

BIOPHILATELY

OFFICIAL JOURNAL OF THE BIOLOGY UNIT OF ATA

MARCH 2018

VOLUME 67, NUMBER 1

Reason for a Fish Pun?

I did it just for the halibut.



USS Halibut (SS-232)
(1941–1946)

Donald Wright

Fog-Collecting Beetles

More Inside >>



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

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

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

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PLEASE NOTE: Material for the next issue should be in the hands of the Editor before 15 May 2018.

FROM THE EDITOR'S DESK

As winter winds down, we enter a period when stamp shows, both national and local, are popping up just like the daffodils in my yard. By the time you read this, the annual American Philatelic Society (APS) winter show, AmeriStamp Expo, will have been held in Birmingham, Alabama. Look for a report in the next issue. Here in the Northwest Federation we have a dozen shows scheduled in March and April alone.

This issue is larger than usual due to the extensive listings of new issues. It seems that not only have many countries waited until the end of the year to issue stamps with biological themes, but also Scott Publishing Company has determined to list the plethora of issues from some of the client nations of Stamperija.

Stamperija, for those who may not know, is a security printing company operating from Vilnius, Lithuania that publishes, apparently under contract, "official" issues of topical stamps from mostly African countries and others as well. Some of these countries, such as Saint Thomas & Prince Islands, are well known for their excessive issues aimed solely at separating collectors from their money.

Saint Thomas & Prince is an archipelago off the coast of West Africa with an area of 386 square miles and a population of fewer than 200,000 people. Nonetheless, according to statistics assembled by *Linn's Stamp News*, in 2016 (the latest data available), this country issued a total of 162 major Scott listings with a face value of 18,008,000 dobras (around \$900) and a catalog value of \$1,644.50. A major Scott listing can include a single stamp or a sheet of 20 or more. I admit that I buy some of these items because they often are the only ones in existence that depict a particular species or subject.

There are also flocks of New Birds and wheelbarrows full of New Plants.

In this edition, we complete the three-part series on the International Botanical Congresses by Dr. John Gray. I am looking for more articles, so please dust off your keyboard and send some to me.

Also in this edition, I have noted some new issues that depict endangered species of both plants and animals. Laurie raises an interesting question in her President's column this time. How many of the plant and animals that appear on stamps in the topics we collect are threatened or endangered? I would be very interested in and eager to publish an article on this subject. Who out there will help me out?

It is not too early to plan for attending the annual National Topical Stamp Show (NTSS) that this year will be held as a joint show with the American Philatelic Society (APS) StampShow in Columbus, Ohio, 9–12 August 2018.

The Biology Unit will hold its annual meeting at the NTSS at 10:00 AM on Saturday, 11 August 2018. Ordinarily this is a social meeting and we do not discuss detailed business matters. See more information about the NTSS-APS show on page 2.

I wish you all a terrific springtime and hope to see some of you at a stamp show soon.

Jack R. Congrove



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

PRESIDENT'S MESSAGE

I hope all of you are having a good New Year so far. And the Chinese New Year is upon us as well. I am finding that my year has been hectic, with little chance of slowing down. The dogs have not been outdoors much, are bored, and we have to play chase inside now.

The bad weather has also meant driving my mother to the store, appointments, and social events. I am ready for Spring, but unfortunately Phil and his buddies saw their shadows. And now tax time is upon us. On the bright side, February is Early Music Month in Cincinnati. Lots of concerts around town of late medieval and renaissance music.

Recently I was reading a note from the International Rhino Foundation. Dire news about my beloved Sumatran Rhinos. The last female in Malaysia is critically ill. She and her mate are the last pair known on the Malaysian mainland.

I got to thinking about other endangered or threatened species I collect wild cats, manatees, red pandas, kiwi, most newts, as well as many of the medicinal plants. Thankfully my hedgehogs are safe for now. How many of the animals or plants that you collect are in fact endangered? Food for thought.

Stay warm and safe until next time.

Laurie



SECRETARY-TREASURER'S CORNER

NEW MEMBERS

We have no new members to report for the past quarter. The Biology Unit, like many other such groups, suffers from attrition (see below) and if we cannot keep our ranks filled by obtaining new members, then anyone can predict what the long-term results will be. 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. You can find all the forms and information on the Unit website: www.biophilately.org/.



MEMBERS TO BE DROPPED

The year is well underway and if you have not paid your membership dues, you should do it now. The following members are being dropped for non-payment: **Bratlie, Burch, Miguelgorry, Norman, Vassuer, Mahaffey, Moravec, and Holland, Jr.**

You will find renewal forms at the Unit website: www.biophilately.org/. Send your payment to the Secretary-Treasurer, Chris Dahle, 1401 Linmar Dr. NE, Cedar Rapids, IA 52402.

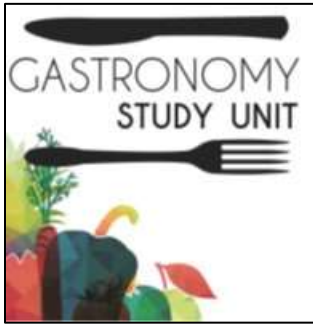
NATIONAL TOPICAL STAMP SHOW

Our parent organization, the American Topical Association (ATA), will hold its annual National Topical Stamp Show (NTSS) in a joint co-hosted event with the American Philatelic Society (APS) National Summer Convention (StampShow) on 9–12 August 2018, at the Greater Columbus Convention Center in Columbus, Ohio. The NTSS is an APS sponsored World Series of Philately (WSP) national-level exhibition. The show hotel is the Crowne Plaza Downtown. The special show room rate is \$135 plus taxes.

The ATA will hold its annual Board meetings on Tuesday and Wednesday before the show. Planning is underway for tours and other events. The show is seeking exhibits. There is one exhibition, but all exhibits handled thematically will be in the ATA section, and the NTSS will have its own awards. Find the exhibit prospectus and entry forms on the APS website: <https://stamps.org/SS-Exhibitors>.

NEWS OF NOTE

GASTRONOMY STUDY UNIT



The American Topical Association (ATA) has recognized a new study unit. The Gastronomy on Stamps Study Unit was organized at the National Topical Stamp Show last year in Milwaukee, Wisconsin. The purpose of the Study Unit is to encourage and further the collection and study of stamps and other philatelic material related to food, gastronomy, cooking, food ingredients, food science, and associated areas.

These topics are very closely related to our own Biology subject and perhaps many of our members will be interested in also joining this study unit.

They publish a quarterly journal, *The Philatelic Gourmet*, which contains news and interesting articles about food and cooking and listings of related new stamp issues.

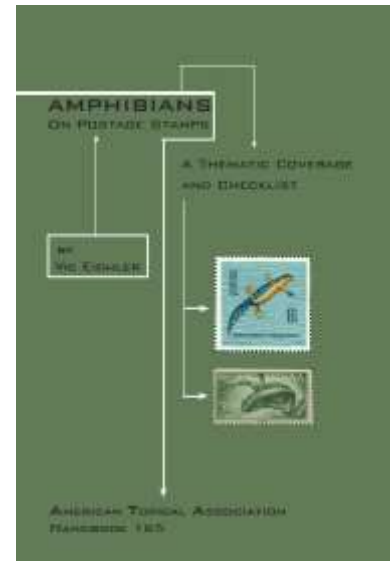
Annual membership dues are \$20 (US), \$24 (Canada), and \$28 elsewhere for hard copy delivery of the journal. Electronic delivery (PDF) via e-mail is \$5 worldwide. Membership applications are available at their website: www.gastronomystamps.org.

NEW ATA HANDBOOK

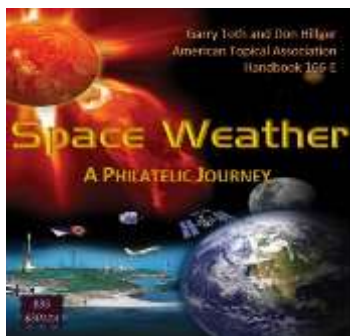
The ATA is in the process of publishing a new handbook by one of our Biology Unit members. Dr. Vic Eichler has written *Amphibians on Stamps* (HB 165) to list the many hundreds of stamps depicting the three orders of the Class Amphibia: Anura (frogs and toads), Urodela (salamanders), and Apoda (caecilians). This publication has been delayed for almost two years due to difficulties the ATA has had obtaining permission from the parent organization of Scott Publishing Company for the use of the Scott catalog numbers. This is also why there have been no other new ATA handbooks during that period.

Eichler, from Three Rivers, Michigan, is the author of several other books including *Charlevoix Stones & Other Beachcomber Treasures of Northern Michigan* (2013) and *Morel Mushrooms in Michigan And Other Great Lakes States* (2010). He is a retired professor of Biological Sciences.

The Biology Unit contributed funds to cover half the cost of publication. The HB is offered in both printed and DVD versions. The cost for the printed HB is \$35 and for the DVD \$25. There is a \$5 discount for ATA members. If you are not an ATA member, you can get \$10 off if you purchase the book and join at the time.



YET ANOTHER NEW ATA HANDBOOK



Solar storms that cause bright auroras can also affect people and technology in space and on Earth. The development of the scientific understanding of that Sun-Earth relationship is examined in *Space Weather—A Philatelic Journey*, a new philatelic handbook published in DVD format by the American Topical Association.

Written by meteorologists Garry Toth and Don Hillger, it contains descriptive text, stamp, and cover images, and an extensive and up-to-date checklist. More than 200 pages of detailed information are in PDF format. The checklist appendices in Excel format are also included.

The handbook will be of interest to collectors of numerous space and weather-related topics.

The cost for the DVD is \$35, or \$30 for ATA members, plus \$1.50 postage in the U.S. and Canada, or \$3 elsewhere. Order from American Topical Association, P.O. Box 8, Carterville, IL 62918-0008 (americantopical@msn.com). Preorders will be taken for a printed book version until 31 March 2018.

WRITING UP THE TOPICAL EXHIBIT

Alan Hanks, President Emeritus, BU698

[Ed. note: Our condolences to Alan Hanks and his wife Barbara on the recent unexpected death of their daughter Cathy. He has provided this short article that has appeared previously, but remains a subject of interest.]

Writing up a traditional exhibit might be considered straightforward, since it is based mainly on factual data about the stamps and covers that will be included. Postal History exhibits are more complex, because a great deal of research probably goes into the exhibit in order to describe rates and routes.

Writing up a true thematic exhibit is in many ways more difficult as the depth of study that is to be illustrated rests with the exhibitor and his or her skill in telling the story. In some ways, it is akin to writing a book with many chapters containing different facets of the study, each dealt with in depth.

The first thing to consider is, “**what shall I exhibit?**” And here the potential for a good exhibit might rest with picking a familiar subject. For example, a civil engineer might elect to deal with “Bridges” while a medical practitioner might choose some part of the science of medicine. In my case, I chose insects because it has been a long-term interest of mine and I already possessed a large library of entomological books and reference material.

The **Title and Plan** usually follow the initial selection of a subject in order to develop an approach to the write-up that will result in success, and that implies a full depth of study. The title is important because it may set some kind of parameter for the exhibit, As an example, title “Ships” would seem to imply that the exhibit will consist of material showing just ships, whereas the title “Navigation” implies much greater range of content. One should remember that the thematic scoring sheet has 45 points awarded for the “thematic elements” in (a) originality, (b) the plan, and (c) research and development of the theme.

The write-up should be fairly comprehensive, but not too lengthy and it is important to remember that you must “**show what you write about**” and “**write about what you show.**” In other words, there should be no philatelic item that is not described in the write-up and there should not be anything in the write-up that is not supported by a philatelic item.

One font style should be chosen for the descriptive text and a different font for the “philatelic” text in which the distinctive items in the display are described.

Ideally each chapter in the story should be of similar length to give balance to the presentation and there should be a “**final page**” or conclusion to bring the display to a close. Finally, the blocks of text can actually be used as a design element together with the stamps and other material to help in the “presentation” points for the exhibit.

I urge thematic exhibitors to consider showing at the annual National Topical Stamp Show in order to benefit from the observations of the thematic judges and improve the exhibit.



SEAPEX SEEKS EXHIBITS

The Seattle Philatelic Exhibition (SEAPEX), a World Series of Philately (WSP) national-level show, is seeking philatelic exhibits. The exhibition will take place 14–16 September 2018, at the Tukwila Community Center located between SeaTac International Airport and downtown Seattle. The show expects to have 30 dealers including several who carry topical material.

The 200 exhibit frames all filled up quickly last year these. The winner of the Grand awards for both single and multiple frame exhibits will be eligible to compete for the Champion of Champions award against the winners from the other WSP shows. Visit the SEAPEX website (www.seapexshow.org) for a prospectus and entry forms.

FOG-COLLECTING BEETLES OF THE NAMIB DESERT

Donald Wright, BU243

There exists in the Namib Desert of southwest Africa a group of beetles that collect moisture from the fog-laden air blowing in from the Atlantic coast. These all belong to the Family Tenebrionidae, Subfamily Pimeliinae. Those found on stamps to date include the following:

Saucer Trench Beetle, *Lepidochora discoidalis* Gebien (*Lepidochara* of some)
Namibia, Sc#1249c, 22 September 2012, \$5.80

Onymacris paiva Haag

Comoro Islands, unlisted, 28 July 2011, 2500fr SS (LR margin) (Stamperija)

Fog-basking or Fog-drinking Beetle, *Onymacris unguicularis* Haag

Comoro Islands, Sc#1078, 2 March 2009, 3000fr SS (L margin)

Mozambique, Sc#1919, 30 November 2009, 175m SS (MR margin)

Namibia, Sc#967a, 22 May 2000, \$2

Namibia, Sc#1109, 15 February 2007, "Standard Mail" (\$1.90) (with Web-footed Gecko) (perf 14×13¼)

Namibia, Sc#1109a, 2008, "Standard Mail" (\$1.90) (same, perf 14)

Namibia, Sc#1168, 1 October 2008, "Registered Mail" (\$18.20) (with False Ink Cap mushroom)

Namibia, Sc#1186f, 8 February 2010, "Postcard Rate" (\$4.60)

Namibia, unlisted, 2010, "Standard Mail" (\$2.50) (design similar to Sc#1186f)

Long-legged White Namib Beetle, *Stenocara eburnea* Pascoe

Niger, Sc#1054a, 27 July 2000, 200fr

Namib Desert Beetle, *Stenocara gracilipes* Solier

Kenya, Sc#854y, 16 November 2011, 65sh

These are flightless beetles, many with fused wing covers (elytra). They are diurnal, burying themselves in their sandy habitat at night, and emerging during the day. There are 21 species of *Onymacris*, four of *Stenocara*, three of *Lepidochora*, and four of *Physasterna*. The last genus has not yet appeared on stamps. These beetles use three methods of collecting water from the fog-laden breezes blowing off the cold Atlantic Ocean.

The species of genus *Lepidochora* dig trenches in the sand perpendicular to the wind. The resulting ridges protrude into the breeze and cause moisture to condense. *L. discoidalis* is a flat, disk-shaped, short-legged beetle about ¼ inch long. It digs trenches about ⅛ inch deep on the seaward side of the sand dunes. These trenches can be as long as three feet and the ridges thus formed can cause from two- to six-fold increase in the water content of the sand. The beetles extract the moisture from the ridges of damp sand, thereby increasing the water content of the beetles by more than ten percent.¹ *Lepidochora* species also construct water-catching webs.



Onymacris unguicularis
Mozambique, 2009, Sc#1919

O. unguicularis, typical of this genus, is all black, long-legged and ⅜ to ⅝ inches long. It is perhaps the best known of these desert beetles. This is the only genus that is a fog-basker. The fog is 10–12°C cooler than the sand and this temperature difference triggers the beetle to tilt its abdomen up into the fog-laden breeze. The smooth, grooved elytra are hydrophobic, causing the condensing moisture to run down the insect's back to its mouth where it can drink the water.²

O. paiva is black with brown edging on the elytra. The habits are similar to *O. unguicularis*.



Lepidochora discoidalis
Namibia, 2012, Sc#1249c

Members of the *Stenocara* genus gather moisture with a third method. This genus has hydrophilic tips or bumps on the elytra that serve to interrupt the fog-laden breeze while the rest of the elytra are hydrophobic, causing the water to run off to the beetle's mouth. It does not tilt its body to collect moisture, but rather extends its wings into the sea breeze and the moisture runs down to the mouth. *S. eburnea* is $\frac{1}{4}$ to $\frac{3}{8}$ inches long and has a white abdomen, black head, and long legs.

S. gracilipes is similar, but has brown and white stripes from head to tail. It also has bumps on the elytra to collect moisture as does *S. eburnea*.

The principle of condensing water from moist sea breezes is being studied to develop methods of obtaining water in deserts around the world. Several organizations have artificially created roughened surfaces like the beetle wings and such materials can extract several quarts per day from the air. Efforts to make such items economical and practical are underway by NBD Nanotechnologies Inc., Massachusetts Institute of Technology, and various military centers.

The principle of the Namib beetle elytra have led to the development of the Airdrop irrigation system, whereby cool air passes through underground pipes resulting in condensation at the roots of plants. Edward Linacre, a Melbourne-based industrial designer, was awarded the 2011 James Dyson Award for the design of the Airdrop.

Notes:

1. "Fog Catchment Trenches Constructed by Tenebrionid Beetles, *Lepidochora*, from the Namib Desert," M.K. Seely & W.J. Hamilton, Jr., *Science*, 6 August 1976, 193: 4252, pp 486-88.
2. "Fog-Basking Behavior and Water Collection Efficiency in Namib Desert Darkling Beetles," Thomas Norgaard & Marie Dacke, *Frontiers in Zoology*, 2012, 7:23



Stenocara eburnea
Niger, 2000, Sc#1054a



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BIOLUMINESCENT LIFE NEW ISSUE

On 22 February 2018, the US Postal Service issued a pane of 20 “Forever” stamps with ten different designs depicting creatures that display bioluminescence. The ceremony took place at the Sunrise Theater in Fort Pierce, Florida.

The featured speaker was Dr. Edith A. Widder, an internationally renowned deep-sea explorer and founder of the scientific-based conservation nonprofit Ocean Research and Conservation Association (ORCA), where she is the senior scientist. She shared her research findings. All except one of the marine creatures shown on the new stamps reproduce photographs taken by Dr. Widder.

Bioluminescence is the production and emission of light by a living organism. It is not restricted to marine creatures, but also occurs in some fungi, bacteria, and terrestrial invertebrates such as fireflies.

It can serve several purposes including counter-illumination camouflage, mimicry of other animals, for example to lure prey, and signaling to other individuals of the same species, such as to attract mates.

The subjects of each stamp are not identified by species, therefore much of the following is based on our best-guess.

Counting left-to-right from top-to-bottom, the first stamp shows the Deep Sea Octopus (*Stauroteuthis syrtensis*) based on an ORCA photo by Dr. Widder. In the place of the usual suckers are rows of flashing photophores, which the octopus cannily uses to lure its prey to certain death, or to startle intruders.

The second stamp shows a top-down view of a Midwater Jellyfish (*Halicreas minimum*). These transparent jellies are found at depths up to 300 meters (984 feet) and grow to a diameter of only four centimeters (two inches).

The third stamp shows a deep-sea comb jelly (*Leucothea* sp.?). Comb jellies are Ctenophores and not actually classified as jellyfish. They come from a completely different phylum. Their tentacles do not contain stinging cells. They are found in coastal areas from the surface to a depth of 3,000 meters (9,840 feet).

For the fourth stamp, our resident Fungi expert provides these observations. Searching the web reveals tons of pictures for bioluminescent fungi, but none really strike me as picturing the fungus on the stamp. Two come close, but I have reservations. *Omphalotus olearius* and *Gerronema strombodes* both have similar shapes, but neither hymenium (spore-bearing structure) agrees well with the stamp. In addition, several chanterelles have a similar hymenium, but the stalks for these are significantly fatter. The image is from a phot by Taylor F. Lockwood.

The fifth stamp shows a Common Eastern Firefly (*Photinus pyralis*) based on a photo by Gail Shumway. It is the most common firefly species in North America. Both males and females have light organs on the underside of their abdomens. The organ cover three segments in the males, but only one segment in the females. The insects use these bioluminescent flashes to attract and respond to mates.



The sixth stamp depicts Bamboo Coral (*Keratoisis flexibilis*). When you rub against this deep-sea coral, it releases astonishing amounts of slime and lights up like a Christmas tree. The purpose of its bioluminescence is unknown.

The seventh stamp shows a marine worm (*Flota* sp.). These free-swimming worms are often seen near the deep seafloor at depths up to 1,500 meters (4,900 feet). They propel themselves by moving their bodies, parapodia, and spines. They emit a blue glow, but scientists are not sure how this helps them survive in the depths.

The eighth stamp shows an Atolla Jellyfish also called a Coronate Medusa (*Atolla wyvillei*). It is found in oceans worldwide. The deep red crown jellyfish has 20 tentacles and one long trailing tentacle thought to facilitate prey capture. Dr. Widder created a device based on the distress flashes of this creature that has been used successfully to lure rarely seen deep-sea animals for filming.

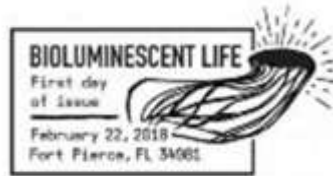
The ninth stamp shows a tiny marine worm (*Tomopteris* sp.) based on a photo by Steve Haddock. When disturbed, it erupts into a shower of angry sparks and unloads its eggs into the water before rapidly undulating away. What is unusual about this worm is that the sparks it shoots from its paddle-shaped swimming legs are golden yellow in color and not blue, like practically every other bioluminescent organism.

The tenth stamp shows a sea pen (*Umbellula* sp.). Sea pens are soft corals that get their common name because they look somewhat like quill pens. When disturbed, this particular species flashes light from its base to its head that changes color from green to blue as it flows up its stem.

Additional images in the margin show a transparent deep-sea comb jelly photographed by Gregory G. Dimijian, and the Firefly Squid photographed by Dante Fenolio.

The sheet designer was Derry Noyes, a USPS art director and former member of the Citizens' Stamp Advisory Committee.

The USPS provided two pictorial first day cancels for this issue. The black postmark is used to mark the majority of covers submitted by collectors. In addition to the issue title, date, and location, it has a drawing of a jellyfish with trailing tentacles. A digital color postmark that can be applied to certain types of envelopes depicts a swarm of fireflies in black and yellow.



Beginning with this issue, the USPS is extending its grace period for requesting first day cancels from 60 to 120 days. Collectors requesting first day cancels are encouraged to purchase and affix their own stamps. Covers should be addressed for return (a removable label is permitted) and mailed in a larger envelope addressed to: FDOI – Bioluminescent Life Stamps, USPS Stamp Fulfillment Services, 8300 NE Underground Drive, Suite 300, Kansas City, MO 64144-9900. Request must be postmarked by 22 June 2018.

