (two facing front)OtariidaeA3457b22rSame species (two facing front) </td <td>3454b</td> <td></td> <td>· · · · · · · · · · · · · · · · · · ·</td> <td>_</td> <td>A</td> | 3454b | | · · · · · · · · · · · · · · · · · · · | _ | A | |
| 3454d20rAsiatic Elephant, Elephas maximus ssp. sumatranusElephantidaeA3454MarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZ3464SS 60rAsiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeAMarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZBot: Same speciesElephantidaeZ3455a20rSpinner Dolphin, Stenella longirostrisDelphinidaeA3455b20rFraser's Dolphin, Lagenorhynchus hoseiDelphinidaeA3455c20rPantropical Spotted Dolphin, Stenella attenuataDelphinidaeA3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3465SS 60rIndo-Pacific Bottlenose Dolphin, Tursiops aduncusDelphinidaeAMarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3456a22rPuma, Puma concolor (adult & juvenile)FelidaeA3456b22rJaguar, Punthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456MarginAumarjan Puma concolor (in tree)FelidaeA3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457d22rSame species (two facing L)OtariidaeA <td>3454c</td> <td></td> <td></td> <td>_</td> <td></td> | 3454c | | | _ | | |
| 3454MarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZ3464SS 60rAsiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeAMarginUR: Asiatic Elephant, Elephas maximus (sitting on globe)ElephantidaeZBot: Same speciesElephantidaeZ3455a20rSpinner Dolphin, Stenella longirostrisDelphinidaeA3455b20rFraser's Dolphin, Lagenorhynchus hoseiDelphinidaeA3455d20rStriped Dolphin, Stenella coeruleoalbaDelphinidaeA3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeA3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3466SS 60rIndo-Pacific Bottlenose Dolphin, Tursiops aduncusDelphinidaeZBot: Common Bottlenose Dolphin, Tursiops truncatusDelphinidaeZBot: Common Bottlenose Dolphin, Tursiops truncatusDelphinidaeZ3456a22rPuma, Puma concolor (adult & juvenile)FelidaeA3456b22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456c22rPuma, Puma concolor (in tree)FelidaeA3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (two facing L)OtariidaeA3457dMargi | 3454d | | | _ | A | |
| 3464SS 60r MarginAsiatic Elephant, Elephas maximus ssp. indicus Bot: Same speciesElephantidae ElephantidaeA Elephantidae3455a20r Spinner Dolphin, Stenella longirostris 3455bDelphinidaeA3455c20r Striped Dolphin, Stenella coeruleoalbaDelphinidaeA3455d20r Striped Dolphin, Stenella coeruleoalbaDelphinidaeA3455d20r Pantropical Spotted Dolphin, Stenella attenuataDelphinidaeA3455Margin WarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeA3455SS 60r MarginIndo-Pacific Bottlenose Dolphin, Tursiops aduncus Bot: Common Bottlenose Dolphin, Tursiops aduncusDelphinidaeA3456a22r Bot: Common Bottlenose Dolphin, Tursiops truncatusDelphinidaeZ3456b22r Jaguar, Panthera onca (one animal)FelidaeA3456c22r Jaguar, Panthera onca (adult & juvenile)FelidaeA3456d22r Jaguar, Panthera onca (onglobe)FelidaeA3456Margin MarginR: Puma, Puma concolor R: Puma, Puma concolorFelidaeA3457a22r South African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457d 3457d 3457d 3457d 3457d 3457Same species (two facing front) ChariidaeOtariidaeA3457 3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA34570 3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtar | 3454 | | · · · · · · · · · · · · · · · · · · · | _ | Z | |
| Margin UR: Asiatic Elephant, Elephas maximus (sitting on globe) Bot: Same species 3455a 20r Spinner Dolphin, Stenella longirostris 3455b 20r Fraser's Dolphin, Lagenorhynchus hosei 3455c 20r Striped Dolphin, Stenella coeruleoalba 3455d 20r Pantropical Spotted Dolphin, Stenella attenuata 3455d 20r Pantropical Spotted Dolphin, Stenella attenuata 3455 Margin UR: Fraser's Dolphin, Lagenorhynchus hosei (on globe) 3465 SS 60r Indo-Pacific Bottlenose Dolphin, Tursiops aduncus Margin UR: Fraser's Dolphin, Lagenorhynchus hosei (on globe) Bot: Common Bottlenose Dolphin, Tursiops truncatus 3456a 22r Puma, Puma concolor (adult & juvenile) 3456b 22r Jaguar, Panthera onca (one animal) 3456c 22r Jaguar, Panthera onca (adult & juvenile) 3456d 22r Puma, Puma concolor (in tree) 3456d SS 70r Jaguar, Panthera onca (also UR & LL margin) Margin R: Puma, Puma concolor Margin R: Puma, Puma concolor SS 70r Jaguar, Panthera onca (also UR & LL margin) Margin R: Puma, Puma concolor Same species (two facing front) 3457d 22r Same species (two facing L) 3467 SS 70r South African Fur Seal, Arctocephalus pusillus 3467 Margin UR: Same species (w/ globe) 3467 SS 70r South African Fur Seal, Arctocephalus pusillus 3467 Otariidae A 3457 Margin UR: Same species (w/ globe) 3467 SS 70r South African Fur Seal, Arctocephalus pusillus | 3464 | • | | _ | A | |
| Bot: Same species 23455a 20r Spinner Dolphin, Stenella longirostris 2455b 20r Fraser's Dolphin, Lagenorhynchus hosei 3455c 20r Striped Dolphin, Stenella coeruleoalba 3455d 20r Pantropical Spotted Dolphin, Stenella attenuata 3455 Margin 3455 Margin 3456 SS 60r Indo-Pacific Bottlenose Dolphin, Tursiops aduncus Margin 3456 UR: Fraser's Dolphin, Lagenorhynchus hosei (on globe) Bot: Common Bottlenose Dolphin, Tursiops aduncus Bot: Common Bottlenose Dolphin, Tursiops aduncus Bot: Common Bottlenose Dolphin, Tursiops truncatus 3456a 22r Puma, Puma concolor (adult & juvenile) Felidae A 3456c 22r Jaguar, Panthera onca (one animal) Felidae A 3456d Margin Jaguar, Panthera onca (adult & juvenile) Felidae A 3456 Margin Jaguar, Panthera onca (adult & juvenile) Felidae A 3456 SS 70r Jaguar, Panthera onca (also UR & LL margin) Margin R: Puma, Puma concolor Felidae Z 3457a 22r South African Fur Seal, Arctocephalus pusillus (one seal) Otariidae A 3457 Margin UR: Same species (two facing L) Otariidae A 3467 SS 70r South African Fur Seal, Arctocephalus pusillus Otariidae A A A A A A A A A A A A A | | Margin | · · · · · · · · · · · · · · · · · · · | _ | | |
| 3455a20rSpinner Dolphin, Stenella longirostrisDelphinidaeA3455b20rFraser's Dolphin, Lagenorhynchus hoseiDelphinidaeA3455c20rStriped Dolphin, Stenella coeruleoalbaDelphinidaeA3455d20rPantropical Spotted Dolphin, Stenella attenuataDelphinidaeA3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3465SS 60rIndo-Pacific Bottlenose Dolphin, Tursiops aduncusDelphinidaeAMarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZBot: Common Bottlenose Dolphin, Tursiops truncatusDelphinidaeZ3456a22rPuma, Puma concolor (adult & juvenile)FelidaeA3456b22rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d32rPuma, Puma concolor (in tree)FelidaeA3456MarginJaguar, Panthera onca (also UR & LL margin)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeZ3457a22rSame species (two facing front)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeA3467SS 70rSouth African Fur Se | | | | | Z | |
| 3455c20rStriped Dolphin, Stenella coeruleoalbaDelphinidaeA3455d20rPantropical Spotted Dolphin, Stenella attenuataDelphinidaeA3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3465SS 60rIndo-Pacific Bottlenose Dolphin, Tursiops aduncusDelphinidaeAMarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3456a22rPuma, Puma concolor (adult & juvenile)FelidaeA3456b22rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d22rPuma, Puma concolor (in tree)FelidaeA3456MarginJaguar, Panthera onca (on globe)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeA3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeA3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3455a | 20r | Spinner Dolphin, Stenella longirostris | | A | |
| 3455c20rStriped Dolphin, Stenella coeruleoalbaDelphinidaeA3455d20rPantropical Spotted Dolphin, Stenella attenuataDelphinidaeA3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3465SS 60rIndo-Pacific Bottlenose Dolphin, Tursiops aduncusDelphinidaeAMarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3456a22rPuma, Puma concolor (adult & juvenile)FelidaeA3456b22rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d22rPuma, Puma concolor (in tree)FelidaeA3456MarginJaguar, Panthera onca (on globe)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeA3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeA3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3455b | 20r | Fraser's Dolphin, Lagenorhynchus hosei | Delphinidae | A | |
| 3455MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3465SS 60rIndo-Pacific Bottlenose Dolphin, Tursiops aduncusDelphinidaeAMarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3456a22rPuma, Puma concolor (adult & juvenile)FelidaeA3456b22rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d22rPuma, Puma concolor (in tree)FelidaeA3456MarginJaguar, Panthera onca (on globe)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeA3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeA3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3455c | 20r | Striped Dolphin, Stenella coeruleoalba | | A | |
| 3465SS 60rIndo-Pacific Bottlenose Dolphin, Tursiops aduncusDelphinidaeAMarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3456a22rPuma, Puma concolor (adult & juvenile)FelidaeA3456b22rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d22rPuma, Puma concolor (in tree)FelidaeA3456MarginJaguar, Panthera onca (on globe)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeZMarginR: Puma, Puma concolorFelidaeZ3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeA3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3455d | 20r | Pantropical Spotted Dolphin, Stenella attenuata | Delphinidae | A | |
| MarginUR: Fraser's Dolphin, Lagenorhynchus hosei (on globe)DelphinidaeZ3456a22rPuma, Puma concolor (adult & juvenile)FelidaeA3456b22rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d22rPuma, Puma concolor (in tree)FelidaeA3456MarginJaguar, Panthera onca (on globe)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeZ3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeA3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3455 | Margin | UR: Fraser's Dolphin, Lagenorhynchus hosei (on globe) | Delphinidae | Z | |
| Bot: Common Bottlenose Dolphin, Tursiops truncatus 3456a 22r Puma, Puma concolor (adult & juvenile) Felidae A 3456b 22r Jaguar, Panthera onca (one animal) Felidae A 3456c 22r Jaguar, Panthera onca (adult & juvenile) Felidae A 3456d 22r Puma, Puma concolor (in tree) Felidae A 3456 Margin Jaguar, Panthera onca (on globe) Felidae Z 3466 SS 70r Jaguar, Panthera onca (also UR & LL margin) Margin R: Puma, Puma concolor Felidae Z 3457a 22r South African Fur Seal, Arctocephalus pusillus (one seal) Otariidae A 3457b 22r Same species (two facing front) Otariidae A 3457d 22r Same species (two facing L) Otariidae A 3457 Margin UR: Same species (w/ globe) SS 70r South African Fur Seal, Arctocephalus pusillus Otariidae A | 3465 | SS 60r | Indo-Pacific Bottlenose Dolphin, Tursiops aduncus | Delphinidae | A | |
| 3456a22rPuma, Puma concolor (adult & juvenile)FelidaeA3456b22rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d22rPuma, Puma concolor (in tree)FelidaeA3456MarginJaguar, Panthera onca (on globe)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeAMarginR: Puma, Puma concolorFelidaeZ3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (adult & juvenile)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | | Margin | UR: Fraser's Dolphin, Lagenorhynchus hosei (on globe) | Delphinidae | Z | |
| 3456b22rJaguar, Panthera onca (one animal)FelidaeA3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d22rPuma, Puma concolor (in tree)FelidaeA3456MarginJaguar, Panthera onca (on globe)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeA ZMarginR: Puma, Puma concolorFelidaeZ3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (adult & juvenile)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | | | Bot: Common Bottlenose Dolphin, Tursiops truncatus | Delphinidae | Z | |
| 3456c22rJaguar, Panthera onca (adult & juvenile)FelidaeA3456d22rPuma, Puma concolor (in tree)FelidaeA3456MarginJaguar, Panthera onca (on globe)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeA ZMarginR: Puma, Puma concolorFelidaeZ3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (adult & juvenile)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3456a | 22r | Puma, Puma concolor (adult & juvenile) | Felidae | A | |
| 3456d22rPuma, Puma concolor (in tree)FelidaeA3456MarginJaguar, Panthera onca (on globe)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeA ZMarginR: Puma, Puma concolorFelidaeZ3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (adult & juvenile)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3456b | 22r | Jaguar, Panthera onca (one animal) | Felidae | A | |
| 3456MarginJaguar, Panthera onca (on globe)FelidaeZ3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeA ZMarginR: Puma, Puma concolorFelidaeZ3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (adult & juvenile)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3456c | 22r | Jaguar, Panthera onca (adult & juvenile) | Felidae | A | |
| 3466SS 70rJaguar, Panthera onca (also UR & LL margin)FelidaeA ZMarginR: Puma, Puma concolorFelidaeZ3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (adult & juvenile)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3456d | 22r | Puma, <i>Puma concolor</i> (in tree) | Felidae | A | |
| MarginR: Puma, Puma concolorFelidaeZ3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (adult & juvenile)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3456 | Margin | Jaguar, Panthera onca (on globe) | Felidae | Z | |
| 3457a22rSouth African Fur Seal, Arctocephalus pusillus (one seal)OtariidaeA3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (adult & juvenile)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3466 | SS 70r | Jaguar, Panthera onca (also UR & LL margin) | Felidae | AZ | |
| 3457b22rSame species (two facing front)OtariidaeA3457c22rSame species (adult & juvenile)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | | Margin | R: Puma, Puma concolor | Felidae | Z | |
| 3457c22rSame species (adult & juvenile)OtariidaeA3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3457a | 22r | South African Fur Seal, Arctocephalus pusillus (one seal) | Otariidae | A | |
| 3457d22rSame species (two facing L)OtariidaeA3457MarginUR: Same species (w/ globe)OtariidaeZ3467SS 70rSouth African Fur Seal, Arctocephalus pusillusOtariidaeA | 3457b | 22r | Same species (two facing front) | Otariidae | A | |
| 3457 Margin UR: Same species (w/ globe) Otariidae Z 3467 SS 70r South African Fur Seal, Arctocephalus pusillus Otariidae A | 3457c | 22r | Same species (adult & juvenile) | Otariidae | A | |
| 3467 SS 70r South African Fur Seal, Arctocephalus pusillus Otariidae A | 3457d | 22r | Same species (two facing L) | Otariidae | A | |
| , 1 | 3457 | Margin | UR: Same species (w/ globe) | | Z | |
| Margin UR: Same species (w/ globe) Otariidae Z | 3467 | SS 70r | South African Fur Seal, Arctocephalus pusillus | | | |
| | | Margin | | Otariidae | Z | |
| Bot & R: Same species Otariidae Z | | | Bot & R: Same species | Otariidae | Z | |

| MALDI | VE ISLAI | NDS (continued) 2016 May 23 (Flora & Fauna) (MS/4 & S | S/1) | |
|---------|---|---|---------------|-----|
| 3603a | | Tiger, Panthera tigris ssp. tigris | Felidae | A |
| 3603b | | Puma, Puma concolor ssp. cougar | Felidae | A |
| 3603c | | Cheetah, Acinonyx jubatus ssp. jubatus (Cap: A. j. raineyii) | Felidae | A |
| 3603d | | Central American Jaguar, <i>Panthera onca</i> ssp. <i>centralis</i> | Felidae | A |
| 3612 | | Lion, Panthera leo ssp. leo | Felidae | A |
| 0012 | | L: Tiger, Panthera tigris ssp. amoyensis | Felidae | Z |
| | 111111111111111111111111111111111111111 | LR: Leopard, Panthera pardus ssp. orientalis | Felidae | Z |
| | | UR: Snow Leopard, Panthera uncia | Felidae | Z |
| 3605a | 20r | Atlantic Spotted Dolphin, Stenella frontalis | Delphinidae | Ā |
| 3605b | 20r | Short-beaked Common Dolphin, <i>Delphinus delphis</i> | Delphinidae | A |
| 3605c | | Commerson's Dolphin, Cephalorhynchus commersonii | Delphinidae | A |
| 3605d | | Striped Dolphin, Stenella coeruleoalba | Delphinidae | A |
| 3614 | | Amazon River Dolphin, <i>Inia geoffrensis</i> | Iniidae | A |
| 3014 | | L: Rough-toothed Dolphin, Steno bredanensis | Delphinidae | Z |
| | wangiii | R: Ganges River Dolphin, <i>Platanista gangetica</i> | Platanistidae | Z |
| | | Bot: Risso's Dolphin, Grampus griseus | Delphinidae | Z |
| 3608a | 225 | Polar Bear, <i>Ursus maritimus</i> (sitting facing front) | Ursidae | A |
| 3608b | | | Ursidae | |
| | | Same species (standing) | | A |
| 3608c | 22r | Same species (sitting facing R) | Ursidae | A |
| 3608d | 22r | Same species (head) | Ursidae | A |
| 3617 | | Polar Bear, <i>Ursus maritimus</i> (also on margin) | Ursidae | ΑZ |
| | LEONE | 2017 March 30 (Fauna & Flora) (MS/4 & | * | |
| 4167a | | Red Panda Ailurus fulgens (facing R) | Ailuridae | A |
| 4167b | | Giant Panda, Ailuropoda melanoleuca (two on ground) | Ursidae | A |
| 4167c | | Giant Panda, Ailuropoda melanoleuca (two in tree) | Ursidae | A |
| 4167d | | Red Panda, Ailurus fulgens (facing L) | Ailuridae | A |
| 4167 | Margin | UL & LR: Giant Panda, Ailuropoda melanoleuca | Ursidae | Z |
| 4186 SS | S 40000le | Giant Panda, Ailuropoda melanoleuca | Ursidae | A |
| | Margin | UR & Bot: Same species | Ursidae | Z |
| | | UL: Red Panda, Ailurus fulgens | Ailuridae | Z |
| 4168a | 9800le | Lion, Panthera leo (lying on rock) | Felidae | A |
| 4168b | 9800le | Lion, Panthera leo | Felidae | В |
| | | African Buffalo, Syncerus caffer | Bovidae | В |
| 4168c | 9800le | Lion, Panthera leo (two adults) | Felidae | A |
| 4168d | 9800le | Lion, Panthera leo (running) | Felidae | A |
| 4168 | Margin | Same species | Felidae | Z |
| 4187 SS | _ | Lion, <i>Panthera leo</i> (also on margin) | Felidae | Z |
| | | LL: Dorcas Gazelle, Gazella dorcas | Bovidae | AZ |
| 4169a | _ | Indochinese Tiger, Panthera tigris ssp. corbetti | Felidae | A |
| 4169b | 9800le | | Felidae | A |
| 4169c | | Malayan Tiger, Panthera tigris ssp. jacksoni | Felidae | A |
| 4169d | 9800le | | Felidae | A |
| 4169 | | Tiger, Panthera tigris | Felidae | Z |
| | S 40000le | Bengal Tiger, <i>Panthera tigris</i> ssp. <i>tigris</i> | Felidae | A |
| 1100 01 | | LR: Same species | Felidae | Z |
| | 17101 g111 | LL: Siberian Tiger, Panthera tigris ssp. altaica | Felidae | Z |
| 4181b | 9800le | Muskox, Ovibos moschatus | Bovidae | A |
| 4181c | 9800le | Walrus, Odobenus rosmarus | Odobenidae | A |
| 4181 | Margin | UL & UR: Polar Bear, <i>Ursus maritimus</i> | Ursidae | Z |
| | _ | | Ursidae | A Z |
| 4200 33 | 3 400001e | Polar Bear, <i>Ursus maritimus</i> (also on margin) | OISIUAE | AL |

| SIERRA LEONE (continued) 2017 March 30 (Endemic Indonesian Animals) (MS/4 & SS/2) (round) | | | |
|---|--|-----------------------|---------|
| 4205b 9800le | Javan Rhinoceros, Rhinoceros sondaicus | Rhinocerotidae | A |
| 4205c 9800le | Sumatran Tiger, Panthera tigris ssp. sumatrae | Felidae | A |
| 4205d 9800le | Sumatran Muntjac, Muntiacus montanus | Cervidae | (new) A |
| 4206b SS 20000le | Mountain Anoa, Bubalus quarlesi | Bovidae | (new) A |
| | 2017 May 30 (Jacques-Yves Cousteau [191 | 7_19971) (Set/4 & S | 35/1) |
| 4329 6600le | Common Bottlenose Dolphin, <i>Tursiops truncatus</i> | Delphinidae | В |
| 4330 SS 40000le | Atlantic Spotted Dolphin, Stenella frontalis | Delphinidae | В |
| 4550 55 4000016 | | • | Ъ |
| | 2017 May 30 (Steve Irwin [1962–2006]) (S | et/4 & SS/1) | |
| 4333 6600le | Agile Wallaby, Macropus agilis | Macropodidae | (new) B |
| 4335 SS 40000le | Irwin w/ Pinta Island Tortoise, Chelonoidis nigra ssp. abingdoni | <i>i</i> Testudinidae | R |
| Margin | LL: Southern Hairy-nosed Wombat, Lasiorhinus latifrons | Vombatidae | Z |
| | 2017 June 30 (Fauna & Flora) (MS/4 & SS/ | /1) | |
| 4341a 9800le | Dugong, Dugong dugon (one facing R) | Dugongidae | A |
| 4341b 9800le | Same species (adult & juvenile) | Dugongidae | A |
| 4341c 9800le | Same species (two facing front) | Dugongidae | A |
| 4341d 9800le | Same species (two facing L) | Dugongidae | A |
| 4361 SS 40000le | Dugong, Dugong dugon (also R & Bot margin) | Dugongidae | AZ |
| 4342a 9800le | | Delphinidae | A |
| 4342b 9800le | | Delphinidae | A |
| 4342c 9800le | Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i> | Delphinidae | A |
| 4342d 9800le | Top: Pacific White-sided Dolphin, Lagenorhynchus obliquidens | _ | В |
| | Bot: White-beaked Dolphin, Lagenorhynchus albirostris | Delphinidae | В |
| 4362 SS 40000le | Atlantic Spotted Dolphin, Stenella frontalis | Delphinidae | A |
| Margin | Bot: Common Bottlenose Dolphin, Tursiops truncatus | Delphinidae | Z |
| · · | R: Burrunan Dolphin, Tursiops australis | Delphinidae | Z |
| 4343a 9800le | Sperm Whale, <i>Physeter catodon</i> | Physeteridae | A |
| 4343b 9800le | Grey Whale, Eschrichtius robustus | Eschrichtiidae | A |
| 4343c 9800le | Common Minke Whale, Balaenoptera acutorostrata | Balaenopteridae | A |
| 4343d 9800le | Bowhead Whale, Balaena mysticetus | Balaenidae | A |
| 4363 SS 40000le | Humpback Whale, <i>Megaptera novaeangliae</i> (also Bot margin) | Balaenopteridae | AZ |
| | Leopard, Panthera pardus | Felidae | A |
| 4344b 9800le | Tiger, Panthera tigris | Felidae | A |
| 4344c 9800le | Cheetah, <i>Acinonyx jubatus</i> | Felidae | A |
| 4344d 9800le | Jaguar, Panthera onca | Felidae | A |
| 4364 SS 40000le | Puma, <i>Puma concolor</i> | Felidae | A |
| Margin | · | Felidae | Z |
| 4356c 9800le | †Thylacine, Thylacinus cynocephalus | Thylacinidae | Ā |
| 4356d 9800le | †Quagga, Equus quagga ssp. quagga | Equidae | A |
| | 2017 August 30 (Antarctica & Tourism) (M | _ | |
| 4432b 9800le | Weddell Seal, Leptonychotes weddellii | Phocidae | A |
| 4432c 9800le | Orca (Killer Whale), Orcinus orca | Delphinidae | A |
| 4432d 9800le | Southern Right Whale, Eubalaena australis | Balaenidae | A |
| 4451 SS 40000le | Weddell Seal, Leptonychotes weddellii | Phocidae | A |
| 4433a 9800le | Eastern Gorilla, Gorilla beringei | Hominidae | В |
| 4433b 9800le | Bornean Orangutan, <i>Pongo pygmaeus</i> | Hominidae | В |
| 4433c 9800le | Golden Monkey, Cercopithecus kandti | Cercopithecidae | В |
| 4433d 9800le | Grivet Monkey, Chlorocebus aethiops | Cercopithecidae | В |
| 4452 SS 40000le | Common Chimpanzee, <i>Pan troglodytes</i> (also UR margin) | Hominidae | ВZ |
| . 132 BB 40000IC | Common Chimpunzoo, 1 wit it og tou yies (wiso of than gill) | | DL |

| SIERRA LEONE | (continued) 2017 August 30 (Endangered Species of Cl | nina) (MS/4 & SS/1) | |
|-----------------|---|---------------------|--------------|
| 4459b 9800le | | Felidae | S A |
| 4459c 9800le | | Iniidae | S A |
| 4459d 9800le | Golden Snub-nosed Monkey, Rhinopithecus roxellana (drawing | | S A |
| 4460 SS 40000le | Giant Panda, Ailuropoda melanoleuca (drawing) | Ursidae | S A |
| | UL: Pere David's Deer, <i>Elaphurus davidianus</i> (drawing) | Cervidae | $\tilde{S}Z$ |
| 111118111 | | | ~ _ |
| 4461 00001 | 2017 September 29 (Fauna & Flora) (MS/4 | | |
| | Harbor Seal, <i>Phoca vitulina</i> | Phocidae | A |
| | Ribbon Seal, Histriophoca fasciata | Phocidae | A |
| 4461c 9800le | Grey Seal, Halichoerus grypus | Phocidae | A |
| | Bearded Seal, Erignathus barbatus (Cap: Pagophilus groenlandicus) | Phocidae | A |
| 4461 Margin | * | Phocidae | Z |
| 4481 SS 40000le | Northern Elephant Seal, Mirounga angustirostris | Phocidae | A |
| Margin | 1 , , , , , , , , , , , , , , , , , , , | Phocidae | Z |
| | Bot: Harbor Seal <i>Phoca vitulina</i> | Phocidae | Z |
| | Bot: Crabeater Seal, Lobodon carcinophagus | Phocidae | Z |
| 4462a 9800le | Steller Sea Lion, Eumetopias jubatus | Otariidae | A |
| 4462b 9800le | Australian Sea Lion, Neophoca cinerea | Otariidae | A |
| 4462c 9800le | California Sea Lion, Zalophus californianus | Otariidae | A |
| 4462d 9800le | New Zealand Fur Seal, Arctocephalus forsteri | Otariidae | A |
| 4462 Margin | LL: California Sea Lion, Zalophus californianus | Otariidae | Z |
| | LR: Australian Sea Lion, Neophoca cinerea | Otariidae | Z |
| 4482 SS 40000le | Galapagos Sea Lion, Zalophus wollebaeki | Otariidae | A |
| Margin | LL: California Sea Lion, Zalophus californianus | Otariidae | Z |
| | LR: Galapagos Sea Lion, Zalophus wollebaeki | Otariidae | Z |
| 4463a 9800le | Striped Dolphin, Stenella coeruleoalba | Delphinidae | A |
| 4463b 9800le | Common Bottlenose Dolphin, Tursiops truncatus | Delphinidae | A |
| 4463c 9800le | Common Bottlenose Dolphin, <i>Tursiops truncatus</i> (Cap: <i>Cephalorhynchus commersonii</i>) | Delphinidae | A |
| 4463d 9800le | Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i> | Delphinidae | A |
| 4463 Margin | Striped Dolphin, Stenella coeruleoalba | Delphinidae | Z |
| 4483 SS 40000le | Long-beaked Common Dolphin, Delphinus capensis (Cap: Orcaella brevirostris) | Delphinidae | Ā |
| Margin | Bot: Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i> | Delphinidae | Z |
| _ | Bonobo (Pygmy Chimpanzee), <i>Pan paniscus</i> | Hominidae | Ā |
| | Red Panda, Ailurus fulgens | Ailuridae | A |
| | Proboscis Monkey, Nasalis larvatus | Cercopithecidae | A |
| | Bot: Spanish Lynx, <i>Lynx pardinus</i> | Felidae | Z |
| • | Malayan Tapir, <i>Tapirus indicus</i> | Tapiridae | Ā |
| | Pygmy Hippopotamus, Hexaprotodon liberiensis | Hippopotamidae | A |
| 4475c 9800le | Bongo, Tragelaphus eurycerus | Bovidae | A |
| 4475d 9800le | Sooty Mangabey, Cercocebus atys | Cercopithecidae | A |
| 4495 SS 40000le | Kingfisher on stamp | | |
| Margin | LL: Western Red Colobus, Piliocolobus badius | Cercopithecidae | A |
| | 2017 December 29 (Fauna) (MS/4 & SS/1) | | |
| | Red River Hog, Potamochoerus porcus (nose on ground) | Suidae | A |
| | Same species (facing front) | Suidae | A |
| 4581c 9800le | | Suidae | A |
| 4581d 9800le | Same species (facing R) | Suidae | A |
| 4601 SS 40000le | Red River Hog, <i>Potamochoerus porcus</i> (also on margin) | Suidae | ΑZ |

| SIERRA LEONE | (continued) | | |
|-----------------|---|------------------|---------|
| 4582a 9800le | | Hyaenidae | A |
| 4582b 9800le | | Hyaenidae | A |
| 4582c 9800le | Spotted Hyena, Crocuta crocuta (head lowered) | Hyaenidae | A |
| | Striped Hyena, Hyaena hyaena (facing L) | Hyaenidae | A |
| 4602 SS 40000le | | Hyaenidae | AZ |
| 4583a 9800le | | Hippopotamidae | A |
| 4583b 9800le | | Hippopotamidae | A |
| 4583c 9800le | | Hippopotamidae | A |
| 4583d 9800le | | Hippopotamidae | A |
| 4603 SS 40000le | | Hippopotamidae | AZ |
| 4584a 9800le | | Cercopithecidae | A |
| 4584b 9800le | · · · · · · · · · · · · · · · · · · · | Cercopithecidae | A |
| | Common Chimpanzee, Pan troglodytes ssp. verus | Hominidae | A |
| 4584d 9800le | | Cercopithecidae | A |
| 4604 SS 40000le | Green Monkey, Chlorocebus sabaeus | Cercopithecidae | A |
| Margin | • | Cercopithecidae | Z |
| 8 | Bot: Senegal Galago, Galago senegalensis | Galagidae | Z |
| | LR: Lesser Spot-nosed Monkey, Cercopithecus petaurista | Cercopithecidae | (new) Z |
| 4585a 9800le | Gambian Epauletted Fruit Bat, <i>Epomophorus gambianus</i> | Pteropodidae | Α |
| 4585b 9800le | | Pteropodidae | A |
| 4585c 9800le | | Megadermatidae | A |
| | Egyptian Rousette, Rousettus aegyptiacus | Pteropodidae | A |
| | Large Flying Fox, <i>Pteropus vampyrus</i> | Pteropodidae | A |
| Margin | | Vespertilionidae | Z |
| \mathcal{E} | LL: Mauritian Tomb Bat, Taphozous mauritianus | Emballonuridae | Z |
| 4586a 9800le | - | Felidae | A |
| 4586b 9800le | 1 1 1 1 7 | Felidae | A |
| 4586c 9800le | 1 , , | Felidae | A |
| 4586d 9800le | 1 , 0, | Felidae | A |
| | Leopard, <i>Panthera pardus</i> ssp. <i>pardus</i> (also on margin) | Felidae | AZ |
| | African Bush Elephant, <i>Loxodonta africana</i> (facing R) | Elephantidae | A |
| | Same species (facing front) | Elephantidae | A |
| 4587c 9800le | | Elephantidae | A |
| 4587d 9800le | . , | Elephantidae | A |
| | African Bush Elephant, <i>Loxodonta africana</i> (also on margin) | Elephantidae | ΑZ |
| 4588a 9800le | African Manatee, <i>Trichechus senegalensis</i> (facing LL) | Trichechidae | A |
| 4588b 9800le | | Trichechidae | A |
| 4588c 9800le | 1 , , | Trichechidae | A |
| 4588d 9800le | 1 , , | Trichechidae | A |
| 4608 SS 40000le | 1 , , | Trichechidae | AZ |
| 4589a 9800le | | Delphinidae | A |
| ,,,,,, | (Cap: Stenella frontalis) | | |
| 4589b 9800le | | Delphinidae | A |
| 4589c 9800le | Fraser's Dolphin, Lagenodelphis hosei | Delphinidae | A |
| 4589d 9800le | Pygmy Killer Whale, Feresa attenuata | Delphinidae | A |
| 4609 SS 40000le | Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i> (margin) | Delphinidae | ΑZ |
| | (Cap: Stenella frontalis) | _ | |
| 4590a 9800le | · · · · · · · · · · · · · · · · · · · | Delphinidae | A |
| 4590b 9800le | 1 ' | Delphinidae | A |
| 4590c 9800le | 1 , , | Delphinidae | A |
| 4590d 9800le | Same species (facing UL) | Delphinidae | A |

SIERRA LEONE (continued)

4610 SS 40000le Orca (Killer Whale), *Orcinus orca* (also on margin) Delphinidae A Z

WALLIS & FUTUNA ISLANDS 2017 June 7 (World Environment Day) (Single)

787 400fr Humpback Whale, Megaptera novaeangliae Balaenopteridae A

SANTA'S REINDEER

(from Patricia Edmonds, *National Geographic*) "Rudolph the red-nosed reindeer must have been a female."

Rangifer tarandus includes the caribou of North America and the reindeer of Eurasia. Biologist Peter Flood of the University of Saskatchewan, Canada, says it is the only deer species in which both sexes grow antlers—and in which annual rack-shedding cycles separate the bulls from the cows.

In spring, both sexes begin to grow antlers that, by fall, harden to bone. Flood says adult males' antlers are rightly called weapons of sex, used to drive off other bulls in rut. After the cows are pregnant, adult bulls' testosterone levels drop, triggering a bone cell change that makes their antlers fall off, usually in November or December.



Rangifer tarandus Iceland, 2003, Sc#999

Young males keep their antlers somewhat longer. But pregnant cows keep their racks all winter and into spring, the better to fend off threats and guard feeding sites. Only after they give birth, typically in April or May, do they shed their antlers (which non-pregnant cows did some weeks earlier).

So to give Santa's sleigh pullers their due, let us clarify. Reindeer still antlered on Christmas Eve may be adolescent males, but could very well be females, and pregnant ones at that.

[Ed. note. The names of Santa's main team have been documented for almost 200 years. Clearly they cannot be adolescents. One of the names (Vixen) is feminine and the others are androgynous enough to give credence to this theory that they are all female.

[However, Rudolph is clearly a masculine name and is referred to as a male in the story that introduced him to the public in 1939. Since Rudolph has been around that long, we can consider that by now he also is no longer a young bull and thus, should have shed his antlers by Christmas Eve.

[If we suppose that all these beasts are the original members of the team, then they have unnaturally long life spans. Given that they can also fly, perhaps they belong to an unidentified supernatural subspecies (R. t. fantasticus?). Maybe this subspecies does not shed its antlers at all, so who knows what gender they might be.]



ORNITHOLOGY

Editor Glenn G. Mertz, BU1455

JERSEY 17

Corrections/Updates

BULGARIA, Vol. 67(2), p.123

Update: I wrote this issue up in Vol. 67(3), with Sc#4825a–d. Scott has renumbered this set of four as Sc#4825–28, and listed Sc#4828a–d as a MS/4. Sc#4825–28 is a set without a light gray frame.

DJIBOUTI, Vol. 67(3), p.213, with date of 2018 March 15.

Update: Owls (MS/4=Sc#1395a-d, SS/1=Sc#1413 Birds of Prey (MS/4=Sc#1396a-d, SS/1=Sc#1414 Alexander Wilson (MS/4=Sc#1400a-d, SS/1=Sc#1418

GAMBIA, Vol. 66(2), p.142

Correction: Sc#3614b was missing the full scientific name. It is Milvus milvus

MALDIVE ISLANDS, Vol. 65(2), pp.116–17

Update: Scott Publishing has assigned numbers to the following issues. I have listed them below in the order I listed them in Vol. 65(2), starting on p.116. For those using Scott numbers, you will have to replace the Michel numbers inserted by the journal editor.

- 2015 August 10 (Conservation Projects: Penguins) (MS/4=Sc#3458a-d, SS/1=Sc#3468
- 2015 December 2 (BAA Atoll) (MS/4=Sc#3511b
- 2015 December 2 (Ducks) (MS/4=Sc#3513a-d; SS/1=Sc#3523
- 2015 December 2 (Birds of Prey) (MS/4=Sc#3512a-d; SS/1=Sc#3522
- 2015 December 2 (Wading Birds) (MS/4=Sc#3519a-d; SS/1=Sc#3529
- 2015 December 2 (Seabirds) (MS/4=Sc#3517a-d; SS/1=3527
- 2015 December 2 (Terns) (MS/4=Sc#3518a-d; SS/1=Sc#3528

OMAN, Vol. 66(3), p.132

Update: Scott has assigned numbers to the issues of 2014 December 14. They are in the order I listed them, Sc#568a, Sc#568b, and the five SS are Sc#569–73.

PAPUA NEW GUINEA, Vol. 67(3), p.39

Correction: Sc#1879b, denomination 1.50k, was incorrectly listed as a Yellow-legged Eagle. It was captioned on the stamp as a Black-billed Brushturkey, and this is how it should have been listed in the write-up. The scientific name *Talegalla fuscirostris* listed in the write-up is correct and was printed correctly on the stamp.

New Issues

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

ARUBA 2018 April 24 (Personalized) (Set/4)

A set of four stamps (Sc#587–90) listed by Scott Publishing as "Personalized Stamps," meaning purchasers can place any image in the vignette portion of the stamp. They go on to state that the vignettes shown for these types are generic images. Only one image features a bird.

587 1.30c Burrowing Owl, Athene cunicularia Strigidae

| AUSTRA | ALIA | 2018 March 3 (Finches of Australia) (Set/4 | , Strip/4, Bklt/10) | \mathbf{A} |
|--------|---------|--|---------------------|--------------|
| 4771 | \$1 | Blue-faced Parrotfinch, Erythrura trichroa | Estrildidae | |
| 4772 | \$1 | Double-barred Finch, Taeniopygia bichenovii | Estrildidae | |
| 4773 | \$1 | Star Finch, Neochmia ruficauda | Estrildidae | Vol. 67(2) |
| 4774 | \$1 | Chestnut-eared Finch, <i>Taeniopygia castanotis</i> (Cap: Zebra Finch, <i>Taeniopygia guttata</i> (this species has been | Estrildidae lumped) | |
| 4775 | \$1 | Blue-faced Parrotfinch, Erythrura trichroa (die cut) (s/a) | Estrildidae | |
| 4776 | \$1 | Double-barred Finch, Taeniopygia bichenovii (die cut) (s/a) | Estrildidae | |
| 4777 | \$1 | Star Finch, Neochmia ruficauda (die cut) (s/a) | Estrildidae | |
| 4778 | \$1 | Chestnut-eared Finch, <i>Taeniopygia castanotis</i> (die cut) (s/a) | Estrildidae | |
| 4778a | | Horiz coil Strip/4 (Sc#4775–78) | | |
| 4778b | | Bklt/10 (3ea Sc#4775–76, 2ea Sc#4777–78) | | |
| | | 2018 May 21 (Silo Art) (4ea Bklt/4 & 4ea l | · · | \mathbf{C} |
| 4804 | \$1 | New Holland Honeyeater, Phylidonyris novaehollandiae | Meliphagidae | (new) |
| 4804a | | Bklt/4 (2ea Sc#4803–04) (perf 14×14¾) | | |
| 4805 | \$1 | Pale-headed Rosella, Platycercus adscitus | Psittaculidae | |
| 4805a | | Bklt/4 (2ea Sc#4803 & Sc#4805) (perf 14×14¾) | | |
| 4806a | | Bklt/4 (Sc#4803–06) (perf 14×14¾) | | |
| 4806b | | Bklt/4 (2ea Sc#4804 & Sc#4806) (perf 14×14¾) | | |
| 4808 | \$1 | New Holland Honeyeater, Phylidonyris novaehollandiae | Meliphagidae | |
| 4808a | | Bklt/10 (Sc#4808) (die cut 11 ¹ / ₄) (s/a) | | |
| 4809 | \$1 | Pale-headed Rosella, Platycercus adscitus | Psittaculidae | |
| 4809a | | Bklt/10 (Sc#4809) (die cut 11¼) (s/a) | | |
| | | 2018 June 5 (Finches of Australia) (SS/3) | | A |
| 4811 | \$1 | Gouldian Finch, Erythrura gouldiae | Estrildidae | |
| 4812 | \$1 | Beautiful Firetail, Stagonopleura bella | Estrildidae | Vol. 67(3) |
| 4813 | \$1 | Black-throated Finch, <i>Poephila cincta</i> | Estrildidae | Vol. 67(3) |
| 4813a | | SS/3 (Sc#4811–13) | | . , |
| AZERB | AIJAN | 2017 December 6 (Fauna) (MS/8 & 2ea SS | /1) | \mathbf{A} |
| 1155e | 20g | Golden Eagle, Aquila chrysaetos | Accipitridae | |
| 1155f | 20g | Greater Flamingo, Phoenicopterus roseus | Phoenicopteridae | |
| 1157 | SS 50g | Golden Eagle, Aquila chrysaetos | Accipitridae | |
| BELAR | US | 2018 January 3 (Chicks) (SS/8) | | A |
| 1073 | | Common Ringed Plover, <i>Charadrius hiaticula</i> (inscr. "A") | Charadriidae | |
| 1074 | (1.02r) | Common Tern, Sterna hirundo (inscr. "N") | Laridae | |
| 1075 | (1.26r) | Hazel Grouse, Bonasa bonasia (inscr. "M") | Phasianidae | |
| 1076 | (1.38r) | Gray Heron, Ardea cinerea (inscr. "H") | Ardeidae | |
| 1076a | , , | SS/8 (2ea Sc#1073–76) | | |
| BELGIU | IM | 2017 October 23 (High Fens Nature Reserv | ze) (MS/10) | A |
| 2834a | (74c) | Eurasian Nutcracker, <i>Nucifraga caryocatactes</i> | Corvidae | A |
| 2834b | (74c) | Black Grouse, Tetrao tetrix | Phasianidae | |
| 2834c | (74c) | | Strigidae | |
| 2834 | (/+c) | MS/10 (Sc#2834a–j) | Buigidae | |
| _55. | | | | 4 |
| 2046 | (11-) | 2018 January 22 (Duck) (Single) | Anotidos | A |
| 2846 | (44c) | Red-crested Pochard, Netta rufina | Anatidae | |
| BHUTA | N | 2017 November 30 (Pheasants of Bhutan) | (MS/6 & SS/1) | \mathbf{A} |
| 1589a | 20nu | Blood Pheasant, Ithaginis cruentus | Phasianidae | |
| 1589b | 20nu | Himalayan Monal, Lophophorus impejanus | Phasianidae | |
| 1589c | 20nu | Kalij Pheasant, Lophura leucomelanos | Phasianidae | |
| | | | | |

| BHUT | AN (continu | ned) | | |
|-------|-------------|--|--------------------|--------------|
| 1589d | | Tibetan Snowcock, Tetraogallus tibetanus | Phasianidae | |
| 1589e | 20nu | Tibetan Partridge, Perdix hodgsoniae | Phasianidae | Vol. 67(1) |
| 1589f | 20nu | Snow Partridge, Lerwa lerwa | Phasianidae | Vol. 67(1) |
| 1590 | | Satyr Tragopan, Tragopan satyra | Phasianidae | |
| CARII | BBEAN NE | THERLANDS 2017 November 27 (Endangered Animals) | (SS/1) | \mathbf{A} |
| 88 | \$11.49 | Yellow-shouldered Parrot, Amazona barbadensis (inscr. "Bonaire") | Psittacidae | |
| CENT | RAL AFRI | CA 2018 July 17 (Owls) (MS/4 & SS/1) | | A |
| a | 850fr | Striped Owl, Pseudoscops clamator | Strigidae | |
| b | 850fr | Philippine Eagle-Owl, Bubo philippensis | Strigidae | |
| c | | Barking Owl, Ninox connivens | Strigidae | |
| d | | Australian Masked-Owl, Tyto novaehollandiae | Tytonidae | |
| | | Snowy Owl, Bubo scandiacus | Strigidae | |
| | Margin | R: Ural Owl, Strix uralensis | Strigidae | |
| | | 2018 July 17 (Kingfishers) (MS/4 & SS/1) | | A |
| a | 850fr | Common Kingfisher, Alcedo atthis (on branch) | Alcedinidae | |
| b | | Same species (flying left) | | |
| c | 850fr | Same species (hovering w/ fish) | | |
| d | 850fr | Same species (on branch w/ fish) | | |
| | | Common Kingfisher, Alcedo atthis | Alcedinidae | |
| | Margin | UR: Same species | | |
| | C | Bot: Same species (w/ chicks) | | |
| | | 2018 July 17 (Extinct Species) (MS/4) | | A |
| a | 900fr | Greater Prairie-Chicken, Tympanuchus cupido ssp. cupido | Phasianidae | |
| ESTO | NIA | 2018 March 30 (Bird of the Year) (Single) | | A |
| 863 | | Eurasian Capercaillie, <i>Tetrao urogallus</i> | Phasianidae | 11 |
| | LAND ISLA | | | C |
| 1213 | | Magellanic Cormorant, <i>Phalacrocorax magellanicus</i> | Phalacrocoracidae | |
| 1213 | 31p | | T Haracrocoracidae | |
| 1015 | 2.1 | 2018 April 18 (Wildlife) (Set/4) | ~ | A |
| 1217 | | Macaroni Penguin, Eudyptes chrysolophus (on nest) | Spheniscidae | |
| 1220 | £1.22 | Same species (two birds) | | |
| | T BRITAIN | 1 \ | - | A |
| 3715 | (67p) | Osprey, Pandion haliaetus | Pandionidae | |
| 3716a | | Horiz pair (Sc#3715–16) | | |
| | | 2018 May 11 (Owls) (2ea Strip/5) | | \mathbf{A} |
| 3721 | (67p) | Barn Owl, Tyto alba (adult) | Tytonidae | |
| 3722 | (67p) | Little Owl, Athene noctua (adult) | Strigidae | |
| 3723 | (67p) | Tawny Owl, <i>Strix aluco</i> (adult) | Strigidae | |
| 3724 | (67p) | Short-eared Owl, Asio flammeus (adult) | Strigidae | |
| 3725 | (67p) | Long-eared Owl, Asio madagascariensis (adult) | Strigidae | |
| 3725a | | Horiz Strip/5 (Sc#3721–25) | - | |
| 3726 | (67p) | Barn Owl, <i>Tyto alba</i> (juvenile pair) | Tytonidae | |
| 3727 | (67p) | Little Owl, Athene noctua (juvenile pair) | Strigidae | |
| 3728 | (67p) | Tawny Owl, <i>Strix aluco</i> (juvenile) | Strigidae | |
| 3729 | (67p) | Short-eared Owl, <i>Asio flammeus</i> (juvenile) | Strigidae | |
| 3730 | (67p) | Long-eared Owl, Asio madagascariensis (juvenile) | Strigidae | |
| 3730a | (3/P) | Horiz Strip/5 (Sc#3726–30) | | |
| 2,204 | | | | |

| GUINI | EA-BISSAU | 2018 April 16 (Owls) (MS/5 & SS/1) | | A |
|----------------|------------------|---|--------------------------|--------------|
| a | | Eastern Screech-Owl, Megascops asio | Strigidae | |
| b | | Short-eared Owl, Asio flammeus | Strigidae | |
| c | | Snowy Owl, Bubo scandiacus | Strigidae | |
| d | | Barn Owl, Tyto alba | Tytonidae | |
| e | | Rock Eagle-Owl, Bubo bengalensis | Strigidae | |
| | Margin | LL: Spectacled Owl, <i>Pulsatrix perspicillata</i> (line drawing) | Strigidae | |
| | | LR: Rock Eagle-Owl, Bubo bengalensis (line drawing) | Strigidae | |
| | SS 3300fr | Spectacled Owl, Pulsatrix perspicillata | Strigidae | |
| | Margin | R: Oriental Bay-Owl, <i>Phodilus badius</i> | Tytonidae | |
| | | LL: Barn Owl, <i>Tyto alba</i> (line drawing) | Tytonidae | |
| | | 2018 April 16 (Zoological Museum of St. | Petersburg) (MS/5) | \mathbf{A} |
| b | 640fr | Knobbed Hornbill, <i>Rhyticeros cassidix</i> | Bucerotidae | |
| c | | Gyrfalcon, Falco rusticolus | Falconidae | |
| | | 2018 June 18 (Dinosaurs) (MS/5) | | A |
| a | 640fr | Archaeopteryx lithographica | Archaeopterygidae | |
| | | 2010 June 19 (Weter Dinde) (MC/5 % CC/ | | A |
| N/A | 640fr | 2018 June 18 (Water Birds) (MS/5 & SS/ | | A |
| N/A N/A | | Red-necked Phalarope, <i>Phalaropus lobatus</i> Gray-cowled Wood-Rail, <i>Aramides cajaneus</i> | Scolopacidae Rallidae | |
| N/A | | Wattled Jacana, Jacana jacana | Jacanidae | |
| N/A N/A | | Pheasant-tailed Jacana, <i>Hydrophasianus chirurgus</i> | Jacanidae Jacanidae | |
| N/A | | Hamerkop, Scopus umbretta | Scopidae Scopidae | |
| 1 V / A | | Top: Sarus Crane, Antigone antigone | Gruidae | |
| N/A | | King Eider, Somateria spectabilis | Anatidae | |
| 14/74 | | R: Canada Goose, <i>Branta canadensis</i> | Anatidae | |
| | _ | | | _ |
| ICELA | | 2018 April 26 (Eggbert Olafsson, Natural | <u> </u> | В |
| 1466 | (220K) | European Shag, Phalacrocorax aristotelis | Phalacrocoracidae | |
| LATV | | 2018 June 8 (Birds) (Set/2) | | \mathbf{A} |
| 994 | | Common Redshank, Tringa tetanus | Scolopacidae | |
| 995 | €1.41 | Long-tailed Tit, Aegithalos caudatus | Aegithalidae | |
| MALE | DIVE ISLAN | NDS 2016 January 18 (Lighthouses) (MS/4) | | \mathbf{C} |
| 3561a | | Black-headed Gull, <i>Chroicocephalus ridibundus</i> (UK) | Laridae | Ü |
| 3561b | | Same species (Greece) | | |
| | | | // 0 CC/1) | ъ |
| 26000 | 22 | 2016 May 23 (Owls & Mushrooms) (MS/ | | В |
| 3609a 3609b | | Great Gray Owl, <i>Strix nebulosa</i> Little Owl, <i>Athene noctua</i> | Strigidae Strigidae | |
| 36090 | | | • | |
| | | Barn Owl, Tyto alba | Tytonidae | |
| 3609d | | Long-eared Owl, Asio otus Long-ing Owl, Scalad and albiforing (Extinct) | Strigidae | |
| 3618 | SS 70m Margin | Laughing Owl, <i>Sceloglaux albifacies</i> (Extinct) L: Snowy Owl, <i>Bubo scandiacus</i> | Strigidae | |
| | margill | UR: Great Horned Owl, <i>Bubo virginianus</i> | Strigidae Strigidae | |
| | | LR: Barn Owl, Tyto alba | Tytonidae | |
| | | • | • | |
| | | 2018 June 7 (Flightless Birds) (MS/4 & S | | A |
| a | | Emperor Penguin, Aptenodytes forsteri | Spheniscidae | |
| b | 22m | Ostrich, Struthio camelus | Struthionidae | |
| C | 22m | Okarito Brown Kiwi, Apteryx rowi | Apterygidae | |
| d | 22m | Royal Penguin, <i>Eudyptes schlegeli</i> | Spheniscidae | |

| MALDI | VE ISLAI | NDS (continued) | | |
|---------|---------------|---|-------------------|--------------|
| | | South Island Takahē, Porphyrio hochstetteri | Rallidae | (new) |
| | | LR: Dwarf Cassowary, Casuarius bennetti | Casuariidae | , |
| | C | LL: South Island Takahē, Porphyrio hochstetteri | Rallidae | |
| | | • • | | A |
| | 20m | 2018 June 10 (Sea Birds) (MS/4 & SS/1) | Louidoo | A |
| a 1. | | Black-headed Gull, Chroicocephalus ridibundus | Laridae | |
| b | | Herring Gull, Larus argentatus | Laridae | |
| C | | Dovekie, Alle alle | Alcidae | |
| d | | Steller's Sea-Eagle, Haliaeetus pelagicus | Accipitridae | |
| | | Chinese Crested Tern, Thalasseus bernsteini | Laridae | |
| | Margin | R: Black-headed Gull, Chroicocephalus ridibundus | Laridae | |
| | | 2018 August 1 (Penguins) (MS/4 & SS/1) | | \mathbf{A} |
| a | 20m | Macaroni Penguin, Eudyptes chrysolophus | Spheniscidae | |
| b | 20m | Magellanic Penguin, Spheniscus magellanicus | Spheniscidae | |
| c | 20m | Gentoo Penguin, Pygoscelis papua | Spheniscidae | |
| d | 20m | Yellow-eyed Penguin, Megadyptes antipodes | Spheniscidae | |
| | SS 60m | Little Penguin, Eudyptula minor | Spheniscidae | |
| | Margin | R: Macaroni Penguin, Eudyptes chrysolophus | Spheniscidae | |
| | | LL: Chinstrap Penguin, Pygoscelis antarcticus | Spheniscidae | |
| | | 2018 August 1 (Bee-eaters) (MS/4 & SS/1) | - | Α |
| a | 22m | Southern Carmine Bee-eater, Merops nubicoides | Meropidae | |
| b | | Green Bee-eater, Merops orientalis | Meropidae | |
| c | | Blue-cheeked Bee-eater, Merops persicus | Meropidae | |
| d | | European Bee-eater, Merops apiaster | Meropidae | |
| | | European Bee-eater, Merops apiaster | Meropidae | |
| | | UR & LL: Green Bee-eater, Merops orientalis | Meropidae | |
| | 11111111111 | MR: Blue-tailed Bee-eater, Merops philippinus | Meropidae | |
| | | LR: Rainbow Bee-eater, Merops ornatus | Meropidae | |
| | | • | - | |
| | 20 | 2018 August 1 (Tropical Birds) (MS/4 & S. | | A |
| a | | Lucifer Hummingbird, Calothorax lucifer | Trochilidae | |
| b | | Red-breasted Toucan, Ramphastos discolorus | Ramphastidae | |
| C | | Great Hornbill, Buceros bicornis | Bucerotidae | () |
| d | | White-eared Catbird, Ailuroedus buccoides | Ptilonorhynchidae | (new) |
| | | Red-and-green Macaw, Ara chloropterus | Psittacidae | |
| | Margin | LR: Flame Bowerbird, <i>Sericulus aureus</i> ($\lozenge \& \diamondsuit$) | Ptilonorhynchidae | |
| | | 2018 August 1 (Owls) (MS/4 & SS/1) | | \mathbf{A} |
| a | 20m | Snowy Owl, Bubo scandiacus | Strigidae | |
| b | 20m | Great Gray Owl, Strix nebulosa | Strigidae | |
| c | 20m | Elf Owl, Micrathene whitneyi | Strigidae | |
| d | 20m | Great Horned Owl, Bubo virginianus | Strigidae | |
| | SS 60m | European Scops-Owl, Otus scops | Strigidae | |
| | Margin | LR: Barn Owl, Tyto alba | Tytonidae | |
| MONAC | CO | 2018 June 17 (Bird) (Single) | | A |
| 2935 | €1.30 | European Shag, <i>Phalacrocorax aristotelis</i> | Phalacrocoracidae | |
| MOZAN | IBIQUE | 2018 June 15 (Hummingbirds) (MS/4 & SS | S/1) | A |
| a | 116m | Violet-tailed Sylph, Aglaiocercus coelestis | Trochilidae | |
| b | 116m | Purple-throated Carib, <i>Eulampis jugularis</i> | Trochilidae | |
| c | | Allen's Hummingbird, Selasphorus sasin | Trochilidae | |
| d | | Rufous Hummingbird, Selasphorus rufus | Trochilidae | |
| | 2.20111 | | | |

| MOZA | MBIQUE (| (continued) | | |
|-------|----------|--|--------------------------|---------------|
| MOZA | _ | Anna's Hummingbird, <i>Calypte anna</i> | Trochilidae | |
| | | LL: Anna's Hummingbird, Calypte anna | Trochilidae | |
| | | UR: Mexican Violetear, Colibri thalassinus | Trochilidae | |
| | | (previously known as Green-Violet-ear) | | |
| | | 2018 June 15 (Penguins) (MS/4 & SS/1) | | A |
| a | 116m | Yellow-eyed Penguin, Megadyptes antipodes | Spheniscidae | |
| b | 116m | Emperor Penguin, Aptenodytes forsteri | Spheniscidae | |
| c | 116m | Humboldt Penguin, Spheniscus humboldti | Spheniscidae | |
| d | | Adélie Penguin, Pygoscelis adeliae | Spheniscidae | |
| | SS 300m | King Penguin, Aptenodytes patagonicus | Spheniscidae | |
| | Margin | LL: Emperor Penguin, Aptenodytes forsteri | Spheniscidae | |
| | | Top: Fiordland Penguin, Eudyptes pachyrhynchus | Spheniscidae | |
| | | UR: Gentoo Penguin, Pygoscelis papua | Spheniscidae | |
| | | LR: Erect-crested Penguin, Eudyptes sclateri | Spheniscidae | |
| | | 2018 June 15 (Global Warming) (MS/4 & | | A |
| c | | Atlantic Puffin, Fratercula arctica | Alcidae | |
| | SS 300m | Adélie Penguin, Pygoscelis adeliae | Spheniscidae | |
| NEW (| CALEDON | IA 2017 May 4 (Stork Delivering a Baby) (Set | /2) | В |
| 1227 | 110fr | White Stork, Ciconia ciconia (w/ scratch off panel) (UL: star) | Ciconiidae | |
| 1228 | 110fr | Same species (w/ scratch off panel) (UL: heart) | | |
| | | 2017 October 17 (Birds of Prey) (MS/4) | | A |
| 1234a | 110fr | Osprey, Pandion haliaetus | Pandionidae | |
| 1234b | 110fr | Swamp Harrier, Circus approximans | Accipitridae | |
| 1234c | 110fr | New Caledonia Goshawk, Accipiter haplochrous | Accipitridae | Vol. 66(4) |
| 1234d | 110fr | Whistling Kite, Haliastur sphenurus | Accipitridae | |
| NEW 2 | ZEALAND | 2018 July 4 (Kiwis) (SS/5 & Bklt/6) (circu | lar) | A |
| 2806 | \$1.20 | North Island Brown Kiwi, Apteryx mantelli | Apterygidae | |
| 2806a | | Bklt/6 (Sc#2806) | | |
| 2807 | \$1.20 | Great Spotted Kiwi, Apteryx haastii | Apterygidae | |
| 2808 | | Little Kiwi, Apteryx owenii | Apterygidae | |
| 2809 | \$3 | Southern Brown Kiwi, Apteryx australis | Apterygidae | |
| 2810 | \$3.60 | Okarito Brown Kiwi, Apteryx rowi | Apterygidae | |
| 2810a | | SS/5 (Sc#2806–10) | | |
| | | 2018 August 1 (Native Animals Threatened | d By Predators) (S | S/5) A |
| 2811 | \$1.20 | Stitchbird, Notiomystis cincta | Notiomystidae | |
| | | South Island Saddleback, Philesturnus carunculatus | Callaeidae | |
| | | Tui, Prosthemadera novaeseelandiae | Meliphagidae | |
| 2812 | \$1.20 | Blue Duck, Hymenolaimus malacorhynchos | Anatidae | |
| | | Great Egret, Ardea alba | Ardeidae | |
| | | Sacred Kingfisher, Todiramphus sanctus | Alcedinidae | |
| 2813 | \$2.40 | New Zealand Pigeon, Hemiphaga novaeseelandiae | Columbidae | |
| | | Weka, Gallirallus australis | Rallidae | |
| 2814 | \$3.00 | Whitehead, Mohoua albicilla | Mohouidae | Vol. 67(3) |
| | | Tomtit, Petroica macrocephala | Petroicidae | Vol. 67(3) |
| | | New Zealand Robin, Petroica australis ssp. longipes | Petroicidae | |
| | | Chatham Islands Parakeet, Cyanoramphus forbesi | Psittaculidae | Vol. 67(3) |
| 2815 | | | | |
| 2013 | \$3.60 | Southern Boobook, Ninox novaeseelandiae | Strigidae | |
| 2013 | \$3.60 | Southern Boobook, <i>Ninox novaeseelandiae</i> Great Spotted Kiwi, <i>Apteryx haastii</i> | Strigidae Apterygidae | |

| SIERRA LEONE | 2017 March 30 (Birds of Prey) (MS/4 & SS | 8/1) | A |
|-----------------|--|-------------------|---|
| 4173a 9800le | Palm-nut Vulture, Gypohierax angolensis | Accipitridae | |
| 4173b 9800le | African Harrier-Hawk, Polyboroides typus | Accipitridae | |
| | Pallid Harrier, Circus macrourus | Accipitridae | |
| | Red-necked Buzzard, Buteo auguralis | Accipitridae | |
| | Bateleur, Terathopius ecaudatus | Accipitridae | |
| Margin | UL & LR: Long-crested Eagle, Lophaetus occipitalis | Accipitridae | |
| | LL: Red-necked Buzzard, Buteo auguralis | Accipitridae | |
| | 2017 March 30 (Seabirds) (MS/4 & SS/1) | | A |
| 4174a 9800le | Black-headed Gull, <i>Chroicocephalus ridibundus</i> (Cap: <i>Larus r.</i>) | Laridae | |
| | Sooty Shearwater, Ardenna grisea | Procellariidae | |
| | Lesser Crested Tern, Thalasseus bengalensis | Laridae | |
| | European Shag, Phalacrocorax aristotelis | Phalacrocoracidae | |
| 4193 SS 40000le | Brown Booby, Sula leucogaster | Sulidae | |
| Margin | LR: Same species | | |
| - | LL: Reed Cormorant, Microcarbo africanus | Phalacrocoracidae | |
| | 2017 March 30 (Owls) (MS/4 & SS/1) | | A |
| 4175a 9800le | Northern White-faced Owl, <i>Ptilopsis leucotis</i> | Strigidae | |
| | Barn Owl, Tyto alba | Tytonidae | |
| | Fraser's Eagle-Owl, Bubo poensis | Strigidae | |
| | African Wood-Owl, Strix woodfordii | Strigidae | |
| | Verreaux's Eagle-Owl, Bubo lacteus | Strigidae | |
| | LL: Barn Owl, Tyto alba | Tytonidae | |
| C | LR: Pearl-spotted Owlet, Glaucidium perlatum | Strigidae | |
| | 2017 March 30 (Global Warming) (MS/4) | | A |
| 4181a 9800le | King Penguin, Aptenodytes patagonicus | Spheniscidae | А |
| | Atlantic Puffin, Fratercula arctica | Alcidae | |
| 700010 | | | |
| 4205 - 00001 - | 2017 March 30 (Endemic Animals of Indon | | A |
| 4205a 9800le | Green Peafowl, Pavo muticus | Phasianidae | |
| | 2017 May 30 (Lesser Flamingo) (WWF) (M | IS/4 & SS/1) | A |
| 4249a 9800le | Lesser Flamingo, <i>Phoeniconaias minor</i> (two touching beaks) | Phoenicopteridae | |
| 4249b 9800le | Same species (three in flight) | | |
| | Same species (two feeding) | | |
| | Same species (one in water, one grooming) | | |
| | Top: Same species | | |
| | Lesser Flamingo, Phoeniconaias minor | Phoenicopteridae | |
| Margin | R: Same species (w/ chick) | | |
| | 2017 June 30 (Hornbills) (MS/4 & SS/1) | | A |
| 4345a 9800le | Silvery-cheeked Hornbill, Bycanistes brevis | Bucerotidae | |
| 4345b 9800le | Malabar Pied-Hornbill, Anthracoceros coronatus | Bucerotidae | |
| 4345c 9800le | Knobbed Hornbill, Rhyticeros cassidix (Cap: Aceros c.) | Bucerotidae | |
| 4345d 9800le | Rufous Hornbill, Buceros hydrocorax | Bucerotidae | |
| 4365 SS 40000le | Southern Ground-Hornbill, Bucorvus leadbeateri | Bucorvidae | |
| Margin | UR & LL: Rhinoceros Hornbill, Buceros rhinoceros | Bucerotidae | |
| | MR: Wrinkled Hornbill, Rhabdotorrhinus corrugatus | Bucerotidae | |
| | (Cap/Syn: Aceros corrugatus) | | |
| | | | |