INTERNATIONAL BOTANICAL CONGRESSES 1900–2017

Dr. John Gray, BU1855

[Ed. Note: This is the final installment of a three-part article on the history of the International Botanical Congresses. See Vol. 66 (3) and Vol. 66 (4) for first two parts of this article. Dr. Gray is a retired professor of plant molecular biology at the University of Cambridge, England, and has collected stamps of Great Britain since boyhood. He has written articles on Post & Go stamps and Smilers Sheets for magazines such as Gibbons Stamp Monthly. He started thematic collections on topics related to his work interests in 2006, and for the past ten years he has collected philatelic items related to Charles Darwin, plant genetics, photosynthesis, and the history of molecular biology. He has attended several International Botanical Congresses and has accumulated relevant philatelic items. He joined ATA in 2010, and the Biology Unit in 2013.]

13th Through 19th Congresses

The 13th International Botanical Congress was held at the University of Sydney, Australia on 21–28 August 1981, and a special pre-stamped envelope showing a portrait of Sir Joseph Banks (1743-1820) surrounded by indigenous flora was produced for the Congress (Fig. 17)



Fig. 17. Pre-stamped envelope and first day of issue handstamp for the 13th International Botanical Congress, University of Sydney.

The 24c stamp-like impression shows a flowering stem of the Red-flowering Gum [*Corymbia ficifolia* (F. Muell.) K.D. Hill & L.A.S. Johnson, previously *Eucalyptus ficifolia*].

The images surrounding the portrait of Sir Joseph Banks are clockwise from the top right: the Wonga Wonga Vine [*Pandorea pandorana* (Andrews) Steenis]; the Coast Banksia (*Banksia integrifolia* L.f.), which was first collected at Botany Bay by Joseph Banks and Daniel Solander; the Lacebark Tree (*Brachychiton discolor* F. Muell.); the Scarlet Fungus (*Cortinarius cinnabarinus* Fr.); the leaves and fruit of the Red-flowering Gum (*Corymbia ficifolia*); and the Soft Tree Fern (*Dicksonia antarctica* Labill.).

A postmark depicting a flowering stem of Early Green Wattle (*Acacia decurrens* Willd), the official emblem of the Sydney Congress, was available from 24 August, the first day of issue of the pre-stamped envelope, to the end of the Congress on 28 August 1981 (Fig. 17).

The 14th International Botanical Congress was held in the International Congress Center, West Berlin from 24 July 1987 to 1 August 1987, and a special 60pf stamp depicting a tree encircled by two curved arrows was issued on 16 July 1987 (Fig. 18). The stamp was designed by Reinhold Gerstetter and was issued with a range of philatelic products, including first day covers, first day sheets and minister cards.



Fig. 18. Stamp issued for the 14th International Botanical Congress.



Fig. 19. Handstamps used on the first day of issue, 16 July 1987 (left) and throughout the 14th International Botanical Congress (right).

A special handstamp, including the Congress emblem of *Hepatica* (*Hepatica nobilis* Schreber), was used for first day of issue items, but an alternative design, also with the Congress emblem, was used subsequently (Fig. 19).

In addition, the Congress organizers used a meter mark including the Congress emblem on their mailings. Fig. 20 shows a meter mark from August 1986.



Fig. 20. Meter mark used on mail from the organizers of the 14th International Botanical Congress.

The 15th International Botanical Congress was held in Yokohama, Japan from 28 August to 3 September 1993, and a pair of 62¥ stamps depicting endemic plants was issued on 23 August 1993 (Fig. 21).



Fig. 21. Stamps issued for the 15th International Botanical Congress, Yokohama (left), and the first day of issue handstamp (right).



The stamps were issued in sheets of 20 arranged in se-tenant pairs and showed the Wood Poppy (*Glaucidium palmatum* Siebold & Zucc.) and Umbrella Pine (*Sciadopitys verticillata* Siebold & Zucc.).

A handstamp depicting *Glaucidium palmatum* in brownish-red ink was applied to items posted on the first day of issue, but there was no special handstamp for items mailed during the Congress. A range of philatelic items, including first day covers and information sheets, were produced for these stamps.

The 16th International Botanical Congress was held in St Louis, Missouri on 1–7 August 1999, followed by the 17th Congress in Vienna, Austria on 17–23 July 2005, and the 18th Congress (IBC2011) in Melbourne, Australia on 24–30 July 2011. Unfortunately, there appear to have been no official philatelic items produced for these Congresses. E-mail and web-based communications seemed to have precluded the use of stamps. However, at the time of the 18th Congress, Australia Post had a Personalized Stamp service that allowed the inclusion of images

within current Australia Post stamps. A privately produced 60c stamp with the Congress emblem printed next to a flowering stem of Golden Wattle (*Acacia pycnantha* Benth.), Australia's national flower, is shown in Fig. 22.

A similar personalized stamp was also used on covers serviced from the nearest post office to the Melbourne Convention and Exhibition Centre.



Fig. 22. Personalized stamp privately produced for the 18th International Botanical Congress, Melbourne (IBC2011).



The 19th International Botanical Congress (IBC2017) was held in the Shenzhen Convention & Exhibition Center, Shenzhen, China on 23–29 July 2017, and the organizers produced a stamp folder, including a postcard and two label stamps with the IBC2017 logo set-tenant with two \$1.20 China Post special-use stamps in a block of four (Fig. 23). The special-use stamps were first issued on 1 May 2009 in sheets of 15 stamps each with an adjacent blank label that could be personalized with the customer's image. The stamp folders were presented to selected guests and invited speakers, and were not available to most of the delegates at the Congress.

Fig. 23. Block of two stamps and two labels with the IBC2017 logo from the stamp folder produced for selected guests and invited speakers at the 19th International Botanical Congress.

In addition, the organizers arranged for seven different commemorative handstamps to be used on items mailed at the Congress (Fig. 24). Each depicts a different plant of relevance to the Congress, to Shenzhen, or to China and was used for one day only.



Fig. 24. Daily handstamps used on items mailed at the 19th International Botanical Congress.

The handstamp for use on the first day of the Congress (23.07.2017) shows a leaf of the Maidenhair Tree (*Ginkgo biloba* L.), which is the basis for the IBC2017 logo. The next handstamp (24.07.2017) shows a flower of a Bougainvillea (*Bougainvillea × buttiana* Holttum & Standl.), the official flower of the city of Shenzhen.

The handstamp for the third day (25.07.2017) shows a stem of the Handkerchief Tree (*Davidia involucrata* Baill.), which is native to southern China, but which is widely cultivated worldwide. The next handstamp (26.07.2017) shows a bamboo, possibly the Dragon's Head Bamboo (*Fargesia dracocephala* T. P. Yi), which is native to central China and is eaten by giant pandas. Bamboos are culturally important in China and represent “noble character.”

The handstamp for the fifth day (27.07.2017) shows a flower of the Lotus (*Nelumbo nucifera* Gaertn.), which is grown commercially in China for its rhizomes for human consumption. The handstamp for the sixth day (28.07.2017) shows the Chien Lan Orchid [*Cymbidium ensifolium* (L.) Swartz], which has been in cultivation in China since before Confucius (551–478 BC), who praised the beauty and fragrance of the flowers. The handstamp for the last day of the Congress (29.07.2017) shows a flower of a Tree Peony (*Paeonia suffruticosa* Andrews), which is highly revered in Chinese culture and which was voted the nation's favorite flower in 1994.

IBC2017 has the distinction of being the only International Botanical Congress that has been celebrated with a stamp issue by a foreign country. On 7 July 2017, Kyrgyz Express Post of Kyrgyzstan issued two stamps depicting flowers of a Peony and a Chrysanthemum (Fig. 25), to celebrate the Congress in Shenzhen.

The stamps were designed by Anastasia Parinuic using paintings by Ivanka Costru and were issued in two sheetlets of five stamps and one label showing a larger image of the flower. The borders of the sheetlets contained the text “19th International Botanical Congress in Shenzhen (PRC)” in Kyrgyz, Chinese, English, and Russian. Kyrgyz Express Post also produced an official first day cover and a special postmark, also designed by Anastasia Parinuic and Ivanka Costru (Fig. 25, right).

At the end of the Congress, the 20th International Botanical Congress was awarded to Rio de Janeiro, Brazil and will be held on 23–29 July 2023. It will be interesting to discover if the production of philatelic items at International Botanical Congresses is continued at IBC2023.



Fig. 25. Sheets of stamps and handstamp from a first day cover produced by Kyrgyz Express Post celebrating the 19th International Botanical Congress in Shenzhen.

Acknowledgements: I am grateful to Professor Song Ge and the Congress Secretariat for information and materials from IBC2017. I will be happy to enter into correspondence concerning philatelic items related to the International Botanical Congresses. I can be contacted at jcg2@cam.ac.uk.



BOTANY

Editor

Christopher E. Dahle, BU1269

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AITUTAKI 2017 December 5 (Christmas) (Set/4)				
660a	\$1	Palm trees and moon, <i>Cocos nucifera</i>	Arecaceae	T B
661b	\$2.40	Holly and sea turtle, <i>Ilex aquifolium</i>	Aquifoliaceae	V B
ANTIGUA 2017 August 1 (Fruit of the Caribbean) (2ea MS/4)				
3383a	\$7	Apple Bananas, <i>Musa acuminata</i> × <i>Musa balbisiana</i>	Musaceae	Fr A MS
3383b	\$7	Malay Apples, <i>Syzygium malaccense</i>	Myrtaceae	Fr A MS
3383c	\$7	Sapodillas, <i>Manilkara zapota</i>	Sapotaceae	Fr A MS
3383d	\$7	Eggplants, <i>Solanum melongena</i>	Solanaceae	Fr A MS
3384a	\$7	Papayas, <i>Carica papaya</i>	Caricaceae	Fr A MS
3384b	\$7	Cacao pods, <i>Theobroma cacao</i>	Malvaceae	Fr A MS
3384c	\$7	Spanish Limes or Genip, <i>Melicoccus bijugatus</i>	Sapindaceae	Fr A MS
3384d	\$7	Avocados, <i>Persea americana</i>	Lauraceae	Fr A MS
AUSTRALIA 2017 February 7 (Rose Type of 2017 w/ personalized photo) (Set/2)				
4586	\$1	Rose, <i>Rosa x hybrida</i>	Rosaceae	Fl A
2017 September 27 (Water Plants) (Set/3 & 3ea Bklt/5)				
4680	\$2.10	Entire Marshwort, <i>Nymphoides geminate</i> (perf 14x14 ³ / ₄)	Menyanthaceae	Fl A
4681	\$2.30	Giant water lily, <i>Nymphaea gigantea</i> (perf 14x14 ³ / ₄)	Nymphaeaceae	Fl A
4682	\$3	Lotus, <i>Nelumbo nucifera</i> (perf 14x14 ³ / ₄)	Nelumbonaceae	Fl A
4683	\$2.10	Entire Marshwort, <i>Nymphoides geminata</i>	Menyanthaceae	Fl A
4683a		Bklt/5 (Sc#4683) (die cut 11 ¹ / ₄) (s/a)		
4684	\$2.30	Giant water lily, <i>Nymphaea gigantea</i>	Nymphaeaceae	Fl A
4684a		Bklt/5 (Sc#4684) (die cut 11 ¹ / ₄) (s/a)		
4685	\$3	Lotus, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl A
4685a		Bklt/5 (Sc#4685) (die cut 11 ¹ / ₄) (s/a)		
BANGLADESH 2017 August 3 (Flowers) (2ea Horiz Pair)				
869a	5t	Bengal Clockvine, <i>Thunbergia grandiflora</i>	Acanthaceae	Fl A
869b	5t	Water Hyacinth, <i>Eichhornia crassipes</i>	Pontederiaceae	Fl A
870a	7t	Hiptage, <i>Hiptage benghalensis</i>	Malpighiaceae	Fl A
870b	7t	Bushy Matgrass, <i>Lippia alba</i>	Verbenaceae	Fl A
BELGIUM 2017 August 21 (University Bicentennials) (SS/2)				
2831b	(€4.05)	X-ray image of flower		Fl U B SS
BHUTAN 2017 June 19 (Fruits & Nuts) (MS/8 & SS/1)				
1575a	15nu	Mandarin oranges, <i>Citrus reticulata</i>	Rutaceae	Fr A MS
1575b	15nu	Bananas, <i>Musa x paradisiaca</i>	Musaceae	Fr A MS
1575c	15nu	Passion Fruit, <i>Passiflora edulis</i>	Passifloraceae	Fr A MS
1575d	15nu	Apples, <i>Malus domestica</i>	Rosaceae	Fr A MS
1575e	15nu	Peaches, <i>Prunus persica</i>	Rosaceae	Fr A MS
1575f	15nu	Pears, <i>Pyrus communis</i>	Rosaceae	Fr A MS

BHUTAN (continued)

1575g	15nu	Pineapples, <i>Ananas comosus</i>	Bromeliaceae	Fr A MS
1575h	15nu	Plums, <i>Prunus domestica</i>	Rosaceae	Fr A MS
1576	SS 30nu	Walnuts, <i>Juglans regia</i>	Juglandaceae	Fr A SS

BOSNIA & HERZEGOVINA (Croat) 2017 May 22 (Myths & Flora: Narcissus & Echo) (SS/1)

351	5m	Daffodils, <i>Narcissus pseudonarcissus</i>	Amaryllidaceae	Fl B SS Z
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BOSNIA & HERZEGOVINA (Serb) 2017 June 15 (Flowers) (Set/5)

574	20pf	<i>Cyclamen purpurascens</i>	Primulaceae	Fl A
575	1.50m	Italian Figwort, <i>Scrophularia scopolii</i>	Scrophulariaceae	Fl A
576	1.70m	Turk's Cap Lily, <i>Lilium martagon</i>	Liliaceae	Fl A
577	2.70m	Violet Limodore, <i>Limodorum abortivum</i>	Orchidaceae	Fl A
578	5.10m	Lily-of-the-valley, <i>Convallaria majalis</i>	Asparagaceae	Fl A

BRAZIL**2016 September 11** (Fruits of the Cerrado Region) (Block/6 & MS/9)

3339a	(1.70r)	Cerrado Pineapple, <i>Ananas ananassoides</i>	Bromeliaceae	Fr A
3339b	(1.70r)	Macaranduba or Curriola, <i>Pouteria ramiflora</i>	Sapotaceae	Fr A
3339c	(1.70r)	Canela de Velho, <i>Miconia albicans</i>	Melastomataceae	Fr A
3339d	(1.70r)	Locustberries or Serrets, <i>Byrsonima verbascifolia</i>	Malpighiaceae	Fr A
3339e	(1.70r)	Wild Guava, <i>Alibertia edulis</i>	Rubiaceae	Fr A
3339f	(1.70r)	Mangaba, <i>Hancornia speciosa</i>	Apocynaceae	Fr A
3340a	(2.35r)	Monkey Nut, <i>Anacardium humile</i>	Anacardiaceae	Fr A MS
3340b	(2.35r)	Gabiroba, <i>Campomanesia adamantium</i>	Myrtaceae	Fr A MS
3340c	(2.35r)	Brazilian Pear, <i>Eugenia klotzschiana</i>	Myrtaceae	Fr A MS
3340d	(2.35r)	Cagaita, <i>Eugenia dysenterica</i>	Myrtaceae	Fr A MS
3340e	(2.35r)	Sururuca, <i>Passiflora setacea</i>	Passifloraceae	Fr A MS
3340f	(2.35r)	Bacupari-do-cerrado, <i>Salacia crassifolia</i>	Celastraceae	Fr A MS
3340g	(2.35r)	Marolo or Araticum Cortiça, <i>Annona crassiflora</i>	Annonaceae	Fr A MS
3340h	(2.35r)	Baru, <i>Dipteryx alata</i>	Fabaceae	Fr A MS
3340i	(2.35r)	Pequi or Souari Nut, <i>Caryocar brasiliense</i>	Caryocaraceae	Fr A MS

CHINA (People's Republic)**2016 July 23** (Fruit) (Set/4)

4384	\$1.20	Apricots, <i>Prunus armeniaca</i>	Rosaceae	Fr A
4385	\$1.20	Grapes, <i>Vitis vinifera</i>	Vitaceae	Fr A
4386	\$1.50	Watermelons, <i>Citrullus lanatus</i>	Cucurbitaceae	Fr A
4387	\$1.50	Litchis, <i>Litchi sinensis</i>	Sapindaceae	Fr A

2017 March 20 (Four Seasons Paintings) (Set/4)

4433	\$1.20	"Spring Swallows Flying through Willows," <i>Salix</i> sp.	Salicaceae	T B
4434	\$1.20	"Paddling in a Summer Lotus Pond," <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl B
4435	\$1.50	"Rooster Crowing at Autumn Harvest"		V U B
4436	\$1.50	"Plum Blossoms in Winter," <i>Prunus mume</i>	Rosaceae	T B

CHINA (Taiwan)**2017 July 20** (Fruit Type of 2016) (Set/4)

4365	\$3.50	Mangoes, <i>Mangifera indica</i>	Anacardiaceae	Fr A
4366	\$5	Oranges, <i>Citrus sinensis</i>	Rutaceae	Fr A
4367	\$12	Watermelon, <i>Citrullus lanatus</i>	Cucurbitaceae	Fr A
4368	\$32	Grapes, <i>Vitis vinifera</i>	Vitaceae	Fr A

COCOS ISLANDS**2017 May 30** (Garden Fruits of Cocos) (2ea Horiz Pairs & SS/4)

390a	\$1	West Indian limes, <i>Citrus aurantiifolia</i>	Rutaceae	Fr A
390b	\$1	Rose apples, <i>Syzygium malaccense</i>	Myrtaceae	Fr A
391a	\$2	Sapodillas, <i>Manilkara zapota</i>	Sapotaceae	Fr A
391b	\$2	Breadfruit, <i>Artocarpus altilis</i>	Moraceae	Fr A

COCOS ISLANDS (continued)

391c		SS/4 (Sc#390a–b & 391a–b)		
	Margin	UL: Limes, <i>Citrus aurantiifolia</i>	Rutaceae	Fr Z SS
		Top: Coconuts, <i>Cocos nucifera</i>	Arecaceae	Fr Z SS
		UR: Rose Apples, <i>Syzygium malaccense</i>	Myrtaceae	Fr Z SS
		MR: Bananas, <i>Musa paradisiaca</i>	Musaceae	Fr Z SS
		UL: Breadfruit, <i>Artocarpus altilis</i>	Moraceae	Fr Z SS
		UL: Sapodillas, <i>Manilkara zapota</i>	Sapotaceae	Fr Z SS
		UL: Papayas, <i>Carica papaya</i>	Caricaceae	Fr Z SS

COLOMBIA **2016 July 29** (50th anniv. Quindío Department) (Pair & SS/2)

1437b	200p	<i>Ceroxylon quindiuense</i>	Arecaceae	T B
1438b	SS 10000p	<i>Ceroxylon quindiuense</i>	Arecaceae	T B Z SS

2017 April 27 (Departments Type of 2003) (MS/12+8 labels)

1454i	100p	Cañaguat Tree in bloom, <i>Handroanthus chrysanthus</i>	Bignoniaceae	FL T A
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CONGO REPUBLIC **2002 June 25** (Fruit Type of 2002)

1242A	380fr	Tsia, <i>Landolphia jumellei</i>	Apocynaceae	Fr A
1242B	1500fr	Ntondolo, <i>Aframomum</i> sp.	Zingiberaceae	Fr U A

COSTA RICA **2016 December 1** (Surtax for Children's Village) (Set/4)

RA135a	65col	Pineapple and slice, <i>Ananas comosus</i>	Bromeliaceae	Fr A
RA135b	65col	Pineapple and Watermelon slices, <i>Citrullus lanatus</i>	Cucurbitaceae	Fr A
RA135c	65col	Watermelon and Bananas, <i>Musa x paradisiaca</i>	Musaceae	Fr A
RA135d	65col	Banana and Papaya, <i>Carica papaya</i>	Caricaceae	Fr A

2017 June 30 (Diplomatic Relations with China) (SS/1)

686	1400col	Guaria Morada, <i>Guarianthe skinneri</i>	Orchidaceae	Fl Z SS
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2017 September 27 (America Issue) (Horiz Pair)

690b	650col	San Juan-La Selva Biological Corridor: pond & forest		T U B
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CROATIA **2017 September 4** (20th anniv. Diplomatic relations with Israel) (Single)

1045	7.60k	L: Anemone, <i>Anemone coronaria</i>	Ranunculaceae	Fl B
		R: Iris, <i>Iris x germanica</i> (=x <i>croatica</i>)	Iridaceae	Fl B

CUBA **2016 April 23** (Cervantes & Shakespeare) (2ea Horiz Pairs)

5828a	75c	Roses, <i>Rosa x hybrida</i> (w/ dagger)	Rosaceae	Fl B
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2016 August 13 (Desembarco del Granma National Park) (Set/4)

5838	75c	Plumeria, <i>Plumeria</i> sp. (terrace system)	Apocynaceae	Fl U A
5839	85c	Palms, <i>Coccothrinax saxicola</i> (w/ snail)	Arecaceae	T A

CYPRUS **2017 July 10** (Single)

1285	64c	Stylized tree		T A S
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DENMARK **2017 September 28** (Winter Flowers) (Bklt/10)

1784	8k	Tulips, <i>Tulipa x hybrida</i>	Liliaceae	Fl B
		Mistletoe, <i>Viscum album</i>	Santalaceae	Fl B
1785	8k	Hyacinths, <i>Hyacinthus orientalis</i>	Asparagaceae	Fl A
1786	8k	Christmas Rose, <i>Helleborus niger</i>	Ranunculaceae	Fl A
1787	8k	Anemone, <i>Anemone coronaria</i>	Ranunculaceae	Fl B
		Ivy, <i>Hedera helix</i>	Araliaceae	Fl B
1788	8k	Christmas Rose, <i>Helleborus niger</i>	Ranunculaceae	Fl B
		Anemone, <i>Anemone coronaria</i>	Ranunculaceae	Fl B
1788a		Bklt/10 (2ea Sc#1784–88)		

DJIBOUTI**2017 January 20** (Orchids) (MS/4 & SS/1)

1125a	280fr	Blue Orchid, <i>Vanda coerulea</i>	Orchidaceae	FI A MS
1125b	280fr	Cattleya, <i>Cattleya</i> sp.	Orchidaceae	FI U A MS
1125c	280fr	White Phalaenopsis, <i>Phalaenopsis</i> sp.	Orchidaceae	FI U A MS
1125d	280fr	<i>Zygopetalum</i>	Orchidaceae	FI A MS
1150	SS 960fr	Black Phalaenopsis, <i>Phalaenopsis</i> sp.	Orchidaceae	FI U A SS
	Margin	UR: <i>Oncidium</i> sp.	Orchidaceae	FI U Z SS
		Ctr: U/I orchid	Orchidaceae	FI U Z SS
		LR: Blue Orchid, <i>Vanda coerulea</i>	Orchidaceae	FI Z SS

2017 March 15 (Windmills & Tulips) (MS/4 & SS/1)

1176a	240fr	Red & White Tulips, <i>Tulipa hybrida</i>	Liliaceae	FI B MS
1176b	240fr	Yellow Tulips, <i>Tulipa hybrida</i>	Liliaceae	FI B MS
1176c	240fr	Orange Tulips, <i>Tulipa hybrida</i>	Liliaceae	FI B MS
1176d	240fr	Red Tulips, <i>Tulipa hybrida</i>	Liliaceae	FI B MS
1200	SS 950fr	Red & Yellow Tulips, <i>Tulipa hybrida</i> (also Bot margin)	Liliaceae	FI B Z SS

2017 July 5 (Bees & Orchids) (MS/4 & SS/1)

1208a	240fr	<i>Cattleya aelandiae</i>	Orchidaceae	FI B MS
1208b	240fr	<i>Cymbidium madidum</i>	Orchidaceae	FI B MS
1208c	240fr	<i>Maxillariella</i> (= <i>Maxillaria</i>) <i>tenuifolia</i>	Orchidaceae	FI B MS
1208d	240fr	<i>Cattleya lueddemanniana</i>	Orchidaceae	FI B MS
1218	SS 950fr	<i>Laelia anceps</i>	Orchidaceae	FI B SS
	Margin	R: <i>Coryanthes leucocorys</i>	Orchidaceae	FI Z SS

DOMINICAN REPUBLIC**2017 September 12** (Fruit) (MS/12)

1615a	20p	Sweetsop, <i>Annona squamosa</i>	Annonaceae	Fr A MS
1615b	20p	Star Apple, <i>Chrysophyllum cainito</i>	Sapotaceae	Fr A MS
1615c	20p	Barbados Cherry, <i>Malpighia puniceifolia</i>	Malpighiaceae	Fr A MS
1615d	20p	Serrette Guave, <i>Eugenia domingensis</i>	Myrtaceae	Fr A MS
1615e	20p	Cocoplum, <i>Chrysobalanus icaco</i>	Chrysobalanaceae	Fr A MS
1615f	20p	Genip, <i>Genipa americana</i>	Rubiaceae	Fr A MS
1615g	20p	Mombin, <i>Spondias mombin</i>	Anacardiaceae	Fr A MS
1615h	20p	Mamey, <i>Mammea americana</i>	Calophyllaceae	Fr A MS
1516i	20p	Custard Apple, <i>Annona reticulata</i>	Annonaceae	Fr A MS
1615j	20p	Locust Berry, <i>Byrsonima spicata</i>	Malpighiaceae	Fr A MS
1615k	20p	<i>Ziziphus rhodoxylon</i>	Rhamnaceae	Fr A MS
1615l	20p	Sea Grape, <i>Coccoloba uvifera</i>	Polygonaceae	Fr A MS

FINLAND**2017 February 24** (Summer Flowers Bouquet) (Single)

1533	(€1.20)	Daisies, <i>Argyranthemum frutescens</i>	Asteraceae	FI B
		Red Clover, <i>Trifolium pratense</i>	Fabaceae	FI B
		Bluebells, <i>Campanula rotundifolia</i>	Campanulaceae	FI B
		Blueberry twigs, <i>Vaccinium myrtillus</i>	Ericaceae	FI B

2017 February 24 (Single)

1534	(€1.20)	Pussy Willows, <i>Salix</i> sp.	Salicaceae	FI U A
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2017 September 6 (Seasons) (Set/4)

1549	(€1.30)	Coltsfoot, <i>Tussilago farfara</i> (flower in spring)	Asteraceae	FI A
1551	(€1.30)	U/I Trees (lake in autumn)		T U B

FINLAND (Åland)**2017 March 14** (Cultural Diversity) (Single)

393	(€1.20)	Scotch pine, <i>Pinus sylvestris</i>	Pinaceae	T B
		Salvadora, <i>Salvadora oleoides</i>	Salvadoraceae	T B

FRANCE		2017 July 10 (Trees of the Mediterranean Area) (Single)		
5275	€1.10	Olive, <i>Olea europaea</i>	Oleaceae	Fr V B
		Maritime Pine, <i>Pinus maritimus</i>	Pinaceae	Fr V B
		Green Oak, <i>Quercus ilex</i>	Fagaceae	Fr V B
		Tamarisk, <i>Tamarix ramosissima</i>	Tamaricaceae	Fr V B
		Mimosa, <i>Acacia dealbata</i>	Fabaceae	Fr V B
		Arbutus, <i>Arbutus unedo</i>	Ericaceae	Fr V B
GAMBIA		2017 June 26 (Sunflowers) (MS/4 & SS/2)		
3746a	85d	Sunflowers, <i>Helianthus annuus</i> (field bkgrd)	Asteraceae	Fl A MS
3746b	85d	Same species (blue sky bkgrd)		Fl A MS
3746c	85d	Same species (gray sky bkgrd w/ plants)		Fl A MS
3746d	85d	Same species (gray sky bkgrd w/o plants)		Fl A MS
3747a	SS 125d	Sunflowers, <i>Helianthus annuus</i> (flower center at LR)	Asteraceae	Fl A SS
3747b	SS 125d	Same species (flower center at UL)		Fl A SS
		2017 August 9 (Hibiscus Flowers) (Sheet/4 & SS/2)		
3753a	85d	Hibiscus, <i>Hibiscus rosa-sinensis</i> (yellow flower)	Malvaceae	Fl A MS
3753b	85d	Same species (red flower)		Fl A MS
3753c	85d	Same species (peach flower)		Fl A MS
3753d	85d	Same species (pink flower)		Fl A MS
3753	Margin	Same species (orange flower)		Fl Z MS
3754a	SS 125d	Hibiscus, <i>Hibiscus rosa-sinensis</i> (yellow-orange flower)	Malvaceae	Fl A SS
3754b	SS 125d	Same species (orange flower)	Malvaceae	Fl A SS
3754	Margin	Same species (pink flower)		Fl Z SS
GERMANY		2017 June 8 (Flower Type of 2005) (See <i>Plants on Stamps</i> Vol. V, p.62)		
2968	10c	Winter Aconite or Winterling, <i>Eranthis hyemalis</i>	Ranunculaceae	Fl A
2969	20c	Harebells or Hasenglöckchen, <i>Campanula rotundifolia</i>	Campanulaceae	Fl A
		2017 September 7 (Single)		
2990	70c	Wine Grapes, <i>Vitis vinifera</i>	Vitaceae	Fr A
		2017 November 2 (Wild Germany) (Set/2)		
2999	90c	Oak Tree, <i>Quercus robur</i>	Fagaceae	T A
KAZAKHSTAN		2017 August 31 (Novruz) (Single)		
822	300te	Tulips, <i>Tulipa</i> sp.	Liliaceae	Fl U A
MOLDOVA		2017 May 30 (Plants from Chişinău Botanical Garden) (Block/4)		
946a	1.75l	Foxglove, <i>Digitalis purpurea</i>	Plantaginaceae	Fl A
946b	4l+10b	Columbine, <i>Aquilegia x hybrida</i>	Ranunculaceae	Fl A
946c	5.20l	Chinese Peony, <i>Paeonia lactiflora</i>	Paeoniaceae	Fl A
946d	5.75l	Daylily, <i>Hemerocallis x hybrida</i>	Xanthorrhoeaceae	Fl A
MONTSERRAT		2017 July 24 (Heliconias of Montserrat) (MS/4 & SS/1)		
1396a	\$7	Purple Heliconia, <i>Heliconia bourgaeana</i> (= <i>champneiana</i>)	Heliconiaceae	Fl A
1396b	\$7	Red Palulu or Firebird or Macaw Flower, <i>Heliconia bihai</i>	Heliconiaceae	Fl A
1396c	\$7	Lobster Claw, <i>Heliconia rostrata</i>	Heliconiaceae	Fl A
1396d	\$7	<i>Heliconia psittacorum x spathocircinata</i>	Heliconiaceae	Fl A
1397	SS \$10	Caribbean Heliconia or Wild Plantain, <i>Heliconia caribaea</i>	Heliconiaceae	Fl A SS
NEVIS		2017 June 22 (Tree Flowers) (2ea MS/4)		
1928a	\$5.50	Tulip Tree, <i>Liriodendron tulipifera</i>	Magnoliaceae	Fl A MS
1928b	\$5.50	Royal Poinciana, <i>Delonix regia</i>	Fabaceae	Fl A MS
1928c	\$5.50	Shaving Brush Tree, <i>Pseudobombax ellipticum</i>	Malvaceae	Fl A MS
1928d	\$5.50	Geiger Tree, <i>Cordia sebestena</i>	Boraginaceae	Fl A MS

NEVIS (continued)

1929a	\$5.50	Golden Shower Tree, <i>Cassia fistula</i>	Fabaceae	Fl A MS
1929b	\$5.50	Jacaranda, <i>Jacaranda mimosifolia</i>	Bignoniaceae	Fl A MS
1929c	\$5.50	Japanese Cherry, <i>Prunus serrulata</i>	Rosaceae	Fl A MS
1929d	\$5.50	Southern Magnolia, <i>Magnolia grandiflora</i>	Magnoliaceae	Fl A MS

NIUE**2017 December 6** (Christmas) (Set/4 & SS/4)

965	30c	Frangipani, <i>Plumeria alba</i>	Apocynaceae	Fl A
966	\$1.40	Guava, <i>Psidium guajava</i>	Myrtaceae	Fr A
967	\$2	Hibiscus, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A
968	\$4	Papaya, <i>Carica papaya</i>	Caricaceae	Fr A
968a		SS/4 (Sc#965–68)		

NEW ZEALAND**2017 October 4** (Herbs & Vegetables) (Set/6 & MS/6)

Arrow-shaped stamps. The MS stamps have a “Plant Me” circle at the bottom. If purchased in New Zealand, the MS stamps had seeds affixed. Planting the stamps enabled the seeds to sprout.

2744	\$1	Basil, <i>Ocimum basilicum</i>	Lamiaceae	V A
2745	\$1	Carrots, <i>Daucus carota</i>	Apiaceae	V A
2746	\$2.20	Parsley, <i>Petroselinum crispum</i>	Apiaceae	V A
2747	\$2.30	Chives, <i>Allium schoenoprasum</i>	Amaryllidaceae	V A
2748	\$2.70	Broccoli, <i>Brassica oleracea</i>	Brassicaceae	Fl A
2749	\$3.30	Lettuce, <i>Lactuca sativa</i>	Asteraceae	V A
2750a	\$1	Basil, <i>Ocimum basilicum</i>	Lamiaceae	V A
2750b	\$1	Carrots, <i>Daucus carota</i>	Apiaceae	V A
2750c	\$2.20	Parsley, <i>Petroselinum crispum</i>	Apiaceae	V A
2750d	\$2.30	Chives, <i>Allium schoenoprasum</i>	Amaryllidaceae	V A
2750e	\$2.70	Broccoli, <i>Brassica oleracea</i>	Brassicaceae	Fl A
2750f	\$3.30	Lettuce, <i>Lactuca sativa</i>	Asteraceae	V A

POLAND**2017 August 31** (Herbs) (MS/4)

4297a	2.60z	Cornflower, <i>Centaurea cyanus</i>	Asteraceae	Fl A MS
4297b	2.60z	Chamomile, <i>Matricaria chamomilla</i>	Asteraceae	Fl A MS
4297c	2.60z	Yarrow, <i>Achillea millefolium</i>	Asteraceae	Fl A MS
4297d	2.60z	Breckland Thyme or Creeping Thyme, <i>Thymus serpyllum</i>	Lamiaceae	Fl A MS

ST. MARTIN**2016 January 27** (Flowers) (12ea SS/1)

The margins of these SS have images of plants and insects taken from various prints by the artist Maria Sibylla Merian (1647–1717).

116	SS 500c	Scrambled Eggs, <i>Corydalis aurea</i>	Papaveraceae	Fl A SS
117	SS 500c	Rock Harlequin, <i>Capnoides (=Corydalis) sempervirens</i>	Papaveraceae	Fl A SS
118	SS 500c	Golden Eardrops, <i>Ehrendorferia (=Dicentra) chrysantha</i>	Papaveraceae	Fl A SS
119	SS 500c	Dutchman’s Breeches, <i>Dicentra cucullaria</i>	Papaveraceae	Fl A SS
120	SS 500c	California Poppy, <i>Eschscholzia californica</i>	Papaveraceae	Fl A SS
121	SS 500c	Yellow Pond-lily, <i>Nuphar lutea</i>	Nymphaeaceae	Fl A SS
122	SS 500c	Rocky Mountain Pond-lily, <i>Nuphar polysepala</i>	Nymphaeaceae	Fl A SS
123	SS 500c	Yellow or Mexican Water Lily, <i>Nymphaea mexicana</i>	Nymphaeaceae	Fl A SS
124	SS 500c	Moss Campion, <i>Silene acaulis</i>	Caryophyllaceae	Fl A SS
125	SS 500c	Cardinal Catchfly, <i>Silene laciniata</i> ssp. <i>californica</i> (= <i>S. californica</i>)	Caryophyllaceae	Fl A SS
126	SS 500c	Fire Pink or Scarlet Catchfly, <i>Silene virginica</i>	Caryophyllaceae	Fl A SS
127	SS 500c	Matilija Poppy, <i>Romneya coulteri</i>	Papaveraceae	Fl A SS

ST. THOMAS & PRINCE IS.		2016 January 11 (Biodiversity) (MS/8+1 label)		
3036d	2000d	Cacao, <i>Theobroma cacao</i>	Malvaceae	Fr A MS
3036f	2000d	Torch Ginger, <i>Etilingera elatior</i>	Zingiberaceae	Fl U A MS
3036h	2000d	Jackfruit, <i>Artocarpus heterophyllus</i>	Moraceae	Fr A MS
		2016 January 26 (Ptg by Paul Cézanne) (MS/4)		
3056c	31000d	“Still Life with Apples,” <i>Malus domestica</i>	Rosaceae	Fr B MS
		2016 March 30 (Philatapei 2016 World Stamp Exhibition) (MS/4)		
3077a	31000d	Plum blossoms, <i>Prunus mume</i>	Rosaceae	Fl A MS
		2016 March 30 (Intl. Year Pulses) (MS/4 & SS/1)		
3088a	31000d	U/I seedlings (w/ combine)	Fabaceae	V U B MS
3088b	31000d	Beans, <i>Phaseolus vulgaris</i> (w/ woman & child)	Fabaceae	Fr B MS
3088c	31000d	Green Peas, <i>Pisum sativa</i>	Fabaceae	Fr A MS
3088d	31000d	Beans, <i>Phaseolus vulgaris</i> (for sale at market)	Fabaceae	Fr B MS
3107	SS 96000d	Beans, <i>Phaseolus vulgaris</i> (harvesting)	Fabaceae	Fr V B SS
	Margin:	Peas in pod, scoop with beans, bags of pulses	Fabaceae	Fr V Z SS
		2016 September 2016 (Orchids) (MS/4 & SS/1)		
3175a	31000d	<i>Thunia alba</i>	Orchidaceae	Fl A MS
3175b	31000d	Vanilla, <i>Vanilla planifolia</i>	Orchidaceae	Fl A MS
3175c	31000d	Cymbidium, <i>Cymbidium</i> sp.	Orchidaceae	Fl U A MS
3175d	31000d	Flying Duck Orchid, <i>Caleana major</i>	Orchidaceae	Fl A MS
3194	SS 96000d	Deer Antler Moth Orchid, <i>Phalaenopsis cornu-cervi</i>	Orchidaceae	Fl A SS
	Margin	L: Chinese ground orchid, <i>Bletilla striata</i>	Orchidaceae	Fl Z SS
ST. VINCENT		2016 January 28 (Flowers & Plants) (MS/6, MS/4 & SS/1)		
4051a	\$3	Sampaguita, <i>Jasminum sambac</i>	Oleaceae	Fl A MS
4051b	\$3	Heliconia, <i>Heliconia pendula</i>	Heliconiaceae	Fl A MS
4051c	\$3	Chives, <i>Allium schoenoprasum</i>	Amaryllidaceae	Fl A MS
4051d	\$3	Garden Cosmos, <i>Cosmos bipinnatus</i>	Asteraceae	Fl A MS
4051e	\$3	Morning Glories, <i>Ipomoea nil</i> (=hederacea)	Convolvulaceae	Fl A MS
4051f	\$3	Lotus, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl A MS
4052a	\$3.25	Hibiscus, <i>Hibiscus clayi</i>	Malvaceae	Fl A MS
4052b	\$3.25	Frangipani, <i>Plumeria obtusa</i>	Apocynaceae	Fl A MS
4052c	\$3.25	Bird-of-paradise, <i>Strelitzia regina</i>	Strelitziaceae	Fl A MS
4052d	\$3.25	Maxillaria, <i>Brasiliorchis</i> (=Maxillaria) <i>picta</i>	Orchidaceae	Fl A MS
4253	SS \$10	Hibiscus, <i>Hibiscus clayi</i>	Malvaceae	Fl A SS
		2016 April 11 (Queen Elizabeth: Longest British Reign) (MS/3 & SS/2)		
4070	Margin	Bot: Daffodils & Narcissus, <i>Narcissus pseudonarcissus</i>	Amaryllidaceae	Fl Z MS
4071	Margin	Bot: Daffodils & Narcissus, <i>Narcissus pseudonarcissus</i>	Amaryllidaceae	Fl Z MS
		2016 May 26 (New York State Emblematic Items) (MS/6)		
4076a	\$3.15	Sweetbriar Rose, <i>Rosa rubiginosa</i> (state flower)	Rosaceae	Fl A MS
4076e	\$3.15	Sycamore Maple, <i>Acer platanoides</i> (state tree)	Sapindaceae	V A MS
SERBIA		2017 June 1 (European Nature Protection) (Set/2)		
787	50d	Waterwheel Plant, <i>Aldrovanda vesiculosa</i>	Droseraceae	V A
SLOVENIA		2017 September 29 (Cereal Crops) (Set/5)		
1228	40c	Buckwheat, <i>Fagopyrum esculentum</i>	Polygonaceae	Fl Fr A
1229	48c	Wheat, <i>Triticum aestivum</i>	Poaceae	Fl Fr A
1230	58c	Millet, <i>Panicum miliaceum</i>	Poaceae	Fl Fr A
1231	79c	Barley, <i>Hordeum vulgare</i>	Poaceae	Fl Fr A
1232	€1	Spelt, <i>Triticum spelta</i>	Poaceae	Fl Fr A

SPAIN		2017 September 20 (Spanish Cuisine: Products of Murcia) (SS/2)		
4222a	SS €2	Calasparra Rice, <i>Oryza sativa</i> (also Bot margin)	Poaceae	Fr A Z SS
4222b	SS €2	Jumilla Wine, <i>Vitis vinifera</i> (also Top margin)	Vitaceae	Fr A Z SS
SRI LANKA		2017 July 13 (150th anniv. Ceylon Tea) (Set/2 & SS/2)		
2088a	35r	Tea Plant, <i>Camellia sinensis</i> (w/ James Taylor & tea picker)	Theaceae	V B
THAILAND		2015 February 9 (Rose w/ scratch & sniff coating) (Single)		
2844	5b	Princess Maha Chakri Sirindihorn Rose, <i>Rosa x hybrida</i>	Rosaceae	Fl A
		2016 August 10 (Thailand Intl Stamp Exhibition) (Single)		
2928	5b	'Queen Sirikit' Water Lily, <i>Nymphaea</i> 'Queen Sirikit'	Nymphaeaceae	Fl A
		2016 November 15 (Canna Lilies) (Set/6)		
2932	3b	Canna, <i>Canna indica</i> (yellow & red)	Cannaceae	Fl A
2933	3b	Same species (red)		Fl A
2934	3b	Same species (yellow)		Fl A
2935	3b	Same species (yellow & orange)		Fl A
2936	15b	Same species (red)		Fl A
2937	15b	Same species (yellow)		Fl A
		2017 February 7 (Single)		
2941	5b	Rose, <i>Rosa x hybrida</i>	Rosaceae	Fl A S
TONGA		2017 July 18 (Intl. Year Sustainable Tourism for Development) (MS/6)		
1325b	2.25pa	Bananas, <i>Musa x paradisiaca</i>	Musaceae	Fr A MS
		Papayas, <i>Carica papaya</i>	Caricaceae	Fr A MS
		Breadfruit, <i>Artocarpus heterophyllus</i>	Moraceae	Fr A MS
TURKISH REP. OF N. CYPRUS		2017 July 31 (Flowers) (Set/4)		
810	1l	<i>Teucrium divaricatum</i> ssp. <i>canescens</i>	Lamiaceae	Fl A
811	1.50l	<i>Dianthus strictus</i> ssp. <i>troodi</i>	Caryophyllaceae	Fl A
812	1.65l	<i>Teucrium salaminium</i>	Lamiaceae	Fl A
813	1.80l	<i>Sideritis cypria</i>	Lamiaceae	Fl A
UNITED NATIONS		2017 October 16 (World Food Day) (Set/2)		
1175	49c	Radish, <i>Raphanus raphanistrum</i> ssp. <i>sativus</i>	Brassicaceae	Fr V B
		Fennel, <i>Foeniculum vulgare</i>	Apiaceae	Fr V B
		Artichoke, <i>Cynara cardunculus</i> ssp. <i>flavescens</i>	Asteraceae	Fr V B
		Pepper, <i>Capsicum annuum</i>	Solanaceae	Fr V B
		Squash, <i>Cucurbita pepo</i>	Cucurbitaceae	Fr V B
		Carrot, <i>Daucus carota</i>	Apiaceae	Fr V B
		Garlic, <i>Allium sativum</i>	Amaryllidaceae	Fr V B
1176	\$1.15	Olives, <i>Olea europaea</i> (w/ food & jar of oil)	Oleaceae	Fr B
UNITED NATIONS (Geneva)		2017 October 16 (World Food Day) (Set/2)		
645	1.50fr	Grape, <i>Vitis vinifera</i>	Vitaceae	Fr B
		Blueberries, <i>Vaccinium myrtillus</i>	Ericaceae	Fr B
		Pear, <i>Pyrus communis</i>	Rosaceae	Fr B
		Peach, <i>Prunus persica</i>	Rosaceae	Fr B
		Orange, <i>Citrus sinensis</i>	Rutaceae	Fr B
		Cherries, <i>Prunus avium</i>	Rosaceae	Fr B
UZBEKISTAN		2017 May 12 (Flowers) (Set/2 & SS/1)		
828	1300s	<i>Hibiscus hybridus</i>	Malvaceae	Fl A
829	1900s	<i>Crocus sativus</i>	Iridaceae	Fl A
830	2400s	<i>Eremurus lactiflorus</i>	Xanthorrhoeaceae	Fl A

UZBEKISTAN (continued)		2017 June 9 (Fruit) (Set/2)			
831	1300s	Figs, <i>Ficus carica</i>		Moraceae	Fr A
832	1600s	Peaches, <i>Prunus persica</i>		Rosaceae	Fr A

ISRAEL ENDANGERED SPECIES

Tal Polak, PhD

[*Ed note: This article is from a press release provided by The Israel Philatelic Service (www.israelpost.co.il). The author is an ecologist with The Israel Nature and Parks Authority.*]

A public association called Hai-Bar was founded in the 1960s under the patronage of the Nature Parks Authority and managed by Avraham Yaffe and Uri Tson. The association's objective was to restore wildlife species that had become extinct in Israel and repopulate endangered species.