| SIFRRA | LEONE | (continued) 2017 June 30 (Sunbirds) (MS/4 & SS/1) | | A |
|------------------|---------|--|--------------------------|--------------------------|
| 4346a | | Variable Sunbird, Cinnyris venustus | Nectariniidae | A |
| 4346b | | Orange-breasted Sunbird, Anthobaphes violacea | Nectariniidae | |
| 4346c | | Purple Sunbird, Cinnyris asiaticus | Nectariniidae | |
| 4346d | | Crimson Sunbird, Aethopyga siparaja | Nectariniidae | |
| 4366 SS | 40000le | Regal Sunbird, Cinnyris regius | Nectariniidae | |
| | Margin | R: Same species | | |
| | | LL: White-bellied Sunbird, Cinnyris talatala | Nectariniidae | |
| | | Bot: Brown-throated Sunbird, Anthreptes malacensis | Nectariniidae | |
| | | 2017 June 30 (Owls) (MS/4 & SS/1) | | \mathbf{A} |
| 4347a | 9800le | Spotted Wood-Owl, Strix seloputo | Strigidae | |
| 4347b | | Northern Saw-Whet Owl, Aegolius acadicus | Strigidae | |
| 4347c | | Northern Pygmy-Owl, Glaucidium gnoma | Strigidae | |
| 4347d | 9800le | | Tytonidae | |
| 4367 SS | | Spectacled Owl, Pulsatrix perspicillata | Strigidae | |
| | Margin | R: Same species | | |
| | | 2017 June 30 (Parrots) (MS/4 & SS/1) | | \mathbf{A} |
| 4348a | | Jandays Parakeet, Aratinga jandaya | Psittacidae | |
| 4384b | | Hyacinth Macaw, Anodorhynchus hyacinthinus | Psittacidae | |
| 4384c | | Gray Parrot, Psittacus erithacus | Psittacidae | |
| 4384d | | Rainbow Lorikeet, Trichoglossus haematodus | Psittaculidae | |
| 4368 SS | | 3 3 * | Psittaculidae | |
| | Margin | LL: Same species | C 1 | |
| | | UR: Red-tailed Black Cockatoo, Calyptorhynchus banksii | Cacatuidae Cacatuidae | |
| | | LR: Major Mitchell's Cockatoo, Cacatua leadbeateri | Cacatuidae | |
| | | 2017 June 30 (Bee-eaters) (MS/4 & SS/1) | | A |
| 4349a | | Blue-headed Bee-eater, Merops muelleri | Meropidae | |
| 4349b | | Rainbow Bee-eater, Merops ornatus | Meropidae | |
| 4349c | 9800le | , 1 | Meropidae | |
| 4349d | | White-fronted Bee-eater, Merops bullockoides | Meropidae | |
| 4309 33 | | Red-bearded Bee-eater, <i>Nyctyornis amictus</i> UR: Same species | Meropidae | |
| | Margin | LL: White-fronted Bee-eater, <i>Merops bullockoides</i> | Meropidae | |
| | | • | - | |
| | | 2017 June 30 (Rare Birds of Sierra Leone) | | • |
| 4350a | 9800le | Cassin's Honeyguide, Prodotiscus insignis | Indicatoridae | Vol. 66(3) |
| 4350b | 9800le | Bristle-nosed Barbet, Gymnobucco pelli | Lybiidae | Vol. 66(3) |
| 4350c | 9800le | Black Dwarf Hornbill, <i>Horizocerus hartlaubi</i> | Bucerotidae | Vial 66(2) |
| 4350d 4371 SS | 9800le | Black Spinetail, <i>Telacanthura melanopygia</i> Nkulengu Rail, <i>Himantornis haematopus</i> | Apodidae Rallidae | Vol. 66(3) Vol. 66(3) |
| 43/1 33 | | · · · · · · · · · · · · · · · · · · · | Columbidae | v 01. 00(3) |
| | Margin | | | |
| 4.4201 | 00001 | 2017 August 30 (135th anniv. Charles Dar | | A |
| 4430b | 9800le | UL: Medium Tree-Finch, Camarhynchus pauper (head) | Thraupidae | |
| | | UR: Large Ground-Finch, Geospiza magnirostris (head) | Thraupidae | |
| | | LL: Green Warbler-Finch, Certhidea olivacea (head) LP: Woodpecker Finch, Camarkynchus pallidus (head) | Thraupidae | |
| | | LR: Woodpecker Finch, Camarhynchus pallidus (head) | Thraupidae | |
| | | 2017 August 30 (Melting of Antarctica) (M | | A |
| 4432a | 9800le | Emperor Penguin, Aptenodytes forsteri (adult & juvenile) | Spheniscidae | |
| | | | | |

| SIERI | RA LEONE | (continued) 2017 August 30 (Birds of Prey) (MS/4 & S | S/1) | \mathbf{A} |
|-------|------------|---|-------------------|--------------|
| 4434a | 9800le | Savanna Hawk, Buteogallus meridionalis | Accipitridae | |
| 4434b | 9800le | Cinereous Vulture, Aegypius monachus | Accipitridae | |
| 4434c | 9800le | Jerdon's Baza, Aviceda jerdoni | Accipitridae | |
| 4434d | | Variable Hawk, Geranoaetus polyosoma | Accipitridae | |
| 4453 | SS 40000le | Himalayan Griffon, Gyps himalayensis | Accipitridae | |
| | Margin | LL: White-eyed Buzzard, Butastur teesa | Accipitridae | Vol. 66(4) |
| | | Top: African Fish Eagle, Haliaeetus vocifer | Accipitridae | |
| | | UR: Madagascan Serpent Eagle, Eutriorchis astur | Accipitridae | |
| | | 2017 August 30 (Endangered Species of Cl | nina) (MS/4) | S A |
| 4459a | 9800le | Black-necked Crane, Grus nigricollis | Gruidae | |
| | | 2017 September 29 (Penguins) (MS/4 & S | S/1) | \mathbf{A} |
| 4464a | 9800le | Southern Rockhopper Penguin, Eudyptes chrysocome | Spheniscidae | |
| 4464b | | Gentoo Penguin, Pygoscelis papua | Spheniscidae | |
| 4464c | | Adélie Penguin, Pygoscelis adeliae | Spheniscidae | |
| 4464d | | Magellanic Penguin, Spheniscus magellanicus | Spheniscidae | |
| | Margin | LL: King Penguin, Aptenodytes patagonicus (w/ chick) | Spheniscidae | |
| | | LR: Southern Rockhopper Penguin, Eudyptes chrysocome | Spheniscidae | |
| 4484 | | Magellanic Penguin, Spheniscus magellanicus | Spheniscidae | |
| | Margin | LL: Adélie Penguin, Pygoscelis adeliae | Spheniscidae | |
| | | LR: Chinstrap Penguin, Pygoscelis antarcticus | Spheniscidae | |
| | | 2017 September 29 (Water Birds) (MS/4 & | z SS/1) | \mathbf{A} |
| 4465a | 9800le | African Darter, Anhinga rufa | Anhingidae | |
| 4465b | | Northern Gannet, Morus bassanus | Sulidae | |
| 4465c | 9800le | African Finfoot, Podica senegalensis | Heliornithidae | |
| 4465d | | Brown Booby, Sula leucogaster | Sulidae | |
| | Margin | LL: Egyptian Goose, Alopochen aegyptiaca | Anatidae | |
| | | LR: Spur-winged Goose, Plectropterus gambensis | Anatidae | |
| 4485 | | Pink-backed Pelican, Pelecanus rufescens | Pelecanidae | |
| | Margin | LL: Greater Flamingo, <i>Phoenicopterus roseus</i> | Phoenicopteridae | |
| | | Ctr: Little Grebe, Tachybaptus ruficollis | Podicipedidae | |
| | | MR: African Spoonbill, Platalea alba | Threskiornithidae | ; |
| | | LR: Gull-billed Tern, Gelochelidon nilotica | Laridae | |
| | | 2017 September 29 (Endangered Species) | | \mathbf{A} |
| 4474d | 9800le | Blue-throated Macaw, Ara glaucogularis | Psittacidae | |
| | | 2017 September 29 (National Parks) (MS/4 | • | A |
| 4475a | 9800le | Splendid Starling, Lamprotornis splendidus | Sturnidae | |
| 4495 | SS 40000le | Giant Kingfisher, Megaceryle maxima | Alcedinidae | |
| | Margin | LR: White-eared Bulbul, Pycnonotus leucotis | Pycnonotidae | |
| | | 2017 November 30 (Greatest Polar Explore | ers) (MS/4) | В |
| 4550a | 9800le | Emperor Penguin, Aptenodytes forsteri (w/ Richard E. Byrd) | Spheniscidae | |
| | | 2017 December 29 (Owls) (MS/4 & SS/1) | | A* |
| 4591a | | Red-chested Owlet, Glaucidium tephronotum | Strigidae | |
| 4591b | | African Wood-Owl, Strix woodfordii | Strigidae | |
| 4591c | | Barn Owl, Tyto alba | Tytonidae | |
| 4591d | 9800le | Pearl-spotted Owlet, Glaucidium perlatum | Strigidae | |

| SIERRA LEONE | (continued) | | |
|---------------------------------|--|----------------------------|--------------|
| | Northern White-faced Owl, <i>Ptilopsis leucotis</i> | Strigidae | |
| | UL: Pel's Fishing Owl, Scotopelia peli | Strigidae | |
| C | UR: Verreaux's Eagle-owl, Bubo lacteus | Strigidae | |
| | Bot: Barn Owl, Tyto alba | Tytonidae | |
| | 2017 December 29 (Doves) (MS/4 & SS/1 |) | A |
| 4592a 9800le | Namaqua Dove, Oena capensis | Columbidae | |
| | European Turtle-Dove, Streptopelia turtur | Columbidae | |
| 4592c 9800le | Laughing Dove, Streptopelia senegalensis (Cap: Spilopelia s.) | Columbidae | |
| | Tambourine Dove, Turtur tympanistria | Columbidae | |
| | Red-eyed Dove, Streptopelia semitorquata | Columbidae | |
| Margin | L: Blue-headed Wood Dove, Turtur brehmeri | Columbidae | |
| | LR: Tambourine Dove, Turtur tympanistria | Columbidae | |
| | 2017 December 29 (Hawks) (MS/4 & SS/1 | | A |
| | Bat Hawk, Macheiramphus alcinus | Accipitridae | |
| | Dark Chanting-Goshawk, Melierax metabates | Accipitridae | |
| | African Cuckoo-Hawk, Aviceda cuculoides | Accipitridae | |
| | African Harrier-Hawk, Polyboroides typus | Accipitridae | |
| | Dark Chanting-Goshawk, Melierax metabates | Accipitridae | |
| Margin | LL: Gabar Goshawk, Micronisus gabar | Accipitridae | |
| | LR: African Harrier-hawk, Polyboroides typus | Accipitridae | |
| | 2017 December 29 (Cuckoos) (MS/4 & SS | 15 | \mathbf{A} |
| | African Emerald Cuckoo, Chrysococcyx cupreus | Cuculidae | |
| | Great Spotted Cuckoo, Clamator glandarius | Cuculidae | |
| | Levaillant's Cuckoo, Clamator levaillantii | Cuculidae | |
| | Diederik Cuckoo, Chrysococcyx caprius | Cuculidae | |
| | Common Cuckoo, Cuculus canorus | Cuculidae | |
| Margin | ML & LL: Senegal Coucal, Centropus senegalensis | Cuculidae | |
| | MR & LR: Common Cuckoo, Cuculus canorus | Cuculidae | |
| 4505 | 2017 December 29 (Kingfishers) (MS/4 & | | A |
| | Chocolate-backed Kingfisher, Halcyon badia | Alcedinidae | |
| | Pied Kingfisher, Ceryle rudis | Alcedinidae | |
| | Giant Kingfisher, Megaceryle maximus | Alcedinidae | |
| 4595d 9800le 4615 SS 40000le | Shining-blue Kingfisher, <i>Alcedo quadribrachys</i> African Pygmy-Kingfisher, <i>Ispidina picta</i> | Alcedinidae Alcedinidae | |
| Margin | | Alcedinidae | |
| Margin | LR: Woodland Kingfisher, <i>Halcyon senegalensis</i> | Alcedinidae | |
| | | | |
| 4596a 9800le | 2017 December 29 (Indigobirds) (MS/4 & Compron Indigobird, Vidua comprunensis | Viduidae | A |
| 4596b 9800le | Cameron Indigobird, <i>Vidua camerunensis</i> Wilson's Indigobird, <i>Vidua wilsoni</i> | Viduidae | |
| 4596c 9800le | Variable Indigobird, <i>Vidua funereal</i> | Viduidae | |
| 4596d 9800le | Baka Indigobird, Vidua larvaticola | Viduidae | |
| 4616 SS 40000le | Village Indigobird, Vidua chalybeate | Viduidae | |
| Margin | Same species | | |
| Z. | • | 1) | В |
| 4620 SS 400001e | 2017 December 29 (First Solar Train) (SS/Scarlet Myzomela, <i>Myzomela sanguinolenta</i> | Meliphagidae | D |
| 1020 55 4000010 | Source ingeomore, mycomera sangumorena | 1.1011pilusidae | |

NEW BIRDS IN THE PHILATELIC AVIARY

Charles E. Braun, BU1364

Corrections

In Vol. 67(3), the Persian Nuthatch stamp is from Kyrgyzstan, not Kazakhstan.

See the listing following the Clements 2018 Taxonomic Update on page 317 for changes to identifications affected by the Clements revisions.





VELVET SCOTER, Melanitta fusca Anatidae

Finland (Åland Islands), 1987 January 2, Sc#21, 12m

Length: 20 to 23 inches, migratory. The male (R) is black with white eye and wing patches and an orange and yellow bill. The female (L) is brown.

Habitat: Breeds in arctic tundra and boreal forest. Winters at sea.

Range: Breeds from Alaska to Hudson Bay. Winters off the North American coasts. Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. *Handbook of the Birds of the World. Volume 1*.



SOUTH ISLAND TAKAHĒ, Porphyrio hochstetteri Rallidae

Maldive Islands, 2018 July 6, not yet cataloged, 70r SS

Length: 23 inches, sexes alike, resident. Greenish brown above and purplish blue head and below with a white undertail.

Habitat: Highland grassland and scrub forest.

Range: South Island, New Zealand.

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

World, Volume 3.



†SAINT HELENA HOOPOE, Upupa antaios Upupidae

Guinea, 2018 August 8, not yet cataloged, 12500fr

Length: About 16 inches, sexes alike, resident. Pinkish brown with a black-spotted crest and black-and-white wings and tail.

Habitat: Lightly vegetated areas.

Range: Formerly St. Helena Island, South Atlantic. Extinct early 16th century.

Reference: Olson, S. L. Paleornithology of St. Helena Island, South Atlantic Ocean.



SPOT-BACKED PUFFBIRD, Nystalus maculatus Bucconidae

Paraguay, 2018 September 21, not yet cataloged, 3000g

Length: 7 inches, sexes alike, resident. Spotted brown above and spotted white below with an orange-rufous throat.

Habitat: Semi-deciduous woodland, savanna, scrub, and farms.

Range: Eastern-to-central Brazil and southern Bolivia to northwestern Argentina. Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. *Handbook of the Birds of the World, Volume 7*.



GRAYISH PICULET, Picumnus granadensis Picidae

Colombia, 2018 August 24, not yet cataloged, 1000p

Length: 4 inches, sexes similar, resident. Gray-brown above and whitish below with a spotted black crown.

Habitat: Forest edges, scrub, and woodland.

Range: Northwestern Colombia.

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

World, Volume 7.



OLIVE-CROWNED CRESCENTCHEST, Melanopareia maximiliani

Melanopareiidae

Paraguay, 2018 September 21, not yet cataloged, 2000g

Length: 6 inches, sexes alike, resident. Olive-brown above and ochraceous

below, with a black face and a deep buff throat.

Habitat: Arid scrub and grassy areas.

Range: Western Bolivia to northern Argentina.

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

of the World, Volume 8.



APICAL FLYCATCHER, Myiarchus apicalis Tyrannidae

Colombia, 2018 August 24, not yet cataloged, 1000p

Length: 7 inches, sexes similar, resident. Darkish olive above and yellow below with

gray throat and breast and whitish tail tips.

Habitat: Scrubby vegetation in dry valleys.

Range: West-central Colombia.

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

World, Volume 9.



TAN-CAPPED CATBIRD, Ailuroedus geislerorum Ptilonorhynchidae

Maldive Islands, 2018 August 8, not yet cataloged, 20m

(Cap: Ailuroedus buccoides)

Length: 10 inches, sexes alike, resident. Green above and black-spotted white below with a pale-tan cap and white face.

Habitat: Forest and forest edges.

Range: Northern New Guinea and Yapen Island.

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

of the World, Volume 14.



CHESTNUT-EARED LAUGHINGTHRUSH, Ianthocincla konkakinhensis

Leiothrichidae (Cap: Garrulax konkakinhensis)

Vietnam, 2018 August 18, not yet cataloged, 3000d

Length: 10 inches, sexes alike, resident. Black-barred olive-buff above and black-spotted buff below with a black crown, gray supercilium, and chestnut ears.

Habitat: Broadleaf forest, bamboo, and forest edges,

Range: Central highlands of Vietnam and adjacent Laos.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 12.



CHIVI VIREO, Vireo chivi Vireonidae

Venezuela, 1968 December 19, Sc#C1005, 1b

Length: 5 to 6 inches, sexes alike, migratory. Greenish-gray above and whitish below with a gray crown, white superciliary and yellowish flanks.

Habitat: Forest and forest edges.

Range: Breeds from Colombia to Peru and Brazil. Winters from Ecuador to northern Argentina.

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



TAIWAN THRUSH, Turdus niveiceps Turdidae

China (Taiwan), 2009 January 15, Sc#3846, \$9

Length: 9 inches, resident. The male (shown) is blackish above and orange below with a white hood. The female is brown above and orange below with a buff stripe behind the eye and a streaky throat.

Habitat: Forest and forest edges.

Range: Taiwan.

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

World, Volume 15.



PURPLE-RUMPED SUNBIRD, Leptocoma zeylonica Nectariniidae

Previously on a local issue from Eynhallow

Maldive Islands, 2018 April 10, not yet cataloged, 60r SS

Length: 4 inches, resident. The male (shown) is chestnut-maroon above and yellow below with a metallic green crown, purple throat and rump, and yellowish-white undertail. The female is olive-tinged brown above and yellow and white below.

Habitat: Forest, forest edges, farms, and gardens.

Range: Peninsular India to Sri Lanka and western Bangladesh.

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

World, Volume 13.



YELLOW-EARED SPIDERHUNTER, *Arachnothera chrysogenys* Nectariniidae Maldive Islands, 2018 April 10, not yet cataloged, 20r

Length: 8 inches, sexes similar, resident. Olive-green above and greenish-streaked yellowish-green below with yellow eye rings and ear patches.

Habitat: Forest, forest edges, mangroves, and gardens.

Range: Southern Thailand to Borneo and western Java.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. *Handbook of the Birds of the World, Volume 13*.



MOURNING WARBLER, *Geothlypis philadelphia* Parulidae Niger, 2018 June 26, not yet cataloged, 3300fr SS (LR)

Length: 5 inches, migratory. The male (shown) is olive-green above and yellow below with a dark gray hood. The female has a pale gray hood. Habitat: Breeds in forest clearings with dense undergrowth. Winters in dense scrub.

Range: Breeds in west-central and southern Canada. Winters from Nicaragua

to northwestern South America.

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



BLACK-AND-GOLD TANAGER, Bangsia melanochlamys Thraupidae

Colombia, 2018 August 24, not yet cataloged, 1000p

Length: 6 inches, sexes similar, resident. Dull black head and above and bright golden-yellow below.

Habitat: Humid mountain forest.

Range: Central Colombia.

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

World, Volume 16.



MULTICOLORED TANAGER, Chlorochrysa nitidissima Thraupidae

Colombia, 2018 August 24, not yet cataloged, 1000p

Length: 5 inches, resident. The male (shown) is green above and blue below with a yellow face and back, glistening golden-green nape and a black ear patch. The female is paler below with a blackish-chestnut ear patch.

Habitat: Montane forest and woodland.

Range: Central Colombia.

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

World, Volume 16.



GOLDEN-NAPED TANAGER, Tangara ruficervix Thraupidae

Colombia, 2018 August 24, not yet cataloged, 1000p

Length: 5 inches, sexes similar, resident. Blue with a golden nape and buff lower belly.

Habitat: Humid forest borders and shrubby pastures.

Range: Central Colombia to Bolivia.

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

World, Volume 16.

CLEMENTS 2018 UPDATE

Charles E. Braun, BU1364 & Jack R. Congrove, BU1424

The Clements 2018 taxonomic update was released by Cornell in August. Changes ranged from adding an order to minor typographic corrections. The revised taxonomic order is given in the table below.

One new order is added (**Musophagiformes**) for the Turacos (Musophagidae). Consequently, we now recognize 41 extant orders. Two new families are added this year: **Oceanitidae** (Southern Storm-Petrels) and **Platylophidae** (Crested Shrikejay—formerly Crested Jay). The total number of extant families in the *eBird/Clements Checklist* increases to 250, with an additional extinct family (Mohoidae: Hawaiian Honeyeaters), for a total of 251 families.

The listing also extensively revises the sequence of orders among the non-passerines, and the sequence of families in the nine-primaried oscines.

The table below shows the revised order of the 250 extant families accepted by Clements Checklist. The names of orders are in **BOLD CAPITAL** lettering and changes are noted in **bold blue** font. An additional extinct family (†Mohoidae: Hawaiian Honeyeaters) is listed. The listing also provides the quantity of families in each order (in parentheses, after the name of each order), and the quantity of species in each family (in parentheses, after the name of each family).

| No. | Family | Members | No. | Family | Members |
|------|------------------|--------------------------------------|------|---------------------------|----------------------------------|
| 140. | STRUTHIONIFORM | | 110. | OTIDIFORMES (1) | members |
| 1 | Struthionidae | Ostrich (2) | 19 | Otididae | Bustards (26) |
| | RHEIFORMES (1) | Common (=) | | MUSOPHAGIFORMES (1) (new) | |
| 2 | Rheidae | Rheas (2) | 20 | Musophagidae | Turacos (23) |
| | TINAMIFORMES (1 | | | CUCULIFORMES (1) | |
| 3 | Tinamidae | Tinamous (47) | 21 | Cuculidae | Cuckoos (146) |
| | CASUARIIFORMES | ` ' | | CAPRIMULGIFORME | S (8) |
| 4 | Casuariidae | Cassowaries & Emu (4) | 22 | Podargidae | Frogmouths (15) |
| | APTERYGIFORME | S (1) | 23 | Caprimulgidae | Nightjars & Allies (98) |
| 5 | Apterygidae | Kiwis (5) | 24 | Nyctibiidae | Potoos (7) |
| | ANSERIFORMES (| 3) | 25 | Steatornithidae | Oilbird (1) |
| 6 | Anhimidae | Screamers (3) | 26 | Aegothelidae | Owlet-Nightjars (10) |
| 7 | Anseranatidae | Magpie Goose (1) | 27 | Apodidae | Swifts (112) |
| 8 | Anatidae | Ducks, Geese, & Waterfowl (168) | 28 | Hemiprocnidae | Treeswifts (4) |
| | GALLIFORMES (5) | | 29 | Trochilidae | Hummingbirds (347) |
| 9 | Megapodiidae | Megapodes (22) | | OPISTHOCOMIFORMES (1) | |
| 10 | Cracidae | Guans, Chachalacas, & Curassows (54) | 30 | Opisthocomidae | Hoatzin (1) |
| 11 | Numididae | Guineafowl (6) | | GRUIFORMES (6) | |
| 12 | Odontophoridae | New World Quail (33) | 31 | Sarothruridae | Flufftails (12) |
| 13 | Phasianidae | Pheasants, Grouse, & Allies (177) | 32 | Rallidae | Rails, Gallinules, & Coots (144) |
| | PHOENICOPTERIF | FORMES (1) | 33 | Heliornithidae | Finfoots (3) |
| 14 | Phoenicopteridae | Flamingos (6) | 34 | Aramidae | Limpkin (1) |
| | PODICIPEDIFORM | ES (1) | 35 | Psophiidae | Trumpeters (3) |
| 15 | Podicipedidae | Grebes (22) | 36 | Gruidae | Cranes (15) |
| | COLUMBIFORMES | S (1) | | CHARADRIIFORMES | (19) |
| 16 | Columbidae | Pigeons & Doves (342) | 37 | Chionidae | Sheathbills (2) |
| | MESITORNITHIFO | RMES (1) | 38 | Pluvianellidae | Magellanic Plover (1) |
| 17 | Mesitornithidae | Mesites (3) | 39 | Burhinidae | Thick-knees (10) |
| | PTEROCLIFORME | S (1) | 40 | Pluvianidae | Egyptian Plover (1) |
| 18 | Pteroclidae | Sandgrouse (16) | 41 | Recurvirostridae | Stilts & Avocets (9) |

| Na | Family | Mambara | l _N | Family. | Mambara |
|-----|-------------------|---------------------------------|----------------|--------------------|-----------------------------------|
| No. | Family | Members | NO. | Family | Members |
| | CHARADRIIFORMES | , | | STRIGIFORMES (2) | T |
| 42 | Ibidorhynchidae | Ibisbill (1) | 79 | Tytonidae | Barn-Owls (18) |
| 43 | Haematopodidae | Oystercatchers (12) | 80 | Strigidae | Owls (209) |
| 44 | Charadriidae | Plovers & Lapwings (67) | | COLIIFORMES (1) | |
| 45 | Pedionomidae | Plains-wanderer (1) | 81 | Coliidae | Mousebirds (6) |
| 46 | Thinocoridae | Seedsnipes (4) | | LEPTOSOMIFORMES | (1) |
| 47 | Rostratulidae | Painted-Snipes (3) | 82 | Leptosomidae | Cuckoo-Roller (1) |
| 48 | Jacanidae | Jacanas (8) | | TROGONIFORMES (1 | |
| 49 | Scolopacidae | Sandpipers & Allies (97) | 83 | Trogonidae | Trogons (44) |
| 50 | Turnicidae | Buttonquail (16) | | BUCEROTIFORMES (| 4) |
| 51 | Dromadidae | Crab Plover (1) | 84 | Upupidae | Hoopoes (2) |
| 52 | Glareolidae | Pratincoles & Coursers (17) | 85 | Phoeniculidae | Woodhoopoes & Scimitar-bills (8) |
| 53 | Stercorariidae | Skuas & Jaegers (7) | 86 | Bucorvidae | Ground-Hornbills (2) |
| 54 | Alcidae | Auks, Murres, & Puffins (25) | 87 | Bucerotidae | Hornbills (59) |
| 55 | Laridae | Gulls, Terns, & Skimmers (98) | | CORACIIFORMES (6) | |
| | EURYPYGIFORMES | (2) | 88 | Todidae | Todies (5) |
| 56 | Rhynochetidae | Kagu (1) | 89 | Momotidae | Motmots (14) |
| 57 | Eurypygidae | Sunbittern (1) | 90 | Alcedinidae | Kingfishers (117) |
| | PHAETHONTIFORM | ES (1) | 91 | Meropidae | Bee-eaters (28) |
| 58 | Phaethontidae | Tropicbirds (3) | 92 | Coraciidae | Rollers (12) |
| | GAVIIFORMES (1) | | 93 | Brachypteraciidae | Ground-Rollers (5) |
| 59 | Gaviidae | Loons (5) | | GALBULIFORMES (2) | |
| | SPHENISCIFORMES | 5 (1) | 94 | Bucconidae | Puffbirds (36) |
| 60 | Spheniscidae | Penguins (18) | 95 | Galbulidae | Jacamars (18) |
| | PROCELLARIIFORM | IES (4) | | PICIFORMES (7) | |
| 61 | Diomedeidae | Albatrosses (15) | 96 | Lybiidae | African Barbets (41) |
| 62 | Oceanitidae (new) | Southern Storm Petrels (9) | 97 | Megalaimidae | Asian Barbets (34) |
| 63 | Hydrobatidae | Storm-Petrels (18) | 98 | Capitonidae | New World Barbets (14) |
| 64 | Procellariidae | Shearwaters & Petrels (92) | 99 | Semnornithidae | Toucan-Barbets (2) |
| | CICONIIFORMES (1) | | 100 | Ramphastidae | Toucans (36) |
| 65 | Ciconiidae | Storks (19) | 101 | Indicatoridae | Honeyguides (17) |
| | SULIFORMES (4) | | 102 | Picidae | Woodpeckers (231) |
| 66 | Fregatidae | Frigatebirds (5) | | CARIAMIFORMES (1) | , |
| 67 | Sulidae | Boobies & Gannets (10) | 103 | Cariamidae | Seriemas (2) |
| 68 | Anhingidae | Anhingas (4) | | FALCONIFORMES (1) | |
| 69 | Phalacrocoracidae | Cormorants & Shags (40) | 104 | Falconidae | Falcons & Caracaras (65) |
| | PELECANIFORMES | = : : | | PSITTACIFORMES (4) | |
| 70 | Pelecanidae | Pelicans (8) | 105 | Strigopidae | New Zealand Parrots (4) |
| 71 | Balaenicipitidae | Shoebill (1) | 106 | <u> </u> | Cockatoos (21) |
| 72 | Scopidae | Hamerkop (1) | 107 | Psittaculidae | Old World Parrots (180) |
| 73 | Ardeidae | Herons, Egrets, & Bitterns (64) | 108 | | New World & African Parrots (168) |
| 74 | Threskiornithidae | Ibises & Spoonbills (34) | | PASSERIFORMES (14 | |
| | CATHARTIFORMES | | 109 | Acanthisittidae | New Zealand Wrens (4) |
| 75 | Cathartidae | New World Vultures (7) | 110 | Calyptomenidae | African & Green Broadbills (6) |
| Ť | ACCIPITRIFORMES | | 111 | Eurylaimidae | Asian & Grauer's Broadbills (9) |
| 76 | Sagittariidae | Secretary-bird (1) | + | Sapayoidae | Sapayoa (1) |
| 77 | Pandionidae | Osprey (1) | _ | Philepittidae | Asities (4) |
| 78 | Accipitridae | Hawks, Eagles, & Kites (247) | 4 | Pittidae | Pittas (44) |
| , 0 | , toolpitildae | i lavino, Lagico, a Mico (271) | 1 | 1 Ittidae | 1 mao (++) |

| No. | Family | Members | No. | Family | Members |
|-----|---------------------|--------------------------------------|-----|-------------------|---|
| | PASSERIFORMES (d | continued) | | PASSERIFORMES (d | continued) |
| 115 | Thamnophilidae | Typical Antbirds (236) | 162 | Laniidae | Shrikes (33) |
| 116 | Melanopareiidae | Crescentchests (4) | 163 | Vireonidae | Vireos, Shrike-Babblers,& Erpornis (63) |
| 117 | Conopophagidae | Gnateaters (11) | 164 | Oriolidae | Old World Orioles (36) |
| 118 | Grallariidae | Antpittas (55) | 165 | Dicruridae | Drongos (25) |
| 119 | Rhinocryptidae | Tapaculos (60) | 166 | Rhipiduridae | Fantails (53) |
| 120 | Formicariidae | Antthrushes (11) | 167 | Ifritidae | Ifrita (1) |
| 121 | Furnariidae | Ovenbirds & Woodcreepers (303) | 168 | Monarchidae | Monarch Flycatchers (99) |
| 122 | Tyrannidae | Tyrant Flycatchers (423) | 169 | Corvidae | Crows, Jays, & Magpies (128) |
| 123 | Oxyruncidae | Sharpbill (1) | 170 | Corcoracidae | White-winged Chough & Apostlebird (2) |
| 124 | Cotingidae | Cotingas (65) | 171 | Paradisaeidae | Birds-of-paradise (42) |
| 125 | Pipridae | Manakins (56) | 172 | Melampittidae | Melampittas (2) |
| 126 | Tityridae | Tityras & Allies (33) | 173 | Petroicidae | Australasian Robins (47) |
| 127 | Menuridae | Lyrebirds (2) | 174 | Picathartidae | Rockfowl (2) |
| 128 | Atrichornithidae | Scrub-birds (2) | 175 | Chaetopidae | Rockjumpers (2) |
| 129 | Ptilonorhynchidae | Bowerbirds (26) | 176 | Eupetidae | Rail-babbler (1) |
| 130 | Climacteridae | Australasian Treecreepers (7) | 177 | Panuridae | Bearded Reedling (1) |
| 131 | Maluridae | Fairywrens (33) | 178 | Nicatoridae | Nicators (3) |
| 132 | Meliphagidae | Honeyeaters (186) | 179 | Alaudidae | Larks (97) |
| 133 | Dasyornithidae | Bristlebirds (3) | 180 | Hirundinidae | Swallows (86) |
| 134 | Pardalotidae | Pardalotes (4) | 181 | Stenostiridae | Fairy Flycatchers (9) |
| 135 | Acanthizidae | Thornbills & Allies (64) | 182 | Paridae | Tits, Chickadees & Titmice (63) |
| 136 | Pomatostomidae | Pseudo-Babblers (5) | 183 | Remizidae | Penduline-Tits (11) |
| 137 | Orthonychidae | Logrunners (3) | 184 | Aegithalidae | Long-tailed Tits (11) |
| 138 | Cnemophilidae | Satinbirds (3) | 185 | Sittidae | Nuthatches (27) |
| 139 | Melanocharitidae | Berrypeckers & Longbills (10) | 186 | Tichodromidae | Wallcreeper (1) |
| 140 | Mohouidae | Whiteheads (3) | 187 | Certhiidae | Treecreepers (11) |
| 141 | Paramythiidae | Tit &Crested Berrypeckers (2) | 188 | Troglodytidae | Wrens (85) |
| 142 | Callaeidae | Wattlebirds (5) | 189 | Polioptilidae | Gnatcatchers (15) |
| 143 | Notiomystidae | Stitchbird (1) | 190 | Cinclidae | Dippers (5) |
| 144 | Psophodidae | Whipbirds & Wedgebills (5) | 191 | Pycnonotidae | Bulbuls (143) |
| 145 | Cinclosomatidae | Quail-thrushes & Jewel-babblers (11) | 192 | Regulidae | Kinglets (6) |
| 146 | Platysteiridae | Wattle-eyes & Batises (30) | 193 | Pnoepygidae | Cupwings (5) |
| 147 | Vangidae | Vangas, Helmetshrikes & Allies (39) | 194 | Macrosphenidae | African Warblers (21) |
| 148 | Malaconotidae | Bushshrikes & Allies (50) | 195 | Cettiidae | Bush-Warblers & Allies (36) |
| 149 | Machaerirhynchidae | Boatbills (2) | 196 | Phylloscopidae | Leaf-Warblers (76) |
| 150 | Artamidae | Woodswallows (11) | 197 | Acrocephalidae | Reed-Warblers & Allies (61) |
| 151 | Cracticidae | Bellmagpies & Allies (13) | 198 | Locustellidae | Grassbirds & Allies (61) |
| 152 | Pityriaseidae | Bristlehead (1) | 199 | Donacobiidae | Donacobius (1) |
| 153 | Aegithinidae | loras (4) | 200 | Bernieridae | Malagasy Warblers (11) |
| 154 | Campephagidae | Cuckooshrikes (87) | 201 | Cisticolidae | Cisticolas & Allies (145) |
| 155 | Neosittidae | Sittellas (2) | 202 | Sylviidae | Sylviid Warblers (33) |
| 156 | Eulacestomatidae | Ploughbill (1) | 203 | Paradoxornithidae | Parrotbills, Wrentit, & Allies (36) |
| 157 | Falcunculidae | Shrike-tit (1) | 204 | Zosteropidae | Yuhinas, White-eyes, & Allies (130) |
| 158 | Pachycephalidae | Whistlers & Allies (56) | 205 | Timaliidae | Tree- & Scimitar-Babblers & Allies (52) |
| 159 | Rhagologidae | Mottled Berryhunter (1) | 206 | Pellorneidae | Ground Babblers & Allies (58) |
| 160 | Oreoicidae | Australo-Papuan Bellbirds (3) | 207 | Leiothrichidae | Laughingthrushes & Allies (146) |
| 161 | Platylophidae (new) | Crested Shrikejay (1) | 208 | Promeropidae | Sugarbirds (2) |

| No. | Family | Members | No. | Family | Members |
|-----|-----------------|------------------------------------|-----|------------------|------------------------------------|
| | PASSERIFORMES | (continued) | | PASSERIFORMES | (continued) |
| 209 | Modulatricidae | Dapple-throat and Allies (3) | 231 | Fringillidae | Finches, Euphonias, & Allies (225) |
| 210 | Irenidae | Fairy-bluebirds (2) | 232 | Calcariidae | Longspurs & Snow Buntings (6) |
| 211 | Hyliotidae | Hyliotas (4) | 233 | Rhodinocichlidae | Thrush-Tanager (1) |
| 212 | Muscicapidae | Old World Flycatchers (317) | 234 | Emberizidae | Old World Buntings (44) |
| 213 | Turdidae | Thrushes & Allies (171) | 235 | Passerellidae | New World Sparrows (130) |
| 214 | Mimidae | Mockingbirds & Thrashers (34) | 236 | Calyptophilidae | Chat-Tanagers (2) |
| 215 | Sturnidae | Starlings (122) | 237 | Phaenicophilidae | Hispaniolan Tanagers (4) |
| 216 | Buphagidae | Oxpeckers (2) | 238 | Nesospingidae | Puerto Rican Tanager (1) |
| 217 | Chloropseidae | Leafbirds (11) | 239 | Spindalidae | Spindalises (4) |
| 218 | Dicaeidae | Flowerpeckers (47) | 240 | Zeledoniidae | Wrenthrush (1) |
| 219 | Nectariniidae | Sunbirds & Spiderhunters (139) | 241 | Teretistridae | Cuban Warblers (2) |
| 220 | Prunellidae | Accentors (13) | 242 | Icteriidae | Yellow-breasted Chat (1) |
| 221 | Motacillidae | Wagtails & Pipits (67) | 243 | Icteridae | Troupials & Allies (105) |
| 222 | Urocynchramidae | Przevalski's Pinktail (1) | 244 | Parulidae | New World Warblers (110) |
| 223 | Elachuridae | Spotted Elachura (1) | 245 | Mitrospingidae | Mitrospingid Tanagers (2) |
| 224 | Bombycillidae | Waxwings (3) | 246 | Cardinalidae | Cardinals & Allies (49) |
| 225 | †Mohoidae | Hawaiian Honeyeaters (5) [extinct] | 247 | Thraupidae | Tanagers & Allies (377) |
| 226 | Ptilogonatidae | Silky-flycatchers (4) | 248 | Passeridae | Old World Sparrows (42) |
| 227 | Dulidae | Palmchat (1) | 249 | Ploceidae | Weavers & Allies (116) |
| 228 | Hylocitreidae | Hylocitrea (1) | 250 | Estrildidae | Waxbills & Allies (140) |
| 229 | Hypocoliidae | Hypocolius (1) | 251 | Viduidae | Indigobirds (20) |
| 230 | Peucedramidae | Olive Warbler (1) | | | |
| | | | | | |