In the early 1970s, an area of approximately 12,000 dunams (2,965 acres) was fenced in within the Yotvata Nature Reserve, which preserves one of the salt flats in the Southern Arava. Large herbivores that had become extinct in Israel were brought in, as well as a number of species that did not exist in Israel, but were endangered in the world, such as the Wild Ass, White Antelope, Sahara Oryx, Arabian Oryx, African Wild Ass, and Ostrich. It is a diverse habitat, rich in species and large acacia trees that grow in the western part of the reserve.

In the beginning of the 21st century, a few thousand additional dunams were fenced in to the west of Highway 90 in order to protect the world's last population of Acacia Gazelle, which is endangered worldwide. This species is monitored carefully to preserve its existence.

Some of the wildlife species in Yotvata Hai-Bar are not being repopulated in Israel, but are raised as part of an international preservation effort to prevent their extinction. The Hai-Bar also serves as an emergency veterinary facility as well as a rehabilitation and way station for animals injured in the wild, with the intention of releasing them back into nature after they have healed.

Some of the Hai-Bar's most prominent species:

Arabian Oryx (*Oryx leucoryx*)

The Arabian Oryx is suited to extreme desert conditions. It can survive for many days without water, making do with only the liquids derived from its food. It lives in small herds with a hierarchy for males and for females. The size of the herd varies depending on the food supply. Acacia seed pods are the Arabian Oryx's main source of food and passage through the oryx's digestive system improves the seeds' germination success. In the late 1970s, a breeding core with four oryx pairs was established at the Hai-Bar, and today there are more than 100 of these animals in the reserve. An estimated 100 others live in the wild in the Arava and in the Negev mountain area.

Wild Ass (*Equus hemionus*)

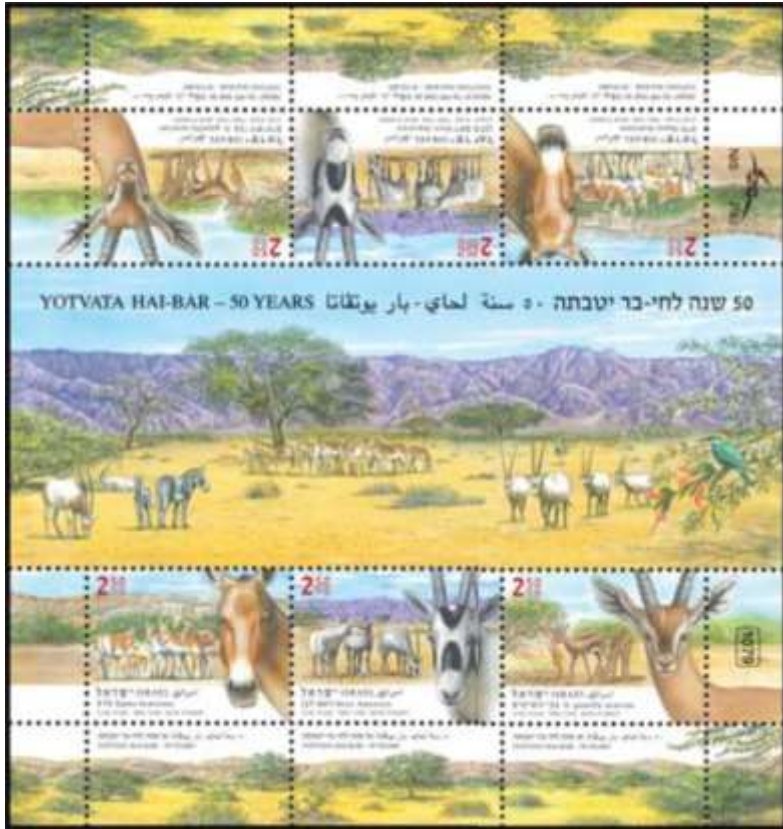
The Wild Ass lives in herds of females that move between the territories of the dominant males, while the young males live in bachelor herds. It feeds on desert vegetation, but does need water. The number of male territories is determined by the available water sources. The Asian Wild Ass, a sub-species of the Middle-eastern Wild Ass is extinct, thus the breeding core established in Yotvata Hai-Bar in the 1960s was based on a population made up of two other sub-species: the Persian Wild Ass and the Turkmenian Wild Ass. The re-introduction program began in 1982 in the Machtesh Ramon area and is considered to be a success. Today there are some 300 of these animals living in the wild.

Acacia Gazelle (*Gazella gazella acaciae*)

The Acacia Gazelle was discovered in the Arava in the 1960s by zoologist Giora Ilani. This is the rarest gazelle species in Israel and the population is only about 20 animals, which currently live in a fenced area of the Yotvata Reserve. Most of its food comes from the acacia trees, mainly the foliage and the fruit, which it can reach by standing on its hind legs. The Israel Nature and Parks Authority makes great efforts to preserve and nurture the Acacia Gazelle population in the hope that in the future it will grow and be able to return to the wild.

Miniature Sheet

On 6 February 2018, Israel Post issued a miniature sheet of six stamps and six tabs depicting the three animals described above and honoring the 50th anniversary of Yotvata Hai-Bar. The sheets were printed using offset lithography by Cartor Security Printing in France. Each stamp measures 30 mm high by 40 mm wide.



The Yotvata Hai-Bar nature reserve is located about 35 km north of Eilat. It is open year round during daytime. There is a driving path suitable for all types of vehicles that enables visitors (who must remain inside the vehicle) to observe the animals. The reserve also offers an overnight campground as well as a visitor center and souvenir store.



ACACIA

The *Acacia* genus is a botanical mess. These shrubs and trees take their common name from the genus name. Initially, the genus comprised a group of plant species native to Africa and Australia, with the first species *A. nilotica* described by Linnaeus.

Controversy erupted in the early 21st century when it became evident that the genus as it stood to that point was not monophyletic (i.e., descended from a common ancestor), and that several divergent lineages needed to be placed in separate genera. It turned out that one lineage comprising more than 900 species mainly native to Australia was not closely related to the mainly African lineage that contained *A. nilotica*—the first and type species.

This meant that the Australian lineage (by far the most prolific in number of species) would need to be renamed. Botanist Les Pedley proposed the name *Racosperma* for this group, which was inconsistently adopted.

Australian botanists counter-proposed that this would be more disruptive than setting a different type species (*A. penninervis*) and allowing this large number of species to remain *Acacia*, resulting in the two African lineages being renamed *Vachellia* and *Senegalia*, and the two New World lineages renamed *Acaciella* and *Mariosousa*. This was officially adopted in 2011 by the International Botanical Congress (conveniently held in Melbourne), but many botanists from Africa and elsewhere disagreed that this was necessary and some continue to consider the entire group as one genus.

NEW PLANTS IN THE PHILATELIC HERBARIUM

Christopher E. Dahle, BU1269

This is the third edition of this column. Let us see what we can do to have more entries with smaller file sizes.



Spiraea cantoniensis. ROSACEAE, Reeves' Spirea

Synonyms: *S. cantoniensis* var. *cantoniensis*, *S. lanceolata*, *S. neumannii*, *S. reevesiana*

Reeves' Spirea is a bush 1.2–1.8 m tall with cascading white flowering branches. Flowers about 1 cm diameter in clusters 5 cm appear in spring. Native to China and Japan. Cultivated for centuries.

Japan Sc#3982c. Hospitality Flowers Series 5 (*Omotenashi*) issued 1 April 2016. Designed by Nakamaru Hitomi. The title "*Omotenashi*" represents the spirit of service and hospitality for the guests.



Zingiber mioga. ZINGIBERACEAE, Japanese Ginger, Myoga Ginger

Synonyms: *Amomum mioga*; *Z. echuanense*; *Z. mijooka*; *Z. sjooka*

Deciduous, herbaceous perennial found in Japan, China, and Korea. It grows naturally in the understory of forests. Grown commercially for spring shoots and young flower buds produced in autumn. Flower buds are used in soups, tempura, pickled, and as a spice.

Japan Sc#3993b. Vegetable and Fruits Series 6 issued 20 May 2016. Stamps were designed by Taamaki Akira and illustrated by Hatano Hikaru. Printed in offset in six colors.

Abies homolepis. PINACEAE, Nikko Fir

Tree 25–40 m, needles 3 cm, purplish cones 6–12 cm. Native to mountainous regions of Japan at altitudes 700–2000 m. Not important for timber. Grown as ornamental in Japan and Europe.

Japan Sc#3997b. Afforestation issue, 3 June 2016. Designed by Tamaki Akira. Printed in offset in six colors. Series shows trees that were planted at the ceremony, and trees and flowers of Nagano Prefecture.



Sorbus commixta. ROSACEAE, Japanese Rowan

Deciduous Tree growing to 10 m by 6 m. Native to Japan, Sakhalin, and Korean island of Ulleung-do. Good for firewood. Grown as ornamental. Bright orange to red pome fruit.

Japan Sc#3997f. Afforestation issue, 3 June 2016.

Viola brevistipulata. VIOLACEAE, Daisen Yellow Violet

Perennial growing to 30 cm in tufted clumps, erect stems 15–30 cm, broadly ovate leaves 5–8 cm. Grows in moist shady places in high mountains in Japan.

Japan Sc#4023h. Issued for Mountain Day, 10 August 2016, as a new national holiday. Designed by Maruyama Satoru. Printed in offset in six colors in sheets of ten stamps. Mountain Day is intended "to give opportunities to get close to mountains and to appreciate the benefits of mountains." The stamps depict the best known mountains in Japan as well as plants and animals that live in the mountains.





Akebia quinata. LARDIZABALACEAE, Akebia, Chocolate Vine

Synonyms: *A. micrantha*, *Rajania quinata*

Deciduous, twining, woody vine up to 10 m native to Japan, China, and Korea, but naturalized in other countries and considered a noxious weed in some. Compound leaves with five leaflets. Chocolate-smelling flowers. Fruits 10 cm long, are pod-shaped with edible pulp. Vines are used for making baskets.

Japan Sc4038d. Issued 3 October 2016 for autumn greetings. Designed by Hoshiyama Ayaka. Printed in offset in five colors in sheets of ten stamps.



Malus sieversii. ROSCAEAE

Synonyms: *Pyrus sieversii*

Deciduous tree 5–12 m from mountains of Kazakhstan, Kyrgyzstan, Tajikistan, and Uzbekistan at 1,100 to 1,600 m. Fruit to 7 cm diameter. Based on molecular and phenotypic evidence, *M. sieversii* is likely a progenitor species of the domesticated apple, *Malus* × *domestica*. One of four endangered apple species in the region.

Kazakhstan Sc#804b. Red Book of Kazakhstan flora of 27 December 2016, issued in SS/3. Designed by K. Pluzhnikova. Print run of 7,500.



Iris orchoides. IRIDACEAE, Orchid Iris

Synonyms: *Juno orchoides*

Bulbous perennial 15–30 cm from mountains of Kyrgyzstan and Uzbekistan. Up to three yellow flowers per stem from March to May. Grown in cultivation.

Kyrgyz Express Post Sc#27. Issued 29 July 2016 as Flora of Kyrgyzstan with five designs in MS/6, a SS/4, and a SS/1. Designer: Aliona Cojocari. Illustrator: Oleg Cojocari. Printed by offset lithography by Nova Imprim in Chişinău, Moldova.



Leontopodium ochroleucum. ASTERACEAE, Himalayan Edelweiss

Synonyms: Seven synonyms

Herbaceous perennial 8–25 cm tall. White-to-cream colored flowers in June and July. Found in mountain tundra 2,200–5,000 m in India, Kyrgyzstan, Kazakhstan, Mongolia, and Russia.

Kyrgyz Express Post Sc#28. Issued 29 July 2016 as Flora of Kyrgyzstan.



Campanula macrorhiza. CAMPANULACEAE, Thick-rooted Campanula

Synonyms: 27 synonyms

Perennial plant 10–30 cm tall. Grows on rocks in the southeast of France, Spain, Italy, and Algeria. It can be found in Monaco on the rocky walls of the Rampe Major.

Monaco Sc#2883. Issued for “National Species” on 2 May 2017. Designed by Noëlle Le Guillouzic. Printed by offset. Quantity of issue: 120,000 stamps.



***Rhododendron ciliatum*. ERICACEAE**

Shrub 0.3–2 m tall found in Eastern Nepal, Sikkim, Bhutan, and southern Tibet. From 2,700–3,500 m growing in various habitats including coniferous forests, rhododendron thickets, and open rocky slopes. Flowers white tinged with pink. Grown in cultivation and hybridizes easily.

Nepal Sc#1038. Rhododendron flora issued in a set of four in 2016.



***Cyphophoenix nucele*. ARECACEAE**

Tree 10–12 m. Crown has eight leaves, white crownshaft 50–60 cm. One or two inflorescences 50–90 cm. Fruit orange-red when ripe. Entire population (100) is reduced to a small area on the northeast coast of Lifou in the Loyalty Islands of New Caledonia.

New Caledonia Sc#1206. Endemic conifers and palm trees issued 14 March 2016. Designer: Jean-Paul Véret-Lemarinier. Printed in MS/10.



***Clinosperma macrocarpa*. ARECACEAE**

Tree to 15 m, crown with 6–7 pinnate leaves 2 m long. Olive green sheath 70 cm. Inflorescences 80 cm. Purplish black fruit. Endemic to Mt. Panié, in wet forest on a steep rocky slope at 500 m. One of rarest palms. Practically unknown in cultivation.

New Caledonia Sc#1206. Endemic conifers and palm trees issued 14 March 2016.



***Loxoscaphe gibberosum*. ASPLENIACEAE**

Taxonomy of this species is not firm. *The Checklist of Ferns and Lycophytes of the World* (<http://worldplants.webarchiv.kit.edu/ferns/>) lists *Loxoscaphe* as a synonym for *Asplenium gibberosum*. The Plant List (<http://www.theplantlist.org>) says the name is “Unresolved.” Found in Pacific region from Fiji to Pitcairn, but absent from Samoa. Moderately sized, graceful fern. Common, found in shaded areas, on rock faces and rocky woodland floors. However, there is little information documented about it.

Pitcairn Islands Sc#822. Ferns of Pitcairn issue of 19 October 2016. Designed by Sue Wickison, Wellington, New Zealand. Printed by Southern Colour Print, Dunedin, New Zealand by offset lithography on 103 gsm Tullis Russell Yellow/Green phosphor stamp paper in a format of four vertical stamps and one die cut SS/2.

***Ctenitis cumingii*. DRYOPTERIDACEAE**

Endemic to Pitcairn Island. Occurs in a highly restricted range. Population size is very small, with only 26 reproductive plants. Grows in native woodlands at moderate to high altitudes on Pitcairn.

Pitcairn Islands Sc#823. Ferns of Pitcairn issue of 19 October 2016



***Angiopteris chauliodonta*. MARATTIACEAE**

Terrestrial fern, fronds to 4 m. Endemic to Pitcairn. Six populations with a total of 774 plants. Native fern-rich forest is being taken over by invasive species.

Pitcairn Islands Sc#824. Ferns of Pitcairn issue of 19 October 2016.

***Cattleya (Hsinying Rouge 'CH #6' Rhyncholaeliocattleya)*. ORCHIDACEAE**

'Hsinying Rouge' is a hybrid between *Rlc* 'Creation' and *Rlc* 'Elegant Dancer' created in 2007. *Rhyncholaeliocattleya* (*Rlc*) is the name of a grex used in the orchid horticulture industry.

Philippines Sc#3685. Released 30 September 2016 as part of the Philippine Orchids issue. Graphic artist: Victorino Z. Serevo. Design Coordinator: Jonathan Blaza (Photo Provider). Printed in Litho Offset, by the Amstar Company, Inc., in se-tenant Block/4, MS/16, and SS/4.

***Phalaenopsis Ching Hua Wizard* × *Hsinying Julia*. ORCHIDACEAE**

A hybrid orchid in the *Phalaenopsis* grex.

Philippines Sc#3685c. Issued 30 September 2016 with Philippine Orchids.

***Sanvitalia procumbens*. ASTERACEAE, Creeping Zinnia**

Annual to 15 cm tall. Creeping stems with leaves 5 cm. Yellow or orange flowers 2 cm. Blooms in summer. Native to Mexico and Guatemala. Grown as ornamental.

St. Kitts Sc#956c. Issued as Flowering Plants on 26 May 2016 in MS/4, MS/6, and SS/1.

***Dryopteris carthusiana*. DRYOPTERIDACEAE, Spinulose Wood Fern (USA), Narrow Buckler-fern (UK)**

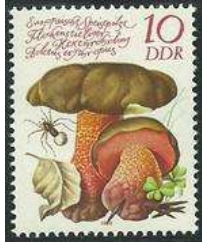
Synonyms: *Aspidium spinulosum*, *Dryopteris spinulosa*, *Polypodium carthusianum*, *Polypodium spinulosum*

Deciduous fern with pinnate leaves 15–80 cm. Found in Europe, rarely in Turkey, northern Iran, the Caucasus, and Western Siberia and also in North America. Primarily found in forests with a dominance of black alder, grey alder, European white elm, and beech. Grown in cultivation

Slovakia Sc#749c. Issued 7 October 2016 for Nature

Protection showing National Nature Reserve Šúr near Svätý Jur. MS with three designs, printed by Postal Stationery Printing House, Prague





FUNGI

Editor

Dr. Paul A. Mistretta, BU1681

New Listings



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

DJIBOUTI 2017 January 20 (110th anniv. Scouting) (MS/4)

1106d 280fr *Lentinus squarrosulus* (w/Scout) Polyporaceae C

2017 January 20 (Butterflies) (MS/4)

1118 Margin LL: ?Fly Agaric, *Amanita muscaria* (☠) Amanitaceae Z

2017 January 20 (Mushrooms) (MS/4 & SS/1)

1124a 280fr Chanterelle, *Cantharellus cibarius* Cantharellaceae A

1124b 280fr Brain Mushroom, *Gyromitra esculenta* Discinaceae A

1124c 280fr Beautiful Clavaria, *Ramaria formosa* Gomphaceae A

1124d 280fr Bitter Bolete, *Tylopilus felleus* Boletaceae A

1149 SS 960fr Frosty Funnel, *Clitocybe phyllophila* Tricholomataceae A

Margin R. Common Morel, *Morchella esculenta* Morchellaceae Z

2017 January 20 (Mushrooms) (MS/4 & SS/1)

1275a 240fr Slippery Jack or Sticky Bun, *Suillus luteus* Suillaceae A

1275b 240fr Shaggy Parasol, *Macrolepota rhacodes* Agaricaceae A

1275c 240fr Penny Bun, *Boletus edulis* Boletaceae A

1275d 240fr Sooty Head, *Tricholoma portentosum* Tricholomataceae A

1295 SS 950fr Common Puffball, *Lycoperdon perlatum* Agaricaceae A

Margin R: Saffron Milk Cap, *Lactarius deliciosus* Russulaceae Z

ICELAND 2017 September 14 (Lichens) (Set/2)

1446 (180k) Common Orange Lichen, *Xanthoria parietina* Teloschistaceae A

1447 (470k) Bullseye Lichen, *Placopsis gelida* Agyriaceae A

ST. THOMAS & PRINCE IS. 2016 March 30 (Mushrooms) (MS/4 & SS/1)

3094a 31000d Turkey Tail, *Trametes versicolor* (also in margin) Polyporaceae A

3094b 31000d Flowerpot Parasol, *Leucocoprinus birnbaumii* (☠) Agaricaceae A

3094c 31000d Death Cap, *Amanita phalloides* (☠) Amanitaceae A

3094d 31000d Red Belt Conk, *Fomitopsis pinicola* Russulaceae A

3113 SS 96000d Indigo Milk Cap, *Lactarius indigo* Russulaceae A

Margin U/I mushrooms U Z

2016 September 12 (Mushrooms) (MS/4 & SS/1)

3174a 31000d Common Morel, *Morchella esculenta* Morchellaceae A

3174b 31000d *Leratiomyces* sp. Strophariaceae U A

3174c 31000d Fluted Bird's Nest, *Cyathus striatus* Nidulariaceae A

3174d 31000d Strawberries and Cream, *Hydnellum peckii* Bankeraceae A

3193 SS 96000d Golden Coral, *Ramaria aurea* Gomphaceae A

Margin LL: Green-cracking Russula, *Russula virescens* Russulaceae Z

Bot: Rufous Milkcap, *Lactarius rufus* Russulaceae Z

SOLOMON ISLANDS**2017 September 4** (Mushrooms) (MS/4 & SS/1)

2392a	\$10	Amethyst Deceiver, <i>Laccaria amethystina</i>	Hydnangiaceae	A
2392b	\$10	Rhubarb Bolete, <i>Boletellus obscurecoccineus</i>	Boletaceae	A
2392c	\$10	Jack-o-lantern Mushroom, <i>Omphalotus olearius</i> (♀)	Marasmiaceae	A
2392d	\$10	Pixie's Parasol, <i>Mycena interrupta</i>	Mycenaceae	A
2417	SS \$40	Parrot Waxcap, <i>Glioporus psittacinus</i> (Cap: <i>Hygrocybe psittacina</i>)	Hygrophoraceae	A
Margin	LL:	Pink Oyster Mushroom, <i>Pleurotus djamor</i>	Pleurotaceae	Z
	LR:	Verdigris Agaric, <i>Stropharia aeruginosa</i>	Strophariaceae	Z

UNITED NATIONS**2017 October 16** (World Food Day)

1176	\$1.15	Stylized mushroom (w/ bowls of food & olive oil)		S C
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And a heads up: The USPS has scheduled an s/a booklet pane of 20 for issue on 22 February 2018. This issue celebrates bioluminescence in nature with two each of ten different stamps. One of the ten vignettes is an unidentified, bioluminescent, gregarious mushroom-shaped fungus. Get it while it is selling for face value at your local post office (\$1 gets you two with 18 stamps left over for mail, or save the complete booklet for \$10).

ENDANGERED SPECIES NEW ISSUE

On 2 March 2018, the United Nations Postal Administration will issue a pane of sixteen \$1.15 stamps for use at its New York City headquarters. The four different designs form the 25th set in its continuing Endangered Species series.

The issue coincides with World Wildlife Day and the plants and animals depicted on the stamps are from a listing by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES).

CITES is an agreement between nations to safeguard trade in specimens of wild animals and plants. About 5,800 animal species and 30,000 plant species are protected by the CITES agreement.

The four se-tenant stamps show images of the following species:

Red-crested Turaco (*Tauraco erythrolophus*) a fruit-eating bird endemic to western Angola. It is the national bird of Angola. Its call sounds like a jungle monkey.

Andean Hairy Armadillo (*Chaetophractus nationi*) an omnivorous armadillo endemic to Bolivia and northern Chile. Their teeth are unique because they grow continuously and do not contain enamel.

Lurestan Newt (*Neurergus kaiseri*) a colorful salamander from the southern Zagros Mountains in Iran. It is endangered due to its tiny range of less than four square miles.

Goldenseal (*Hydrastis canadensis*) a perennial herb native to southeastern Canada and the eastern United States. It has been used as an herbal remedy, but there is little evidence of its efficacy.

UN Offices in Vienna and Geneva will each also issue sets of four in this series. The stamps were designed by Rorie Katz using illustrations by Rhonda Nass, and printed by Johan Enschede of the Netherlands using offset lithography.





MAMMALIA

Editor

Michael Prince, LM68



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ANTIGUA				
2017 August 1 (Fallow Deer) (MS/4 & SS/3)				
3377a	\$7.50	Fallow Deer, <i>Dama dama</i> ♂ (looking front)	Cervidae	A
3377b	\$7.50	Same species ♂ (facing L)		A
3377c	\$7.50	Same species ♀ (in vegetation)		A
3377d	\$7.50	Same species ♀ (in snow)		A
3377	Margin	Bot: Same species ♂		Z
3378a	SS \$7	Fallow Deer, <i>Dama dama</i> (fawn)	Cervidae	A
3378b	SS \$7	Same species ♀		A
3378c	SS \$7	Same species ♂		A
3378	Margin	Bot: Same species ♀ (herd)		Z
2017 August 14 (National Geographic Animals) (MS/4)				
3388a	\$6	Brazilian Porcupine, <i>Coendou prehensilis</i>	Erethizontidae	A
3388b	\$6	Island Grey Fox, <i>Urocyon littoralis</i> ssp. <i>clemente</i>	Canidae	new A
3388c	\$6	Jaguarondi, <i>Puma yaguarondi</i>	Felidae	A
3388d	\$6	Grevy's Zebra, <i>Equus grevyi</i>	Equidae	A
AUSTRALIA				
2017 September 5 (Heard Island) (Set/4 & SS/4)				
4674	\$1	Southern Elephant Seal, <i>Mirounga leonina</i>	Phocidae	A
4677a		SS/4 (Sc#4674–77)		
BELGIUM				
2017 August 21 (Marine Mammals) (MS/5)				
2833a	(€1.13)	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	A
2833b	(€1.13)	White-beaked Dolphin, <i>Lagenorhynchus albirostris</i>	Delphinidae	A
2833c	(€1.13)	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	A
2833d	(€1.13)	Grey Seal, <i>Halichoerus grypus</i>	Phocidae	A
2833e	(€1.13)	Harbor Porpoise, <i>Phocoena phocoena</i>	Phocoenidae	A
COLOMBIA				
2016 June 8 (Colombian Ocean Commission) (Single)				
1434	2000p	Humpback Whale, <i>Megaptera novaeangliae</i> (w/ ship)	Balaenopteridae	B
CZECH REPUBLIC				
2017 September 6 (Animals in Czech Republic Zoos) (MS/4+4 labels)				
3719a	16k	European Bison, <i>Bison bonasus</i>	Bovidae	A
3719b	20k	Top: Chimpanzee, <i>Pan troglodytes</i>	Hominidae	B
		Bot: Lion, <i>Panthera leo</i>	Felidae	B
3719c	24k	Polar Bear, <i>Ursus maritimus</i>	Ursidae	A
3719d	30k	Indian Rhinoceros, <i>Rhinoceros unicornis</i>	Rhinocerotidae	B
	Label	Pallas's Cat, <i>Felis manul</i>	Felidae	Z
	Label	Brown Bear, <i>Ursus arctos</i>	Ursidae	Z
	Label	Lion-tailed Macaque, <i>Macaca silenus</i>	Cercopithecidae	Z
	Margin	UL: Barbary Macaque, <i>Macaca sylvanus</i>	Cercopithecidae	Z
		ML: Marco Polo Sheep, <i>Ovis ammon</i> ssp. <i>polii</i>	Bovidae	Z
		ML: Grey Wolf, <i>Canis lupus</i>	Canidae	Z
		UR: Scimitar-horned Oryx, <i>Oryx dammah</i>	Bovidae	Z
		MR: Maned Wolf, <i>Chrysocyon brachyurus</i>	Canidae	Z
		MR: Buff-cheeked Gibbon, <i>Nomascus gabriellae</i>	Hylobatidae	Z

DJIBOUTI**2017 January 20** (Various Wildlife) (MS/4 & SS/1)

1111a	280fr	Bornean Orangutan, <i>Pongo pygmaeus</i>	Hominidae	A
1111b	280fr	Indri, <i>Indri indri</i>	Indriidae	A
1111c	280fr	Red Slender Loris, <i>Loris tardigradus</i>	Lorissidae	A
1111d	280fr	Hamadryas Baboon, <i>Papio hamadryas</i>	Cercopithecidae	A
1136	SS 960fr	Golden Lion Tamarin, <i>Leontopithecus rosalia</i>	Callitrichidae	A
	Margin	LL: Black Howler, <i>Alouatta caraya</i>	Atelidae	Z
		UR: Northern Muriqui, <i>Brachyteles hypoxanthus</i>	Atelidae	Z
		LR: Western Gorilla, <i>Gorilla gorilla</i>	Hominidae	Z
1112a	280fr	Amur Tiger, <i>Panthera tigris</i> ssp. <i>altaica</i>	Felidae	A
1112b	280fr	Clouded Leopard, <i>Neofelis nebulosa</i>	Felidae	A
1112c	280fr	Puma, <i>Puma concolor</i>	Felidae	A
1112d	280fr	Leopard, <i>Panthera pardus</i> ssp. <i>kotiya</i>	Felidae	A
1137	SS 960fr	Spanish Lynx, <i>Lynx pardinus</i>	Felidae	A
	Margin	LR: Lion, <i>Panthera leo</i>	Felidae	Z
1113a	280fr	Spinner Dolphin, <i>Stenella longirostris</i>	Delphinidae	A
1113b	280fr	Risso's Dolphin, <i>Grampus griseus</i>	Delphinidae	A
1113c	280fr	Dusky Dolphin, <i>Lagenorhynchus obscurus</i>	Delphinidae	A
1113d	280fr	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	A
1138	SS 960fr	Heaviside's Dolphin, <i>Cephalorhynchus heavisidii</i>	Delphinidae	A
	Margin	UR: Atlantic Spotted Dolphin, <i>Stenella frontalis</i>	Delphinidae	Z
		Bot: Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	Z
1114a	280fr	Bowhead Whale, <i>Balaena mysticetus</i>	Balaenidae	A
1114b	280fr	Beluga, <i>Delphinapterus leucas</i>	Monodontidae	A
1114c	280fr	Sperm Whale, <i>Physeter catodon</i>	Physeteridae	A
1114d	280fr	Blue Whale, <i>Balaenoptera musculus</i>	Balaenopteridae	A
1139	SS 960fr	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	A
	Margin	R: Beluga, <i>Delphinapterus leucas</i>	Monodontidae	Z

2017 January 20 (Endangered Species) (MS/4 & SS/1)

1123b	280fr	Amur Leopard, <i>Panthera pardus</i> ssp. <i>orientalis</i>	Felidae	A
1123c	280fr	Sun Bear, <i>Helarctos malayanus</i>	Ursidae	A
1123d	280fr	Northern Sportive Lemur, <i>Lepilemur septentrionalis</i>	Lepilemuridae	A
1148	Margin	UR: Sun Bear, <i>Helarctos malayanus</i>	Ursidae	Z
		Ctr: Dhole, <i>Cuon alpinus</i>	Canidae	Z

2017 July 5 (Various Wildlife) (MS/4 & SS/1)

1204a	240fr	Giant Panda, <i>Ailuropoda melanoleuca</i> (on branch)	Ursidae	A
1204b	240fr	Same species (adult & cub)		A
1204c	240fr	Same species (on back)		A
1204d	240fr	Same species (facing L)		A
1214	SS 950fr	Giant Panda, <i>Ailuropoda melanoleuca</i> (also R margin)	Ursidae	A Z
1206a	240fr	Dusky Dolphin, <i>Lagenorhynchus obscurus</i>	Delphinidae	A
1206b	240fr	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	A
1206c	240fr	Commerson's Dolphin, <i>Cephalorhynchus commersonii</i>	Delphinidae	A
1206d	240fr	Atlantic Spotted Dolphin, <i>Stenella frontalis</i>	Delphinidae	A
1216	SS 950fr	Tucuxi Dolphin, <i>Sotalia fluviatilis</i>	Delphinidae	A
	Margin	UR: Spinner Dolphin, <i>Stenella longirostris</i>	Delphinidae	Z
		LL: Short-beaked Common Dolphin, <i>Delphinus delphis</i>	Delphinidae	Z
		LR: Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	Z

DJIBOUTI (continued)		2017 September 29 (Tigers) (MS/4 & SS/1)		
1273a	240fr	Amur Tiger, <i>Panthera tigris</i> ssp. <i>altaica</i>	Felidae	A
1273b	240fr	Tiger, <i>Panthera tigris</i> ssp. <i>tigris</i> (cub)	Felidae	A
1273c	240fr	Tiger, <i>Panthera tigris</i> ssp. <i>tigris</i> (pair)	Felidae	A
1273d	240fr	Tiger, <i>Panthera tigris</i> ssp. <i>tigris</i> (white variant)	Felidae	A
1293	SS 950fr	Amur Tiger, <i>Panthera tigris</i> ssp. <i>altaica</i> (also LR margin)	Felidae	A Z
ESTONIA		2017 September 11 (Lynx) (Single)		
851	65c	Eurasian Lynx, <i>Lynx lynx</i>	Felidae	A
EGYPT		2016 December 2 (125th anniv. Giza Zoo) (MS/8)		
2171a	£2	Barbary Sheep, <i>Ammotragus lervia</i>	Bovidae	A
2171b	£2	Giraffe, <i>Giraffa camelopardalis</i>	Giraffidae	A
2171c	£2	African Savanna Elephant, <i>Loxodonta africana</i>	Elephantidae	A
2171e	£2	Hippopotamus, <i>Hippopotamus amphibius</i>	Hippopotamidae	A
2171g	£2	Lion, <i>Panthera leo</i>	Felidae	A
2171h	£2	Tiger, <i>Panthera tigris</i>	Felidae	A
FINLAND (Åland)		2017 September 15 (Mammals) (Horiz Strip/3 & Bklt/9)		
399a	(€1.10)	Mountain Hare, <i>Lepus timidus</i>	Leporidae	A
399b	(€1.10)	Least Weasel, <i>Mustela nivalis</i>	Mustelidae	A
399c	(€1.10)	Raccoon Dog, <i>Nyctereutes procyonoides</i>	Canidae	A
399d		Bklt/9 (3ea Sc#399a–c)		
FRANCE		2017 June 30 (Official UNESCO: Orangutan) (Set/2)		
2080	€1.30	Sumatran Orangutan, <i>Pongo abelii</i>	Hominidae	A
GAMBIA		2017 March 8 (Mammals) (Set/3)		
3736	2000d	Guinea Baboon, <i>Papio papio</i>	Cercopithecidae	A
3737	3000d	Spotted Hyena, <i>Crocuta crocuta</i>	Hyaenidae	A
3738	5000d	Lion, <i>Panthera leo</i>	Felidae	A
		2017 June 7 (National Geographic Animals) (MS/4 & SS/1)		
3744a	85d	North Sulawesi Babirusa, <i>Babyrousa celebensis</i>	Suidae	new A
3744c	85d	Owston's Palm Civet, <i>Chrotogale owstoni</i>	Viverridae	A
3745	SS 200d	Red Panda, <i>Ailurus fulgens</i>	Ailuridae	A
		2017 August 2 (Meerkats) (MS/4 & SS/2)		
3749a	90d	Meerkat, <i>Suricata suricatta</i> (facing L)	Herpestidae	A
3749b	90d	Same species (facing front w/ rocks)		A
3749c	90d	Same species (facing front w/ foliage)		A
3749d	90d	Same species (pair)		A
	Margin	Bot: Same species (kits in den)		Z
3750a	SS 150d	Meerkat, <i>Suricata suricatta</i> (looking R)	Herpestidae	A
3750b	SS 150d	Same species (facing front)		A
	Margin	L: Same species (pair)		Z
GHANA		2017 July 21 (National Geographic Animals) (MS/4 & SS/1)		
2943b	8ce	Binturong, <i>Arctictis binturong</i>	Viverridae	A
2943d	14ce	Vancouver Island Marmot, <i>Marmota vancouverensis</i>	Sciuridae	A
2944	SS 25ce	Giant Panda, <i>Ailuropoda melanoleuca</i>	Ursidae	A
		2017 September 11 (Whales) (MS/3 & SS/1)		
2947a	12ce	Humpback Whale, <i>Megaptera novaeangliae</i> (breaching)	Balaenopteridae	A
2947b	12ce	Orca, <i>Orcinus orca</i>	Delphinidae	A
2947c	12ce	Humpback Whale, <i>Megaptera novaeangliae</i> (pair)	Balaenopteridae	A
2947	Margin	L: Humpback Whale, <i>Megaptera novaeangliae</i> (tail-diving)	Balaenopteridae	Z

GHANA (continued)

2948	SS 20ce	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	A
	Margin	L: Humpback Whale, <i>Megaptera novaeangliae</i> (tail-diving)	Balaenopteridae	Z

GIBRALTAR**2017 November 30** (WWF: Bats) (Strip/4)

1649a	70p	Common Bent-wing Bat, <i>Miniopterus schreibersii</i>	Vespertilionidae	A
1649b	80p	European Free-tailed Bat, <i>Tadarida teniotis</i>	Molossidae	A
1649c	£1	Greater Noctule Bat, <i>Nyctalus lasiopterus</i>	Vespertilionidae	A
1649d	£2	Meridional Serotine Bat, <i>Eptesicus isabellinus</i>	Vespertilionidae	new A

IVORY COAST**2014 March 10** (Various Wildlife) (MS/4 & SS/1)

1196a	250fr	Spotted Hyena, <i>Crocuta crocuta</i>	Hyaenidae	A
1196b	350fr	Same species		A
1196c	500fr	Same species		A
1196d	750fr	Same species		A
1220	SS 2500fr	Spotted Hyena, <i>Crocuta crocuta</i> (also L & Bot margin)	Hyaenidae	A Z
1197a	250fr	African Buffalo, <i>Syncerus caffer</i>	Bovidae	A
1197b	350fr	Same species		A
1197c	500fr	Same species		A
1197d	750fr	Same species		A
1221	SS 2500fr	African Buffalo, <i>Syncerus caffer</i> (also Bot margin)	Bovidae	A Z
1198a	250fr	Hippopotamus, <i>Hippopotamus amphibius</i>	Hippopotamidae	A
1198b	350fr	Same species		A
1198c	500fr	Same species		A
1198d	750fr	Same species		A
1222	SS 2500fr	Hippopotamus, <i>Hippopotamus amphibius</i>	Hippopotamidae	A
	Margin	L: Hippopotamus, <i>Hippopotamus amphibius</i>	Hippopotamidae	Z
		Bot: Pygmy Hippopotamus, <i>Choeropsis liberiensis</i>	Hippopotamidae	Z
1199a	250fr	King Colobus, <i>Colobus polykomos</i>	Cercopithecidae	A
1199b	350fr	Collared Mangabey, <i>Cercocebus torquatus</i>	Cercopithecidae	A
1199c	500fr	Western Red Colobus, <i>Piliocolobus badius</i>	Cercopithecidae	A
1199d	750fr	Diana Monkey, <i>Cercopithecus diana</i>	Cercopithecidae	A
1223	SS 2500fr	Chimpanzee, <i>Pan troglodytes</i> (also L & Bot margin)	Hominidae	A Z
1200a	250fr	Yellow-winged Bat, <i>Lavia frons</i>	Vespertilionidae	A
1200b	350fr	White-winged Serotine Bat, <i>Neoromicia tenuipinnis</i>	Vespertilionidae	new A
1200c	500fr	Schlieffen's Bat, <i>Nycticeinops schlieffeni</i>	Vespertilionidae	new A
1200d	750fr	Peter's Dwarf Epauletted Fruit Bat, <i>Micropteropus pusillus</i>	Pteropodidae	A
1224	SS 2500fr	Egyptian Rousette, <i>Rousettus aegyptiacus</i>	Pteropodidae	A
	Margin	L: Egyptian Rousette, <i>Rousettus aegyptiacus</i>	Pteropodidae	Z
		Bot: Hammer-headed Bat, <i>Hypsignathus monstrosus</i>	Pteropodidae	Z
1201a	250fr	Lion, <i>Panthera leo</i>	Felidae	A
1201b	350fr	Same species		A
1201c	500fr	Same species		A
1201d	750fr	Same species		A
1225	SS 2500fr	Lion, <i>Panthera leo</i> (also Bot margin)	Felidae	A Z
1202a	250fr	Leopard, <i>Panthera pardus</i> ssp. <i>pardus</i>	Felidae	A
1202b	350fr	Same species		A
1202c	500fr	Same species		A
1202d	750fr	Same species		A
1226	SS 2500fr	Leopard, <i>Panthera pardus</i> ssp. <i>pardus</i> (also LL margin)	Felidae	A Z
1203a	250fr	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A
1203b	350fr	Same species		A
1203c	500fr	Same species		A

IVORY COAST (continued)

1203d	750fr	Same species		A
1227	SS 2500fr	African Elephant, <i>Loxodonta africana</i> (also L & LR margin)	Elephantidae	A Z
1204a	250fr	Atlantic Humpbacked Dolphin, <i>Sousa teuszii</i>	Delphinidae	A
1204b	350fr	Rough-toothed Dolphin, <i>Steno bredanensis</i>	Delphinidae	A
1204c	500fr	Clymene Dolphin, <i>Stenella clymene</i>	Delphinidae	A
1204d	750fr	Atlantic Spotted Dolphin, <i>Stenella frontalis</i>	Delphinidae	A
1228	SS 2500fr	Short-beaked Common Dolphin, <i>Delphinus delphis</i>	Delphinidae	A
	Margin	ML: Striped Dolphin, <i>Stenella coeruleoalba</i>	Delphinidae	Z
		Bot: Fraser's Dolphin, <i>Lagenodelphis hosei</i>	Delphinidae	Z
1205a	250fr	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	A
1205b	350fr	Pygmy Killer Whale, <i>Feresa attenuata</i>	Delphinidae	A
1205c	500fr	Short-finned Pilot Whale, <i>Globicephala macrorhynchus</i>	Delphinidae	A
1205d	750fr	False Killer Whale, <i>Pseudorca crassidens</i>	Delphinidae	A
1229	SS 2500fr	Sperm Whale, <i>Physeter catodon</i>	Physeteridae	A
	Margin	UL: Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	Z
		Bot: False Killer Whale, <i>Pseudorca crassidens</i>	Delphinidae	Z
1219a	250fr	Jentink's Duiker, <i>Cephalophus jentinki</i>	Bovidae	A
1219b	350fr	Chimpanzee, <i>Pan troglodytes</i>	Hominidae	A
1219d	750fr	Pygmy Hippopotamus, <i>Choeropsis liberiensis</i>	Hippopotamidae	A
1243	SS 2500fr	African Forest Elephant, <i>Loxodonta cyclotis</i>	Elephantidae	A
	Margin	L: Western Red Colobus, <i>Procolobus badius</i>	Cercopithecidae	Z
		Bot: Jentink's Duiker, <i>Cephalophus jentinki</i>	Bovidae	Z

KAZAKHSTAN**2017 August 28** (Snow Leopard) (SS/3)

821a	300te	Snow Leopard, <i>Panthera uncia</i> (head)	Felidae	A
821b	300te	Same species (facing L)		A
821c	300te	Same species (kittens)		A

KENYA**2017 May 10** (Big Game Animals) (Set/5 & SS/1)

893	35sh	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A
894	80sh	Lion, <i>Panthera leo</i>	Felidae	A
895	90sh	African Buffalo, <i>Syncerus caffer</i>	Bovidae	A
896	105sh	Leopard, <i>Panthera pardus</i>	Felidae	A
897	130sh	White Rhinoceros, <i>Ceratotherium simum</i>	Rhinocerotidae	A
898	SS 175sh	UL: African Buffalo, <i>Syncerus caffer</i>	Bovidae	B
		LL: African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	B
		Ctr: Lion, <i>Panthera leo</i>	Felidae	B
		UR: Leopard, <i>Panthera pardus</i>	Felidae	B
		LR: Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae	B

LIBERIA**2014 October 20** (Endangered African Animals) (2ea MS/4 & 2ea SS/1)

3001a	\$100	Okapi, <i>Okapia johnstoni</i>	Giraffidae	A
3001b	\$100	Barbary Macaque, <i>Macaca sylvanus</i>	Cercopithecidae	A
3001c	\$100	African Wild Dog, <i>Lycaon pictus</i>	Canidae	A
3001d	\$100	Abbott's Duiker, <i>Cephalophus spadix</i>	Bovidae	A
3002a	\$100	Aldabra Flying Fox, <i>Pteropus aldabrensis</i>	Pteropodidae	A
3002b	\$100	Black & Rufous Elephant Shrew, <i>Rhynchocyon petersi</i>	Macroscelididae	new A
3002c	\$100	Mandrill, <i>Mandrillus sphinx</i>	Cercopithecidae	A
3002d	\$100	Sun-tailed Monkey, <i>Cercopithecus solatus</i>	Cercopithecidae	A
3003	SS \$350	Alaotran Gentle Lemur, <i>Haplemur alaotrensis</i>	Lemuridae	new A
3004	SS \$350	Eastern Gorilla, <i>Gorilla beringei</i> ssp. <i>beringei</i>	Hominidae	A