Reference: Clements, J. F., T. S. Schulenberg, M. J. Iliff, D. Roberson, T. A. Fredericks, B. L. Sullivan, and C. L. Wood. 2018. The eBird/Clements checklist of birds of the world: v2018. Downloaded from http://www.birds.cornell.edu/clementschecklist/download/

Changes Affecting Birds on Stamps

Velvet Scoter has been split from White-winged Scoter (see New Birds).

Change Southern Crowned-Pigeon, Goura scheepmakeri to Sclater's Crowned-Pigeon, Goura sclateri.

Purple-backed Fairywren (2001 & 2002 Australian issues—see New Birds) has been split from Variegated Fairywren (issues from Australia 1942, Micronesia, and Niue).

Taiwan Thrush, *Turdus niveiceps*, has been split from Island Thrush (see New Birds).

Chivi Vireo, *Vireo chivi* (Venezuela issue—see New Birds), has been split from Red-eyed Vireo (issues from Grenada and Grenadines).

Eurasian Magpie has been split into four species, two of which are on stamps: Oriental Magpie (Cambodia, China, Gambia, Hong Kong, Japan. Kampuchea, South Korea, and Sierra Leone—see New Birds) and Eurasian Magpie (all other issues).

Individual Changes:

Change Firecrest to Common Firecrest.

Change Nightingale Finch to Inaccessible Island Finch.

Change Rufous-vented Prinia to Laticilla burnesii and move it to Family Pellorneidae.

Move Grandala to Family Turdidae.

Move Bristlehead to Family Pityriasidae.

Change Radjah Shelduck to Radjah radjah.

Individual Changes: (continued)

Change the content of Passerellidae to New World Sparrows.

Change White-eyed Duck to Hardhead.

Change Zoe Imperial Pigeon to Zoe's Imperial Pigeon.

Change Ruwenzori Turaco to Rwenzori Turaco.

Ferruginous-backed Antbird, Myrmoderus ferrugineus.

African Crake, Crex egregia.

Slaty-breasted Rail, Lewinia striata.

Invisible Rail, Gallirallus wallacii.

Woodford's Rail, Gallirallus woodfordi.

Bar-winged Rail, Gallirallus poecilopterus.

Change Black-shouldered Rail to Black-winged Rail.

Change Australian Kite to Black-shouldered Kite.

Change Black-shouldered Kite to Black-winged Kite.

Change Great Philippine Eagle to Philippine Eagle.

Change Frances's Hawk to Frances's Sparrowhawk.

Change Madagascar Red Owl to Red Owl.

White-browed Owl, Athene superciliaris.

Change African Long-eared Owl to Abyssinian Owl.

Change Madagascar Long-eared Owl to Madagascar Owl.

Change Cuckoo-Roller to Cuckoo-roller.

Middle-spotted Woodpecker, Dendrocoptes medius.

Brown-fronted Woodpecker, Dendrocoptes auriceps.

Arabian Woodpecker, Dendrocoptes dorae.

Bearded Woodpecker, Chloropicus namaquus.

Change Gray Woodpecker to African Gray Woodpecker, Chloropicus goertae.

Change Gray-headed Woodpecker to Mountain Woodpecker, Chloropicus spodocephalus.

Okinawan Woodpecker, Dendrocopus noguchii.

Lesser-spotted Woodpecker, Dryobates minor.

Downy Woodpecker, Dryobates pubescens.

Red-cockaded Woodpecker, Dryobates borealis.

Hairy Woodpecker, Dryobates villosus.

Golden-collared Woodpecker, Dryobates cassini.

Dot-fronted Woodpecker, Dryobates frontalis.

Blood-colored Woodpecker, Dryobates sanguineus.

Banded Woodpecker, Chrysophlegma miniaceum.

Greater Yellownape, Chrysophlegma flavinucha.

Change Vasa Parrot to Greater Vasa Parrot.

Change Black Parrot to Lesser Vasa Parrot.

Seychelles Parrot, Coracopsis barklyi.

Change Sunbird Asity to Common Sunbird-Asity.

Change Macgregor's Bowerbird to MacGregor's Bowerbird.

Change Ruwenzori Batis to Rwenzori Batis.

Change Gray Jay to Canada Jay.

Change Vogelkop Bird-of-Paradise to Vogelkop Lophorina.

Change Greater Bird-of-Paradise to Greater Lophorina.

Change Lesser Bird-of-Paradise to Lesser Lophorina.

Change Greater Striped-Swallow to Greater Striped Swallow.

Change Lesser Striped-Swallow to Lesser Striped Swallow.

Change Black-lored Tit to Himalayan Black-lored Tit.

Black-crested Bulbul, Rubigula flaviventris.

Black-capped Bulbul, Rubigula melanicterus.

Individual Changes: (continued)

Black-collared Apalis, Oreolais pulchra.

Change Sukatchev's Laughingthrush to Snowy-cheeked Laughingthrush.

Choco Alethe, Chamaetylas choloensis.

Seaside Sparrow, Ammospiza maritima.

Saltmarsh Sparrow, Ammospiza caudacuta.

Red-breasted Meadowlark, Leistes militaris.

Greater Antillean Bullfinch, Melopyrrha violacea.

Change Española Cactus-finch to Española Ground-Finch.

Russet Sparrow, Passer cinnamomeus.

Change Rock Petronia to Rock Sparrow.

Change Social Weaver to Sociable Weaver.

2019-20 FEDERAL DUCK STAMP ART

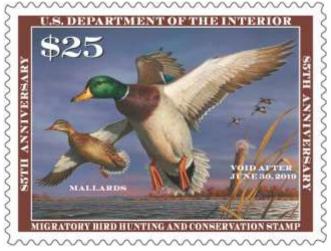
On 15 September 2018, a panel of five judges chose an acrylic painting of a wood duck and decoy by Scot Storm as the winner of the 2018 Federal Duck Stamp Contest.

This is the second contest win for Storm, an artist from Freeport, Minnesota, whose artwork previously appeared on the 2004–05 stamp. Storm's winning art will grace the 2019–20 Federal Duck Stamp, which will raise tens of millions of dollars for habitat conservation after it goes on sale in June 2019.

Formally known as Hunting Permit Stamps, duck stamps are conservation revenue stamps. Ninety-eight percent of the purchase price goes directly to help acquire and protect wetland habitat and purchase conservation easements for the National Wildlife Refuge System. Wetlands acquired with duck stamp dollars help purify water, aid in flood control, reduce soil erosion and sedimentation, and enhance outdoor recreation opportunities.



Wood Duck, Aix sponsa (♂) art by Scot Storm of Freeport, Minnesota winner of 2018 Duck Stamp Contest



Mallards, *Anas platyrhynchos* (♂& ♀) art by Bob Hautmann of Delano, Minnesota USA, 2018, Sc#RW85

While waterfowl hunters 16 years of age or older are required to purchase them, anyone can contribute to conservation by buying duck stamps. In addition to serving as hunting license and conservation tool, a current Federal Duck Stamp is also a free pass into any national wildlife refuge that charges an entry fee.

Because nearly all of the proceeds are used to conserve habitat for birds and other wildlife, birders, nature photographers and other outdoor enthusiasts buy duck stamps to help ensure that they can always see wildlife at their favorite outdoors spots.

In addition to being the only conservation revenue stamp, the duck stamp is unique in the way it is created. Each year, the U.S. Fish & Wildlife Service holds an art contest, the only juried art competition sponsored by the federal government. Any artist 18 years or older may enter, and the winning artist sees his or her work featured as the design on the following year's stamp.



HERPETOLOGY

Associate Editor Dick Roman, LM83



New Listings

[Ed. Note: Occasionally in this section and also in the Fungi section, we will note a species that is known to be poisonous or venomous by marking it with a (\$) symbol. One should not infer that other species that are not so marked are non-poisonous or non-venomous or safe to handle/eat.]

| | 1 | y , | | |
|--------|-----------|---|---|---------|
| Scott# | Denom | Common Name/Scientific Name | Family/Subfamily | Code |
| AUSTR | RALIA | 2017 October 17 (Items Starting w/ Same I | Letter) (Set/5, Strip/5, B | klt/10) |
| 4698 | \$1 | Cartoon gecko (letter G) (perf 143/4×14) | , | SĆ |
| 4703 | \$1 | Cartoon gecko (letter G) (die cut 11¼) (s/a) | | S C |
| 4703a | | Bklt/10 (Sc#4703) | | |
| 4706b | | Strip/5 (Sc#4702–06) | | |
| BERM | UDA | 2018 March 22 (Turtles) (Set/4 & SS/2) | | |
| 1136 | 50c | Green Turtle, Chelonia mydas | Cheloniidae | A |
| 1137 | \$1.15 | Hawksbill Sea Turtle, Eretmochelys imbricata | Cheloniidae | A |
| 1138 | \$1.35 | Loggerhead Sea Turtle, Caretta caretta | Cheloniidae | A |
| 1139 | \$1.55 | Leatherback Sea Turtle, Dermochelys coriacea | Dermochelyidae | A |
| 1140a | SS 10c | Green Sea Turtle, Chelonia mydas (head) | Cheloniidae | A |
| 1140b | SS \$1.35 | Hawksbill Sea Turtle, Eretmochelys imbricata (head) | Cheloniidae | A |
| CARIB | BEAN NE | THERLANDS 2017 November 27 (Endangered Animals (| (SS/1) (inscr. Sint Eusta | tius) |
| 90 | | Lesser Antillean Iguana, Iguana delicatissima (also LL margin) | | ÁΖ |
| CHINA | (Taiwan) | 2018 June 26 (Marine Life) (SS/2) | | |
| 4420b | | Green Sea Turtle, <i>Chelonia mydas</i> | Cheloniidae | A |
| | | · | | 71 |
| DJIBO | | 2018 February 19 (Marine Life) (MS/4 & | | |
| 1365a | | Hawksbill Sea Turtle, Eretmochelys imbricata | Cheloniidae | A |
| 1384 | Margin | Bot: Loggerhead Sea Turtle, Caretta caretta | Cheloniidae | Z |
| | | 2018 March 15 (Fauna) (MS/4 & 3ea SS/1 |) | |
| 1397a | 240fr | Diamondback Terrapin, Malaclemys terrapin | Emydidae, Deirochely | inae A |
| 1397b | 240fr | Blanding's Turtle, Emydoidea blandingii | Emydidae, Emydinae | A |
| 1397c | 240fr | False Map Turtle, Graptemys pseudogeographica | Emydidae, Deirochely | inae A |
| 1397d | 240fr | Leopard Tortoise. Stigmochelys pardalis | Testudinidae | A |
| 1415 | SS 950fr | Green Sea Turtle, Chelonia mydas | Cheloniidae | A |
| | Margin | R & Bot: Alligator Snapping Turtle, Macrochelys temminckii | Chelydridae | Z |
| 1416 | SS 950fr | Golden Toad, Incilius periglenes | Bufonidae | A |
| 1417 | SS 950fr | Wood Frog, Rana sylvatica (w/ mushroom) | Ranidae | A |
| ECUAI | DOR | 2017 November 27 (Tourism) (Bklt/8) | | |
| 2203d | 50c | | Podocnemididae | В |
| 2203 | | Bklt/8 (Sc#2203a-h) | | |
| GERM | ANY | 2018 February 1 (The Frog Prince) (Set/4 | & Bklt/10) | |
| B1137 | 70c+30c | Stylized frog holding golden ball (perf 13¾) | 22 22 20 10) | S |
| B1138 | 85c+40c | • | | Š |
| B1139 | 145c+55c | • | | S |
| B1140 | 70c+30c | | l in coils) | S |
| | , 551566 | 25, 1222 1108 horaling gorden can (die eat 10/4) (b/a) (diso issued | | 5 |

| GERMA B1140a | NY (conti | inued) Bklt/10+3 stickers | (Sc#1140) | | |
|-----------------|------------|--|--|-----------------------------------|----------|
| CDEAT | BRITAIN | NT | 2018 April 17 (Daintroduced Species) (Set | (6) | |
| 3718 | | | 2018 April 17 (Reintroduced Species) (Set | - | A |
| | £1.43 | Pool Frog, <i>Pelophy</i> | | Ranidae | A |
| 3718a | C1 55 | Horiz pair (Sc#371 | | T | |
| 3720 | £1.55 | Sand Lizard, Lacer | | Lacertidae | A |
| 3720a | | Horiz pair (Sc#371 | 9–20) | | |
| GREAT | BRITAIN | N (Jersey) | 2018 May 25 (150th anniv. Jersey SPCA) | (Set/8) | |
| 2142 | 76p | U/I snake | | Boidae | A |
| IRELAN | JD | | 2018 February 22 (St. Patrick's Day) (Sin | ala) | |
| 2179 | | Stylized snake | 2010 February 22 (St. 1 atrick's Day) (Sin | gic) | SC |
| | | Styllzed sliake | | | 3 C |
| KAZAK | HSTAN | | 2018 January 1 (New Year: Year of the D | og) (SS/1) (round) | |
| 846 | Margin | LL: U/I snake (Zoo | liac) | | CZ |
| MALDI | VE ISLAN | NDS | 2015 July 1 (Jacques-Yves Cousteau) (MS | /4) | |
| 3428a | | Green Sea Turtle, | | Cheloniidae | В |
| 3 120 u | 201 | Green Bea Tartie, | • | | D |
| | | | 2015 August 10 (Sea Turtles) (MS/4 & SS | • | |
| 3460a | | | a Turtle, <i>Lepidochelys kempii</i> | Cheloniidae | Α |
| 3460b | 22r | | Turtle, Lepidochelys olivacea | Cheloniidae | Α |
| 3460c | | 00 | ırtle, Caretta caretta | Cheloniidae | Α |
| 3460d | | Green Sea Turtle, | | Cheloniidae | Α |
| 3460 | Margin | UR: Green Sea Tu | rtle, Chelonia mydas | Cheloniidae | Z |
| 3470 | SS 70r | Hawksbill Sea Tur | tle, Eretmochelys imbricata | Cheloniidae | Α |
| | Margin | UR: Green Sea Tur | rtle, Chelonia mydas | Cheloniidae | Z |
| | | MR: Flatback Sea | Turtle, Natator depressus | Cheloniidae | Z |
| | | LR: Kemp's Ridley | y Sea Turtle, <i>Lepidochelys kempii</i> | Cheloniidae | Z |
| | | | a Turtle, Eretmochelys imbricata | Cheloniidae | Z |
| | | | 2016 May 22 (Turtles) (MC/4 & CC/1) | | |
| 3611a | 225 | Planding's Turtle | 2016 May 23 (Turtles) (MS/4 & SS/1) <i>Emydoidea blandingii</i> | Emydidaa Emydinaa | ۸ |
| 3611b | | | Emyaotaea bianaingti ile, Rhinoclemmys pulcherrima | Emydidae, Emydinae Geoemydidae | A |
| | | Painted Wood Turk Painted Turkle, Chi | | Emydidae, Deirochelyi | A |
| 3611c | | · | | | |
| 3611d | | Spotted Turtle, Cle | | Emydidae | A |
| 3620 | | | tle, Eretmochelys imbricata | Cheloniidae | A |
| | Margin | | ea Turtle, Caretta caretta | Cheloniidae | Z |
| | | | Turtle, Rhinoclemmys pulcherrima | Geoemydidae | Z |
| | | MR: Green Sea Tu | rtle, Chelonia mydas | Cheloniidae | Z |
| MONA(| CO | | 2018 March 7 (Sea Turtle Care Center) (Sea Turtle Care Center) | ngle) | |
| 2921 | €1.20 | U/I sea turtles | | | U B |
| MONTS | ERRAT | | 2018 March 1 (Frogs & Toads of Montsern | at) (MS/4 & SS/1) | |
| 1404a | \$5 | Cane Toad, Rhinel | | Bufonidae | A |
| 1404a 1404b | \$6 | | ling Frog, Eleutherodactylus johnstonei | Eleutherodactylidae | A |
| 17040 | φυ | | cillean Frog) (this whistling frog is most com | • | А |
| 1404c | \$7 | Cane Toad, Rhinel | | Bufonidae | A |
| 1404c 1404d | \$7 \$8 | | ing Frog, Eleutherodactylus johnstonei | Eleutherodactylidae | |
| 1404a 1405 | SS \$10 | | Mountain Chicken, <i>Leptodactylus fallax</i> | Leptodactylidae Leptodactylidae | A A |
| | | Grant Dittil 1710g/N | | | |
| | EALAND | | 2018 August 1 (Native Animals Threatene | • | SS/5) |
| 2812 | \$1.20 | _ | , Leiopelma hochstetteri | Leiopelmatidae | C |
| 2813 | \$2.40 | Jeweled Gecko, Str | rophurus elderi | Diplodactylidae | C |
| | | | | | |

| NEW ZEALAND 2815a | (continued) SS/5 (Sc#2811–15) | | | | | |
|--|--|---|---|--|--|--|
| PERU | 2017 June (Turtle) | | | | | |
| 1932 5s | Yellow-spotted Amazon River Turtle, Podocnemis unifilis | Podocnemididae | A | | | |
| | 2018 February 9 (New Year: Year of Roose | ter) (Pair) | | | | |
| 1958a 10s | Stylized snake (Zodiac) | ici) (i aii) | C | | | |
| | | | Ü | | | |
| SAN MARINO | 2018 June 5 (Postal Services) (Set/3) | | n | | | |
| 2018 €1.60 | Cartoon frog delivering letter to fish | | S C | | | |
| SIERRA LEONE | 2017 March 30 (Fauna) (MS/4 & SS/1) | | | | | |
| 4178a 9800le | Mugger Crocodile/Swamp Crocodile, Crocodylus palustris | Crocodylidae | A | | | |
| | West African Dwarf Crocodile, Osteolaemus tetraspis | Crocodylidae | A | | | |
| | Nile Crocodile, Crocodylus niloticus (facing R) | Crocodylidae | A | | | |
| | Nile Crocodile, Crocodylus niloticus (facing L) | Crocodylidae | A | | | |
| 4178 Margin | UL & LR: Nile Crocodile, Crocodylus niloticus | Crocodylidae | Z | | | |
| 4197 SS 40000le | Nile Crocodile, Crocodylus niloticus | Crocodylidae | A | | | |
| Margin | Bot: Same species | Crocodylidae | \mathbf{Z}_{\bullet} | | | |
| 4179a 9800le 4179b 9800le | Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i> African Mud Turtle, <i>Pelusios castaneus</i> | Cheloniidae Pelomedusidae | A A | | | |
| | Leatherback Sea Turtle, <i>Dermochelys coriacea</i> | Dermochelyidae | A | | | |
| | Green Sea Turtle, Chelonia mydas | Cheloniidae | A | | | |
| | Corners: Green Sea Turtle, <i>Chelonia mydas</i> | Cheloniidae | Z | | | |
| 4198 SS 40000le | Green Sea Turtle, Chelonia mydas | Cheloniidae | A | | | |
| Margin | Top & LR: Same species | Cheloniidae | Z | | | |
| 8 | ML: Loggerhead Sea Turtle, Caretta caretta | Cheloniidae | \overline{z} | | | |
| | | | | | | |
| | 2017 March 20 (Indonesian Animals) (SS/2 | 1 | | | | |
| 4206a SS 200001e | 2017 March 30 (Indonesian Animals) (SS/2 Komodo Dragon, Varanus komodoensis | | Δ | | | |
| 4206a SS 20000le | Komodo Dragon, Varanus komodoensis | Varanidae, Platynota | A | | | |
| | Komodo Dragon, <i>Varanus komodoensis</i> 2017 May 30 (Steve Irwin) (Set/4 & SS/1) | Varanidae, Platynota | | | | |
| 4331 6600le | Komodo Dragon, <i>Varanus komodoensis</i> 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, <i>Alligator mississippiensis</i> (w/ daughter) | Varanidae, Platynota Alligatoridae | В | | | |
| 4331 6600le 4332 6600le | Komodo Dragon, <i>Varanus komodoensis</i> 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, <i>Alligator mississippiensis</i> (w/ daughter) American Alligator, <i>Alligator mississippiensis</i> | Varanidae, Platynota Alligatoridae Alligatoridae | B B | | | |
| 4331 6600le 4332 6600le 4334 6600le | Komodo Dragon, <i>Varanus komodoensis</i> 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, <i>Alligator mississippiensis</i> (w/ daughter) American Alligator, <i>Alligator mississippiensis</i> U/I snake | Varanidae, Platynota Alligatoridae Alligatoridae | B B B U | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le | Komodo Dragon, <i>Varanus komodoensis</i> 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, <i>Alligator mississippiensis</i> (w/ daughter) American Alligator, <i>Alligator mississippiensis</i> U/I snake Charles Island Giant Tortoise, <i>Chelonoidis nigra</i> ssp. <i>abingdonii</i> | Varanidae, Platynota Alligatoridae Alligatoridae Testudinidae | B B B U B | | | |
| 4331 6600le 4332 6600le 4334 6600le | Komodo Dragon, <i>Varanus komodoensis</i> 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, <i>Alligator mississippiensis</i> (w/ daughter) American Alligator, <i>Alligator mississippiensis</i> U/I snake Charles Island Giant Tortoise, <i>Chelonoidis nigra</i> ssp. <i>abingdonii</i> Top: Ball Python, <i>Python regius</i> | Varanidae, Platynota Alligatoridae Alligatoridae Testudinidae Pythonidae | B B B U B Z | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le | Komodo Dragon, <i>Varanus komodoensis</i> 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, <i>Alligator mississippiensis</i> (w/ daughter) American Alligator, <i>Alligator mississippiensis</i> U/I snake Charles Island Giant Tortoise, <i>Chelonoidis nigra</i> ssp. <i>abingdonii</i> Top: Ball Python, <i>Python regius</i> R: American Alligator, <i>Alligator mississippiensis</i> | Varanidae, Platynota Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae | B B B U B Z Z | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le | Komodo Dragon, Varanus komodoensis 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps | Varanidae, Platynota Alligatoridae Alligatoridae Testudinidae Pythonidae | B B B U B Z | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin | Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) | Varanidae, Platynota Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Agamidae | B B B U B Z Z Z | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis | Varanidae, Platynota Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Agamidae Crocodylidae | B B B U B Z Z Z | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Agamidae Crocodylidae Crocodylidae | B B B Z Z Z Z | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le 4353c 9800le | American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus Orinoco crocodile, Crocodylus intermedius | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Agamidae Crocodylidae Crocodylidae Crocodylidae Crocodylidae | B B B U B Z Z Z A A A A | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le 4353c 9800le 4353d 9800le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus Orinoco crocodile, Crocodylus intermedius American crocodile. Crocodylus acutus | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Agamidae Crocodylidae Crocodylidae Crocodylidae Crocodylidae Crocodylidae Crocodylidae | B B B U B Z Z Z A A A A A | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le 4353c 9800le 4353d 9800le 4373 40000le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus Orinoco crocodile, Crocodylus intermedius American crocodile. Crocodylus acutus Saltwater crocodile, Crocodylus porosus (also Bot margin) | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Agamidae Crocodylidae Crocodylidae Crocodylidae Crocodylidae Crocodylidae Crocodylidae Crocodylidae Crocodylidae Crocodylidae | B B B Z Z Z Z A A A A A A Z | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le 4353c 9800le 4353d 9800le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus Orinoco crocodile, Crocodylus intermedius American crocodile, Crocodylus porosus (also Bot margin) Gunther's Whip Snake, Ahaetulla prasina | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Agamidae Crocodylidae | B B B U B Z Z Z A A A A A | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le 4353c 9800le 4353d 9800le 4373 40000le 4354a 9800le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus Orinoco crocodile, Crocodylus intermedius American crocodile, Crocodylus acutus Saltwater crocodile, Crocodylus porosus (also Bot margin) Gunther's Whip Snake, Ahaetulla prasina (also called Oriental Whipsnake, Asian Vine Snake, Jade Vine | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Agamidae Crocodylidae Colubridae, Colubrinae Snake) | B B B U B Z Z Z Z A A A A A A A A A A A A A A A | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le 4353c 9800le 4353d 9800le 4353d 9800le 4354a 9800le 4354a 9800le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus Orinoco crocodile, Crocodylus intermedius American crocodile, Crocodylus acutus Saltwater crocodile, Crocodylus porosus (also Bot margin) Gunther's Whip Snake, Ahaetulla prasina (also called Oriental Whipsnake, Asian Vine Snake, Jade Vine Sumatra Pit Viper Trimeresurus sumatranus (♣) | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Alligatoridae Agamidae Crocodylidae | B B B U B Z Z Z Z A A A A A A A A A A A A A A A | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le 4353c 9800le 4353d 9800le 4373 40000le 4354a 9800le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus Orinoco crocodile, Crocodylus intermedius American crocodile, Crocodylus acutus Saltwater crocodile, Crocodylus porosus (also Bot margin) Gunther's Whip Snake, Ahaetulla prasina (also called Oriental Whipsnake, Asian Vine Snake, Jade Vine Sumatra Pit Viper Trimeresurus sumatranus (\$\frac{x}{x}\$) Scarlet Kingsnake, Lampropeltis triangulum | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Agamidae Crocodylidae Colubridae, Colubrinae Snake) | B B B U B Z Z Z Z A A A A A A A A A A A A A A A | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le 4353c 9800le 4353d 9800le 4353d 9800le 4354a 9800le 4354a 9800le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus Orinoco crocodile, Crocodylus intermedius American crocodile, Crocodylus acutus Saltwater crocodile, Crocodylus porosus (also Bot margin) Gunther's Whip Snake, Ahaetulla prasina (also called Oriental Whipsnake, Asian Vine Snake, Jade Vine Sumatra Pit Viper Trimeresurus sumatranus (♣) Scarlet Kingsnake, Lampropeltis triangulum (also called Louisiana Milksnake, Mexican Milksnake) | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Alligatoridae Agamidae Crocodylidae Colubridae, Colubrinae Snake) Viperidae, Crotalinae Colubridae, Colubrinae | B B B U B Z Z Z Z A A A A A A A A A A A A A A A | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le 4353c 9800le 4353d 9800le 4373 40000le 4354a 9800le 4354b 9800le 4354c 9800le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus Orinoco crocodile, Crocodylus intermedius American crocodile, Crocodylus acutus Saltwater crocodile, Crocodylus porosus (also Bot margin) Gunther's Whip Snake, Ahaetulla prasina (also called Oriental Whipsnake, Asian Vine Snake, Jade Vine Sumatra Pit Viper Trimeresurus sumatranus (\$\frac{x}{x}\$) Scarlet Kingsnake, Lampropeltis triangulum | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Alligatoridae Agamidae Crocodylidae | B B B U B Z Z Z Z A A A A A A A A A A A A A A A | | | |
| 4331 6600le 4332 6600le 4334 6600le 4335 SS 40000le Margin 4353a 9800le 4353b 9800le 4353c 9800le 4353d 9800le 4354a 9800le 4354a 9800le 4354b 9800le 4354c 9800le 4354d 9800le | 2017 May 30 (Steve Irwin) (Set/4 & SS/1) American Alligator, Alligator mississippiensis (w/ daughter) American Alligator, Alligator mississippiensis U/I snake Charles Island Giant Tortoise, Chelonoidis nigra ssp. abingdonii Top: Ball Python, Python regius R: American Alligator, Alligator mississippiensis LR: Central Bearded Dragon, Pogona vitticeps 2017 June 30 (Fauna) (MS/4 & SS/1) West African Dwarf Crocodile, Osteolaemus tetraspis Nile crocodile, Crocodylus niloticus Orinoco crocodile, Crocodylus intermedius American crocodile, Crocodylus acutus Saltwater crocodile, Crocodylus porosus (also Bot margin) Gunther's Whip Snake, Ahaetulla prasina (also called Oriental Whipsnake, Asian Vine Snake, Jade Vine Sumatra Pit Viper Trimeresurus sumatranus (\$\frac{1}{2}\$) Scarlet Kingsnake, Lampropeltis triangulum (also called Louisiana Milksnake, Mexican Milksnake) Blue Malaysian Coral Snake, Calliophis bivirgata (\$\frac{1}{2}\$) | Alligatoridae Alligatoridae Alligatoridae Testudinidae Pythonidae Alligatoridae Alligatoridae Agamidae Crocodylidae Colubridae, Colubrinae Snake) Viperidae, Crotalinae Colubridae, Colubrinae | B B B U B Z Z Z Z A A A A A A A A A A A A A A A | | | |

| SIEKKA L | EONE | (continued) | | |
|--|--|--|--|---|
| | | LL: Eastern Indigo Snake, Drymarchon couperi | Colubridae | Z |
| | | Bot: Grass Snake, Natrix natrix | Colubridae | Z |
| | | LR: Amazon Tree Boa, Corallus hortulanus | Boidae | Z |
| 4355a 9 | 9800le | Green Sea Turtle, Chelonia mydas | Cheloniidae | A |
| | | Leatherback Sea Turtle, Dermochelys coriacea | Dermochelyidae | A |
| 4355c 9 | 9800le | Diamondback Terrapin, Malaclemys terrapin | Emydidae | A |
| | | Loggerhead Sea Turtle, Caretta caretta | Cheloniidae | A |
| 4375 SS 40 | | Olive Ridley Sea Turtle, Lepidochelys olivacea | Cheloniidae | A |
| N | Aargin | UR: Leatherback Sea Turtle, Dermochelys coriacea | Dermochelyidae | \mathbf{Z} |
| | | LL & LR: Loggerhead Sea Turtle, Caretta caretta | Cheloniidae | Z |
| | | 2017 August 30 (135th anniv. Charles | | |
| | | Charles Island Giant Tortoise, Chelonoidis nigra | Testudinidae | В |
| 4449 N | Aargin | ML: Marine Iguana, Amblyrhynchus cristatus | Iguanidae | Z |
| | | 2017 September 29 (Turtles) (MS/4 & | | |
| | 9800le | Texas (Gopher) Tortoise, Gopherus berlandieri | Testudinidae | A |
| | | Red-footed Tortoise, Chelonoidis carbonaria | Testudinidae | A |
| | | Egyptian Tortoise, Testudo kleinmanni | Testudinidae | A |
| | | Travancore Tortoise, <i>Indotestudo forstenii</i> | Testudinidae | A |
| | | LR: Indian Star Tortoise, Geochelone elegans | Testudinidae | Z |
| | | Hermann's Tortoise, Testudo hermanni | Testudinidae | A |
| N | nargin | Bot: Texas (Gopher) Tortoise, Gopherus berlandieri | Testudinidae | Z |
| 4500 | 00001 | 2017 December 29 (Lizards) (MS/4 & | | |
| | | Nile Monitor, Varanus niloticus | Varanidae, Platynota | A |
| | 9800le | Slender Chameleon, Chamaeleo gracilis | Chamaeleonidae | A |
| | 9800le | Common Agama, Agama agama | Agamidae, Agaminae Gekkonidae | A |
| | | Brook's House Gecko, <i>Hemidactylus angulatus</i> Common Agama, <i>Agama agama</i> | Agamidae, Agaminae | A A |
| | | LR: Nile Monitor, Varanus niloticus | Varanidae, Platynota | Z |
| | _ | | • | L |
| SLOVENIA | A | 2018 May 25 (Blind Cave Salamander | | |
| 1274 | | · · · · · · · · · · · · · · · · · · · | | ۸ |
| 1274 | €1.77 | Olm, Proteus anguinus | Proteidae, Proteinae | A |
| SURINAM | €1.77 | Olm, <i>Proteus anguinus</i> 2017 November 15 (Frogs) (MS/6) | Proteidae, Proteinae | |
| SURINAM 1514a | €1.77 \$3 | Olm, <i>Proteus anguinus</i> 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, <i>Cruziohyla calcarifer</i> | Proteidae, Proteinae Hylidae, Phyllomedusina | e A |
| SURINAM 1514a 1514b | €1.77 \$3 \$5 | Olm, <i>Proteus anguinus</i> 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, <i>Cruziohyla calcarifer</i> Map Tree Frog, <i>Hyla geographica</i> | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae | e A A |
| SURINAM 1514a 1514b 1514c | \$1.77 \$3 \$5 \$6 | Olm, <i>Proteus anguinus</i> 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, <i>Cruziohyla calcarifer</i> Map Tree Frog, <i>Hyla geographica</i> Highland Tree Frog, <i>Litoria wollastoni</i> | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae | e A A A |
| SURINAM 1514a 1514b 1514c 1514d | €1.77 \$3 \$5 \$6 \$7 | Olm, <i>Proteus anguinus</i> 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, <i>Cruziohyla calcarifer</i> Map Tree Frog, <i>Hyla geographica</i> Highland Tree Frog, <i>Litoria wollastoni</i> Malayan Horned Frog, <i>Megophrys nasuta</i> | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae | e A A A |
| SURINAM 1514a 1514b 1514c 1514d 1514e | €1.77 \$3 \$5 \$6 \$7 \$8 | Olm, <i>Proteus anguinus</i> 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, <i>Cruziohyla calcarifer</i> Map Tree Frog, <i>Hyla geographica</i> Highland Tree Frog, <i>Litoria wollastoni</i> Malayan Horned Frog, <i>Megophrys nasuta</i> American Bullfrog, <i>Rana catesbeiana</i> | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae | e A A A A |
| SURINAM 1514a 1514b 1514c 1514d | €1.77 \$3 \$5 \$6 \$7 | Olm, Proteus anguinus 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, Cruziohyla calcarifer Map Tree Frog, Hyla geographica Highland Tree Frog, Litoria wollastoni Malayan Horned Frog, Megophrys nasuta American Bullfrog, Rana catesbeiana Harlequin Tree Frog, Rhacophorus pardalis | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae Rhacophoridae, Rhacophorinae | e A A A A |
| SURINAM 1514a 1514b 1514c 1514d 1514e 1514f | €1.77 \$3 \$5 \$6 \$7 \$8 \$9 | Olm, Proteus anguinus 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, Cruziohyla calcarifer Map Tree Frog, Hyla geographica Highland Tree Frog, Litoria wollastoni Malayan Horned Frog, Megophrys nasuta American Bullfrog, Rana catesbeiana Harlequin Tree Frog, Rhacophorus pardalis 2017 December 19 (Flora & Fauna) (1) | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae Rhacophoridae, Rhacophorinae | e A A A A A |
| SURINAM 1514a 1514b 1514c 1514d 1514e 1514f | €1.77 \$3 \$5 \$6 \$7 \$8 \$9 | Olm, Proteus anguinus 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, Cruziohyla calcarifer Map Tree Frog, Hyla geographica Highland Tree Frog, Litoria wollastoni Malayan Horned Frog, Megophrys nasuta American Bullfrog, Rana catesbeiana Harlequin Tree Frog, Rhacophorus pardalis 2017 December 19 (Flora & Fauna) (1) Centralian Carpet Python, Morelia bredli | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae Rhacophoridae, Rhacophorinae (2ea SS/1) Pythonidae, Henophidia | e A A A A A A A |
| SURINAM 1514a 1514b 1514c 1514d 1514e 1514f 1517 1519 | €1.77 \$3 \$5 \$6 \$7 \$8 \$9 \$5 | Olm, Proteus anguinus 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, Cruziohyla calcarifer Map Tree Frog, Hyla geographica Highland Tree Frog, Litoria wollastoni Malayan Horned Frog, Megophrys nasuta American Bullfrog, Rana catesbeiana Harlequin Tree Frog, Rhacophorus pardalis 2017 December 19 (Flora & Fauna) (1) Centralian Carpet Python, Morelia bredli American Bullfrog, Rana catesbeiana | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae Rhacophoridae, Rhacophorinae [2ea SS/1) Pythonidae, Henophidia Ranidae | e A A A A A |
| SURINAM 1514a 1514b 1514c 1514d 1514e 1514f 1517 1519 SWITZER | \$3 \$5 \$6 \$7 \$8 \$9 \$5 | Olm, Proteus anguinus 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, Cruziohyla calcarifer Map Tree Frog, Hyla geographica Highland Tree Frog, Litoria wollastoni Malayan Horned Frog, Megophrys nasuta American Bullfrog, Rana catesbeiana Harlequin Tree Frog, Rhacophorus pardalis 2017 December 19 (Flora & Fauna) (1) Centralian Carpet Python, Morelia bredli American Bullfrog, Rana catesbeiana 2018 September 6 (Fairy Tale Character) | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae Rhacophoridae, Rhacophorinae (2ea SS/1) Pythonidae, Henophidia Ranidae ters) (Set/2) | e A A A A A A A A |
| SURINAM 1514a 1514b 1514c 1514d 1514e 1514f 1517 1519 SWITZER 1689 | €1.77 \$3 \$5 \$6 \$7 \$8 \$9 \$5 | Olm, Proteus anguinus 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, Cruziohyla calcarifer Map Tree Frog, Hyla geographica Highland Tree Frog, Litoria wollastoni Malayan Horned Frog, Megophrys nasuta American Bullfrog, Rana catesbeiana Harlequin Tree Frog, Rhacophorus pardalis 2017 December 19 (Flora & Fauna) (1) Centralian Carpet Python, Morelia bredli American Bullfrog, Rana catesbeiana 2018 September 6 (Fairy Tale Character in Forest) | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae Rhacophoridae, Rhacophorinae 12ea SS/1) Pythonidae, Henophidia Ranidae ters) (Set/2) | e A A A A A A A |
| SURINAM 1514a 1514b 1514c 1514d 1514e 1514f 1517 1519 SWITZER 1689 TONGA | \$3 \$5 \$6 \$7 \$8 \$9 \$5 \$5 | Olm, Proteus anguinus 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, Cruziohyla calcarifer Map Tree Frog, Hyla geographica Highland Tree Frog, Litoria wollastoni Malayan Horned Frog, Megophrys nasuta American Bullfrog, Rana catesbeiana Harlequin Tree Frog, Rhacophorus pardalis 2017 December 19 (Flora & Fauna) (1) Centralian Carpet Python, Morelia bredli American Bullfrog, Rana catesbeiana 2018 September 6 (Fairy Tale Character in Forest) 2017 August 31 (50th anniv. Peace Compared to the supplier of the s | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae Rhacophoridae, Rhacophorinae 12ea SS/1) Pythonidae, Henophidia Ranidae ters) (Set/2) | e A A A A A A A A A A A A A A A A A A A |
| SURINAM 1514a 1514b 1514c 1514d 1514e 1514f 1517 1519 SWITZER 1689 TONGA 1326 | \$3 \$5 \$6 \$7 \$8 \$9 \$5 \$5 LAND 100c | Olm, Proteus anguinus 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, Cruziohyla calcarifer Map Tree Frog, Hyla geographica Highland Tree Frog, Litoria wollastoni Malayan Horned Frog, Megophrys nasuta American Bullfrog, Rana catesbeiana Harlequin Tree Frog, Rhacophorus pardalis 2017 December 19 (Flora & Fauna) (1) Centralian Carpet Python, Morelia bredli American Bullfrog, Rana catesbeiana 2018 September 6 (Fairy Tale Charact Cartoon frog (Character in Forest) 2017 August 31 (50th anniv. Peace Co | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae Rhacophoridae, Rhacophorinae 12ea SS/1) Pythonidae, Henophidia Ranidae ters) (Set/2) | e A A A A A A A A A A A A A A A A A A A |
| SURINAM 1514a 1514b 1514c 1514d 1514e 1514f 1517 1519 SWITZERI 1689 TONGA 1326 1327 | \$3 \$5 \$6 \$7 \$8 \$9 \$5 \$5 LAND 100c 2.25pa 6.50pa | Olm, Proteus anguinus 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, Cruziohyla calcarifer Map Tree Frog, Hyla geographica Highland Tree Frog, Litoria wollastoni Malayan Horned Frog, Megophrys nasuta American Bullfrog, Rana catesbeiana Harlequin Tree Frog, Rhacophorus pardalis 2017 December 19 (Flora & Fauna) (1) Centralian Carpet Python, Morelia bredli American Bullfrog, Rana catesbeiana 2018 September 6 (Fairy Tale Character in Forest) 2017 August 31 (50th anniv. Peace Constylized turtle Stylized turtle | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae Rhacophoridae, Rhacophorinae 12ea SS/1) Pythonidae, Henophidia Ranidae ters) (Set/2) | e A A A A A A A A S B S S |
| SURINAM 1514a 1514b 1514c 1514d 1514e 1514f 1517 1519 SWITZER 1689 TONGA 1326 1327 1328 | \$3 \$5 \$6 \$7 \$8 \$9 \$5 \$5 \$5 LAND 100c 2.25pa 6.50pa | Olm, Proteus anguinus 2017 November 15 (Frogs) (MS/6) Splendid Leaf Frog, Cruziohyla calcarifer Map Tree Frog, Hyla geographica Highland Tree Frog, Litoria wollastoni Malayan Horned Frog, Megophrys nasuta American Bullfrog, Rana catesbeiana Harlequin Tree Frog, Rhacophorus pardalis 2017 December 19 (Flora & Fauna) (1) Centralian Carpet Python, Morelia bredli American Bullfrog, Rana catesbeiana 2018 September 6 (Fairy Tale Charact Cartoon frog (Character in Forest) 2017 August 31 (50th anniv. Peace Co | Proteidae, Proteinae Hylidae, Phyllomedusina Hylidae, Hylinae Hylidae, Hylinae Megophryidae Ranidae Rhacophoridae, Rhacophorinae 12ea SS/1) Pythonidae, Henophidia Ranidae ters) (Set/2) | e A A A A A A A A A A A A A A A A A A A |

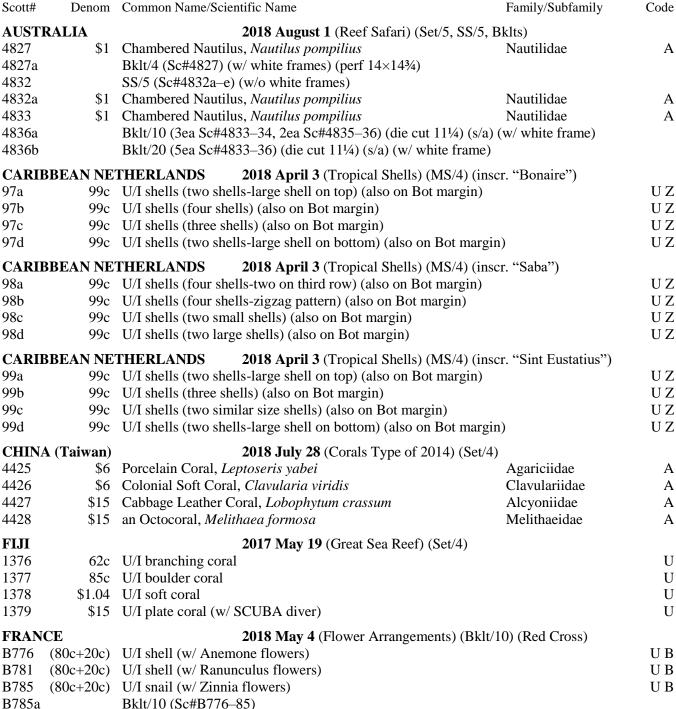


MARINE INVERTEBRATES

Editor

Ian Hunter, BU1619

New Listings



| LIBERI | A | 2015 December 31 (Seashells & Marine L. | ife) (MS/4, MS/6, SS/1) | |
|---|---|--|---|---------------------------------------|
| 3099a | \$100 | Horse Conch Shell, Triplofusus papillosus | Fasciolariidae | A |
| 3099b | \$100 | Mushroom Coral, Fungia scutaria | Fungiidae | A |
| 3099c | \$100 | Chambered Nautilus, Nautilus pompilius | Nautilidae | A |
| 3099d | | Green Sea Urchin, Strongylocentrotus droebachiensis | Strongylocentrotidae | A |
| 3099 | | R: U/I shells | <i>U</i> , | UZ |
| 3100a | _ | Common Atlantic Cerith, Cerithium vulgatum | Cerithiidae | A |
| 3100b | \$100 | Triton's Trumpet, Charonia tritonis | Ranellidae | A |
| 3100c | \$100 | Tiger Cowrie, Cypraea tigris | Cypraeidae | A |
| 3100d | \$100 | Giant African Snail, Achatina achatina | Achatinidae | A |
| 3100e | \$100 | Chambered Nautilus, Nautilus pompilius | Nautilidae | A |
| 3100f | \$100 | Banded Bonnet, Phalium bandatum | Cassidae | A |
| 3100 | Margin | Bot: U/I shells | | UZ |
| 3101 | | South African Scallop, Pecten sulcicostatus | Pectinidae | A |
| | | Bot: U/I shells | | UZ |
| MAIDI | VE ISLAN | | | |
| 3610a | | • ` ' ` ' ` ' ' ` ' ' ' ' ' ' ' ' ' ' ' | Volutidae | ٨ |
| 3610a | | Gold-banded Volute, <i>Harpulina arausiaca</i> Venus Comb Murex, <i>Murex pecten</i> | Muricidae | A A |
| 3610c | | <u> </u> | Ranellidae | |
| 3610d | | a Triton Shell, Ranularia sp. (Cap: R. Schumacher) | Muricidae | A |
| 3619 | | Prickly Spotted Drupe, <i>Drupa ricinus</i> | | A |
| 3019 | | a Pelican's Foot Snail, Aporrhais pesgallinae | Aporrhaidae Muricidae | A Z |
| | Margin | ML: Staghorn Murex, Chicoreus cornucervi | | Z |
| | | LL: True Tulip, Fasciolaria tulipa | Fasciolariidae Cassidae | Z |
| | | Bot: King Helmet, Cassis tuberosa | Volutidae | Z |
| | | LR: Crowned Baler, Melo aethiopica | Coenobitidae | Z |
| | | Top: Strawberry Hermit Crab, Coenobita perlatus | Coellobilidae | L |
| | | | | |
| | RLANDS | 2017 July 17 (Art in Voorlinden Museum) | (MS/10) | _ |
| NETHE 1552d | RLANDS (78c) | 2017 July 17 (Art in Voorlinden Museum) Stylized mussels (Broodthaers: "Casserole des Moules Noir") | (MS/10) | S |
| | | Stylized mussels (Broodthaers: "Casserole des Moules Noir") | (MS/10) | S |
| 1552d | | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) | (MS/10) Pectinidae | S A |
| 1552d NEVIS | (78c) | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, <i>Chlamys varia</i> (small brown on L) | | |
| 1552d NEVIS 1949a | (78c) \$4 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, <i>Chlamys varia</i> (small brown on L) Same species (small red on R) | Pectinidae | A |
| 1552d NEVIS 1949a 1949b | (78c) \$4 \$4 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, <i>Chlamys varia</i> (small brown on L) Same species (small red on R) Same species (small pink on L) | Pectinidae Pectinidae | A A |
| 1552d NEVIS 1949a 1949b 1949c 1949d | (78c) \$4 \$4 \$4 \$4 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, <i>Chlamys varia</i> (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) | Pectinidae Pectinidae Pectinidae Pectinidae | A A A |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW Z I | (78c) \$4 \$4 \$4 \$4 \$4 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Ze | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae realand) (SS/5) | A A A |
| 1552d NEVIS 1949a 1949b 1949c 1949d | (78c) \$4 \$4 \$4 \$4 \$4 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, <i>Chlamys varia</i> (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) | Pectinidae Pectinidae Pectinidae Pectinidae | A A A |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW Z I 2815 | (78c) \$4 \$4 \$4 \$4 \$4 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Ze Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae realand) (SS/5) | A A A |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a | \$4 \$4 \$4 \$4 \$4 EALAND \$3.60 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Ze Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae realand) (SS/5) | A A A |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f | (78c) \$4 \$4 \$4 \$4 \$4 \$54 \$54 \$53.60 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Ze Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Paland) (SS/5) Rhytididae Acanthogorgiidae | A A A A UB |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f ROMAN | (78c) \$4 \$4 \$4 \$4 \$4 \$54 \$53.60 \$1.75 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Ze Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana 2017 December 7 (Venomous Animals) (Seahorses) | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Paland) (SS/5) Rhytididae Acanthogorgiidae et/5 & MS/5+label) | A A A A UB |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f ROMAN 6033 | (78c) \$4 \$4 \$4 \$4 \$4 \$54 \$53.60 \$1.75 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Zee Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana 2017 December 7 (Venomous Animals) (Seahorses) Box Jellyfish, Chironex fleckeri (\$\frac{1}{8}\$) | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Paland) (SS/5) Rhytididae Acanthogorgiidae | A A A A UB |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f ROMAN 6033 6033a | (78c) \$4 \$4 \$4 \$4 \$4 \$54 \$53.60 \$1.75 NIA 3.501 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Ze Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana 2017 December 7 (Venomous Animals) (S Box Jellyfish, Chironex fleckeri (\$) MS/5+label (Sc#6033) | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Paland) (SS/5) Rhytididae Acanthogorgiidae et/5 & MS/5+label) Chirodropidae | A A A UB B |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f ROMAN 6033 | (78c) \$4 \$4 \$4 \$4 \$4 \$54 \$53.60 \$1.75 NIA 3.501 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Zee Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana 2017 December 7 (Venomous Animals) (Seahorses) Box Jellyfish, Chironex fleckeri (\$\frac{1}{8}\$) | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Paland) (SS/5) Rhytididae Acanthogorgiidae et/5 & MS/5+label) | A A A A UB |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f ROMAN 6033 6033a 6035 6035a | \$4 \$4 \$4 \$4 \$4 \$3.60 \$1.75 NIA 3.501 4.501 | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Ze Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana 2017 December 7 (Venomous Animals) (S Box Jellyfish, Chironex fleckeri (\$) MS/5+label (Sc#6033) Blue-Ringed Octopus, Hapalochlaena maculosa (\$) MS/5+label (Sc#6035) | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Paland) (SS/5) Rhytididae Acanthogorgiidae et/5 & MS/5+label) Chirodropidae Octopodidae | A A A UB B |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f ROMAN 6033 6033a 6035 6035a ST. THO | (78c) \$4 \$4 \$4 \$4 \$4 \$54 EALAND \$3.60 \$1.75 NIA 3.501 4.501 DMAS AN | 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Ze Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana 2017 December 7 (Venomous Animals) (S Box Jellyfish, Chironex fleckeri (\$) MS/5+label (Sc#6033) Blue-Ringed Octopus, Hapalochlaena maculosa (\$) MS/5+label (Sc#6035) ZD PRINCE IS. 2014 September 15 (Seashells) (MS/4 & S | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Paland) (SS/5) Rhytididae Acanthogorgiidae et/5 & MS/5+label) Chirodropidae Octopodidae | A A A A UB B A A |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f ROMAN 6033 6033a 6035 6035a ST. THO 2722a | (78c) \$4 \$4 \$4 \$4 \$4 \$54 \$54 \$1.75 NIA 3.501 4.501 DMAS AN 25000d | 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Ze Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana 2017 December 7 (Venomous Animals) (S Box Jellyfish, Chironex fleckeri (\$) MS/5+label (Sc#6033) Blue-Ringed Octopus, Hapalochlaena maculosa (\$) MS/5+label (Sc#6035) D PRINCE IS. 2014 September 15 (Seashells) (MS/4 & S Rough Scallop, Aequipecten muscosus (Cap: Lindapecten m.) | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Paland) (SS/5) Rhytididae Acanthogorgiidae et/5 & MS/5+label) Chirodropidae Octopodidae SS/1) Pectinidae | A A A UB B A A |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f ROMAN 6033 6033a 6035 6035a ST. THO 2722a 2722b | \$4 \$4 \$4 \$4 \$4 \$3.60 \$1.75 NIA 3.501 4.501 OMAS AN 25000d 25000d | 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Zee Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana 2017 December 7 (Venomous Animals) (Seaborses) (MS/5+label (Sc#6033) Blue-Ringed Octopus, Hapalochlaena maculosa (\$\frac{x}{x}\$) MS/5+label (Sc#6035) TO PRINCE IS. 2014 September 15 (Seashells) (MS/4 & September 15 (MS/4 & Septe | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Paland) (SS/5) Rhytididae Acanthogorgiidae et/5 & MS/5+label) Chirodropidae Octopodidae SS/1) Pectinidae Strombidae | A A A UB B A A |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f ROMAN 6033 6033a 6035 6035a ST. THO 2722a 2722b 2722c | \$4 \$4 \$4 \$4 \$4 \$4 \$1.75 NIA 3.501 4.501 DMAS AN 25000d 25000d 25000d | Stylized mussels (Broodthaers: "Casserole des Moules Noir") 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Ze Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811-15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana 2017 December 7 (Venomous Animals) (S Box Jellyfish, Chironex fleckeri (\$) MS/5+label (Sc#6033) Blue-Ringed Octopus, Hapalochlaena maculosa (\$) MS/5+label (Sc#6035) D PRINCE IS. 2014 September 15 (Seashells) (MS/4 & S Rough Scallop, Aequipecten muscosus (Cap: Lindapecten m.) U/I conch shell U/I moon shell | Pectinidae Roanthogorgiidae Pet/5 & MS/5+label) Chirodropidae Octopodidae SS/1) Pectinidae Strombidae Naticidae | A A A UB B A A U |
| 1552d NEVIS 1949a 1949b 1949c 1949d NEW ZI 2815 2815a PALAU 1379f ROMAN 6033 6033a 6035 6035a ST. THO 2722a 2722b | \$4 \$4 \$4 \$4 \$4 \$3.60 \$1.75 NIA 3.501 4.501 OMAS AN 25000d 25000d | 2018 May 24 (Seashells) (MS/4) Variegated Scallop, Chlamys varia (small brown on L) Same species (small red on R) Same species (small pink on L) Same species (small brown on R) 2018 August 1 (Animals Native to New Zee Giant Snail, Powelliphanta sp. (w/ owl, kiwi, giant weta) SS/5 (Sc#2811–15) 2018 February 1 (Seahorses) (MS/6) Gorgonian, Muricella plectana 2017 December 7 (Venomous Animals) (Seaborses) (MS/5+label (Sc#6033) Blue-Ringed Octopus, Hapalochlaena maculosa (\$\frac{x}{x}\$) MS/5+label (Sc#6035) TO PRINCE IS. 2014 September 15 (Seashells) (MS/4 & September 15 (MS/4 & Septe | Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Pectinidae Paland) (SS/5) Rhytididae Acanthogorgiidae et/5 & MS/5+label) Chirodropidae Octopodidae SS/1) Pectinidae Strombidae | A A A UB B A A |

| ST. THO | OMAS AN | ID PRINCE IS. (continued) | | |
|---------|--------------|---|----------------------|-----|
| | | Chambered Nautilus, Nautilus pompilius | Nautilidae | A |
| | Margin | R: U/I conch shell | Strombidae | UZ |
| | | 2014 October 15 (Corals) | | |
| 2766a | 25000d | Leaf Plate Montipora, Montipora capricornis | Acroporidae | A |
| 2766b | | Open Brain Coral, Trachyphyllia geoffroyi | Merulinidae | A |
| 2766c | | Deepwater Sea Fan, Iciligorgia schrammi | Anthothelidae | A |
| 2766d | 25000d | Briar Coral, Anacropora puertogalerae | Acroporidae | A |
| 2786 S | S 96000d | Fox Coral, Nemenzophyllia turbida | Euphylliidae | A |
| | Margin | UR: Orange Sun Coral, Tubastrea aurea | Dendrophylliidae | Z |
| | | LR: Anchor Coral, Euphyllia ancora | Euphylliidae | Z |
| | | 2014 November 11 (Most Venomous An | imals) (MS/4 & SS/1) | |
| 2810d | 25000d | Marbled Cone, Conus marmoreus (♣) | Conidae | A |
| 2827 S | S 96000d | Blue-Ringed Octopus, Hapalochlaena maculosa (\$) | Octopodidae | A |
| | Margin | R: Box Jellyfish, <i>Chironex fleckeri</i> (\$) | Chirodropidae | Z |
| | | 2015 November 18 (Shells) (MS/4 & SS/ | 1) | |
| 2969a | 31000d | Chambered Nautilus, Nautilus pompilius | Nautilidae | A |
| 2969b | 31000d | Florida Fighting Conch, Strombus alatus | Strombidae | A |
| 2969c | 31000d | DeMarcoi's Volute, Voluta polypeura | Volutidae | A |
| 2969d | 31000d | Arthritic Spider Conch, Harpago arthritica | Strombidae | A |
| 2969 | Margin | UR & Bot: Spider Conch, Lambis lambis | Strombidae | Z |
| 2988 S | SS 96000d | Redlined Bubble Snail, Bullina lineata | Bullinidae | A |
| | Margin | UL: U/I blue octopus | | UZ |
| | | UR: U/I jellyfish | | UZ |
| | | MR: Sea Snail, Cypraecassis rufa | Cassidae | Z |
| | | LR: Spider Conch, Lambis lambis | Strombidae | Z |
| | | Bot: U/I starfish | | UΖ |
| | | Bot: U/I sea urchin | | UΖ |
| ST. VIN | | 2017 September 28 (Marine Life) (MS/3 | - | |
| 4116a | \$7 | U/I sea anemone | Order: Actiniaria | U |
| 4116b | \$7 | U/I sea anemone | Order: Actiniaria | U |
| 4116c | \$7 | U/I sea anemone | Order: Actiniaria | U |
| 4116 | | Multiple U/I sea anemones | Order: Actiniaria | UΖ |
| 4117 | | U/I sea snails | | U |
| | Margin | Multiple U/I sea snails | | UΖ |
| SAMOA | | 2016 March 18 (Surcharges) | | ~ |
| 1238 | \$15 | Natives blowing Shell Trumpet (Sc#1020 surch) | | C |
| SIERRA | LEONE | 2017 January 30 (Renaissance Masterpie | ces) (MS/4) | |
| 4089c | 6000le | Stylized shell (Botticelli ptg: "The Birth of Venus") | | S B |
| | | 2017 May 30 (20th anniv. Jacques-Yves 0 | | |
| 4327 | 6000le | Giant Pacific Octopus, Enteroctopus dofleini | Enteroctopodidae | В |
| | | 2017 June 30 (Shells) (MS/4 & SS/1) | | |
| 4352a | | Florida Crown Conch, Melongena corona | Melongenidae | A |
| 4352b | 9800le | Commercial Top Shell, Trochus niloticus | Tegulidae | A |
| 4352c | 9800le | Lightning Whelk, Sinistrofulgur perversum | Busyconidae | A |
| 4352d | 9800le | Wrinkled Neptune Shell, Neptunea polycostata | Buccinidae | A |

| SIERRA LEONE (continued) | | | | | | | |
|--|-----------|--|------------------|----|--|--|--|
| 4372 S | S 40000le | Netted Dog Whelk, Nassarius reticulatus | Nassariidae | A | | | |
| | Margin | UR: Sea Snail, Euprotomus hawaiensis | Strombidae | Z | | | |
| | - | LL: Queen Conch, Lobatus gigas (Cap: Strombus gigas) | Strombidae | Z | | | |
| | | LR: Bear Claw Clam, Hippopus hippopus | Tridacnidae | Z | | | |
| TUVALU 2018 May 30 (Pacific Shrimp) (MS/4 & SS/2) | | | | | | | |
| 1417a | \$2.50 | Cleaner Shrimp, Lysmata amboinensis | Hippolytidae | A | | | |
| 1417b | \$2.50 | Emperor Shrimp, Periclimenes imperator | Palaemonidae | A | | | |
| 1417c | \$2.50 | Camel Shrimp, Rhynchocinetes durbanensis | Rhynchocinetidae | A | | | |
| 1417d | \$2.50 | Orange Snapping Shrimp, Alpheus bisincisus | Alpheidae | A | | | |
| 1417 | Margin | Bot: U/I coral | | UΖ | | | |
| 1418a | SS \$3.70 | Peacock Mantis Shrimp, Odontodactylus scyllarus | Odontodactylidae | A | | | |
| 1418b | SS \$3.70 | Modest Snapping Shrimp, Synalpheus modestus | Alpheidae | A | | | |
| 1418 | Margin | Bot: U/I coral | | UΖ | | | |
| 2018 May 30 (Coconut Crabs) (MS/4 & SS/2) | | | | | | | |
| 1419a | \$1 | Coconut Crab, Birgus latro | Coenobitidae | A | | | |
| 1419b | \$2 | Same species | Coenobitidae | A | | | |
| 1419c | \$3 | Same species | Coenobitidae | A | | | |
| 1419d | \$4 | Same species | Coenobitidae | A | | | |
| 1420a | SS \$3 | Coconut Crab, Birgus latro | Coenobitidae | A | | | |
| 1420b | SS \$4 | Same species | Coenobitidae | A | | | |

UNDERWATER WORLD OF HONG KONG

Hong Kong Post plans to issue a set of stamps on 16 July 2019, featuring Hong Kong's rich marine biodiversity. The set will include six stamps depicting various sea creatures along with miniature sheets of four of each design and a special fish-shaped souvenir sheet including all six designs in a se-tenant format.

The stamps were designed by Shirman Lai. The six MS/4 are the first of their kind for the Hong Kong Post.

The colorful set aims to promote awareness for marine conservation in the hope of making joint efforts to preserve local marine life.

Among other species, the stamps feature the Chinese White Dolphin (*Sousa chinensis*), Green Sea Turtle (*Chelonia mydas*), various reef fish, a stingray, seahorses, corals, and a jellyfish.