LIBERIA (continued)		2014 December 16 (Wild Cats) (2ea MS/4 & 2ea SS/1)		
3020a	\$100	Lion, <i>Panthera leo</i> (two cubs)	Felidae	A
3020b	\$100	Same species ♀		A
3020c	\$100	Same species ♂ (facing R)		A
3020d	\$100	Same species ♂ (facing front) (also L margin)		A Z
3021a	\$100	Cheetah, <i>Acinonyx jubatus</i> (facing L)	Felidae	A
3021b	\$100	Same species (facing R)		A
3021c	\$100	Same species (w/ cubs)		A
3021d	\$100	Same species (running R)		A
3022	SS \$350	Serval, <i>Leptailurus serval</i> (also L margin)	Felidae	A Z
3023	SS \$350	Caracal, <i>Caracal caracal</i> (also L margin)	Felidae	A Z
LIECHTENSTEIN		2017 November 13 (WWF) (Set/4)		
1732	85rp	Eurasian Beaver, <i>Castor fiber</i>	Castoridae	A
1733	100rp	Eurasian Lynx, <i>Lynx lynx</i>	Felidae	A
1734	130rp	Grey Wolf, <i>Canis lupus</i>	Canidae	A
MOLDOVA		2017 July 29 (Bats) (Set/4)		
949	1.751	Greater Mouse-eared Bat, <i>Myotis myotis</i>	Vespertilionidae	A
950	21	Parti-coloured Bat, <i>Vespertilio murinus</i>	Vespertilionidae	A
951	5.751	Greater Noctule, <i>Nyctalus lasiopterus</i>	Vespertilionidae	A
952	15.501	Grey Big-eared Bat, <i>Plecotus austriacus</i>	Vespertilionidae	A
NEVIS		2017 April 14 (National Geographic Animals) (MS/4)		
1926a	\$4	Naked Mole Rat, <i>Heterocephalus glaber</i>	Bathyergidae	new A
1926d	\$4	Asian Garden Dormouse, <i>Eliomys melanurus</i>	Gliridae	new A
ST. THOMAS AND PRINCE IS.		2016 March 30 (World Stamp Exhibition Taipei) (MS/4)		
3077d	31000d	Asiatic Black Bear, <i>Ursus thibetanus ssp. formosanus</i>	Ursidae	A
		2016 March 30 (Various Wildlife) (MS/4 & SS/1)		
3093a	31000d	Bornean Orangutan, <i>Pongo pygmaeus</i>	Hominidae	A
3093b	31000d	Asiatic Elephant, <i>Elephas maximus</i>	Elephantidae	A
3093c	31000d	Bactrian Camel, <i>Camelus bactrianus</i>	Camelidae	A
3093d	31000d	Addax, <i>Addax nasomaculatus</i>	Bovidae	A
	Margin	LL: Diademed Sifaka, <i>Propithecus diadema</i>	Indriidae	Z
		LR: Crowned Sifaka, <i>Propithecus coronatus</i>	Indriidae	Z
3112	SS 96000d	L: Crowned Sifaka, <i>Propithecus coronatus</i>	Indriidae	new A
		R: Diademed Sifaka, <i>Propithecus diadema</i>	Indriidae	A
	Margin	UR: Red Ruffed Lemur, <i>Varecia rubra</i>	Lemuridae	Z
		LL: Bornean Orangutan, <i>Pongo pygmaeus</i>	Hominidae	Z
3097a	31000d	Bowhead Whale, <i>Balaena mysticetus</i> (also L margin)	Balaenidae	A Z
3097b	31000d	Blue Whale, <i>Balaenoptera musculus</i>	Balaenopteridae	A
3097c	31000d	Humpback Whale, <i>Megaptera novaeangliae</i> (also Bot margin)	Balaenopteridae	A Z
3097d	31000d	Sperm Whale, <i>Physeter catodon</i>	Physeteridae	A
3116	SS 124000d	Bowhead Whale, <i>Balaena mysticetus</i>	Balaenidae	A
	Margin	LL & UR: Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	Z
		2016 July 20 (Various Wildlife) (MS/4 & SS/1)		
3121a	31000d	Cheetah, <i>Acinonyx jubatus</i>	Felidae	A
3121b	31000d	Eastern Rock Elephant Shrew, <i>Elephantulus myurus</i>	Macroscelididae	A
3121c	31000d	Common Warthog, <i>Phacochoerus africanus</i>	Suidae	A
3121d	31000d	Patas Monkey, <i>Erythrocebus patas</i>	Cercopithecidae	A
	Margin	R: Giraffe, <i>Giraffa camelopardalis</i>	Giraffidae	Z

ST. THOMAS AND PRINCE IS. (continued)

3139	SS 96000d	Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae	A
	Margin	ML: South African Springhare, <i>Pedetes capensis</i>	Pedetidae	Z
		Ctr: Serval, <i>Leptailurus serval</i>	Felidae	Z
		Bot: Black-backed Jackal, <i>Canis mesomelas</i>	Canidae	Z
		UR: Mohol Bushbaby, <i>Galago moholi</i>	Galagidae	Z
		LR: U/I rodent		U Z
3122a	31000d	American Black Bear, <i>Ursus americanus</i> (laying on log)	Ursidae	A
3122b	31000d	Same species (two adults)		A
3122c	31000d	Same species (adult & cubs)		A
3122d	31000d	Same species (three adults) (also MR & LR margin)		A Z
3140	SS 96000d	American Black Bear, <i>Ursus americanus</i> (also R margin)	Ursidae	A Z
3123a	31000d	Arctic Fox, <i>Vulpes lagopus</i>	Canidae	A
3123b	31000d	Muskox, <i>Ovibos moschatus</i>	Bovidae	A
3123c	31000d	Eurasian Elk, <i>Alces alces</i>	Cervidae	A
3123d	31000d	Snowshoe Hare, <i>Lepus americanus</i>	Leporidae	A
	Margin	R: Arctic Wolf, <i>Canis lupus</i> ssp. <i>arctos</i>	Canidae	Z
3141	SS 96000d	Arctic Wolf, <i>Canis lupus</i> ssp. <i>arctos</i>	Canidae	A
	Margin	LL: Stoat, <i>Mustela erminea</i>	Mustelidae	Z
		LR: Reindeer, <i>Rangifer tarandus</i>	Cervidae	Z
3124a	31000d	Giant Panda, <i>Ailuropoda melanoleuca</i> (four pandas)	Ursidae	A
3124b	31000d	Same species (two adults)		A
3124c	31000d	Same species (on log)		A
3124d	31000d	Same species (in field) (also UR & LR margin)		A Z
3142	SS 96000d	Red Panda, <i>Ailurus fulgens</i>	Ailuridae	A
	Margin	UR & Bot: Giant Panda, <i>Ailuropoda melanoleuca</i>	Ursidae	Z
3125a	31000d	Fallow Deer, <i>Dama dama</i>	Cervidae	A
3125b	31000d	Marsh Deer, <i>Blastocerus dichotomus</i>	Cervidae	A
3125c	31000d	Persian Fallow Deer, <i>Dama dama</i> ssp. <i>mesopotamica</i>	Cervidae	A
3125d	31000d	Chital, <i>Axis axis</i>	Cervidae	A
	Margin	R: White-tailed Deer, <i>Odocoileus virginianus</i>	Cervidae	Z
3143	SS 96000d	White-tailed Deer, <i>Odocoileus virginianus</i>	Cervidae	A
	Margin	Bot: Persian Fallow Deer, <i>Dama dama</i> ssp. <i>mesopotamica</i>	Cervidae	Z
		LR: Red Deer, <i>Cervus elaphus</i>	Cervidae	Z
3126a	31000d	Grey Wolf, <i>Canis lupus</i> (laying down)	Canidae	A
3126b	31000d	Same species (howling)		A
3126c	31000d	Same species (standing)		A
3126d	31000d	Same species (two fighting) (also R margin)		A Z
3144	SS 96000d	Grey Wolf, <i>Canis lupus</i> (also R margin)	Canidae	A Z
3127a	31000d	Jaguar, <i>Panthera onca</i> (head & black variant)	Felidae	A
3127b	31000d	Same species (walking on log)		A
3127c	31000d	Same species (laying on log)		A
3127d	31000d	Same species (black variant & normal) (also LL & R margin)		A Z
3145	SS 96000d	Jaguar, <i>Panthera onca</i> (also R margin)	Felidae	A Z
3128a	31000d	[South China] Tiger, <i>Panthera tigris</i> (Cap: <i>P. t. amoyensis</i>)	Felidae	A
3128b	31000d	[Malayan] Tiger, <i>Panthera tigris</i> (Cap: <i>P. t. jacksoni</i>)	Felidae	A
3128c	31000d	[Siberian] Tiger, <i>Panthera tigris</i> (Cap: <i>P. t. altaica</i>)	Felidae	A
3128d	31000d	[Indochinese] Tiger, <i>Panthera tigris</i> (Cap: <i>P. t. corbetti</i>)	Felidae	A
	Margin	R: [Sumatran] Tiger, <i>Panthera tigris</i> (Cap: <i>P. t. sumatrae</i>)	Felidae	Z
3146	SS 96000d	Tiger, <i>Panthera tigris</i>	Felidae	A
	Margin	R: [Sumatran] Tiger, <i>Panthera tigris</i> (Cap: <i>P. t. sumatrae</i>)	Felidae	Z

ST. THOMAS AND PRINCE IS. (continued)

3138b	31000d	Black-backed Jackal, <i>Canis mesomelas</i>	Canidae	A
3138c	31000d	Caracal, <i>Caracal caracal</i>	Felidae	A
	Margin	UR: Lion, <i>Panthera leo</i>	Felidae	Z
		MR: African Buffalo, <i>Syncerus caffer</i>	Bovidae	Z
3156	SS 96000d	Fennec Fox, <i>Vulpes zerda</i>	Canidae	A
	Margin	Bot: Leopard, <i>Panthera pardus</i> (black variant)	Felidae	Z

2016 September 12 (Dolphins) (MS/4 & SS/1)

3167a	31000d	Clymene Dolphin, <i>Stenella clymene</i>	Delphinidae	A
3167b	31000d	Atlantic Spotted Dolphin, <i>Stenella frontalis</i>	Delphinidae	A
3167c	31000d	Rough-toothed Dolphin, <i>Steno bredanensis</i>	Delphinidae	A
3167d	31000d	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	A
	Margin	UL: Melon-headed Whale, <i>Peponocephala electra</i>	Delphinidae	Z
3186	SS 96000d	Atlantic Humpbacked Dolphin, <i>Sousa teuszii</i>	Delphinidae	A
	Margin	UL: Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	Z
		LL: Spinner Dolphin, <i>Stenella longirostris</i>	Delphinidae	Z

ST VINCENT**2016 January 28** (Marine Mammals) (MS6, MS/4, & SS/1)

4054a	\$3.15	Atlantic Spotted Dolphin, <i>Stenella frontalis</i>	Delphinidae	A
4054b	\$3.15	Blue Whale, <i>Balaenoptera musculus</i>	Balaenopteridae	A
4054c	\$3.15	Sperm Whale, <i>Physeter catodon</i>	Physteridae	A
4054d	\$3.15	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	A
4054e	\$3.15	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	A
4054f	\$3.15	West Indian Manatee, <i>Trichechus manatus</i>	Trichechidae	A
4055a	\$3.25	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	A
4055b	\$3.25	Atlantic Spotted Dolphin, <i>Stenella frontalis</i>	Delphinidae	A
4055c	\$3.25	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	A
4055d	\$3.25	Spinner Dolphin, <i>Stenella longirostris</i>	Delphinidae	A
4056	SS \$10	West Indian Manatee, <i>Trichechus manatus</i>	Trichechidae	A

2016 May 26 (New York State Emblematic Items) (SS/2)

4077b	SS \$6	American Beaver, <i>Castor canadensis</i> (state mammal)	Castoridae	A
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SOLOMON ISLANDS**2017 September 4** (Bats) (MS/4 & SS/1)

2383a	\$10	Lyle's Flying Fox, <i>Pteropus lylei</i>	Pteropodidae	A
2383b	\$10	Egyptian Rousette, <i>Rousettus aegyptiacus</i>	Pteropodidae	A
2383c	\$10	Greater Short-nosed Fruit Bat, <i>Cynopterus sphinx</i>	Pteropodidae	A
2383d	\$10	Lyle's Flying Fox, <i>Pteropus lylei</i>	Pteropodidae	A
2408	SS \$40	Bot: Brown Big-eared Bat, <i>Plecotus auritus</i>	Vespertilionidae	B
		Top: Greater Short-nosed Fruit Bat, <i>Cynopterus sphinx</i>	Pteropodidae	B
	Margin	L: Brown Big-eared Bat, <i>Plecotus auritus</i>	Vespertilionidae	Z
		LR: Egyptian Rousette, <i>Rousettus aegyptiacus</i>	Pteropodidae	Z

2017 September 4 (Mushrooms & Wildlife) (MS/4)

2392c	\$10	Red Fox, <i>Vulpes vulpes</i>	Canidae	B
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ORNITHOLOGY

Editor

Glenn G. Mertz, BU1455

Corrections/Updates



Scott Publishing has assigned numbers to the St. Thomas & Prince and Sierra Leone issues. I have listed them in the order they were printed in *Biophilately*.

ST. THOMAS & PRINCE IS. – Vol. 66(1), p.48

Updates: Biodiversity: MS#1=Sc#3035d & Sc#3035g, MS#2=Sc#3036b.

Missed: Sc#3036g, Schlegel's Asity, *Philepitta schlegeli*, Philepittidae

2016 January 26 (9-11 Memorial), Sc#3037c

2016 March 30 (Year of Pulses) (SS/1), Sc#3107

ST. THOMAS & PRINCE IS. – Vol. 66(1), p.49

Updates: (Owls/4) MS/4: Sc#3090a–d; SS: Sc#3109

(Philatipei 2016) MS/4: Sc#3077b

(Philatipei 2016–Genghis Khan) MS/4: Sc#3117c

(Owls) MS/4: Sc#3133a–d, SS: Sc#3151

(Asian Fauna) MS/4: Sc#3132a–d; SS: Sc#3150

(American Fauna) MS/4: Sc#3130a–d; SS: Sc#3148

(African Fauna) MS/4: Sc#3129a–d; SS: Sc#3147

ST. THOMAS & PRINCE IS. – Vol. 66(1), p.50

Updates: (Antarctic Fauna) MS/4: Sc#3131a–d; SS: Sc#3149

(Bee-eaters) MS/4: Sc#3169a–d; SS: Sc#3188

(Philatipei 2016–Dalai Lama) MS/4: Sc#3157c; SS: Sc#3158

(Raptors) MS/4: Sc#3168a–d; SS: Sc#3187

(s-o-s) MS/4: Sc#3157c

(Dinosaurs) MS/4: Sc#3173b

(Mushrooms) SS/1: Sc#3193

SIERRA LEONE – Vol. 65(2), pp.127–28

Updates: (Farm Animals) MS/3: Sc#3212c

(Birds of Prey) MS/6: Sc#3254a–f; SS#1: Sc#3273; SS#2: Sc#3292

(Cuckoos) MS/6: Sc#3257a–f; SS#1: Sc#3276, SS#2: Sc#3295

(African Fish Eagle) MS/6: Sc#3255a–f; SS#1: Sc#3274, SS#2: Sc#3293

(Owls) MS/6: Sc#3256a–f; SS#1: Sc#3275, SS#2: Sc#3294

SIERRA LEONE – Vol. 65(2), p.129

Updates: (Endurance Expedition Centenary) MS/4: Sc#3311b; SS: Sc#3330

(Crimson Sunbird–Singapore 2015) MS/4: Sc#3340a–d; SS: Sc#3341

(Eagles) MS/4: Sc#3390a–d; SS: Sc#3410

(Extinct Animals) MS/4: Sc#3399c

(Kingfishers) MS/4: Sc#3391a–d; SS: Sc#3411

(Water Birds) MS/4: Sc#3392a–d; SS: Sc#3412

(Eagles) MS4: Sc#3468a–d; SS: Sc#3488

SIERRA LEONE – Vol. 65(2), p.130

Updates: (Parrots) MS/4: Sc#3474a–d; SS: Sc#3494
 (Owls) MS/4: Sc#3473a–d; SS: Sc#3493
 (Bee-eaters) MS/4: Sc#3464a–d; SS: Sc#3484
 (Hummingbirds) MS/4: Sc#3470a–d; SS: Sc#3490
 (Seabirds) MS/4: Sc#3478a–d; SS: Sc#3498
 (Kingfishers) MS/4: Sc#3472a–d; SS: Sc#3492

SIERRA LEONE – Vol. 65(2), p.131

Updates: (Birds of Prey) MS/4: Sc#3466a–d; SS: Sc#3486
 (Water Birds) MS/4: Sc#3481a–d; SS: Sc#3501
 (White-breasted Guineafowl) MS/4: Sc#3482a–d; SS: Sc#3502
 (Ibises) MS/4: Sc#3471a–d; SS: Sc#3491
 (Pigeons & Doves) MS/4: Sc#3476a–d; SS: Sc#3496
 (African Penguin) MS/4: Sc#3463a–d; SS: Sc#3483
 (Flamingos) MS/4: Sc#3469a–d; SS: Sc#3489

SIERRA LEONE – Vol. 65(2), p.132

Updates: (Birds-of-Paradise) MS/4: Sc#3465a–d; SS: Sc#3485
 (Protected Birds) MS/4: Sc#3477a–d; SS: Sc#3497
 (Warblers) MS/4: Sc#3480a–d; SS: Sc#3500
 (Ducks) MS/4: Sc#3467a–d; SS: Sc#3487
 (Tropical Birds) MS/4: Sc#3479a–d; SS: Sc#3499
 (Peacocks) MS/4: Sc#3475a–d; SS: Sc#3495

SIERRA LEONE – Vol. 65(2), p.133

Updates: (Owls) MS/4: Sc#3601a–d; SS: Sc#3621
 (Hawks) MS/4: Sc#3599a–d; SS: Sc#3619
 (Doves) MS/4: Sc#3598a–d; SS: Sc#3618
 (Cuckoos) MS/4: Sc#3600a–d; SS: Sc#3620

SIERRA LEONE – Vol. 66(1), pp.50–51

Updates: (Hippopotamus) MS/4: Sc#3587a
 (Marine Life: Terns) MS/4: Sc#3674a–d; SS: Sc#3694
 (Marine Life: Penguins) MS/4: Sc#3672a–d; SS: Sc#3692
 (Marine Life: Kingfishers) MS/4: Sc#3673a–d; SS: Sc#3693
 (Marine Life: Water Birds) MS/4: Sc#3675a–d; SS: Sc#3695
 (500th anniv. Conrad Gessner) MS/4: Sc#3725b–c
 (Chobe National Park–Botswana) MS/4: Sc#3765d; SS: Sc#3784

SIERRA LEONE – Vol. 66(1), p.52

Updates: (Moremi Game Reserve–Botswana) MS/4: Sc#3766c
 (Amboseli National Park–Kenya) MS/4: Sc#3767c
 (Etosha National Park–Namibia) MS/4: Sc#3769a; SS: Sc#3788
 (Mudumu National Park–Namibia) MS/4: Sc#3770b
 (Gola Rainforest National Park–Sierra Leone) MS/4: Sc#3771a, Sc#3771c
 (Outamba-Kilimi National Park–Sierra Leone) MS/4: Sc#3772a
 (Western Area Peninsula National Park–Sierra Leone) MS/4: Sc#3792
 (Ruaha National Park–Tanzania) SS: Sc#3794
 (Selous Game Reserve–Tanzania) MS/4: Sc#3776b; SS: Sc#3795
 (Bwindi Impenetrable National Park–Uganda) MS/4: Sc#3778a, Sc#3778c; SS: Sc#3797
 (South Luangwa National Park–Zambia) MS/4: Sc#3781d
 (Mana Pools National Park–Zimbabwe) MS/4: Sc#3782c
 (Birds of Prey) MS/4: Sc#3891a–d; SS: Sc#3911

SIERRA LEONE – Vol. 66(1), p.53**Updates:** (Owls) MS/4: Sc#3892a–d; SS: Sc#3912

(Extinct Animals) MS/4: Sc#3899; SS: Sc#3919

(Hummingbirds) MS/4: Sc#3893a–d; SS: Sc#3913

(Sunbirds) MS/4: Sc#3895a–d; SS: Sc#3915

(Parrots) MS/4: Sc#3894a–d; SS: Sc#3914

New Issues

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ANTIGUA & BARBUDA		2017 July 25 (Peaceful Plovers) (MS/3 & SS/1)		A
3373a	\$5	Piping Plover, <i>Charadrius melodus</i> (facing L w/ open beak)	Charadriidae	
3373b	\$5	Same species (in flight)		
3373c	\$5	Same species (walking L w/ beak closed)		
3374	SS \$10	Same species (head of Plover, vertical format)		
		2017 August 1 (Macaws) (MS/6 & SS/3)		A
3379a	\$4	Blue-and-yellow Macaw, <i>Ara ararauna</i> (facing R)	Psittacidae	
3379b	\$4	Scarlet Macaw, <i>Ara macao</i> (facing R)	Psittacidae	
3379c	\$4	Blue-and-yellow Macaw, <i>Ara ararauna</i> (facing L)	Psittacidae	
3379d	\$4	Scarlet Macaw, <i>Ara macao</i> (facing L)	Psittacidae	
3379e	\$4	Blue-and-yellow Macaw, <i>Ara ararauna</i> (head)	Psittacidae	
3379f	\$4	Red-and-green Macaw, <i>Ara chloropterus</i>	Psittacidae	
3380a	SS \$7	Military Macaw, <i>Ara militaris</i>	Psittacidae	
3380b	SS \$7	Scarlet Macaw, <i>Ara macao</i>	Psittacidae	
3380e	SS \$7	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
		2017 August 14 (Animals of the World) (SS/1)		A
3389	SS \$15	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
ARUBA		2017 June 30 (Birds) (Set/8)		A
550	85c	Black-crowned Night-Heron, <i>Nycticorax nycticorax</i>	Ardeidae	
551	90c	Purple Gallinule, <i>Porphyrio martinicus</i>	Rallidae	
552	100c	Saffron Finch, <i>Sicalis flaveola</i>	Thraupidae	
553	130c	Yellow Oriole, <i>Icterus nigrogularis</i>	Icteridae	
554	200c	Amazon Kingfisher, <i>Chloroceryle amazona</i>	Alcedinidae	
555	220c	American Flamingo, <i>Phoenicopterus ruber</i> (Cap: <i>P. rube</i>)	Phoenicopteridae	
556	250c	Least Bittern, <i>Ixobrychus exilis</i>	Ardeidae	
557	305c	Yellow-billed Cuckoo, <i>Coccyzus americanus</i> (Cap: Yellow-bellied Cuckoo)	Cuculidae	
BOSNIA & HERZEGOVINA		2017 April 20 (Birds) (Single & SS/1)		A
779	90pf	Lesser Spotted Eagle, <i>Clanga pomarina</i>	Accipitridae	
780	SS 2.50m	Gray Heron, <i>Ardea cinerea</i>	Ardeidae	
BOTSWANA		2017 August 7 (Endangered Birds: Bustards) (Set/5 & SS/5)		A
1027	50t	Kori Bustard, <i>Ardeotis kori</i>	Otididae	
1028	5p	Black-bellied Bustard, <i>Lissotis melanogaster</i>	Otididae	
1029	7p	Red-crested Bustard, <i>Eupodotis ruficrista</i> (R) (Cap: Korhaan)	Otididae	
		Black-bellied Bustard, <i>Eupodotis afraoides</i> (L) (Cap: Northern Black Korhaan)	Otididae	
1030	9p	Denham's Bustard, <i>Neotis denhami</i>	Otididae	
1031	10p	Ludwig's Bustard, <i>Neotis ludwigii</i>	Otididae	
1031a		SS/5 (Sc#1027–31)		

CANADA **2017 August 1** (Birds) (MS/5+1 label & Bklt/10) **A**

The second set of a three-year series with five definitive stamps depicting "Birds of Canada," also issued in a s/a Bklt/10. Each stamp has the letter "P" in white on a red maple leaf, designating them as the domestic letter rate, which is currently 85c.