ICHTHYOLOGY

Editor

J. Dale Shively, BU1832

New Listings



| Scott# | Denom | Common Name/Scientific Name | Family/Subfamily | Code | |
|--|------------|--|------------------|------|--|
| AUSTRALIA 2018 August 1 (Reef Safari) (Bklts & SS/5) | | | | | |
| 4828 | \$1 | U/I reef fish (w/ Green Sea Turtle) | | UC | |
| 4828a | Ψ1 | Bklt/4 (Sc#4828) (perf 14×14¾) (white frame on two sides) | | 0.0 | |
| 4830 | \$1 | Emperor Angelfish, <i>Pomacanthus imperator</i> (adult & juvenile) | Pomacanthidae | A | |
| 4830a | - | Bklt/4 (Sc#4830) (perf 14×14¾) (white frame on two sides) | | | |
| 4831 | \$2 | Grey Reef Shark, Carcharhinus amblyrhynchos | Carcharhinidae | A | |
| | | Remora, Remora remora | Echeneidae | В | |
| 4831a | \$2 | Bklt/2 (Sc#4831) (perf 14×14¾) (white frame on two sides) | | | |
| | | (SS/5) (w/o White Frame on 2 sides) | | | |
| 4832b | \$1 | U/I reef fish (w/ Green Sea Turtle) (w/o white frame) | | UC | |
| 4832d | \$1 | Emperor Angelfish, <i>Pomacanthus imperator</i> (w/o white frame) | Pomacanthidae | A | |
| 4832e | \$2 | Grey Reef Shark, Carcharhinus amblyrhynchos (w/o wht frame) | Carcharhinidae | A | |
| 4832 | | SS/5 (Sc#4832a–e) (w/o white frame) | | | |
| | Margin | UR: Yellowtail snapper, Ocyurus chrysurus | Lutjanidae | Z | |
| 4834 | \$1 | U/I reef fish (w/ Green Sea Turtle) | | UC | |
| 4836 | \$1 | Emperor Angelfish, <i>Pomacanthus imperator</i> (adult & juvenile) | Pomacanthidae | A | |
| 4836a | | Bklt/10 (3ea Sc#4833–34, 2ea Sc#4835–36) (die cut 11¼) (s/a) (| w/ white frame) | | |
| 4836b | | Bklt/20 (5ea Sc#4833–36) (die cut 11¼) (s/a) (w/ white frame) | | | |
| BERMU | DA | 2018 June 21 (Cedar-handled Handbags) (S | et/4) | | |
| 1146 | \$1.40 | Fish lookalike carved into handle | | X | |
| 1147 | \$2 | Fish lookalike (Seahorses) carved into handle | | X | |
| CANAD | A | 2018 July 10 (Sharks) (MS/5 & Bklt/10) | | | |
| 3105a | (85c) | Shortfin Mako Shark, Isurus oxyrinchus | Lamnidae | A | |
| 3105b | (85c) | Basking Shark, Cetorhinus maximus | Cetorhinidae | A | |
| 3105c | (85c) | Great White Shark, Carcharodon carcharias | Lamnidae | A | |
| 3105d | (85c) | Greenland Shark, Somniosus microcephalus | Somniosidae | A | |
| 3105e | (85c) | Blue Shark, Prionace glauca | Carcharhinidae | A | |
| 3105 | | MS/5 (Sc#3105a-e) (perf 12½) | | | |
| | Margin | UR: Great White Shark, Carcharodon carcharias | Lamnidae | Z | |
| 3106 | (85c) | Great White Shark, Carcharodon carcharias | Lamnidae | A | |
| 3107 | (85c) | Basking Shark, Cetorhinus maximus | Cetorhinidae | A | |
| 3108 | (85c) | Greenland Shark, Somniosus microcephalus | Somniosidae | A | |
| 3109 | (85c) | Blue Shark, <i>Prionace glauca</i> | Carcharhinidae | A | |
| 3110 | (85c) | Shortfin Mako Shark, Isurus oxyrinchus | Lamnidae | A | |
| 3110a | | Bklt/10 (2ea Sc#3106–10) (die cut 13½) (s/a) | | | |
| CHINA | (People's | Republic) 2018 March 2 (Lantern Festival) (Set/3) | | | |
| 4515 | | Stylized Koi | | SB | |
| CHINA (Taiwan) 2018 June 26 (Marine Life) (SS/2) | | | | | |
| 4420a | SS \$13 | Blacktip Reef Shark, Carcharhinus melanopterus (two) | Carcharhinidae | A | |
| 4420 | ·-·- + - + | SS/2 (Sc#4420a-b) | | | |
| | Margin | U/I reef fish | | UΖ | |
| | C | | | | |

| DENMARK | | 2018 May 17 (Fish) (SS/2) | | | | | |
|--------------|------------------|---|--------------------------------|-----------------|--|--|--|
| 1801a | 27k | Northern Pike, Esox lucius | Esocidae | A | | | |
| 1801b | 27k | European Perch, Perca fluviatilis | Percidae | A | | | |
| 1801 | Margin | LL: Pike head line drawing | | SΖ | | | |
| | | LR: Perch spines line drawing | | SZ | | | |
| FIJI | | 2017 May 19 (Great Sea Reef) (Set/4) | | | | | |
| 1376 | | U/I reef fish in background | | UC | | | |
| 1377 | | U/I reef fish in background | | UC | | | |
| 1378 | | U/I reef fish in background | | UC | | | |
| 1379 | \$15 | U/I reef fish in background | | UC | | | |
| MACAC | | 2018 March 1 (2018 International Stamp E | Exhibition) (Strip/3) | _ | | | |
| 1523b | 3p | Stylized fish (w/ fish vendor) | | S | | | |
| MALAV | | 2018 June 4 (Birds) (SS/1) | | | | | |
| 860 | SS 450k | U/I fish (in Kingfisher's beak) | | UC | | | |
| MALAY | SIA | 2018 January 30 (Fish) (Set/3 & SS/1) | | | | | |
| 1733 | | Mahseer (Tor Barb), Tor tor | Cyprinidae | A | | | |
| 1734 | 60c | Pearl Gourami, Trichopodus leerii | Osphronemidae | Α | | | |
| 1735 | | Harlequin Rasbora, Trigonostigma heteromorpha | Cyprinidae | A | | | |
| 1736 | | Golden Arowana (Asian Bonytongue), Scleropages formosus | Osphronemidae | A | | | |
| | Margin | L: Same species | Osphronemidae | Z | | | |
| | | 2018 February 27 (Rivers) (SS/1) | | | | | |
| 1739 | | Ikan Empurau (Semah Mahseer/Belian), Tor douronensis | Cyprinidae | В | | | |
| | Margin | Bot: Same species | Cyprinidae | Z | | | |
| | VE ISLA | NDS 2015 July 1 (105th anniv. of Jacques-Yves | Cousteau) (MS/4 & SS/ | ['] 1) | | | |
| 3428b | 20r | Emperor Angelfish, <i>Pomacanthus imperator</i> (w/ Cousteau) | Pomacanthidae | В | | | |
| 3428c | 20r | Sand Tiger Shark, Carcharias taurus (w/ Cousteau) | Odontaspididae | В | | | |
| 3438 | SS 60r | MR: Yellowtail (Clark's) Clownfish, Amphiprion clarkia | Pomacanthidae | Z | | | |
| | | LR: Maldive Anemonefish, Amphiprion nigripes | Pomacentridae | Z | | | |
| | | 2015 July 26 (50th anniv. Independence) (5 | Set/6) | | | | |
| 3447 | 15r | Fishermen landing U/I Tuna on boat | | UC | | | |
| | | 2015 August 10 (Great White Shark Conse | ervation) (MS/4 & SS/1) | | | | |
| 3459a | 22r | Great White Shark, Carcharodon carcharias (two swimming R) | | Α | | | |
| 3459b | 22r | Same species (one swimming up) | Lamnidae | A | | | |
| 2450 | | Bkgrd: U/I small fish | * | UC | | | |
| 3459c | 22r | Same species (one swimming R) | Lamnidae | A | | | |
| 24504 | 22 | Bkgrd: U/I small fish | T | UC | | | |
| 3459d | | Same species (two swimming L) | Lamnidae | A | | | |
| 3459 3469 | Margin SS 70r | UR: Same species Great White Shark, <i>Carcharodon carcharias</i> | Lamnidae Lamnidae | Z A | | | |
| 3409 | | R & Bot: Same species | Lamnidae | Z | | | |
| | Margin | Bkgrd: U/I small fish | Lamnidae | Z | | | |
| | | | | | | | |
| 3500b | 22r | 2015 September 15 (Scouting in Maldives) Masked Bannerfish, <i>Heniochus monoceros</i> (w/ R. B. Powell) | (MS/4 & SS1) Chaetodontidae | ъ | | | |
| 3500 | Margin | Bkgrd: U/I tiny reef fish | Chactodollildae | B U Z | | | |
| 3510 | SS 70r | Masked Bannerfish, <i>Heniochus monoceros</i> (w/ Scouts in boat) | Chaetodontidae | B | | | |
| 3310 | 55 701 | manca Damierrich, fremoenus monoceros (w/ beoats in boat) | | ט | | | |

| MALDIVE ISLANDS (continued) 2015 December 2 (Baa Atoll UNESCO Biosphere) (Bklt/4) | | | | | |
|---|--------------------|------------|--|----------------|---|
| | 3511a | 51 | Whale Shark, Rhincodon typus | Rhincodontidae | A |
| | 3511c | 251 | Manta Ray (Giant Manta), Mobula birostris | Myliobatidae | A |
| | 3511 | | Bot: Longnose Butterflyfish, Forcipiger flavissimus | Chaetodontidae | Z |
| | | | 2015 December 9 (Maldive Fishes) (MS/4 | & SS/1) | |
| | 3514a | 20r | Twotone Tang, Zebrasoma scopas | Acanthuridae | A |
| | 3514b | | L: Yellowback Anthias, <i>Pseudanthias evansi</i> | Serranidae | A |
| | 20110 | 201 | LR: Yellow Teardrop Butterflyfish, Chaetodon interruptus | Chaetodontidae | C |
| | 3514c | 20r | Bot: Emperor Red Snapper, <i>Lutjanus sebae</i> | Lutjanidae | В |
| | 001.0 | _01 | Top: Yellow Teardrop Butterflyfish, <i>Chaetodon interruptus</i> | Chaetodontidae | В |
| | 3514d | 20r | Ctr: Spotted Eagle Ray, Aetobatus narinari | Myliobatidae | A |
| | 22114 | 201 | Bkgrd: Yellow Teardrop Butterflyfish, <i>Chaetodon interruptus</i> | Chaetodontidae | C |
| | 3514 | Margin | UL: Powderblue Surgeonfish, <i>Acanthurus leucosternon</i> | Acanthuridae | Z |
| | 5511 | 111415111 | Top: Orange-spine Tang (?), <i>Naso lituratus</i> (behind title) | Balistidae | Z |
| | | | LR: Pigmy Sweeper, <i>Parapriacanthus ransonneti</i> | Pempheridae | Z |
| | | | UR: Spotted Eagle Ray, Aetobatus narinari | Myliobatidae | Z |
| | 3524 | SS 60r | Maldive Anemonefish, Amphiprion nigripes | Pomacentridae | A |
| | 332 - T | Margin | UL: Powderblue Surgeonfish, <i>Acanthurus leucosternon</i> | Acanthuridae | Z |
| | | Margin | Top: Orange-spine Tang (?), <i>Naso lituratus</i> (behind title) | Balistidae | Z |
| | | | UR: Maldive Anemonefish, Amphiprion nigripes | Pomacentridae | Z |
| | | | LL: Clown Triggerfish, Balistoides conspicillum | Balistidae | Z |
| | | | LR: Spotted Eagle Ray, Aetobatus narinari | Myliobatidae | Z |
| | | | | • | 2 |
| | 2515 | 20 | 2015 December 9 (Maldive Fishes) (MS/4 | | ъ |
| | 3515a | 20r | Top: Longnose Butterflyfish, Forcipiger flavissimus | Chaetodontidae | В |
| | 05151 | 20 | Bot: White-banded Triggerfish, Rhinecanthus aculeatus | Balistidae | В |
| | 3515b | 20r | Top: McCosker's Flasher, Paracheilinus mccoskeri | Labridae | В |
| | 2515 | 20 | Bot: Basketfish, Kentrocapros rosapinto | Aracanidae | В |
| | 3515c | 20r | Top: Rare Wrasse, Macropharyngodon bipartitus | Labridae | В |
| | 25151 | 20 | Bot: Five-lined Cardinalfish, Cheilodipterus quinquelineatus | Apogonidae | В |
| | 3515d | 20r | Sling-jaw Wrasse, Epibulus insidiator | Labridae | A |
| | 3515 | Margin | UL: Powderblue Surgeonfish, Acanthurus leucosternon | Acanthuridae | Z |
| | | | Top: Orange-spine Tang (?), Naso lituratus (behind title) | Balistidae | Z |
| | | | UL: Lined Surgeonfish, Acanthurus lineatus | Acanthuridae | Z |
| | 2525 | aa 60 | UR: Brown Surgeonfish, Acanthurus nigrofuscus | Acanthuridae | Z |
| | 3525 | SS 60r | Top: Five-lined Cardinalfish, Cheilodipterus quinquelineatus | Apogonidae | В |
| | | M . | Bot: no common name, Coris cuvieri | Labridae | В |
| | | Margin | UL: Powderblue Surgeonfish, Acanthurus leucosternon | Acanthuridae | Z |
| | | | Top: Orange-spine Tang (?), Naso lituratus (behind title) | Balistidae | Z |
| | | | Ctr: Five-lined Cardinalfish, Cheilodipterus quinquelineatus | Apogonidae | Z |
| | | | UL: Areolate Grouper, Epinephelus areolatus | Serranidae | Z |
| | | | Bot: Regal Angelfish, Pygoplites diacanthus | Pomacentridae | Z |
| | | | LL: Golden Sweeper, Parapriacanthus ransonneti | Pempheridae | Z |
| | | | 2015 December 9 (Maldive Fishes) (MS/4 | | |
| | 3516a | 20r | Top: Harlequin Filefish, Oxymonacanthus longirostris | Monacanthidae | В |
| | | | Bot: Twospined Angelfish, Centropyge bispinosa | Pomacanthidae | В |
| | 3516b | 20r | Top: McCosker's Flasher, Paracheilinus mccoskeri | Labridae | В |
| | | | Ctr: Elegant Firefish, Nemateleotris decora | Microdesmidae | В |
| | | | Bot: Thornback Cowfish, Lactoria fornasini | Ostraciidae | В |
| | 3516c | 20r | Top: Bluntheaded Wrasse, Thalassoma amblycephalum | Labridae | В |
| | | | Bot: Warty Frogfish, Antennarius maculatus | Antennariidae | В |
| | 3516d | 20r | Common Bluestripe Snapper, Lutjanus kasmira | Lutjanidae | A |
| | | | | | |

| MALDI | VE ISLAN | NDS (continued) | | |
|-------|-------------|---|-----------------------|----------|
| 3516 | | UL: Powderblue Surgeonfish, Acanthurus leucosternon | Acanthuridae | Z |
| | 6 | Top: Orange-spine Tang (?), Naso lituratus (behind title) | Balistidae | Z |
| | | UL: Queen Coris, <i>Coris formosa</i> | Labridae | Z |
| | | UR: Common Bluestripe Snapper, <i>Lutjanus kasmira</i> | Lutjanidae | Z |
| | | LL: Twospined Angelfish, Centropyge bispinosa | Pomacanthidae | Z |
| 3526 | SS 60r | Great Barracuda, Sphyraena barracuda | Sphyraenidae | A |
| 3320 | | | Acanthuridae | Z |
| | Margin | UL: Powderblue Surgeonfish, <i>Acanthurus leucosternon</i> Top: Orange cripe Tops (2). <i>Nace lituratus</i> (behind title) | Balistidae | Z |
| | | Top: Orange-spine Tang (?), <i>Naso lituratus</i> (behind title) | | |
| | | MR: Great Barracuda, Sphyraena barracuda (school of many) | Sphyraenidae | Z |
| | | Ctr: Laced Moray, Gymnothorax favagineus | Muraenidae | Z |
| | | LL: Thornback Cowfish, Lactoria fornasini | Ostraciidae | Z Z |
| | | Bot: Opah, Lampris guttatus | Lampridae | |
| | | LR: Barred Moray, Echidna polyzona | Muraenidae | Z |
| 25101 | | 2015 December 9 (Terns) (MS/4) | | |
| 3518b | 22r | U/I fish (in beak of Roseate Tern, Sterna dougallii) (also in UL r | nargin) | UCZ |
| | | 2015 December 9 (Maldive Fishes) (MS/4 & | | |
| 3520a | 22r | Top: Daisy Parrotfish, Chlorurus sordidus | Scaridae | В |
| | | LR: Lined Wrasse, Anampses lineatus | Labridae | В |
| | | LL: Ribbontail Stingray, Taeniura lymma | Dasyatidae | В |
| 3520b | 22r | Top: Twospot Turkeyfish, Dendrochirus biocellatus | Scorpaenidae | В |
| | | Bot: no common name, Cirrhilabrus rubrisquamis | Labridae | В |
| 3520c | 22r | Top: Whitespotted Boxfish, Ostracion meleagris | Ostraciidae | В |
| | | Bot: Longnose Hawkfish, Oxycirrhites typus | Cirrhitidae | В |
| 3520d | 22r | Top: Ribbontail Stingray, Taeniura lymma | Dasyatidae | В |
| | | L: Lined Wrasse, Anampses lineatus | Labridae | В |
| | | Bot: Guineafowl Puffer, Arothron meleagris | Tetraodontidae | В |
| 3520 | Margin | UL: Powderblue Surgeonfish, Acanthurus leucosternon | Acanthuridae | Z |
| | | Top: Orange-spine Tang (?), Naso lituratus (behind title) | Balistidae | Z |
| | | UL: no common name, Cirrhilabrus rubrisquamis | Labridae | Z |
| | | UL: Whitespotted Boxfish, Ostracion meleagris | Ostraciidae | Z |
| | | UR: Daisy Parrotfish, Chlorurus sordidus | Scaridae | Z |
| | | Bot: Longnose Hawkfish, Oxycirrhites typus | Cirrhitidae | Z |
| 3530 | SS 70r | Top: Whitespotted Garden Eel, Gorgasia maculata | Congridae | В |
| | 55 7 01 | Ctr: Daisy Parrotfish, <i>Chlorurus sordidus</i> | Scaridae | В |
| | | Bot: Ribbontail Stingray, <i>Taeniura lymma</i> | Dasyatidae | В |
| | Margin | UL: Powderblue Surgeonfish, <i>Acanthurus leucosternon</i> | Acanthuridae | Z |
| | Margin | ML & Ctr: Sammara Squirrelfish, Neoniphon samara | Holocentridae | Z |
| | | LL: Ribbontail Stingray, Taeniura lymma | Dasyatidae | Z |
| | | Ctr: Whitespotted Garden Eel, Gorgasia maculate | Congridae | Z |
| | | LR: Live Sharksucker, Echeneis naucrates | Echeneidae Echeneidae | Z |
| | | | Echeneidae | L |
| 3521a | 22. | 2015 December 9 (Sharks) (MS/4 & SS/1) Ctr: Whale Shark Rhincodon typus | Rhincodontidae | ٨ |
| 3321a | <i>ZZ</i> I | Ctr: Whale Shark, Rhincodon typus Ret: U/I small fish under shark | Killicouolitidae | A U C |
| 25211 | 22 - | Bot: U/I small fish under shark | Comphantinidas | |
| 3521b | 22r | Blacktip Shark, <i>Carcharhinus limbatus</i> , (country name in white) | | A |
| 3521c | 22r | Oceanic Whitetip Shark, Carcharhinus longimanus | Carcharhinidae | A |
| 3521d | 22r | Blacktip Shark, <i>Carcharhinus limbatus</i> , (country name in blue) | Carcharhinidae | A |
| 3521 | Margin | UL: Powderblue Surgeonfish, Acanthurus leucosternon | Acanthuridae | Z |
| | | Top: Orange-spine Tang (?), Naso lituratus (behind title) | Balistidae | Z |

| MALDI | VE ISLAN | NDS (continued) | | |
|--|--|--|--|--|
| 3531 | | Shortfin Mako, Isurus oxyrinchus | Lamnidae | A |
| | Margin | · · · · · · · · · · · · · · · · · · · | Acanthuridae | Z |
| | 8 | Top: Orange-spine Tang (?), Naso lituratus (behind title) | Balistidae | Z |
| | | ML: Whale Shark, <i>Rhincodon typus</i> | Rhincodontidae | \overline{Z} |
| | | LL: Blacktip Shark, Carcharhinus limbatus | Carcharhinidae | Z |
| | | 2016 January 18 (WWF: Green Humphea | | CC /1) |
| 3552a | 22r | Green Humphead Parrotfish, <i>Bolbometopon muricatum</i> (face R) | | |
| 3332a | 221 | Bot: U/I yellow reef fish |) Scaridae | A U C |
| 3552b | 22r | Same species (facing L w/ red mouth) | Scaridae | A |
| 3552c | 22r | Same species (facing R) | Scaridae | A |
| 3552d | 22r | Same species (facing L) | Scaridae | A |
| 3552d | Margin | MS/4 in shape of Green Humphead Parrotfish | Scaridae | Z |
| 3553 | _ | Green Humphead Parrotfish, Bolbometopon muricatum | Scaridae | A |
| 3333 | 33 701 | SS/1 in shape of Green Humphead Parrotfish | Scaridae | Z |
| MADGII | ATT TOT | • | Scaridae | L |
| | ALL ISL | 1 ' ' ' | A.1 1 | |
| 1177a | | Pelagic Thresher Shark, Alopias pelagicus | Alopiidae | A |
| 1177b | \$1.25 | • • | Carcharhinidae | A |
| 1177c | | Whale Shark, Rhincodon typus | Rhincodontidae | A |
| 1177d | | Great White Shark, Carcharodon carcharias | Lamnidae | A |
| 1177e 1177f | | Oceanic Whitetip Shark, Carcharhinus longimanus | Carcharhinidae | A |
| | | Blue Shark, Prionace glauca | Carcharhinidae | A |
| MOLDO | | 2018 June 1 (Children's Day) (Set/2) | | ~ ~ |
| 988 | 5.75L | Stylized fish (fairy tale characters) | | S C |
| | | | | |
| | EALAND | 2018 June 6 (Legend of Maui & the Fish) | (2ea MS/6) | |
| 2804d | \$2.40 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) | (2ea MS/6) | S |
| | | | (2ea MS/6) | S S |
| 2804d | \$2.40 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) | (2ea MS/6) | |
| 2804d 2805d | \$2.40 \$2.40 | Stylized fish (perf 13½×13½) Stylized fish (die cut 10×9½) (s/a) | (2ea MS/6) | S S |
| 2804d 2805d NEVIS | \$2.40 \$2.40 Margin | Stylized fish (perf 13½×13½) Stylized fish (die cut 10×9½) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) | (2ea MS/6) | S |
| 2804d 2805d NEVIS 1951 | \$2.40 \$2.40 Margin | Stylized fish (perf 13½×13½) Stylized fish (die cut 10×9½) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) | | S S |
| 2804d 2805d NEVIS 1951 | \$2.40 \$2.40 Margin Margin | Stylized fish (perf 13½×13½) Stylized fish (die cut 10×9½) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) | | S S |
| 2804d 2805d NEVIS 1951 1952 | \$2.40 \$2.40 Margin Margin | Stylized fish (perf 13½×13½) Stylized fish (die cut 10×9½) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS | /6) | S S S |
| 2804d 2805d NEVIS 1951 1952 | \$2.40 \$2.40 Margin Margin | Stylized fish (perf 13½×13½) Stylized fish (die cut 10×9½) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus | /6) Zanclidae | S S S |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b | \$2.40 \$2.40 Margin Margin | Stylized fish (perf 13½×13½) Stylized fish (die cut 10×9½) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum | /6) Zanclidae Acanthuridae | S S S S A S A |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 | Stylized fish (perf 13½×13½) Stylized fish (die cut 10×9½) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus | /6) Zanclidae Acanthuridae Pomacanthidae | S S S S A S A S A |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c 1954d | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 \$4 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) Stylized fish (die cut 10×9 ¹ / ₂) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus Northern Red Snapper (Red Snapper), Lutjanus campechanus | /6) Zanclidae Acanthuridae Pomacanthidae Lutjanidae Diodontidae | S S S S A S A S A S A |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c 1954d 1954e | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 \$4 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) Stylized fish (die cut 10×9 ¹ / ₂) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus Northern Red Snapper (Red Snapper), Lutjanus campechanus Pelagic (Spot-fin) Porcupinefish, Diodon hystrix Yellow Longnose (Longnose) Butterflyfish, Forcipiger flavissin | /6) Zanclidae Acanthuridae Pomacanthidae Lutjanidae Diodontidae | S S S S A S A S A S A S A |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c 1954d 1954e 1954f | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 \$4 \$4 \$4 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) Stylized fish (die cut 10×9 ¹ / ₂) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus Northern Red Snapper (Red Snapper), Lutjanus campechanus Pelagic (Spot-fin) Porcupinefish, Diodon hystrix Yellow Longnose (Longnose) Butterflyfish, Forcipiger flavissin 2018 June 29 (Sharks) (MS/4 & SS/1) | Zanclidae Acanthuridae Pomacanthidae Lutjanidae Diodontidae mus Chaetodontidae | S S S S A S A S A S A S A |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c 1954d 1954e | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 \$4 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) Stylized fish (die cut 10×9 ¹ / ₂) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus Northern Red Snapper (Red Snapper), Lutjanus campechanus Pelagic (Spot-fin) Porcupinefish, Diodon hystrix Yellow Longnose (Longnose) Butterflyfish, Forcipiger flavissin | /6) Zanclidae Acanthuridae Pomacanthidae Lutjanidae Diodontidae | S S S S A S A S A S A S A |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c 1954d 1954e 1954f | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 \$4 \$4 \$4 \$4 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) Stylized fish (die cut 10×9 ¹ / ₂) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus Northern Red Snapper (Red Snapper), Lutjanus campechanus Pelagic (Spot-fin) Porcupinefish, Diodon hystrix Yellow Longnose (Longnose) Butterflyfish, Forcipiger flavissin 2018 June 29 (Sharks) (MS/4 & SS/1) Shortfin Mako Shark, Isurus oxyrinchus Tiger Shark, Galeocerdo cuvier | Zanclidae Acanthuridae Pomacanthidae Lutjanidae Diodontidae mus Chaetodontidae | S S S S A S A S A S A S A |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c 1954d 1954e 1954f | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 \$4 \$4 \$4 \$6 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) Stylized fish (die cut 10×9 ¹ / ₂) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus Northern Red Snapper (Red Snapper), Lutjanus campechanus Pelagic (Spot-fin) Porcupinefish, Diodon hystrix Yellow Longnose (Longnose) Butterflyfish, Forcipiger flavissin 2018 June 29 (Sharks) (MS/4 & SS/1) Shortfin Mako Shark, Isurus oxyrinchus | Zanclidae Acanthuridae Pomacanthidae Lutjanidae Diodontidae mus Chaetodontidae Lamnidae Carcharhinidae | S S S S A S A S A S A S A A A A |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c 1954d 1954f 1954f | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 \$4 \$4 \$4 \$6 \$6.50 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) Stylized fish (die cut 10×9 ¹ / ₂) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus Northern Red Snapper (Red Snapper), Lutjanus campechanus Pelagic (Spot-fin) Porcupinefish, Diodon hystrix Yellow Longnose (Longnose) Butterflyfish, Forcipiger flavissin 2018 June 29 (Sharks) (MS/4 & SS/1) Shortfin Mako Shark, Isurus oxyrinchus Tiger Shark, Galeocerdo cuvier Great White (White) Shark, Carcharodon carcharias | Zanclidae Acanthuridae Pomacanthidae Lutjanidae Diodontidae mus Chaetodontidae Lamnidae Carcharhinidae Lamnidae | S S S S S A S A S A S A S A A A A A A A |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c 1954d 1954f 1958a 1958b 1958c 1958d 1959 | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 \$4 \$4 \$5.50 \$6 \$6.50 \$7 \$S\$\$10 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) Stylized fish (die cut 10×9 ¹ / ₂) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus Northern Red Snapper (Red Snapper), Lutjanus campechanus Pelagic (Spot-fin) Porcupinefish, Diodon hystrix Yellow Longnose (Longnose) Butterflyfish, Forcipiger flavissin 2018 June 29 (Sharks) (MS/4 & SS/1) Shortfin Mako Shark, Isurus oxyrinchus Tiger Shark, Galeocerdo cuvier Great White (White) Shark, Carcharodon carcharias Bull Shark, Carcharhinus leucas Smooth Hammerhead Shark, Sphyrna zygaena | Zanclidae Acanthuridae Pomacanthidae Lutjanidae Diodontidae mus Chaetodontidae Lamnidae Carcharhinidae Lamnidae Carcharhinidae | S S S S S S S S S S S S S S S S S S S |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c 1954d 1954e 1954f 1958a 1958b 1958c 1958d 1959 NORFO | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 \$4 \$4 \$4 \$5.50 \$6.50 \$7 \$S \$10 | Stylized fish (perf 13½×13½) Stylized fish (die cut 10×9½) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus Northern Red Snapper (Red Snapper), Lutjanus campechanus Pelagic (Spot-fin) Porcupinefish, Diodon hystrix Yellow Longnose (Longnose) Butterflyfish, Forcipiger flavissin 2018 June 29 (Sharks) (MS/4 & SS/1) Shortfin Mako Shark, Isurus oxyrinchus Tiger Shark, Galeocerdo cuvier Great White (White) Shark, Carcharodon carcharias Bull Shark, Carcharhinus leucas Smooth Hammerhead Shark, Sphyrna zygaena ND 2018 April 30 (Wrasses) (Set/2 & SS/2) | Zanclidae Acanthuridae Pomacanthidae Lutjanidae Diodontidae mus Chaetodontidae Lamnidae Carcharhinidae Lamnidae Carcharhinidae Sphyrnidae | S S S S S A S A S A S A S A A A A A A A |
| 2804d 2805d NEVIS 1951 1952 1954a 1954b 1954c 1954d 1954f 1958a 1958b 1958c 1958d 1959 | \$2.40 \$2.40 Margin Margin \$4 \$4 \$4 \$4 \$4 \$5.50 \$6 \$6.50 \$7 \$S\$\$10 | Stylized fish (perf 13 ¹ / ₄ ×13 ¹ / ₂) Stylized fish (die cut 10×9 ¹ / ₂) (s/a) 2018 May 24 (Whales) (MS/3 & SS/1) L & R: Stylized fish (w/ three whale stamps) L & R: Stylized fish (w/ whale SS stamp) 2018 June 5 (Colorful Saltwater Fish) (MS Moorish Idol, Zanclus cornutus Black Tang (Longnose Surgeonfish), Zebrasoma rostratum Flame Angelfish, Centropyge loriculus Northern Red Snapper (Red Snapper), Lutjanus campechanus Pelagic (Spot-fin) Porcupinefish, Diodon hystrix Yellow Longnose (Longnose) Butterflyfish, Forcipiger flavissin 2018 June 29 (Sharks) (MS/4 & SS/1) Shortfin Mako Shark, Isurus oxyrinchus Tiger Shark, Galeocerdo cuvier Great White (White) Shark, Carcharodon carcharias Bull Shark, Carcharhinus leucas Smooth Hammerhead Shark, Sphyrna zygaena | Zanclidae Acanthuridae Pomacanthidae Lutjanidae Diodontidae mus Chaetodontidae Lamnidae Carcharhinidae Lamnidae Carcharhinidae | S S S S S S S S S S S S S S S S S S S |

Z Z

Scombridae

Istiophoridae

| NORFOLK ISLA | | | |
|-----------------|--|------------------------|----------|
| 1141a | SS/2 (Sc#1140–41) | | |
| _ | MS contains images of other variations of the two species on the s | stamps plus male, fema | ale, and |
| · · | the following species: | T 1 '1 | 7 |
| Margin | Threespot Wrasse, Halichoeres trimaculatus | Labridae | Z |
| | Inscribed Wrasse, <i>Notolabrus inscriptus</i> Yellow-brown (Green Moon) Wrasse, <i>Thalassoma lutescens</i> | Labridae Labridae | Z Z |
| | Tellow-blowii (Green Mooli) wrasse, Indiassoma luiescens | Labridae | L |
| NORWAY | 2018 April 20 (Yellow Perch) (Single) | | |
| 1845 18k | European perch, Perca fluviatilis | Percidae | A |
| PERU | 2018 February 12 (Fish of Peru) (MS/4) | | |
| | Giant Manta, Mobula birostris | Myliobatidae | Α |
| 1960b 3s | Smooth Hammerhead Shark, Sphyrna zygaena | Sphyrnidae | A |
| 1960c 3s | Pacific Seahorse, <i>Hippocampus ingens</i> (extends into margin) | Syngnathidae | A |
| 1960d 3s | Californian Needlefish, Strongylura exilis | Belonidae | Α |
| SIERRA LEONE | 2017 January 30 (Art of Pompidou Center |) (MS/4) | |
| 4106a 6000le | Stylized fish (Chagall ptg: "The Blue Circus") | | S C |
| | 2017 March 30 (Fish) (MS/4 & SS/1) | | |
| 4177a 9800le | Golden Pheasant Panchax, Callopanchax occidentalis | Nothobranchiidae | A |
| | Red Squirrelfish, Sargocentron hastatum | Holocentridae | A |
| 4177c 9800le | Bluespotted Triggerfish, Balistes punctatus | Balistidae | A |
| 4177d 9800le | Mediterranean Rainbow Wrasse, Coris julis | Labridae | A |
| 4177 Margin | UL: U/I species | | UZ |
| | UR: Hammerhead Shark, Sphyrna sp. | Sphyrnidae | UZ |
| 4196 SS 40000le | Queen Triggerfish, Balistes vetula | Balistidae | A |
| Margin | UR: U/I species | ~ | UΖ |
| | UL: Hammerhead Shark, <i>Sphyrna</i> sp. | Sphyrnidae | UΖ |
| | LL: Shortfin Mako Shark, Isurus oxyrinchus | Lamnidae | Z |
| | LR: Blackbelly Rosefish, Helicolenus dactylopterus | Sebastidae | Z |
| | 2017 May 30 (Jacques Ives Cousteau) (MS | | |
| 4326 6600le | UL: Great White Shark, Carcharodon carcharias (w/ Cousteau) | Lamnidae | В |
| | LL: Siamese Fighting Fish, Betta splendens | Osphronemidae | В |
| | Clown Anemonefish, Amphiprion ocellaris (w/ Cousteau) | Pomacentridae | В |
| 4330 SS 40000le | LR: Copperband Butterflyfish, Chelmon rostratus | Chaetodontidae | Z |
| | 2017 September 29 (Water Birds) (MS/4 & | ₹ SS/1) | |
| | U/I fish (in beak of <i>Anhinga rufa</i>) | | UC |
| | U/I fish (in beak of <i>Sula leucogaster</i>) | | UC |
| | U/I fish (in beak of <i>Pelecanus rufescens</i>) | | UC |
| Margin | LR: U/I fish (in beak of Gelochelidon nilotica) | | UC |
| | 2017 September 29 (Fish) (MS/4 & SS/1) | | |
| 4468a 9800le | Goldfish, Carassius auratus | Cyprinidae | A |
| 4468b 9800le | Blue Marlin, Makaira nigricans | Istiophoridae | A |
| 4468c 9800le | Clown Anemonefish, Amphiprion ocellaris | Pomacentridae | A |
| 4468d 9800le | Oscar, Astronotus ocellatus | Cichlidae | A |
| | Bot: Largemouth Bass, Micropterus salmoides | Centrarchidae | Z |
| 4488 SS 40000le | Narrow-lined Puffer, Arothron manilensis | Tetraodontidae | A |

Margin Bot: Yellowfin tuna, Thunnus albacares

MR: Blue Marlin, Makaira nigricans

| SIERR | A LEONE | (continued) 2017 September 29 (Sharks) (MS/4 & SS/ | 1) | |
|----------------|------------|--|---------------------------------|--------|
| 4469a | 9800le | Shortfin Mako Shark, Isurus oxyrinchus | Lamnidae | A |
| 4469b | 9800le | Great Hammerhead Shark, Sphyrna mokarran | Sphyrnidae | A |
| 4469c | 9800le | Sicklefin Lemon Shark, Negaprion acutidens | Carcharhinidae | A |
| 4469d | 9800le | Tiger Shark, Galeocerdo cuvier | Carcharhinidae | A |
| 4469 | Margin | Bot: Great Hammerhead Shark, Sphyrna mokarran | Sphyrnidae | Z |
| 4489 S | SS 40000le | Great white Shark, Carcharodon carcharias (also lower margin |) Lamnidae | AZ |
| | | 2017 September 29 (Piranhas) (MS/4 & S | S/1) | |
| 4470a | 9800le | Redeye Piranha, Serrasalmus rhombeus | Serrasalmidae | A |
| 4470b | | Piranha (no common name), Pristobrycon careospinus | Serrasalmidae | A |
| 4470c | | Red Piranha, <i>Pygocentrus nattereri</i> | Serrasalmidae | A |
| 4470d | 9800le | Piranha (no common name), Serrasalmus manueli | Serrasalmidae | A |
| 4470 | Margin | LL: Speckled Piranha, Serrasalmus spilopleura | Serrasalmidae | Z |
| | _ | LR: Black Spot Piranha, Pygocentrus cariba | Serrasalmidae | Z |
| 4490 S | SS 40000le | Wimple Piranha, Catoprion mento | Serrasalmidae | A |
| | Margin | LL: Redeye Piranha, Serrasalmus rhombeus | Serrasalmidae | Z |
| | | 2017 October 30 (120th anniv. Boston Ma | rathon) (MS/4) | |
| 4506c | 9800le | Stylized fish (on old flag of Canada) | | S C |
| | | 2017 December 29 (Kingfishers) (MS/4) | | |
| 4595a | 9800le | U/I fish (in beak of <i>Halcyon badia</i>) | | UC |
| | | 2017 December 29 (Manatees) (MS/4 & S | C /1) | |
| 4588 | Morgin | MS Bkgrd: U/I fish in small school | 3/1) | UCZ |
| | _ | Bkgrd: U/I fish in small school | | UCZ |
| | | - | | UCZ |
| | | IQUELON 2018 May 19 (Cod Fishermen) (Single) | | |
| 1061 | 46c | Atlantic cod, <i>Gadus morhua</i> (fishermen with cod skin) | Gadidae | C |
| ST. VI | NCENT | 2017 June 2 (Sharks) (2ea MS/3) | | |
| 4103a | \$5 | Tiger Shark, Galeocerdo cuvier | Carcharhinidae | A |
| 4103b | \$5 | Whale Shark, Rhincodon typus | Rhincodontidae | A |
| 4103c | \$5 | Pacific Sleeper Shark, Somniosus pacificus | Somniosidae | A |
| 4103 | Margin | UR: Great White Shark, Carcharodon carcharias | Lamnidae | Z |
| 4104a | \$5 | Basking Shark, Cetorhinus maximus | Cetorhinidae | A |
| 4104b | | Great Hammerhead Shark, Sphyrna mokarran | Sphyrnidae | A |
| 4104c | | Great White (White) Shark, Carcharodon carcharias | Lamnidae | A |
| 4104 | Margin | UL: Whale Shark, Rhincodon typus | Rhincodontidae | Z |
| | | 2017 September 28 (Marine Life) (MS/3) | | |
| 4116 | Margin | Top: U/I fish in small school | | UCZ |
| | Č | 2018 March 7 (Marine Life of Caribbean) | (MS/1 & SS/2) | |
| 41420 | \$6 | | | ٨ |
| 4143a 4143c | \$6 \$8 | Flying Gurnard, <i>Dactylopterus volitans</i> Great Barracuda, <i>Sphyraena barracuda</i> | Dactylopteridae Sphyraenidae | A A |
| 4143c 4143d | \$8 | Southern Stingray, Dasyatis americanus | Dasyatidae | |
| 41430 | Margin | | Pomacentridae | A Z |
| 4143 | iviaigili | MR: French Angelfish (juvenile), <i>Pomacanthus paru</i> (partial) LR: Stoplight parrotfish, <i>Sparisoma viride</i> (partial) | Scaridae | Z Z |
| | | ML: Spanish hogfish (juvenile?), <i>Bodianus rufus</i> (partial) | Labridae Labridae | Z Z |
| 4144a | SS \$7 | Yellowhead Jawfish, <i>Opistognathus aurifrons</i> | Opistognathidae | A A |
| 4144b | SS \$8 | Longsnout Seahorse, <i>Hippocampus reidi</i> | Syngnathidae | A |
| 41440 | | LL: Sergeant-major, Abudefduf saxatilis | Pomacentridae | Z |
| | _ | | | L |
| THAIL | | 2018 April 2 (Thai Heritage Conservation) | (Set/4) | 2.2 |
| 2997 | 3b | Stylized fish (mural painting) | | S C |
| | | | | |

NON-MACHINEABLE RATE STAMPS

In 2010, the U.S. Postal Service began issuing a series of special stamps to accommodate paying the total fee for a first-class letter weighing up to two ounces. This fee includes the regular first-class rate and the additional fee for the second ounce. It also happens that the USPS charges this same fee for non-machinable mail items.

The non-machinable surcharge is applied to envelopes that cannot be serviced by the automatic sorting machines. Items that meet the criterion for this treatment include: odd-shaped, length divided by height is less than 1.3 or more than 2.5, container is too stiff to bend, container is lumpy, or has ribbons, buttons, or clasps.

The square stamp format was developed in partnership with the greeting card industry for use on oversized or square envelopes. These stamps are also valid on any piece of mail at their denominated value, or in the case of non-denominated stamps, their current rated value.

Artist Tom Engerman created the art for each stamp on a computer using images of preserved butterflies as a starting point. The resulting art is a stylized, simplified image of the species rather than an exact replica. Derry Noyes of the USPS designed each stamp. The USPS has used different printers for the stamps.

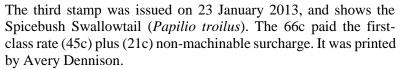
Each stamp was issued in a pane of 20 and uses self-adhesive gum. They are all non-soakable and therefore used copies are best left on piece.

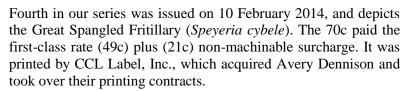
The first stamp in this series was issued on 17 May 2010, and shows the Monarch butterfly (*Danaus plexippus*). The 64c denomination pays the first-class rate (44c) plus (20c) non-machinable surcharge. It was printed by Avery Dennison.

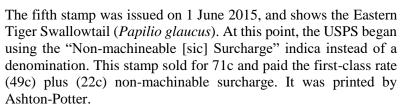


Euphydryas phaeton 2012, Sc#4603

Our second stamp was issued on 20 January 2012, and depicts the Baltimore Checkerspot (*Euphydryas phaeton*). The 65c paid the first-class rate (44c) plus (21c) non-machinable surcharge. It was printed by Avery Dennison.









Speyeria cybele 2014, Sc#4859



Cupido comyntas 2016, Sc#5136

The sixth and current stamp was issued on 24 September 2016. It shows the Eastern Tailed-Blue (*Cupido comyntas*). This stamp initially sold for 68c and paid the first-class rate (47c) plus (21c) non-machinable surcharge. It was printed by Ashton-Potter. The current (2018) rate for this stamp is 71c.

The design for a seventh stamp shows a California Dogface (*Zerene eurydice*).



Zerene eurydice 2019?



Danaus plexippus 2010, Sc#4462



Papilio troilus 2013, Sc#4736



Papilio glaucus 2015, Sc#4999

Scott#

b

N/A

N/A

N/A

N/A

N/A

N/A

N/A

4697

4701

4702

4702a

4706 4706a

4706b

a

b

c d

e

N/A

f

g

h

i

j

COLOMBIA

BELGIUM

(€1.48)

BOSNIA & HERZEGOVINA

AUSTRALIA

ALGERIA



ANTIGUA & BARBUDA

Margin L: Stylized Dragonflies

\$4 Megachile lagopoda L.

Bklt/10 (Sc#4702)

Bklt/10 (Sc#4706) Strip/5 (Sc#4702–06)

Margin Top: Butterfly silhouette

1000p Isabella Tiger, Eueides isabella ssp. arquata Stichel

Doris, Laparus doris ssp. obscurus Weymer

1000p Darkened Longwing, Eucides procula ssp. edias Hewitson

1000p White-barred Longwing, *Heliconius cydno* ssp. cydnides Stgr.

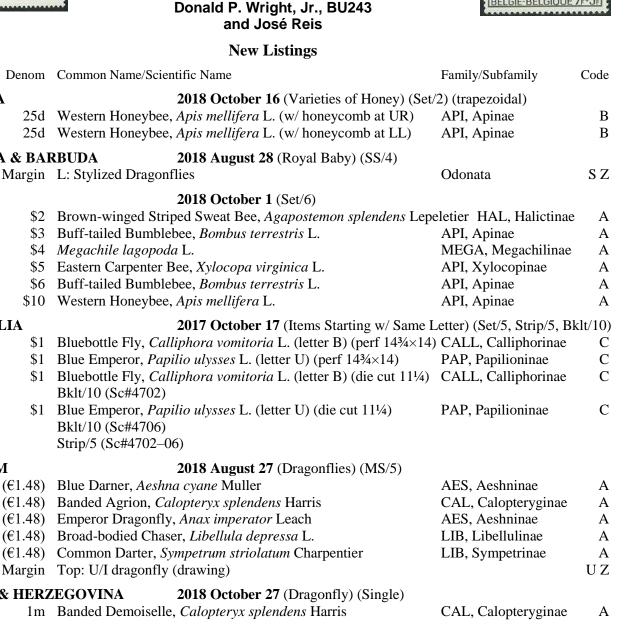
ENTOMOLOGY

Editor

Donald P. Wright, Jr., BU243

2018 August 27 (Birds & Butterflies) (MS/15)

1000p Crimson-patched Longwing, Heliconius erato ssp. chestertonii Hew. NYM, Heliconiinae



NYM, Heliconiinae

NYM, Heliconiinae

NYM, Heliconiinae

NYM, Heliconiinae

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| DJIB | OUTI | 2017 December 11 (Bee-eaters) (MS/4 & S | SS/1) (DJB17611a&b) | |
|--------------------------|--|---|--|---|
| 1316a | 240fr | U/I Bee (in beak of <i>Merops apiaster</i>) | Apidae | UC |
| 1316b | 240fr | U/I Bee (in beak of <i>M. variegatus</i>) | Apidae | UC |
| 1316c | 240fr | U/I insect (in beak of <i>M. malimbicus</i>) | | UC |
| 1335 | SS 950fr | U/I Dragonfly (in bird's beak) (also in margin) | Odonata | UCZ |
| | | 2017 December 11 (Butterflies) (MS/4 & S | | |
| 1318a | | Purple Emperor, <i>Apatura iris</i> L. | NYM, Apaturinae | A |
| 1318b | | Eastern Tiger Swallowtail, Papilio glaucus L. | PAP, Papilioninae | A |
| 1318c | | Pipevine Swallowtail, Battus philenor L. | PAP, Papilioninae | A |
| 1318d | | , 1 2 | LYC, Theclinae | A |
| 1337 | SS 950fr | 1 , 1 | PAP, Papilioninae | A |
| | Margin | | NYM, Danainae | Z |
| | | LL & MR: Spicebush Swallowtail, Papilio troilus L. | PAP, Papilioninae | Z |
| | | 2017 December 11 (Orchids) (SS/1) (DJB | | |
| 1342 | Margin | LL: Crimson-Speckled Moth, Utetheisa pulchella L. | ARC, Arctiinae | Z |
| | | UR: Viceroy, Limenitis archippus Cramer | NYM, Limenitidinae | Z |
| ESTO | NIA | 2018 August 23 (Mushroom) (Single) | | |
| N/A | 65c | Stylized Ant (w/ mushroom) | Formicidae | S C |
| FINL | AND | 2018 September 12 (Flora & Fauna) (Strip | 0/5) | |
| a | (€1.50) | | COC, Coccinellinae | A |
| FRAN | ICE | 2018 May 4 (Flower Arrangements) (Bklt/ | 10) (Red Cross) | |
| B785 | (80c+20c) | U/I Butterflies (w/ Zinnia flowers) | 10) (166 61055) | UВ |
| B785a | . , | Bklt/10 (Sc#B776–85) | | 0.2 |
| | | | | |
| GREI | ECE | 2018 May 20 (World Bee Day) (Set/4 & 40 | ea SS/1) | |
| | | 2018 May 20 (World Bee Day) (Set/4 & 4d to issued in a SS/1 | ea SS/1) | |
| | stamp was als | · · · · · · · · · · · · · · · · · · · | ea SS/1) API, Apinae | A |
| | stamp was als | to issued in a SS/1 | · | A A |
| | stamp was als 50c | o issued in a SS/1 Western Honeybee, <i>Apis mellifera</i> L. | API, Apinae | |
| | stamp was als 50c 72c | western Honeybee, <i>Apis mellifera</i> L. Same species | API, Apinae API, Apinae | A |
| | stamp was als 50c 72c 80c €2 | o issued in a SS/1 Western Honeybee, <i>Apis mellifera</i> L. Same species Same species | API, Apinae API, Apinae API, Apinae API, Apinae | A A |
| Each | stamp was als 50c 72c 80c €2 | Western Honeybee, <i>Apis mellifera</i> L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & | API, Apinae API, Apinae API, Apinae API, Apinae | A A |
| Each s | stamp was als 50c 72c 80c €2 ANA \$200 \$300 | Western Honeybee, <i>Apis mellifera</i> L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, <i>Dryas iulia</i> Fabr. Cloudless Sulfur, <i>Phoebis sennae</i> L. | API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae | A A A |
| GUYA | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 | Western Honeybee, <i>Apis mellifera</i> L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, <i>Dryas iulia</i> Fabr. Cloudless Sulfur, <i>Phoebis sennae</i> L. Isabella Tiger, <i>Eueides isabella</i> Cramer | API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae | A A A A A |
| GUYA a b | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 | Western Honeybee, <i>Apis mellifera</i> L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, <i>Dryas iulia</i> Fabr. Cloudless Sulfur, <i>Phoebis sennae</i> L. Isabella Tiger, <i>Eueides isabella</i> Cramer Zebra Mosaic, <i>Colobura dirce</i> L. | API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae | A A A A A A |
| GUYA a b c | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 | Western Honeybee, <i>Apis mellifera</i> L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, <i>Dryas iulia</i> Fabr. Cloudless Sulfur, <i>Phoebis sennae</i> L. Isabella Tiger, <i>Eueides isabella</i> Cramer Zebra Mosaic, <i>Colobura dirce</i> L. UL: Common Clubtail, <i>Atrophaneura coon</i> Fabr. (silhouette) | API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae | A A A A A A S Z |
| GUYA a b c | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin | Western Honeybee, <i>Apis mellifera</i> L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, <i>Dryas iulia</i> Fabr. Cloudless Sulfur, <i>Phoebis sennae</i> L. Isabella Tiger, <i>Eueides isabella</i> Cramer Zebra Mosaic, <i>Colobura dirce</i> L. UL: Common Clubtail, <i>Atrophaneura coon</i> Fabr. (silhouette) UR: Stylized Butterfly silhouette | API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae | A A A A A S Z S Z |
| GUYA a b c d | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. | API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae | A A A A A A S Z S Z A |
| GUYA a b c | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 \$350 | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. Lemon Butterfly, Papilio demoleus L. | API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae NYM, Heliconiinae | A A A A A A S Z S Z A A |
| GUYA a b c d | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 \$350 \$450 | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. Lemon Butterfly, Papilio demoleus L. Doris Longwing, Laparus doris L. | API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae NYM, Heliconiinae NYM, Heliconiinae | A A A A A A S Z S Z A A A |
| GUYA a b c d | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 \$350 \$450 \$550 | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. Lemon Butterfly, Papilio demoleus L. Doris Longwing, Laparus doris L. Malachite, Siproeta stelenes L. | API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae PAP, Papilioninae NYM, Heliconiinae NYM, Heliconiinae | A A A A A A S Z S Z A A A A |
| GUYA a b c d | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 \$350 \$450 \$550 Margin | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. Lemon Butterfly, Papilio demoleus L. Doris Longwing, Laparus doris L. Malachite, Siproeta stelenes L. UL & UR: Stylized Butterfly silhouettes | API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae PAP, Papilioninae NYM, Heliconiinae NYM, Heliconiinae NYM, Heliconiinae NYM, Nymphalinae NYM, Nymphalinae | A A A A A S Z S Z A A A A S Z |
| GUYA a b c d | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 \$350 \$450 \$550 Margin SS \$400 | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. Lemon Butterfly, Papilio demoleus L. Doris Longwing, Laparus doris L. Malachite, Siproeta stelenes L. UL & UR: Stylized Butterfly silhouettes Common Morpho, Morpho helenor ssp. peleides Kollar (v) | API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae PAP, Papilioninae NYM, Heliconiinae NYM, Heliconiinae NYM, Nymphalinae NYM, Nymphalinae NYM, Nymphalinae NYM, Nymphalinae | A A A A A S Z S Z A A A A S Z |
| GUYA a b c d | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 \$350 \$450 \$550 Margin SS \$400 SS \$400 | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. Lemon Butterfly, Papilio demoleus L. Doris Longwing, Laparus doris L. Malachite, Siproeta stelenes L. UL & UR: Stylized Butterfly silhouettes Common Morpho, Morpho helenor ssp. peleides Kollar (v) Same species (r) | API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae PAP, Papilioninae NYM, Heliconiinae NYM, Heliconiinae NYM, Nymphalinae NYM, Nymphalinae NYM, Nymphalinae NYM, Nymphalinae NYM, Morphinae | A A A A A A S Z S Z A A A A S Z S Z A A A A A A A A A A A A A A A A A A A |
| GUYA a b c d | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 \$350 \$450 \$550 Margin SS \$400 | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. Lemon Butterfly, Papilio demoleus L. Doris Longwing, Laparus doris L. Malachite, Siproeta stelenes L. UL & UR: Stylized Butterfly silhouettes Common Morpho, Morpho helenor ssp. peleides Kollar (v) Same species (r) LR: Monarch, Danaus plexippus L. (silhouette) | API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae PAP, Papilioninae NYM, Heliconiinae NYM, Heliconiinae NYM, Nymphalinae NYM, Nymphalinae NYM, Nymphalinae NYM, Morphinae NYM, Morphinae NYM, Morphinae NYM, Danainae | A A A A A A A A A A A A A A A A A A A |
| GUYA a b c d | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 \$350 \$450 \$550 Margin SS \$400 SS \$400 | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. Lemon Butterfly, Papilio demoleus L. Doris Longwing, Laparus doris L. Malachite, Siproeta stelenes L. UL & UR: Stylized Butterfly silhouettes Common Morpho, Morpho helenor ssp. peleides Kollar (v) Same species (r) LR: Monarch, Danaus plexippus L. (silhouette) UL: Stylized Butterfly silhouette | API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae PAP, Papilioninae NYM, Heliconiinae NYM, Heliconiinae NYM, Nymphalinae NYM, Nymphalinae NYM, Nymphalinae NYM, Nymphalinae NYM, Morphinae | A A A A A A S Z S Z A A A A S Z S Z A A A A A A A A A A A A A A A A A A A |
| GUYA a b c d | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 \$350 \$450 \$550 Margin SS \$400 SS \$400 Margin | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. Lemon Butterfly, Papilio demoleus L. Doris Longwing, Laparus doris L. Malachite, Siproeta stelenes L. UL & UR: Stylized Butterfly silhouettes Common Morpho, Morpho helenor ssp. peleides Kollar (v) Same species (r) LR: Monarch, Danaus plexippus L. (silhouette) UL: Stylized Butterfly silhouette | API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae PAP, Papilioninae NYM, Heliconiinae NYM, Heliconiinae NYM, Nymphalinae NYM, Nymphalinae NYM, Nymphalidae NYM, Morphinae NYM, Morphinae NYM, Danainae Nymphalidae | A A A A A A A A A A A A A A A A A A A |
| GUYA a b c d | stamp was als 50c 72c 80c €2 ANA \$200 \$300 \$400 \$500 Margin \$250 \$350 \$450 \$550 Margin SS \$400 SS \$400 | Western Honeybee, Apis mellifera L. Same species Same species Same species 2018 March 14 (Butterflies) (2ea MS/4 & Julia, Dryas iulia Fabr. Cloudless Sulfur, Phoebis sennae L. Isabella Tiger, Eueides isabella Cramer Zebra Mosaic, Colobura dirce L. UL: Common Clubtail, Atrophaneura coon Fabr. (silhouette) UR: Stylized Butterfly silhouette Red Postman, Heliconius erato L. Lemon Butterfly, Papilio demoleus L. Doris Longwing, Laparus doris L. Malachite, Siproeta stelenes L. UL & UR: Stylized Butterfly silhouettes Common Morpho, Morpho helenor ssp. peleides Kollar (v) Same species (r) LR: Monarch, Danaus plexippus L. (silhouette) UL: Stylized Butterfly silhouette | API, Apinae API, Apinae API, Apinae API, Apinae API, Apinae SS/2) NYM, Heliconiinae PIE, Coliadinae NYM, Heliconiinae NYM, Nymphalinae PAP, Papilioninae Nymphalidae NYM, Heliconiinae PAP, Papilioninae NYM, Heliconiinae NYM, Heliconiinae NYM, Nymphalinae NYM, Nymphalinae NYM, Nymphalinae NYM, Morphinae NYM, Morphinae NYM, Morphinae NYM, Danainae | A A A A A A A A A A A A A A A A A A A |

| ISRAEL | | 2018 April 9 (Spring Flowers) (MS/4) | | |
|---------|------------|---|---------------------|----------------|
| a | 4.10s | Small Copper, Lycaena phlaeas L. | LYC, Lycaeninae | В |
| b | | U/I Butterfly | LYC, Polyommatinae | UВ |
| c | 4.10s | Black-Veined White, Aporia crataegi L. | PIE, Pierinae | В |
| d | 4.10s | U/I Beetle | ?Chrysomelidae | U B |
| JAPAN | COM | 2017 September 20 (Traditional Color Seri | | CII |
| 4148h | 62¥ | Stylized Dragonflies | Odonata | S U |
| KAZAK | HSTAN | 2018 October 19 (Nature Reserves) (MS/3) |) | |
| b | 500te | Apollo, Parnassius apollo L. | PAP, Parnassiinae | A |
| | Margin | Bot: Red Admiral, Vanessa atalanta L. | NYM, Nymphalinae | Z |
| KOREA | (North) | 2018 (Prague 2018 Expo) (SS/2) | | |
| a | 70w | Old World Swallowtail, Papilio machaon L. (round) | PAP, Papilioninae | A |
| b | 70w | U/I Honeybee (w/ orchid) | API, Apinae | U A |
| KYRGY | ZSTAN | 2018 September 7 (Butterflies) (Set/3 & SS | S/3) | |
| a | 50s | Parnassius loxias ssp. tashkorensis Kreuzberg | PAP, Parnassiinae | A |
| b | 100s | Colias regia Grum-Grshimailo | PIE, Coliadinae | A |
| c | 150s | Colias christophi Grum-Grshimailo | PIE, Coliadinae | Α |
| | Margin | LL: Large Keeled Apollo, Parnassius tianschanicus Oberthür | PAP, Parnassiinae | Z |
| LIBERIA | 4 | 2018 September 8 (Moths) (2ea SS/2) (ova | 1) | |
| a | \$390 | Tailed Comet Moth, Actias mittrei Guerin-Méneville (larva) | SAT, Saturniinae | A |
| b | \$390 | Same species (two larvae) | SAT, Saturniinae | Α |
| | _ | R: Same species (adult) | SAT, Saturniinae | Z |
| a | \$390 | Tailed Comet Moth, Actias mittrei Guerin-Méneville (w/ tails) | SAT, Saturniinae | A |
| b | \$390 | Same species (body less tails) | SAT, Saturniinae | A |
| | Margin | Top: Same species (two larvae) | SAT, Saturniinae | Z |
| | | 2018 October 25 (Butterflies of Africa) (M | S/3) (round) | |
| a | \$100 | Giant Blue Swallowtail, Papilio zalmoxis Hewitson | PAP, Papilioninae | A |
| b | \$200 | Blue Salamis, Salamis temora C&R Felder | NYM, Nymphalinae | A |
| c | \$300 | Blue Diadem, Hypolimnas salmacis Drury | NYM, Nymphalinae | A |
| MALAW | / I | 2018 (Red Surcharges) | | |
| 854 | | E. Black & Yellow Sw'tail, <i>Papilio pelodurus</i> Butler (Sc#737 st | | A |
| 855 | 1200k | Forest Queen, Euxanthe wakefieldi Ward (Sc#706 surch) | NYM, Charaxinae | A |
| MOLDO | VA | 2018 April 13 (Months of the Year) (MS/3- | +1 label) | |
| 980 | Margin | Label & LR: Tiny stylized Butterflies | Lepidoptera | SZ |
| NEW CA | LEDON | IA 2018 November 7 (Fauna) (Strip/3) | | |
| b | | Callismilax bouabouiensis | TEN, Tenebrioninae | A |
| | | 2018 November 8 (Pollinators) (MS/4) | | |
| c | 110fr | Western Honeybee, Apis mellifera ssp. mellifera L. | API, Apinae | A |
| d | | New Caledonian Grass Yellow, Eurema hecabe ssp. novacaledo | | 7 1 |
| - | 11011 | Corbet & Pendlebury | PIE, Coliadinae | A |
| | Margin | LL: Same species | PIE, Coliadinae | Z |
| | 8 | Ctr & Bot: Western Honeybee, <i>Apis mellifera</i> ssp. <i>mellifera</i> L. | API, Apinae | \overline{Z} |
| POLANI |) | 2018 September 30 (Beetles) (Set/2) | _ | |
| N/A | | Polish Rhinoceros Beetle, <i>Oryctes nasicornis</i> ssp. <i>polonicus</i> Min | nck SCA, Dvnastinae | A |
| N/A | | Vermilion Flat Bark Beetle, <i>Cucujus cinnaberinus</i> Scopoli | • | ew) A |
| | | . , | 3 | , |

| ROMA | NIA | 2018 August 17 (National Parks of Romani | ia) (Set/4) | |
|---------|--------------|---|---------------------|----|
| N/A | 191 | European Stag Beetle, Lucanus cervus L. | LUC, Lucaninae | A |
| ST. MA | RTIN | 2018 October 28 (Butterflies) (MS/24) | | |
| a | 100c | Peacock, Nymphalis io L | NYM, Nymphalinae | Α |
| b | 100c | Mourning Cloak, Nymphalis antiopa L. | NYM, Nymphalinae | A |
| c | 100c | Holly Blue, Celastrina argiolus L. | LYC, Polyommatinae | A |
| d | 100c | Ringlet, Aphantopus hyperantus L. | NYM, Satyrinae | A |
| e | 100c | American Copper, Lycaena phlaeas L. | LYC, Lycaeninae | Α |
| f | 100c | Duke of Burgundy, Hamearis lucina L. | RIO, Riodininae | Α |
| g | 100c | Grayling, Hipparchia semele L. | NYM, Satyrinae | Α |
| h | 100c | Dingy Skipper, Erynnis tages L. | HES, Pyrginae | Α |
| i | 100c | Common Blue, Polyommatus icarus Rottemburg | LYC, Polyommatinae | A |
| j | 100c | Bath White, <i>Pontia daplidice</i> L. | PIE, Pierinae | A |
| k | 100c | European Brown Hairstreak, Thecla betulae L. | LYC, Theclinae | A |
| 1 | 100c | Orange Tip, Anthocharis cardamines L. | PIE, Pierinae | A |
| m | 100c | Large White, Pieris brassicae L. | PIE, Pierinae | Α |
| n | 100c | Red Admiral, Vanessa atalanta L. | NYM, Nymphalinae | A |
| O | 100c | Cabbage White, <i>Pieris rapae</i> L. | PIE, Pierinae | Α |
| p | 100c | Arctic Skipper, Carterocephalus palaemon Pallas | HES, Heteropterinae | Α |
| q | | Pearl Fritillary, Clossiana euphrosyne L. | NYM, Heliconiinae | Α |
| r | 100c | | NYM, Nymphalinae | A |
| S | | Large Blue, Maculinea arion L. | LYC, Polyommatinae | A |
| t | | Eurasian Comma, Nymphalis c-album L. | NYM, Nymphalinae | A |
| u | | Meadow Brown, Maniola jurtina L. | NYM, Satyrinae | A |
| V | | Painted Lady, Vanessa cardui L. | NYM, Nymphalinae | A |
| W | 100c | Purple Emperor, Apatura iris L. | NYM, Apaturinae | A |
| X | 100c | Old World Swallowtail, Papilio machaon L. | PAP, Papilioninae | A |
| ST. VIN | ICENT | 2018 March 7 (Muhammad Ali) (MS/4) | | |
| 4135 | Margin | Quote: "Float like a butterfly, sting like a bee" (no insect) | | R |
| | | 2018 October 26 (Honeybees) (MS/4) | | |
| a | \$4 | Western Honeybee, Apis mellifera L. | API, Apinae | A |
| b | \$5 | Same species | API, Apinae | A |
| c | \$6 | Same species | API, Apinae | Α |
| d | \$7 | Same species | API, Apinae | A |
| SLOVE | NIA | 2018 May 25 (World Bee Day) (SS/1) | | |
| 1281 | | Carnolian Honeybee, <i>Apis mellifera</i> ssp. <i>carnica</i> Pollman | API, Apinae | A |
| 1201 | | UL: Stylized honeybee | 711 1, 71pmac | SZ |
| | | · | | 52 |
| SRI LA | | 2018 May 24 (Wild Animals of Sri Lanka) | | |
| a | 3r | Sri Lankan Birdwing, Troides darsius Gray | PAP, Papilioninae | A |
| SWITZ | ERLAND | 2018 September 6 (Greeting Stamps) (Block | ck/4) | |
| 1697 | 100c | Stylized Ladybird Beetle | Coccinellidae | S |
| TONGA | 1 | 2018 September 6 (Registered Mail) (Set/2 | 2) | |
| N/A | | Blue Moon, <i>Hypolimnas bolina</i> ssp. <i>nerina</i> Fabr. | NYM, Nymphalinae | A |
| N/A | \$20.60 | Common Eggfly, <i>Hypolimnas bolina</i> L. \circlearrowleft | NYM, Nymphalinae | A |
| | | 2018 September 10 (Animals of the World | | |
| N/A | \$10 | Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L. | PAP, Papilioninae | A |
| | | | 1 AI, I apinonnae | A |
| UZBEK | | 2018 August 6 (Flora & Fauna) (MS/8) | | |
| h | 3700s | Lunar Yellow Underwing, Noctua orbona Hufnagel | NOC, Noctuinae | A |
| | | | | |