3017a	(85c)	Blue Jay, <i>Cyanocitta cristata</i>	Corvidae
3017b	(85c)	Gyrfalcon, <i>Falco rusticolus</i>	Falconidae
3017c	(85c)	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae
3017d	(85c)	Osprey, <i>Pandion haliaetus</i>	Pandionidae
3017e	(85c)	Common Loon, <i>Gavia immer</i>	Gaviidae
3017		MS/5+1 label (Sc#3017a–e) (perf 13×13¼)	
3018	(85c)	Osprey, <i>Pandion haliaetus</i>	Pandionidae
3019	(85c)	Gyrfalcon, <i>Falco rusticolus</i>	Falconidae
3020	(85c)	Blue Jay, <i>Cyanocitta cristata</i>	Corvidae
3021	(85c)	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae
3022	(85c)	Common Loon, <i>Gavia immer</i>	Gaviidae
3022a		Bklt/10 (2ea Sc#3018–22) (die cut 13) (s/a)	

CHINA (Taiwan) **2017 August 9** (Tourist Attractions) (Set/4) **A**

4373	\$10	Chinese Crested Tern, <i>Thalasseus bernsteini</i>	Laridae
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2017 September 6 (Paintings) (Set/4) **A**

4377	\$5	Eurasian Magpie, <i>Pica pica</i> (ptg by Xu Beihong)	Corvidae
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COLOMBIA **2016 July 29** (50th anniv. Quindío Department) (Pair & SS/2) **A**

Sc#1437 was printed in a sheet of sixteen containing eight pairs plus four labels.

1437a	200p	Black-and-chestnut Eagle, <i>Spizaetus isidori</i>	Accipitridae
1437		Pair (Sc#1437a–b)	
1438a	SS 10000p	Black-and-chestnut Eagle, <i>Spizaetus isidori</i>	Accipitridae
1438		SS/2 (Sc#1438a–b)	

2016 August 11 (UNESCO: Malpelo Sanctuary) (Single + label) **C**

Sheet of two horizontal rows of stamps and labels. The two tiny birds are in the upper portion of the stamp.

1439	2000p	Nazca Booby, <i>Sula granti</i>	Sulidae
		Brown Booby, <i>Sula leucogaster</i>	Sulidae

2017 April 7 (50th anniv. Risaralda Department) (Pair) **A**

Sc#1452 was printed in a sheet of sixteen containing eight pairs plus four labels.

1452b	500p	Gold-ringed Tanager, <i>Bangsia aureocincta</i>	Thraupidae
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FINLAND **2016 February 26** (Bird in Flight) (Single) **U B**

1513	€1.80	U/I Bird in flight.	
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2017 January 20 (Lions Club Centenary) (SS/2) **C**

1532a	(€1.20)	Greater Roadrunner, <i>Geococcyx californianus</i> (on pin)	Cuculidae
1532b	(€1.20)	Huia, <i>Heteralocha acutirostris</i> (on pin)	Callaeidae

2017 February 24 (Priority Mail) (Strip/3) **A**

1536c	(€1.30)	Whooper Swan, <i>Cygnus cygnus</i>	Anatidae
1536		Vert strip/3+3 etiquettes (Sc#1536a–c)	

FINLAND (Åland) **2017 May 24** (Independence Centenary) (Single) **A**

395	€5	Mute Swan, <i>Cygnus olor</i>	Anatidae
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HUNGARY		2017 July 3 (Owls) (Set/4 & SS/1)		A
4435	200fo	Barn Owl, <i>Tyto alba</i>	Tytonidae	
4436	300fo	Tawny Owl, <i>Strix aluco</i>	Strigidae	
4437	390fo	Long-eared Owl, <i>Asio otus</i>	Strigidae	
4438	410fo	Little Owl, <i>Athene noctua</i>	Strigidae	
4439	SS 600fo	Boreal Owl, <i>Aegolius funereus</i>	Strigidae	
IRELAND		2017 July 27 (Francis Ledwidge Centenary) (Single)		B
2156	€1	Eurasian Blackbird, <i>Turdus merula</i>	Turdidae	
JAPAN		2016 June 7 (60th anniv. Local Government Law) (Sheet/47)		A
A sheet of 47 stamps, but only one stamp in UL corner, features a bird. Scott Publishing has not yet seen this sheet, according to the New Issues Editor. If Scott eventually provides it a number, I will list it in a future update.				
n/a	82¥	Red-crowned Crane, <i>Grus japonensis</i>	Gruidae	
LATVIA		2017 July 14 (Birds) (Set/2)		A
968	50c	Western Yellow Wagtail, <i>Motacilla flava</i>	Motacillidae	
969	€1.41	Little Crake, <i>Zaporina parva</i> (Cap: <i>Porzana parva</i>)	Rallidae	
LIBERIA		2015 January 5 (Birds of Prey) (2ea MS/3 & 2ea SS/1)		A
3025a	\$125	Jackal Buzzard, <i>Buteo rufofuscus</i>	Accipitridae	
3025b	\$125	Spotted Eagle-Owl, <i>Bubo africanus</i>	Strigidae	
3025c	\$125	Cape Griffon, <i>Gyps coprotheres</i> (Cap: Cape Vulture)	Accipitridae	
3026a	\$125	African Goshawk, <i>Accipiter tachiro</i>	Accipitridae	
3026b	\$125	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae	
3026c	\$125	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
3027	SS \$350	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
3028	SS \$350	Martial Eagle, <i>Polemaetus bellicosus</i>	Accipitridae	
MONGOLIA		2017 July 6 (Owls) (Set/4 & SS/4)		A
2874	300t	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
2875	400t	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
2876	500t	Northern Hawk Owl, <i>Surnia ulula</i>	Strigidae	
2877	800t	Snowy Owl, <i>Bubo scandiaca</i>	Strigidae	
2877a		SS/4 (Sc#2874–77)		
NEVIS		2017 June 22 (Peaceful Plovers) (MS/2 & SS/1)		A
1924a	\$7.50	Piping Plover, <i>Charadrius melodus</i> (chick)	Charadriidae	
1924b	\$7.50	Same species (adult)		
1925	SS \$10	Same species		
		2017 September 28 (National Bird of Nevis) (MS/6)		A
1930a	\$4	Brown Pelican, <i>Pelecanus occidentalis</i> (one in flight)	Pelecanidae	
1930b	\$4	Same species (two in flight)		
1930c	\$4	Same species (on rock-denom in black)		
1930d	\$4	Same species (on rock-denom in yellow)		
1930e	\$4	Same species (juvenile facing L)		
1930f	\$4	Same species (pelican hatchling & egg)		
NEW ZEALAND		2017 August 2 (Native Birds) (Set/5 & SS/5)		A
2738	\$1	Campbell Island Teal, <i>Anas nesiotis</i> (perf 14½×14)	Anatidae	Vol. 66(3)
2738a	\$1	Same species (perf 14¼×14)		
2739	\$2.20	Black Stilt, <i>Himantopus novaezelandiae</i> (perf 14½×14)	Recurvirostridae	
2739a	\$2.20	Same species (perf 14¼×14)		
2740	\$2.30	New Zealand Kaka, <i>Nestor meridionalis</i> (perf 14½×14)	Strigopidae	
2740a	\$2.30	Same species (perf 14¼×14)		

NEW ZEALAND (continued)

2741	\$2.70	South Island Saddleback, <i>Philesturnus carunculatus</i>	Callaeidae	
2741a	\$2.70	Same species (perf 14¼×14)		
2742	\$3.30	Red-breasted Dotterel, <i>Charadrius obscurus</i> ssp. <i>aquilonius</i>	Charadriidae	
2742a	\$3.30	Same species (perf 14¼×14)		
2742b		SS/5 (Sc#2738a–42a)		

ST. MARTIN**2016 January 6** (Birds Type of 2016) (Set/12)**A**

90	500c	Turquoise-fronted Parrot, <i>Amazona aestiva</i>	Psittacidae	
91	500c	Yellow-faced Parrot, <i>Amazona xanthops</i>	Psittacidae	
92	500c	Hyacinth Macaw, <i>Anodorhynchus hyacinthinus</i>	Psittacidae	
93	500c	Burrowing Owl, <i>Athene cunicularia</i>	Strigidae	
94	500c	Yellow-chevroned Parakeet, <i>Brotogeris chiriri</i>	Psittacidae	
95	500c	Plain Parakeet, <i>Brotogeris tirica</i>	Psittacidae	Vol. 65(3)
96	500c	Picazuro Pigeon, <i>Patagioenas picazuro</i>	Columbidae	
97	500c	Picui Ground-Dove, <i>Columbina picui</i>	Columbidae	
98	500c	Monk Parakeet, <i>Myiopsitta monachus</i>	Psittacidae	
99	500c	Pileated Parrot, <i>Pionopsitta pileata</i>	Psittacidae	Vol. 65(4)
100	500c	Maroon-bellied Parakeet, <i>Pyrrhura frontalis</i>	Psittacidae	
101	500c	Scaled Dove, <i>Columbina squammata</i>	Columbidae	

2016 January 20 (Birds Type of 2016) (MS/10+2 labels)**A**

115a	25c	Brazilian Merganser, <i>Mergus octosetaceus</i>	Anatidae	
115b	100c	Large-billed Tern, <i>Phaetusa simplex</i>	Laridae	Vol. 66(1)
115c	125c	Bare-faced Ibis, <i>Phimosus infuscatus</i>	Threskiornithidae	Vol. 66(1)
115d	200c	Great Grebe, <i>Podiceps major</i> (+ label)	Podicipedidae	
115e	250c	Manx Shearwater, <i>Puffinus puffinus</i>	Procellariidae	
115f	300c	Black Skimmer, <i>Rynchops niger</i>	Laridae	
115g	350c	King Vulture, <i>Sarcoramphus papa</i>	Cathartidae	
151h	400c	Royal Tern, <i>Thalasseus maximus</i>	Laridae	
115i	450c	Buff-necked Ibis, <i>Theristicus caudatus</i> (+ label)	Threskiornithidae	
115j	500c	Southern Lapwing, <i>Vanellus chilensis</i>	Charadriidae	

ST. PIERRE & MIQUELON**2017 May 22** (Cod Filleting) (Single)**C**

1046	85c	Great Black-backed Gull, <i>Larus marinus</i>	Laridae	
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SERBIA**2016 June 21** (125th anniv. Tesla Transformer Patent) (Single)**B**

749	70c	Rock Pigeon, <i>Columba livia</i> (presumed)	Columbidae	
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2017 June 1 (European Nature Protection) (Set/2)**A**

788	74d	Ferruginous Pochard, <i>Aythya nyroca</i>	Anatidae	
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SIERRA LEONE**2015 November 27** (African Lighthouses) (MS/4)**U B**

3509d	6000le	U/I Gull species	Laridae	
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2016 May 9 (Various Subjects) (Set/17)**A**

3747	300le	Black-chinned Weaver, <i>Ploceus nigrimentus</i>	Ploceidae	new
3748	300le	Guinea Turaco, <i>Tauraco persa</i>	Musophagidae	

2016 December 29 (Hornbills) (MS/4 & SS/1)**A**

4055a	6000le	Rhinoceros Hornbill, <i>Buceros rhinoceros</i>	Bucerotidae	
4055b	6000le	Rufous Hornbill, <i>Buceros hydrocorax</i>	Bucerotidae	
4055c	6000le	Knobbed Hornbill, <i>Rhyticeros cassidix</i> (Cap: <i>Aceros cassidix</i>)	Bucerotidae	
4055d	6000le	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae	

SIERRA LEONE (continued)

4074	SS 24000le	Rufous-necked Hornbill, <i>Aceros nipalensis</i>	Bucerotidae	
	Margin	UR: Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae	
		Bot: Knobbed Hornbill, <i>Rhyticeros cassidix</i>	Bucerotidae	
2016 December 29 (Water Birds) (MS/4 & SS/1)				A
4056a	6000le	Wandering Albatross, <i>Diomedea exulans</i> ssp. <i>amsterdamensis</i> (Cap: <i>Diomedea amsterdamensis</i>)	Diomededidae	
4056b	6000le	Black-fronted Tern, <i>Chlidonias albostrigatus</i> (Cap: <i>Sterna a.</i>)	Laridae	
4056c	6000le	New Zealand Storm-Petrel, <i>Fregatta maorianus</i> (Cap: <i>Oceanites maorianu</i>) (rediscovered in 2003)	Hydrobatidae	new
4056d	6000le	Abbott's Booby, <i>Papasula abbotti</i>	Sulidae	
4075	SS 24000le	Galapagos Penguin, <i>Spheniscus mendiculus</i> (also in margin)	Spheniscidae	
2016 December 29 (Indigo Birds) (MS/4 & SS/1)				A
4057a	6000le	Indigo Bunting, <i>Passerina cyanea</i> (w/ eggs) ♀	Cardinalidae	
4057b	6000le	Same species ♂		
4057c	6000le	Same species ♀		
4057d	6000le	Same species ♂ & ♀		
4076	SS 24000le	Same species ♂		
	Margin	Same species ♂ & ♀		
2016 December 29 (Bee-eaters) (MS/4 & SS/1)				A
4058a	6000le	Little Bee-eater, <i>Merops pusillus</i> (Cap: <i>M. p. cyanostictus</i>)	Meropidae	
4058b	6000le	Red-bearded Bee-eater, <i>Nyctyornis amictus</i>	Meropidae	
4058c	6000le	European Bee-eater, <i>Merops apiaster</i>	Meropidae	
4058d	6000le	Cinnamon-chested Bee-eater, <i>Merops oreobates</i>	Meropidae	
4077	SS 24000le	Rainbow Bee-eater, <i>Merops ornatus</i>	Meropidae	
	Margin	R: Red-bearded Bee-eater, <i>Nyctyornis amictus</i>	Meropidae	
		Bot: Southern Carmine Bee-eater, <i>Merops nubicooides</i>	Meropidae	
2016 December 29 (Flying Reptiles) (MS/4 & SS/1)				A
Titled "Flying Dinosaurs," these are probably the earliest precursor to today's birds, but not actually a "true" bird.				
4063a	6000le	<i>Peteinosaurus zambellii</i> (Genus means "winged lizard")	Clade: †Eopterosauria	
4063b	6000le	<i>Pterodactylus antiquus</i>	†Pterodactylidae	
4063c	6000le	<i>Pterodactylus</i> sp.	†Pterodactylidae	
4063d	6000le	<i>Zhenyuanopterus longirostris</i>	†Boreopteridae	
4082	SS 24000le	<i>Dimorphodon macronyx</i>	†Dimorphodontidae	
	Margin	L: <i>Quetzalcoatlus northropi</i>	†Azhdarchidae	
2016 December 29 (Endangered Species) (MS/4 & SS/1)				A
4064b	6000le	Blue-throated Macaw, <i>Ara glaucogularis</i>	Psittacidae	
4083	SS 24000le	Bot: Same species (margin)		
SOLOMON ISLANDS				
2016 August 1 (Philatapei 2016: Chiang Kai-Shek) (MS/4)				B
2073d	\$12	Taiwan Blue Magpie, <i>Urocissa caerulea</i>	Corvidae	
2016 September 1 (Owls) (MS/4 & SS/1)				A
2093a	\$12	Elf Owl, <i>Micrathene whitneyi</i>	Strigidae	
2093b	\$12	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
2093c	\$12	Jamaican Owl, <i>Pseudoscops grammicus</i>	Strigidae	
2093d	\$12	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
2115	SS \$35	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
	Margin	LL: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
		UL: Barn Owl, <i>Tyto alba</i>	Tytonidae	

SOLOMON ISLANDS (continued) 2016 September 1 (Philatapei 2016: Chiang Kai-Shek) (MS/4)				B
2119c	\$7	Taiwan Blue Magpie, <i>Urocissa caerulea</i>	Corvidae	
2016 December 12 (Australian Birds of Prey) (MS/4 & SS/1)				A
2175a	\$12	Australian Kestrel, <i>Falco cenchroides</i>	Falconidae	
2175b	\$12	Brown Falcon, <i>Falco berigora</i>	Falconidae	
2175c	\$12	Osprey, <i>Pandion haliaetus</i>	Pandionidae	
2175d	\$12	White-bellied Sea-Eagle, <i>Haliaeetus leucogaster</i>	Accipitridae	
2200	SS \$40	Osprey, <i>Pandion haliaetus</i>	Pandionidae	
Margin		Wedge-tailed Eagle, <i>Aquila audax</i>	Accipitridae	
2016 December 12 (Australian Water Birds) (MS/4 & SS/1)				A
2176a	\$12	Rufous Night-Heron, <i>Nycticorax caledonicus</i>	Ardeidae	
2176b	\$12	R: Mute Swan, <i>Cygnus olor</i> L: Black Swan, <i>Cygnus atratus</i>	Anatidae Anatidae	
2176c	\$12	Wandering Whistling-Duck, <i>Dendrocygna arcuata</i>	Anatidae	
2176d	\$12	Pied Heron, <i>Egretta picata</i> (Cap: <i>Ardea picata</i>)	Ardeidae	
2201	SS \$40	Cattle Egret, <i>Bubulcus ibis</i>	Ardeidae	
Margin		Bot: Black Swan, <i>Cygnus atratus</i>	Anatidae	
2016 December 12 (Owls) (MS/4 & SS/1)				A
2177a	\$12	Spotted Eagle-Owl, <i>Bubo africanus</i>	Strigidae	
2177b	\$12	Barred Eagle-Owl, <i>Bubo sumatranus</i>	Strigidae	
2177c	\$12	Verreaux's Eagle-Owl, <i>Bubo lacteus</i>	Strigidae	
2177d	\$12	Philippine Eagle-Owl, <i>Bubo philippensis</i>	Strigidae	
2202	SS \$40	Short-eared Owl, <i>Asio flammeus</i>	Strigidae	
Margin		R: Verreaux's Eagle-Owl, <i>Bubo lacteus</i> LL: Great Horned Owl, <i>Bubo virginianus</i> ssp. <i>nacurutu</i>	Strigidae Strigidae	
2016 December 12 (Australian Endangered Species) (MS/4 & SS/1)				A
2180a	\$12	Long-tailed Corella, <i>Cacatua tenuirostris</i>	Cacatuidae	new
2205	SS \$40	Gouldian Finch, <i>Erythrura gouldiae</i>	Estrildidae	
2016 December 12 (UN Wildlife Conference) (SS/1)				A
2206	SS \$40	Gray Parrot, <i>Psittacus erithacus</i> (also R margin)	Psittacidae	
2017 April 12 (Water Birds) (MS/4 & SS/1)				A
2229a	\$10	Common Tern, <i>Sterna hirundo</i>	Laridae	
2229b	\$10	Fluttering Shearwater, <i>Puffinus gaviol</i>	Procellariidae	new
2229c	\$10	Great Frigatebird, <i>Fregata minor</i>	Fregatidae	
2229d	\$10	Red-footed Booby, <i>Sula sula</i>	Sulidae	
2242	SS \$40	Plumed Whistling-Duck, <i>Dendrocygna eytoni</i>	Anatidae	
Margin		UL: Red-footed Booby, <i>Sula sula</i> UR: Eastern Great Egret, <i>Ardea alba</i> ssp. <i>modesta</i> LR: Australian Pelican, <i>Pelecanus conspicillatus</i>	Sulidae Ardeidae Pelecanidae	
2017 April 12 (Birds of Prey) (MS/4 & SS/1)				A
2230a	\$10	Brown Goshawk, <i>Accipiter fasciatus</i>	Accipitridae	
2230b	\$10	Swamp Harrier, <i>Circus approximans</i>	Accipitridae	
2230c	\$10	Osprey, <i>Pandion haliaetus</i>	Pandionidae	
2230d	\$10	White-bellied Sea-Eagle, <i>Haliaeetus leucogaster</i>	Accipitridae	
2243	SS \$40	Brahminy Kite, <i>Haliastur indus</i>	Accipitridae	
Margin		UL: Peregrine Falcon, <i>Falco peregrinus</i> UR: Whistling Kite, <i>Haliastur sphenurus</i> LR: Pacific Baza, <i>Aviceda subcristata</i>	Falconidae Accipitridae Accipitridae	

SOLOMON ISLANDS (continued)			2017 May 15 (Owls) (MS/4 & SS/1)	A
2272a	\$10	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
2272b	\$10	Barred Owl, <i>Strix varia</i>	Strigidae	
2272c	\$10	Barred Eagle-Owl, <i>Bubo sumatranus</i>	Strigidae	
2272d	\$10	Burrowing Owl, <i>Athene cunicularia</i>	Strigidae	
2282	SS \$40	Barn Owl, <i>Tyto alba</i>	Tytonidae	
Margin	R:	Burrowing Owl, <i>Athene cunicularia</i>	Strigidae	
			2017 May 15 (Parrots) (MS/4 & SS/1)	A
2295a	\$10	Pink Cockatoo, <i>Lophochroa leadbeateri</i>	Cacatuidae	
2295b	\$10	Eclectus Parrot, <i>Eclectus roratus</i>	Psittaculidae	
2295c	\$10	Dusky Lory, <i>Pseudeos fuscata</i>	Psittaculidae	
2295d	\$10	Sulphur-crested Cockatoo, <i>Cacatua galerita</i>	Cacatuidae	
2310	SS \$40	Red-lored Parrot, <i>Amazona autumnalis</i>	Psittacidae	
Margin	R:	Rainbow Lorikeet, <i>Trichoglossus moluccanus</i>	Psittaculidae	
	LL:	Sulphur-crested Cockatoo, <i>Cacatua galerita</i>	Cacatuidae	
			2017 August 21 (Emus) (MS/4 & SS/1)	A
2320a	\$10	Emu, <i>Dromaius novaehollandiae</i> (running L)	Casuariidae	
2320b	\$10	Same species (head facing L)		
2320c	\$10	Same species (head facing R)		
2320d	\$10	Same species (pair)		
2345	SS \$40	Same species (pair) (also R margin w/ eggs)		
			2017 August 21 (Rare Birds w/ Birdpex logo) (MS/4 & SS/1)	A
2321a	\$10	White-headed Fruit-Dove, <i>Ptilinopus eugeniae</i>	Columbidae	Vol. 66(4)
2321b	\$10	R: Yellow-legged Pigeon, <i>Columba pallidiceps</i>	Columbidae	
		L: Bronze Ground-Dove, <i>Gallicolumba beccarii</i>	Columbidae	Vol. 66(4)
2321c	\$10	L: Chestnut-bellied Imperial-Pigeon, <i>Ducula brenchleyi</i>	Columbidae	Vol. 66(4)
		R: Thick-billed Ground-Dove, <i>Gallicolumba salamonis</i>	Columbidae	new
2321d	\$10	Red-breasted Pygmy Parrot, <i>Micropsitta bruijnii</i>	Psittaculidae	
2346	SS \$40	Heinroth's Shearwater, <i>Puffinus heinrothi</i>	Procellariidae	
Margin	UR:	Pale Mountain Pigeon, <i>Gymnophaps solomonensis</i>	Columbidae	
	LR:	Island Imperial Pigeon, <i>Ducula pistrinaria</i>	Columbidae	Vol. 66(4)
			2017 September 4 (Owls) (MS/4 & SS/1)	A
2385a	\$10	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
2385b	\$10	Philippine Eagle-Owl, <i>Bubo philippensis</i>	Strigidae	
2385c	\$10	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
2385d	\$10	Short-eared Owl, <i>Asio flammeus</i>	Strigidae	
2410	SS \$40	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
			2017 September 4 (Hornbills) (MS/4 & SS/1)	A
2386a	\$10	Trumpeter Hornbill, <i>Bycanistes bucinator</i>	Bucerotidae	
2386b	\$10	Wreathed Hornbill, <i>Rhyticeros undulates</i>	Bucerotidae	
2386c	\$10	Northern Red-billed Hornbill, <i>Tockus erythrorhynchus</i>	Bucerotidae	
2386d	\$10	Oriental Pied-Hornbill, <i>Anthracoceros albirostris</i>	Bucerotidae	
2411	SS \$40	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae	
SOUTH AFRICA			2017 May 18 (South African Bee-eaters) (Horiz Strip/5) (s/a)	A
1566a	(9.55r)	European Bee-eater, <i>Merops apiaster</i>	Meropidae	
1566b	(9.55r)	Little Bee-eater, <i>Merops pusillus</i>	Meropidae	
1566c	(9.55r)	Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	
1566d	(9.55r)	Swallow-tailed Bee-eater, <i>Merops hirundineus</i>	Meropidae	
1566e	(9.55r)	White-fronted Bee-eater, <i>Merops bullockoides</i>	Meropidae	

S. GEORGIA & S. SANDWICH IS.		2017 September 25 (WWF: Macaroni Penguin) (Set/4 & SS/4)	A
572	70p	Macaroni Penguin, <i>Eudyptes chrysolophus</i>	Spheniscidae
573	80p	Same species	
574	£1.05	Same species	
575	£1.25	Same species	
575a		SS/4 (Sc#572–75)	

TONGA		2017 July 10 (Eua National Park) (Block/4 & SS/1)	A
1320a	5pa	Red Shining-Parrot, <i>Prosopeia tabuensis</i> (facing L)	Psittaculidae
1320d	5pa	Same species (facing R)	
1321	SS 7.50pa	Same species	

TRISTAN da CUNHA		2017 October 13 (WWF: Penguins) (Set/4 & SS/4)	A
Each stamp has the WWF Panda emblem and is labeled as Northern Rockhopper Penguin. But this species is listed by the Cornell University e/Bird/Clements Checklist as Moseley's Rockhopper Penguin. Kjell Scharning's website, <i>Theme Birds On Stamps</i> , lists it as Northern Rockhopper Penguin.			