Beyond the Catalog

(Issues of dubious validity)

| | | (issues of dations variatly) | | |
|-----------|------------|---|---------------------------------------|----------------|
| GUIN d | | 2018 August 8 (Mushrooms) (MS/4) (GU18 U/I Ladybird Beetle (on mushroom) | 8323a) Coccinellidae | UC |
| | | | 110224L) | |
| N/A | SS 50000fr | 2018 August 8 (Extinct Species) (SS/1) (GUX erces Blue, <i>Glaucopsyche xerces</i> Boisduval | LYC, Polyommatinae | A |
| | | 2018 August 8 (Butterflies) (MS/4 & SS/1) | (GU18325a&b) | |
| a | 12500fr | Queen Alexandra's Birdwing, Troides alexandrae Rothschild of | PAP, Papilioninae | A |
| b | 12500fr | Mocker Swallowtail, Papilio dardanus Brown | PAP, Papilioninae | A |
| c | 12500fr | Monarch, Danaus plexippus L. | NYM, Danainae | A |
| d | | Ceres Forester, Euphaedra ceres Fabr. | NYM, Limenitidinae | A |
| N/A | | Painted Lady, Vanessa cardui L. | NYM, Nymphalinae | A |
| | Margin | LL: Queen Alexandra's B'wing, <i>Troides alexandrae</i> Roths. (chr UR: Same species (adult) ♂ LR: Same species (adult) ♀ | ysalis) PAP, Papilioninad | e Z Z Z |
| | | 2018 August 8 (Horses) (SS/1) (GU18328b |) | |
| N/A | SS 50000fr | Yellow Gorgon, Meandrusa payeni Boisduval | PAP, Papilioninae | В |
| | Margin | Top: Amanda's Blue, <i>Polyommatus amandus</i> Schneider | LYC, Polyommatinae | \overline{z} |
| | Č | LL: Red-Spotted Purple, <i>Limenitis arthemis</i> ssp. <i>astyanax</i> Fabr. | • | Z |
| GUIN | NEA-BISSAU | 2018 July 17 (Butterflies) (MS/5+label & S | S/1+label) (GB18605a& | h) |
| a | | Unmarked Ceres Forester, Euphaedra inanum Butler | NYM, Limenitidinae | A |
| b | | Orange-Streak Acraea, Acraea bonasia Fabr. | NYM, Heliconiinae | A |
| c | | Leopard Fritillary, <i>Phalanta phalantha</i> Drury (mating pair) | NYM, Heliconiinae | A |
| d | 640fr | Clouded Flat, Tagiades flesus Fabr. | HES, Pyrginae | A |
| e | 640fr | Brown Pansy, Junonia stygia Aurivillius | NYM, Nymphalinae | A |
| | Label | Widespread Forester, Euphaedra medon L. | NYM, Limenitidinae | Z |
| | SS 3300fr | Widespread Forester, Euphaedra medon L. | NYM, Limenitidinae | A |
| | Label | Unmarked Ceres Forester, Euphaedra inanum Butler | NYM, Limenitidinae | Z |
| | Margin | Top: Leopard Fritillary, <i>Phalanta phalantha</i> Drury ♂ & ♀ | NYM, Heliconiinae | Z |
| | | Bot: Brown Pansy, <i>Junonia stygia</i> Aurivillius | NYM, Nymphalinae | Z Z |
| | | LR: Clouded Flat, Tagiades flesus Fabr. | HES, Pyrginae | Z |
| MAL | DIVE ISLAN | 8 \ /\ /\ | * | _ |
| | Margin | LL: Old World Swallowtail, <i>Papilio machaon</i> L. LR: Malachite, <i>Siproeta stelenes</i> L. | PAP, Papilioninae NYM, Nymphalinae | Z Z |
| MOZ | AMBIQUE | 2018 August 15 (Mushrooms) (MS/4 & SS/ | (1) (MOZ18402a&b) | |
| a | | U/I Grasshopper (w/ mushroom) | Acrididae | UВ |
| b | | U/I Butterfly (w/ mushroom) | Lepidoptera | U B |
| N/A | | Scarce Copper, Lycaena virgaureae L. (w/ mushroom) | LYC, Lycaeninae | В |
| NIGE | E R | 2018 June 26 (Mushrooms) (MS/4 & SS/1) | (NIG18318a&b) | |
| a | | U/I Grasshopper (w/ mushroom) | Orthoptera | В |
| N/A | SS 3300fr | Seven-spotted Ladybird, Coccinella septempunctata L. | COC, Coccinellinae | В |
| | | UR: Anna's Eighty-Eight, Diaethria anna Guerin-Méneville | NYM, Biblidinae | Z |
| | | 2018 August 24 (Butterflies) (MS/4 & SS/1 |) (NIG18418a&b) | |
| a | 800fr | Common Morpho, Morpho helenor peleides Kollar | NYM, Morphinae | A |
| b | | Scarce Swallowtail, <i>Iphiclides podalirius</i> L. | PAP, Papilioninae | A |
| | | (Cap: Papilio machaon) | - | |
| c | 800fr | Wood White, Leptidea sinapis L. | PIE, Dismorphiinae | A |
| d | 800fr | Red Anartia, Anartia amathea L. | NYM, Nymphalinae | A |
| | | | | |

NIGER (continued)

| N/A | SS 3300tr | Gulf Fritillary, Agraulis vanillae L. | NYM, Heliconiinae | Α |
|------|------------|---|---------------------|--------------|
| | Margin | LL: Same species | NYM, Heliconiinae | Z |
| | | UR: Red Anartia, Anartia amathea L. | NYM, Nymphalinae | Z |
| | | LR: Clipper, Parthenos sylvia Cramer | NYM, Limenitidinae | Z |
| SIER | RA LEONE | 2018 September 28 (Butterflies) (MS/6 & | SS/1) (SRL18810a&b) | |
| a | 9800le | Spring Azure, Celastrina ladon Cramer | LYC, Polyommatinae | A |
| b | 9800le | Queen Alexandra's Birdwing, Troides alexandrae Rothschild | PAP, Papilioninae | A |
| c | 9800le | Eastern Tiger Swallowtail <i>Papilio glaucus</i> L. ♀ | PAP, Papilioninae | A |
| d | 9800le | Anna's Eighty-Eight, <i>Diaethria anna</i> Guerin-Méneville | NYM, Biblidinae | A |
| e | 9800le | Banded Blue Morpho, Morpho achilles L. | NYM, Morphinae | A |
| f | 9800le | Mourning Cloak, Nymphalis antiopa L. | NYM, Nymphalinae | A |
| N/A | SS 40000le | Blue Emperor, Papilio ulysses L. | PAP, Papilioninae | A |
| | Margin | Bot: Eastern Tiger Swallowtail, Papilio glaucus L. | PAP, Papilioninae | \mathbf{Z} |
| | | | | |

YEAR OF THE NOCTUIDAE

On 15 September 2018, Austria Post issued a pair of stamps depicting two species of moths from the Noctuidae family and celebrating 2018 as the "Year of the Noctuidae." The first day ceremony was held at the Hirschstetten Botanical Gardens in Vienna, Austria. Issued at the same time were two C6 envelopes with cachets and two A6 size postcards that show each moth in a natural setting.



The "Philateliemarke" stamp shows an image of the Pease Blossom Moth (*Periphanes delphinii*) resting on a flower. This colorful moth can be found from the Mediterranean area to the steppes of central Asia.

NIX/N / TT 15

The stamp image is based on a photograph by Friedmar Graf and designed by Herbert Zettel of the Association of Austrian Entomologists (AÖE).

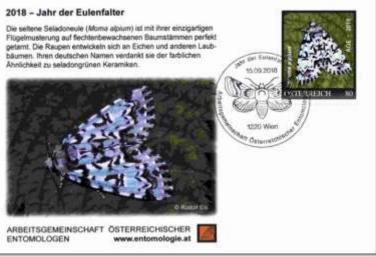
Periphanes delphinii
Philateliemarke stamp on envelope

ARBEITSGEMEINSCHAFT ÖSTERREICHISCHER

ENTOMOLOGEN

The personalized stamp shows an image of the Scarce Merveille du Jour moth (*Moma alpium*) at rest on a green leaf. It can be found from May to September throughout the Palearctic region.

The image is based on a photograph by Rudolf Eis and designed by Herbert Zettel, AÖE.



ANSWERS TO COVER QUIZ

Moma alpium
Personalized stamp on envelope

It's a trick question. All of the species shown are moths. So all of them get to go to the mothball.



PALEONTOLOGY

Editor Michael Kogan, BU1863



| RAAAAAA | ****** | New Listings | ********* | **** |
|---------|-----------|--|------------------------------------|--------------|
| Scott# | Denom | Common Name/Scientific Name | Family | Code |
| BELG | IUM | 2018 August 27 (Face to Face with Pre | ehistoric Animals) (MS/10) | |
| a | (72c) | †Woolly Rhinoceros, Coelodonta sp. | Rhinocerotidae | A |
| b | (72c) | †Giant Elk, Megaloceros sp. | Cervidae | A |
| c | (72c) | †Mammoth, Mammuthus sp. | Elephantidae | A |
| d | (72c) | Gastornis sp. | †Gastornithidae | A |
| e | (72c) | Mosasaurus sp. | †Mosasauridae | A |
| N/A | | MS/10 (2ea #a–e) | | |
| | Margin | R: †Mammoth, Mammuthus sp. | Elephantidae | Z |
| CENT | RAL AFRI | CAN REPUBLIC 2018 July 17 (Dinosaurs) (MS/4 & SS/ | /1) (CA18412a&b) ^[1] | |
| a | 850fr | Hypsibema missouriensis (state dinosaur of Missouri) | †Hadrosauroidea | A |
| b | 850fr | Spinosaurus aegyptiacus | †Spinosauridae | A |
| c | 850fr | Mosasaurus hoffmannii | †Mosasauridae | A |
| d | 850fr | Gorgosaurus libratus | †Tyrannosauridae | A |
| N/A | SS 3300fr | Fukuisaurus tetoriensis | †Hadrosauroidea | A |
| | Margin | R: U/I Tyrannosaur attacking U/I dinosaur | †Tyrannosauridae | UΖ |
| COLO | MBIA | 2018 June 15 (History Festival Founda | ntion) (Single) | |
| N/A | 1000p | Stylized Ammonite | †Ammonoidea | S |
| DJIBO | UTI | 2018 June 12 (Dinosaurs) (MS/4 & SS | /1) (DJB18315a&b) ^[1] | |
| 1444a | 240fr | Velociraptor mongoliensis | †Dromaeosauridae | A |
| 1444b | 240fr | Ceratops (=Triceratops) horridus | †Ceratopsidae | A |
| 1444c | 240fr | Tyrannosaurus rex | †Tyrannosauridae | A |
| 1444d | 240fr | Parasaurolophus walkeri | †Hadrosauridae | A |
| 1464 | SS 950fr | Compsognathus longipes | †Compsognathidae | A |
| | Margin | Ctr: Ceratops (=Triceratops) horridus | †Ceratopsidae | Z |
| | | R: Spinosaurus aegyptiacus | †Spinosauridae | Z |
| | | 2018 July 27 (Prehistoric Aquatic Anii | mals) (MS/4 & SS/1) ^[1] | |
| a | 240fr | Drepanaspis gemuendenensis | †Psammosteidae | A |
| b | 240fr | Eurhinosaurus longirostris | †Leptonectidae | A |
| c | 240fr | Plesiosaurus dolichodeirus | †Plesiosauridae | A |
| d | | Dinichthys terrelli | †Dinichthyidae | A |
| | Margin | Bkgrd: Megalodon tooth, Carcharocles megalodon | †Otodontidae | \mathbf{Z} |
| N/A | SS 950fr | Carcharocles megalodon | †Otodontidae | A |
| | Margin | Bkgrd: Megalodon tooth, Carcharocles megalodon | †Otodontidae | Z |
| | | UR: Xenacanthus decheni | †Xenacanthidae | Z |
| | | MR: Orthacanthus senckenbergianus | †Orthacanthidae | Z |
| | | LR: Dinichthys terrelli | †Dinichthyidae | Z |
| ISRAE | L | 2018 August 28 (Archaeozoology in E | retz Israel) (Set/2) | |
| N/A | 2.50s | Elephant tusk (w/ photo of elephant & Acheulean stonewor | | U B |
| N/A | 2.50s | Lioness skull (w/ photo of lioness & Jaffa clock tower) | | U B |
| | | | | |

| HUN | GARY | 2018 September 3 (World of Bakony Din | osaurs) (MS/6) | | | |
|----------|--|--|-------------------------------|--------------|--|--|
| a | | Ajkaceratops kozmai | †Bagaceratopidae | A | | |
| b | | Pneumatoraptor fodori | Clade: Paraves | A | | |
| c | | Bakonydraco galaczi | †Tapejaridae | Α | | |
| d | | Hungarosaurus tormai | †Nodosauridae | A | | |
| e | | Iharkutosuchus makadii | †Hylaeochampsidae | A | | |
| f | 120fo | Pannoniasaurus inexpectatus | †Mosasauridae | A | | |
| | | UR: Bakonydraco galaczi | †Tapejaridae | Z | | |
| GUIN | NEA | 2018 August 8 (Dinosaurs) (MS/4 & SS/1 |) (GU18311a&b) ^[1] | | | |
| a | | Beipiaosaurus inexpectus | †Therizinosauroidea | A | | |
| b | 12500fr | Velociraptor mongoliensis | †Dromaeosauridae | A | | |
| c | | Altirhinus kurzanovi | Order: †Ornithischia | A | | |
| d | | Nasutoceratops titusi | †Ceratopsidae | A | | |
| N/A | | Deinonychus antirrhopus | †Dromaeosauridae | A | | |
| | | R: Tyrannosaurus rex | †Tyrannosauridae | \mathbf{Z} | | |
| | | UR & Bot: Dakotaraptor steini | †Dromaeosauridae | Z | | |
| МАТ | MALDIVE ISLANDS 2018 August 8 (Dinosaurs) (MS/4 & SS/1) (MLD18802a&b) ^[1] | | | | | |
| | | Megalosaurus bucklandii | †Megalosauridae | A | | |
| a b | | Anchiceratops ornatus | †Ceratopsidae | A | | |
| | | Garudimimus brevipes | †Deinocheiridae | A | | |
| c d | | • | †Ankylosauridae | A | | |
| u N/A | | Talarurus plicatospineus Gigantspinosaurus sichuanensis | Order: †Ornithischia | A | | |
| IN/A | | 9 . | | Z | | |
| | Margin | UR: Dimorphodon macronyx | †Dimorphodontidae | Z | | |
| | | LR: Apatosaurus ajax | †Diplodocidae | Z | | |
| | | LL: Baryonyx walkeri | †Spinosauridae | | | |
| | | 2018 August 15 (Prehistoric Birds) (MS/4 | | [1] | | |
| a | 22r | Teratornis merriami | †Teratornithidae | Α | | |
| b | 22r | †Conquered Lorikeet, Vini vidivici | Psittaculidae | A | | |
| c | | Genyornis newtoni | †Dromornithidae | A | | |
| d | 22r | †Turtle-jawed Moa-nalo, Chelychelynechen quassus | Anatidae | A | | |
| N/A | SS 70r | †Viti Levu Giant Pigeon, Natunaornis gigoura | Columbidae | Α | | |
| | Margin | R & Bot: †South Island Giant Moa, <i>Dinornis robustus</i> | Dinornithidae | Z | | |
| | | 2018 October 4 (Prehistoric Flying Reptil | | | | |
| a | 22r | Dimorphodon macronyx | †Dimorphodontidae | A | | |
| b | 22r | Pteranodon longiceps | †Pteranodontidae | Α | | |
| c | 22r | Dsungaripterus weii | †Dsungaripteridae | A | | |
| d | 22r | Eudimorphodon ranzii | †Eudimorphodontidae | A | | |
| N/A | SS 70r | Quetzalcoatlus northropi | †Azhdarchidae | A | | |
| | Margin | LL: Pteranodon longiceps | †Pteranodontidae | Z | | |
| | | UR: Eudimorphodon ranzii | †Eudimorphodontidae | Z | | |
| | | 2018 October 4 (Prehistoric Water Anima | | | | |
| a | 22r | Liopleurodon ferox | †Pliosauridae | A | | |
| b | 22r | Stethacanthus altonensis | †Stethacanthidae | A | | |
| c | 22r | Besanosaurus leptorhyncus | †Besanosauridae | A | | |
| d | 22r | Kronosaurus queenslandicus | †Pliosauridae | A | | |
| N/A | SS 70r | Mosasaurus hoffmannii | †Mosasauridae | A | | |
| | Margin | UL: Stethacanthus altonensis | †Stethacanthidae | Z | | |
| | _ | LL: Liopleurodon ferox | †Pliosauridae | Z | | |
| | | | | | | |

| MOZ | ZAMBIQUE | 2018 June 15 (Prehistoric Water Animals) (| (MS/4 & SS/1) ^[1] | |
|----------|------------|---|--------------------------------|--------------|
| a | 116m | Nothosaurus mirabilis | †Nothosauridae | A |
| b | 116m | Carcharocles megalodon | †Otodontidae | A |
| c | 116m | Mesosaurus tenuidens | †Mesosauridae | A |
| d | 116m | Bot: Tylosaurus proriger | †Mosasauridae | В |
| | | Top: Diplocaulus magnicornis | †Diplocaulidae | В |
| N/A | SS 300m | Mosasaurus hoffmannii | †Mosasauridae | A |
| | | UR: Dunkleosteus terrelli | †Dunkleosteidae | Z |
| | C | Ctr: Henodus chelyops | †Henodontidae | Z |
| | | LL: Ichthyosaurus communis | †Ichthyosauridae | Z |
| | | LR: Thalattoarchon saurophagis | Order: †Ichthyosauria | Z |
| | | 2018 August 15 (Dinosaurs) (MS/4 & SS/1) |) (MOZ18406a&h) ^[1] | |
| a | 116m | Lambeosaurus lambei | †Hadrosauridae | A |
| b | | Brachiosaurus altithorax | †Brachiosauridae | A |
| c | | Ceratops (=Triceratops) horridus | †Ceratopsidae | A |
| d | | Nanotyrannus lancensis | †Tyrannosauridae | A |
| N/A | SS 300m | Stegosaurus stenops | †Stegosauridae | A |
| 14/11 | Margin | Ctr: Velociraptor mongoliensis | †Dromaeosauridae | Z |
| | Margin | Bot: Rhamphorhynchus etchesi | †Rhamphorhynchidae | Z |
| | | LR: Tyrannosaurus rex | †Tyrannosauridae | Z |
| COTT. OT | | • | , - | L |
| | THOMAS & I | | | |
| a | | Spinosaurus aegyptiacus | †Spinosauridae | A |
| b | | Archaeoceratops oshimai | †Archaeoceratopsidae | A |
| c | | Amargasaurus cazaui | †Dicraeosauridae | A |
| d | | Parasaurolophus walkeri | †Hadrosauridae | A |
| N/A | SS 124d | Centrosaurus apertus | †Ceratopsidae | A |
| | Margin | LR: Barosaurus lentus | †Diplodocidae | Z |
| | | Bot: Dilophosaurus wetherilli | †Dilophosauridae | Z |
| SIER | RA LEONE | 2018 June 29 (Prehistoric Flying Reptiles) | | |
| a | 9800le | Dimorphodon macronyx | †Dimorphodontidae | A |
| b | 9800le | Quetzalcoatlus northropi | †Azhdarchidae | A |
| c | | Peteinosaurus zambelli | Clade: †Eopterosauria | A |
| d | | U/I Pterosaur | Order: †Pterosauria | U A |
| N/A | | Pteranodon longiceps | †Pteranodontidae | A |
| | Margin | UR: Dimorphodon macronyx | †Dimorphodontidae | Z |
| | | LR: Zhejiangopterus linhaiensis | †Azhdarchidae | Z |
| | | 2018 July 27 (Prehistoric Water Animals) (| | |
| a | 9800le | Ichthyosaurus communis (also LR margin) | †Ichthyosauridae | AZ |
| b | 9800le | Liopleurodon ferox (also LL margin) | †Pliosauridae | AZ |
| c | 9800le | Eurypterus remipes (also UR margin) | †Eurypteridae | AZ |
| d | | Elasmosaurus platyurus | †Elasmosauridae | Α |
| | Margin | UL: Dunkleosteus terrelli | †Dunkleosteidae | \mathbf{Z} |
| N/A | SS 40000le | Dunkleosteus terrelli | †Dunkleosteidae | Α |
| | Margin | R: †Livyatan melvillei | Physeteroidea | \mathbf{Z} |
| | - | L: Ichthyosaurus communis | †Ichthyosauridae | Z |
| | | 2018 August 30 (Dinosaurs) (MS/4 & SS/1) |) (SRL18703a&b) ^[1] | |
| a | 9800le | Spinosaurus aegyptiacus | †Spinosauridae | A |
| b | 9800le | Velociraptor mongoliensis | †Dromaeosauridae | A |
| c | 9800le | Beipiaosaurus inexpectus | †Therizinosauroidea | A |
| d | | Altirhinus kurzanovi | Order: †Ornithischia | A |
| | | | • | |

| SIER | RA LEONE | (continued) | | |
|------|------------|--|-------------------------------------|--------------|
| N/A | SS 40000le | Nasutoceratops titusi | †Ceratopsidae | Α |
| | Margin | R: Altirhinus kurzanovi | Order: †Ornithischia | Z |
| TOG | 0 | 2018 June 28 (Dinosaurs) (MS/4 & SS/1 |) (TG18306a&b) ^[1] | |
| a | 800fr | Alectrosaurus olseni | †Tyrannosauroidea | Α |
| b | 800fr | Giganotosaurus carolinii | †Carcharodontosaurida | e A |
| c | 800fr | Ceratops (=Triceratops) horridus | †Ceratopsidae | Α |
| d | 800fr | Anhanguera piscator | †Anhangueridae | Α |
| N/A | SS 3300fr | Mosasaurus hoffmannii | †Mosasauridae | Α |
| | Margin | L: Liopleurodon ferox | †Pliosauridae | \mathbf{Z} |
| | | Ctr: U/I Ammonite | †Ammonoidea | UZ |
| | | 2018 June 28 (Extinct Animals) (MS/4 & | & SS/1) (TG18311a&b) ^[1] | |
| a | 800fr | †Giant Elk, Megaloceros giganteus | Cervidae | Α |
| b | 800fr | †Haast's Eagle, Harpagornis moorei | Accipitridae | Α |
| c | 800fr | †Japanese Wolf, Canis lupus ssp. hodophilax | Canidae | Α |
| d | 800fr | †Golden Toad, Incilius periglenes | Bufonidae | Α |
| N/A | SS 3300fr | †Pinta Island Tortoise, Chelonoidis abingdonii | Testudinidae | Α |
| | Margin | L: †Mammoth, Mammuthus primigenius | Elephantidae | Z |

Other Stamps to Consider

AUSTRALIA 2018 June 12 (Art in Nature) (SS/4 & Bklt/10)

This stamp issue shows aerial photographs illustrating the exquisite beauty found in the country's natural landforms. One of these stamps shows a landscape of Shark Bay, Western Australia.

| 4814 | \$1 | Shark Bay, Western Australia | R |
|-------|-----|--|---|
| 4817a | | SS/4 (Sc#4814–17) (perf 14½×14) | |
| 4818 | \$1 | Shark Bay, Western Australia | R |
| 4818a | | Bklt/10 (Sc#4818) (die cut 10¾×11) (s/a) | |

Shark Bay, Western Australia: Located about half way up Western Australia's west coast, Shark Bay is a spectacular World Heritage-listed area that stretches along 1,500 kilometers of coastline. It includes several islands, white sand beaches, red cliffs, and tranquil turquoise lagoons and is home to remarkable biological diversity and marine life. Showing the shifting sands of this coastal idyll, the photograph was taken on a Phase One IQ280 80 mega pixel camera by Christian Fletcher.

Shark Bay is also one of the few places where scientists can study modern stromatolites—a bacterial-sediment structure. Stromatolites make up the majority of fossils from the Precambrian. The Bay is very hypersaline, which is likely why the stromatolites can grow into the larger structures. In other parts of the world, grazing snails, echinoids, and other animals eat the bacterial mats faster than they accumulate, so we do not see stromatolites except in places where environmental conditions are too harsh for the grazers. Shark Bay is also a World Heritage Site (https://www.sharkbay.org).

BELGIUM 2018 June 11 (Africa Museum) (MS/5)

N/A (€1.13) Various objects from collection and view of museum exterior

R

The Africa Museum is recognized worldwide for its rich, varied, and scientifically valuable collections. The majority of its visitors are unaware of the size of this heritage as the permanent exhibition only has about one percent of its holdings on display. The museum is known for its ethnographic objects, but its natural science collections, archives, and photos are equally remarkable.

The vast majority of the objects come from the Congo Democratic Republic and were collected during the colonial period. However, the museum's collections contain specimens from around the world, dating back 650 million years (for some of the fossils) to the present day. The fossil collection has more than 18,000 specimens from Central Africa, collected through fieldwork, or acquired through donations.

The collection is very diverse in terms of types of specimen (from the remains of large reptiles to microscopic skeletons of unicellular organisms) and in terms of age (approximately 650 million years to a few thousand years). Examples of large specimen series include: stromatolites from the Neoproterozoic (Lower Congo, Katanga, Kasaï), plant fossils from the Carboniferous-Permian (Katanga), fish fossils from the Jurassic-Cretaceous of the Congo Basin, and a diverse fauna from the Cretaceous-Cenozoic of the Atlantic coastal region (Lower Congo, Angola, Congo-Brazzaville, Gabon). Visit their website for more information (www.africamuseum.be/).

GIBRALTAR

2018 May 18 (100th anniv. Royal Air Force) (Set/6 & SS/4)

Three stamps in the Set/6 and each of the four stamps in the SS show the Rock of Gibraltar in the background. The rock formation is famous for the discovery of Neanderthal fossils. The Rock of Gibraltar and Neanderthals are depicted on many Gibraltar stamps since 1973.

| 1670 | 22p | Rock of Gibraltar (w/ Supermarine Spitfire Mark V) | R |
|------|-----|--|---|
| 1674 | £2 | Rock of Gibraltar (w/ Vickers Wellington Mark IC) | R |
| 1675 | £3 | Rock of Gibraltar (w/ Lockheed Hudson III) | R |
| 1676 | | SS/4 (Sc#1676a–d) | R |

2018 July 31 (Views from the Rock) (Set/6)

Four of these stamps include the Rock of Gibraltar itself in the design.

| ST. THON | MAS & 1 | PRINCE IS. | 2018 September 28 (Stamps-on-Stamps) (2ea SS/1) ^[1] | |
|----------|---------|-------------------|---|---|
| N/A | £1 | Rock of Gibraltar | | R |
| N/A | 80p | Rock of Gibraltar | | R |
| N/A | 70p | Rock of Gibraltar | | R |
| N/A | 64p | Rock of Gibraltar | | R |

| N/A | SS 25d | †Homo neanderthalensis (Burundi Sc#1390b s-o-s) | Hominidae | C |
|-----|---------|---|-----------|---|
| N/A | SS 124d | †Homo neanderthalensis (Burundi Sc#1390b s-o-s) | Hominidae | C |

Postmarks

JAPAN

2018 September 1

2018.09.01-2018.10.15 Postmark: "National Sports Festival 2015" in Fukui Prefecture with Dinosaur fossil from Dinosaur Museum of Fukui on top side.

Future Issues

2018.Q4: Armenia: "Flora and fauna of the ancient world." Perhaps some more dinosaur stamps, similar to

stamps set of 2017.

Next Year:

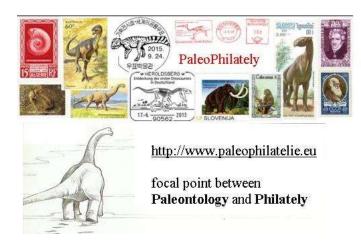
Slovenia: Oligocene Mammal Fossil: *Anthracotherium*. 2019.03.??:

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



ARCHAEOZOOLOGY IN ERETZ ISRAEL

Archaeozoology is the scientific field that studies animal bones found in archeological excavations. A number of unique finds have been made in excavations in Eretz Israel, including: the bones of a Syrian bear in Tel Hadid dating from the Iron Age (Israelite) (930–586 BCE). The remains of an ancient hippopotamus from the Pottery Neolithic Period (5500–4500 BCE) were also discovered in the Ramat Aviv area of Tel Aviv. The Israel Philatelic Service previously issued a stamp featuring a dinosaur whose fossilized footprints were discovered on the banks of

the Tethys Sea, on a kibbutz near Jerusalem.

On 28 August 2018, Israel Post issued a pair of 2.50s stamps commemorating Archaeozoology in Eretz Israel (Land of Israel). One stamp shows an elephant tusk relic on display in the pre-historic exhibit at the Israel Museum, alongside elephant bones from the Daughters of Jacob Bridge. The tusk dates to the early Stone Age (1 million to 120,000 years ago).

The stamp also features a stock photo of a modern elephant and Acheulean stone work from the Design Museum Holon.

The second stamp shows a lioness skull that, until recently, was kept on the top floor of the Jaffa Museum. Archeologist Dr. Jacob Kaplan believed that the place where the lioness remains were discovered was a pre-Philistine temple thought to be dedicated to the lion.

The remains were dated to the late Bronze Age when the sea people (including the Philistines) entered Eretz Israel from the south. Until recently, the skull was kept on the top floor

פיל, חולון: התרבות האשלית
Eliphant, Hollon, Acheulofan
Stone-work

האדבות האשלית
האדבות האשלית
האדבות האשלית
האדבות האשלית
מאר אדבאו- זואולוגיה בארץ ישראל
אאכאו-סטטטטטטט



of the Jaffa Museum. The stamp also shows a stock photo of a modern lioness and the Jaffa Clock Tower.

The stamps were designed by Ronen Goldberg and printed in sheets of 15 with five tabs using the offset method by Cartor Security Printing in France.

BIOLOGY REFERENCE WEBSITES

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

STAMP ISSUES

Catawiki. Listings and illustrations of stamps for sale by topic for every theme from A to Z. http://www.catawiki.com/catalog/stamps/100283-themes-topics

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

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

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

http://www.delcampe.net/en_GB/marketplace/stamps/

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

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

https://entomologytoday.org/

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

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

Natural History Museum. British site containing Lepidoptera generic names and type species listings. http://www.nhm.ac.uk/our-science/data/butmoth/

Odonata Society. German site containing listings of Odonata species found in Europe (in German). http://www.libellula.org/

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

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

HERPETOLOGY:

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

http://amphibiaweb.org/index.html

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

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

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

https://ssarherps.org/

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

http://turtlemeterstamp.altervista.org/

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

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

ICHTHYOLOGY

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

http://www.alltropicalfish.com/

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

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

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

http://fishbase.sinica.edu.tw/home_tw.htm

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:

| E | Br | Branch | Α | Subject is the primary design element |
|---|-----|--|---|---|
| F | FI | Flowers (with or without other plant parts) | В | Subject is only part of the main design |
| F | Fr | Fruit (including seeds, nuts, grains, etc.) | С | Subject is a minor representation |
| F | FrV | Grain head with sheaf or stalk | G | Subject is a generalized depiction |
| L | L | Lichen | R | Related subject (e.g., scientist, equipment) |
| ľ | М | Mushroom or fungus | S | Subject is a stylized or symbolic depiction |
| - | Τ | Trees (without flowers or fruit) | U | Subject is unidentified or unidentifiable |
| ١ | V | Various (vines, vegetables, roots, leaves, etc.) | Χ | Subject is a lookalike (e.g., mushroom cloud) |
| ١ | Wr | Wreath | Z | Subject is in the Margin or selvage |
| ١ | Wr* | Head wreath (or chaplet) | | |
| | | | | |

Acronyms and Abbreviations:

| Acrony | ms and Abbreviations: | | |
|--------|---|----------|--------------------------------------|
| AAPE | American Association of Philatelic Exhibitors | ovpt | overprinted |
| anniv | anniversary | perf | perforated |
| APC | American Philatelic Center (Bellefonte, PA) | photo | photogravure |
| APS | American Philatelic Society | ptg | painting or artwork |
| ATA | American Topical Association | R | right position indicator |
| 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 |
| | | | |

| = . | | | | | |
|------|------------------------|------|-------------------|------|-----------------|
| | ology Family Abbreviat | | ۸ او - به اداره ا | AND | A |
| 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 | | 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 | | • |
| | • | | , , | | |

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