1114	35p	Moseley's Rockhopper Penguin, <i>Eudyptes moseleyi</i> (chicks)	Spheniscidae
1115	50p	Same species (juveniles)	
1116	£1.50	Same species (adult)	
1117	£2.00	Same species (mother & chicks)	
1117a		SS/4 (Sc#1114–17)	

URUGUAY		2016 December 1 (Tourism) (Block/4)	B
2577a	20p	Wren-like Rushbird, <i>Phleocryptes melanops</i>	Furnariidae

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NEW BIRDS IN THE PHILATELIC AVIARY

Charles E. Braun, BU1364

New Birds



FLUTTERING SHEARWATER, *Puffinus gavia* Procellariidae
Solomon Islands, 2017 April 12, Sc#2229b, \$10

Length: 12 to 15 inches, sexes alike, partial migrant. Brown above and white below with white below the eyes.

Habitat: Marine, but near shores.

Range: Breeds on islands north of New Zealand. Winters near southeastern Australia and Tasmania.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 1.



NEW ZEALAND STORM-PETREL, *Fregetta maoriana* Hydrobatidae
Sierra Leone, 2016 December 29, Sc#4056c, 6000le

Length: 8 inches, sexes alike, migratory. Brown above and white below with a gray upper tail and a grayish-brown patch below the eye,

Habitat: Marine and pelagic.

Range: Breeds on islands north of New Zealand. Migrates across the Pacific to tropical South America.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 1.



STRIPE-BACKED BITTERN, *Ixobrychus involucris* Ardeidae
Suriname, 2017 December 19, not yet cataloged, \$5

Length: 11 to 13 inches, sexes alike, resident. Rufous with bold black stripes on the back.

Habitat: Tropical marshes.

Range: Northern Colombia to Suriname, and southern Brazil to central Chile.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 1.



SNOW PARTRIDGE, *Lerwa lerwa* Phasianidae
Bhutan 2017 November 30, not yet cataloged, 20nu

Length: 15 to 16 inches, sexes similar, resident. Finely barred gray head and above and brown-spotted white below with bright red bill and feet.

Habitat: Alpine meadows and open, rocky hillsides.

Range: Eastern Afghanistan to central China.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 2.



TIBETAN PARTRIDGE, *Perdix hodgsoniae* Phasianidae
Bhutan, 2017 November 30, not yet cataloged, 20nu

Length: 11 inches, sexes alike, resident. Scaly gray above and black-barred white below with a chestnut crown and hindneck, white superciliary and throat, and a black mustache.

Habitat: Dry hillsides with scattered bushes.

Range: Tibet and western China to northern India.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 2.



THICK-BILLED GROUND-DOVE, *Gallicolumba salamonis* Columbidae
Solomon Islands, 2017, Sc#2321c, \$10 (on R)

Length: 10 inches, sexes alike, resident. Reddish brown above and dark reddish brown below with a chocolate brown head and upper breast and purple patches on the sides of the breast.

Habitat: Lowland forest:

Range: Ramos Island, Solomon Islands.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 4.



WEDGE-TAILED PIGEON, *Treron sphenurus* Columbidae
Niger, 2017 December 28, not yet cataloged, 800fr

Length: 12 to 14 inches, resident. The male (shown) is yellowish green with purplish-chestnut scapulars and a salmon-pink breast. The female is pale yellowish green above and dark green below.

Habitat: Forest.

Range: Eastern Kashmir and south-central China to Vietnam and Lombok, Indonesia.

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

the World, Volume 4.



GOLDEN MASKED-OWL, *Tyto aurantia* Tytonidae
Niger, 2017 November 20, not yet cataloged, 800fr

Length: 11 to 13 inches, sexes similar, resident. Black-mottled golden-buff with a whitish facial disc.

Habitat: Rainforest.

Range: New Britain.

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



CHESTNUT-BACKED OWLET, *Glaucidium castanonotum* Strigidae
Sri Lanka, 2017 December 16, not yet cataloged, 10r

Length: 8 inches, sexes alike, resident. Black-barred chestnut above and black-barred white below with a barred brown-and-cream head.

Habitat: Dense wet forest.

Range: Western and central Sri Lanka.

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



SAW-BILLED HERMIT, *Ramphodon naevius* Trochilidae
Cuba, 2017, not yet cataloged, 75p

Length: 6 inches, sexes similar, resident. Brownish above and black-streaked white below with rufous cheeks and a serrated bill.

Habitat: Understory of humid littoral forest.

Range: Southeastern Brazil.

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

of the World, Volume 5.



GREEN-AND-WHITE HUMMINGBIRD, *Amazilia viridicauda* Trochilidae
Peru, 2018 January 15, not yet cataloged, 8s

Length: 4 inches, sexes similar, resident. Green above and white below with green spots on the sides of the chin and throat.

Habitat: Forest edges, clearings, and second growth.

Range: Eastern slope of the Andes in central Peru.

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



DUSKY STARFRONTLET, *Coeligena orina* Trochilidae
Colombia, 2018 January 23, not yet cataloged, 1000p

Length: 6 inches, resident. The male (shown) is very dark with a greenish sheen and a small bluish throat spot. The female is unknown.

Habitat: Forest and open terrain with scattered bushes.

Range: North-central Colombia.

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



BLACK-BACKED THORNBILL, *Ramphomicron dorsale* Trochilidae
Colombia, 2018 January 23, not yet cataloged, 1000p

Length: 4 inches, resident. The male (shown) is velvety black above and dark gray below with a yellow throat. The female is grass green above and green-spotted white below.

Habitat: Forest edges.

Range: Santa Marta Mountains, northeastern Colombia.

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



PERIJÁ METALTAIL *Metallura iracunda* Trochilidae
Colombia, 2018 January 23, not yet cataloged, 1000p

Length: 4 inches, resident. The male (shown) is blackish above and bronzy green below with a glittering emerald green throat and ruby red tail. The female is rich buff below with an ochre-orange throat and upper breast.

Habitat: Open bushy terrain.

Range: Perijá Mountains, northern Colombia.

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



SMALL BLUE KINGFISHER, *Alcedo coerulescens* Alcedinidae
Togo, 2017 December 15, not yet cataloged, 800fr

Length: 5 inches, resident. The male (shown) is blue with a white front, throat, neck patch, and belly. The female is similarly marked, but greenish blue.

Habitat: Freshwater wetlands and tidal estuaries.

Range: Eastern Sumatra to Flores, Indonesia.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 6.



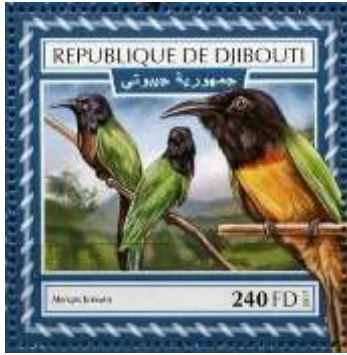
PHILIPPINE DWARF-KINGFISHER, *Ceyx melanurus* Alcedinidae
Togo, 2017, not yet cataloged, 800fr

Length: 5 inches, sexes alike, resident. Rufous above and white below with darker wings and a white neck spot.

Habitat: Dense forest.

Range: Philippines.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 6.



BLACK-HEADED BEE-EATER, *Merops breweri* Meropidae
Djibouti, 2017 December 11, not yet cataloged, 240fr

Length: 11 to 13 inches, sexes alike, resident. Green above and rich ochre below with a black head and a cinnamon outer tail.
Habitat: Forest edges and savanna.
Range: Southeastern Nigeria to northern Angola.
Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 6.



INDIAN GRAY HORNBILL, *Ocyrceros birostris* Bucerotidae
Togo, 2017 December 15, not yet cataloged, 800fr

Length: 29 inches, sexes similar, resident. Silvery-gray above and white below with a blackish bill, narrow casque, and stripe behind the eye.
Habitat: Forest, parks, and gardens.
Range: Northeastern Pakistan to northwestern Bangladesh and India (except coasts).
Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 6.



SOOTY-CAPPED PUFFBIRD, *Nystactes noanamae* Bucconidae
Colombia, 2018 January 23, not yet cataloged, 1000p

Length: 7 inches, sexes alike, resident. Blackish above and buffy below with a broad black pectoral band, grayish black cap, and white throat.
Habitat: Lowland forest.
Range: Coastal western Colombia.
Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 7.



WHITE-MANTLED BARBET, *Capito hypoleucus* Capitonidae
Colombia, 2018 January 23, not yet cataloged, 1000p

Length: 7 inches, sexes similar, resident. Black above and yellowish white below with a pale brown breast band, red forehead, and white mantle and throat.
Habitat: Forest and forest edges.
Range: Northwestern Colombia.
Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 7.



LONG-BILLED CORELLA, *Cacatua tenuirostris* Cacatuidae
Solomon Islands, 2016 December 12, Sc#2180a, \$12

Length: 15 to 16 inches, sexes similar, resident. White with an orange-scarlet forehead, blue eye patches, and a scarlet band across the throat.

Habitat: Grassland and grassy eucalypt woodland.

Range: South central New South Wales to southeastern South Australia.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 4.



GREEN-CHEEKED PARAKEET, *Pyrrhura molinae* Psittacidae
Djibouti, 2017 December 11, not yet cataloged, SS 950fr (Bot margin)

Length: 19 inches, sexes alike, resident. Green with a dull brown forehead, green cheeks, scaled brown breast and neck, and a dull red tail and belly patch,

Habitat: Woodland and forest.

Range: Eastern Bolivia, southwestern Brazil, and northwestern Argentina.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 4.



SANTA MARTA PARAKEET, *Pyrrhura viridicata* Psittacidae
Colombia, 2018 January 23, not yet cataloged, 1000p

Length: 10 inches, sexes alike, resident. Green with a red front, maroon ear patches, and a red band across the belly.

Habitat: Humid montane forest and adjacent areas.

Range: Santa Marta Mountains, northern Colombia.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 4.



BROWN-BREASTED PARAKEET, *Pyrrhura calliptera* Psittacidae
Colombia, 2018 January 23, not yet cataloged, 1000p

Length: 9 inches, sexes alike, resident. Green with a reddish brown ears, breast, sides of the neck, and tail.

Habitat: Forest and clearings.

Range: Eastern Andes of Colombia.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 4.



TEPUI PARROTLET, *Nannopsittaca panychlora* Psittacidae
Niger, 2017 December 28, not yet cataloged, 800fr

Length: 6 inches, sexes similar, resident. Green, paler below with yellow chin, lores, and behind the eyes.

Habitat: Cool humid subtropical forest.

Range: Southern Venezuela, southern Guyana, and northern Brazil.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 4.



NARROW-BILLED WOODCREEPER, *Lepidocolaptes angustirostris*
Furnariidae

Suriname, 2017 December 19, not yet cataloged, \$5

Length: 7 to 9 inches, sexes alike, resident. Rufous brown above and yellow or scaly white below with a dark crown and eye stripe and white throat and superciliary.

Habitat: Open woodland and savanna.

Range: Southern Suriname to eastern Bolivia and northern Argentina.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 8.



AMAZONIAN ANTSHRIKE, *Thamnophilus amazonicus* Thamnophilidae
Suriname, 2017 December 19, not yet cataloged, \$5

Length: 6 inches, resident. The male (shown) is black above and gray below with a black crown and white wing bars. The female is deep olive above and bright yellowish red-brown below with a bright rufous crown.

Habitat: Lowland evergreen forest.

Range: Southern Venezuela to northern Bolivia and Amazonian Brazil.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 8.



PARKER'S ANT BIRD, *Cercomacra parkeri* Thamnophilidae
Colombia, 2018 January 23, not yet cataloged, 1000p

Length: 5 inches, resident. The male (shown) is slate gray above and paler below with white wing bars. The female is olive-gray above and tawny-buff below.

Habitat: Borders and undergrowth of forest and woodlands.

Range: Andes of west-central Colombia.

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



MASKED FRUITEATER, *Pipreola pulchra* Cotingidae
Peru, 2018 January 15, not yet cataloged, 8s

Length: 7 inches, resident. The male (shown) is green above and yellow below with a black hood, orange-yellow breast patch with a black lower border, and green-streaked flanks. The female is green above and streaked green and yellow below.

Habitat: Montane forest.

Range: Eastern slope of the Andes in Peru.

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



SRI LANKA DRONGO, *Dicrurus lophorinus* Dicruridae
Sri Lanka, 2017 December 16, not yet cataloged, 35r

Length: 12 to 14 inches, sexes alike, resident. Black with a deeply forked tail and a frontal tuft.

Habitat: Tall dense humid forest,

Range: Southwestern Sri Lanka.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 10.



BLACK-CAPPED BULBUL, *Pycnonotus melanicterus* Pycnonotidae
Sri Lanka, 2017 December 16, not yet cataloged, 4r

Length: 7 inches, sexes alike, resident. Dusky olive-green above and rich saffron-yellow below with a black head,

Habitat: Forest, forest edges, and adjacent gardens.

Range: Sri Lanka.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 10.



BLACK-CRESTED BULBUL, *Pycnonotus flaviventris* Pycnonotidae
Laos, 1988 September 30, Sc#881. 63k

Length: 7 to 8 inches, sexes similar, resident. Dark golden olive-green above and bright rich yellow below with a black head and recurved crest.

Habitat: Open forest, clearings, and gardens.

Range: Northern India to southern China, Malaya, and Vietnam.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 10.



SRI LANKA BUSH-WARBLER, *Elaphornis palliseri* Sylviidae
Sri Lanka, 2017, not yet cataloged, 35r

Length: 6 inches, sexes similar, resident. Olive-brown above and olive-gray below with black-streaked gray ear coverts.

Habitat: Oak forest and grassy hollows.

Range: South-central Sri Lanka.

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



VIEILLOT'S WEAVER, *Ploceus nigerrimus* ssp. *castaneofuscus* Ploceidae
Sierra Leone, 2016 May 9, Sc#3747, 300le

Length: 7 inches, resident. The male (shown) is black with a chestnut-brown back and belly. The female is brownish above and buffy yellow below,

Habitat: Forest clearings, wooded regions, and tall-grass savanna.

Range: Gambia to southern Nigeria.

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



PURPLISH-MANTLED TANAGER, *Iridosornis porphyrocephalus*
Thraupidae

Incorrectly captioned *Bangsia melanochlamys* on the stamp. Previously appeared on a local issue from Bernera.

Colombia, 2018 January 23, not yet cataloged, 1000p

Length: 6 inches, sexes alike, resident. Dark blue with a yellow throat and buff and chestnut lower belly to undertail.

Habitat: Very wet forest and adjacent areas.

Range: Central Colombia to northwestern Ecuador.

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

the World, Volume 16.



GILT-EDGED TANAGER, *Tangara cyanoventris* Thraupidae
Cuba, 2017, not yet cataloged, 45p

Length: 5 inches, sexes similar, resident, Black-streaked green above and turquoise blue below with a yellow head and black around the bill and eyes, Habitat: Humid forest band forest borders.

Range: Eastern Brazil.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 16.



YELLOW-HEADED BRUSH-FINCH, *Atlapetes flaviceps* Emberizidae
Colombia, 2018 January 23, not yet cataloged, 1000p

Length: 7 inches, sexes alike, resident. Olive above and yellow below with a grizzled yellow head.

Habitat: Forest undergrowth and brushy areas on mountainsides.

Range: Eastern slope of the central Andes in Colombia.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 16.

BIRDPEX 8

BIRDPEX is a thematic philatelic exhibition that focuses on the Bird theme and takes place in a different city every four years.

BIRDPEX 8 will be held from 19–21 May 2018, in Mondorf-les-Bains, Luxembourg as part of the philatelic exhibition EXPHIMO 2018. The exhibition is celebrating the 60th Anniversary of Foundation of the Salon thematic philately Show hours are 10 AM to 6 PM on Saturday and Sunday, and 10 AM to 4 PM on Monday.



EXPHIMO is the annual thematic stamp exhibition of the Luxembourg Philatelic Association organized by PHILCOLUX, the thematic collector club. It is a national exhibition with international participation. The jury will judge the exhibits using *Fédération Internationale de Philatélie* (FIP) criteria for thematic exhibits.

At least five countries have already issued sets of stamps depicting birds that commemorate the BIRDPEX exhibition. One should expect that other countries will jump on board with more issues.



BIRDPEX 2018
Brazil, 2017, Sc#3352

On 19 June 2017, Brazil issued two horizontal strips of three stamps for BIRDPEX 8 depicting birds. The designs of each strip are similar, but the stamps are a different size. One strip (Sc#3352) is perf 12×11½ with water-activated gum and denominated 1.25r. The other strip (Sc#3353) is shorter, die cut 12¼, self-adhesive, and denominated 1st class postage (1.25r). The stamps show images of the following species:

Purple-winged Ground Dove (*Claravis geoffroyi*) a critically endangered species native to the Atlantic forest in southeastern Brazil, eastern Paraguay, and northeastern Argentina.

Blue-eyed Ground Dove (*Columbina cyanopis*) a threatened species endemic to the Cerrado region of Brazil. This bird was thought to be extinct until 12 birds were spotted in 2016.

Araripe Manakin (*Antilophia bokermanni*) a rare, critically endangered species that was not discovered until 1996. It is endemic to a very small area in the Araripe Uplands in northeast Brazil.



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.]

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ANTIGUA				
2016 May 25 (Reptiles) (MS/6, MS/4, & SS/1)				
3331a	\$3.15	Royal Python, <i>Python regius</i>	Pythonidae	A
3331b	\$3.15	White-lipped Pit Viper, <i>Trimeresurus albolabris</i> (☠)	Viperidae, Crotalinae	A
3331c	\$3.15	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A
3331d	\$3.15	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A
3331e	\$3.15	Spectacled Caiman, <i>Caiman crocodilus</i>	Alligatoridae	A
3331f	\$3.15	American Crocodile, <i>Crocodylus acutus</i>	Crocodylidae	A
3332a	\$3.25	Green Anole, <i>Anolis carolinensis</i>	Dactyloidae	A
3332b	\$3.25	Yellow-headed Dwarf Gecko, <i>Lygodactylus luteopicturatus</i>	Gekkonidae	A
3332c	\$3.25	Little Striped Whiptail, <i>Aspidoscelis inornata</i>	Teiidae	A
3332d	\$3.25	Giant Girdled Lizard, <i>Smaug giganteus</i>	Cordylidae	A
3333	SS \$10	Reunion (or Panther) Chameleon, <i>Furcifer pardalis</i>	Chamaeleonidae	A
2017 August 1 (Hawksbill Sea Turtle) (2ea MS/4)				
3381a	\$7	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i> (in reef)	Cheloniidae	A
3381b	\$7	Same species (on reef facing R & up)		A
3381c	\$7	Same species (facing front)		A
3381d	\$7	Same species (swimming R)		A
3381	Margin	L: Same species (swimming R & up)		Z
3382a	\$7	Same species (swimming straight ahead)		A
3382b	\$7	Same species (swimming L & down)		A
3382c	\$7	Same species (swimming R)		A
3382d	\$7	Same species (swimming L & up)		A
3382	Margin	L: Same species (swimming R & down)		Z
ARUBA				
2017 March 21 (Underwater Panorama) (MS/4)				
533b	130c	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	B
AUSTRALIA				
2017 June 13 (Scenes from Works by Henry Lawson) (SS/2 & Bklt/20)				
4641	\$1	Stylized snake (<i>The Drover's Wife</i>)		S
4642a		SS/2 (Sc#4641–42) (perf 14×14¾)		
4643	\$1	Stylized snake (<i>The Drover's Wife</i>)		S
4643a		Bklt/20 (Sc#4643) (die cut 11¼) (s/a)		
BHUTAN				
2017 January 1 (New Year: Year of Rooster) (MS/12 & SS/1)				
Note: Each of the stamps in the MS depicts a stylized image of one of the 12 Zodiac creature. Contained within the image is a silhouette of each of the other 11 Zodiac creatures.				
1569i	30nu	Stylized snake (Zodiac symbol)		S
1570	SS 60nu	Stylized snake (rooster image contains silhouette of each Zodiac creature)		S C

BOSNIA & HERZEGOVINA (Croat) 2016 November 1 (Frogs) (Block or Vert Strip/4)				
342a	2.10m	Yellow-Bellied Toad, <i>Bombina variegata</i>	Bombinatoridae	A
342b	2.10m	Fire-Bellied Toad, <i>Bombina bombina</i>	Bombinatoridae	A
342c	2.10m	Moor Frog, <i>Rana arvalis</i>	Ranidae	A
342d	2.10m	Greek (or Stream) Frog, <i>Rana graeca</i>	Ranidae	A
BULGARIA 2016 October 21 (WWF: Tortoise) (Block/4 & SS/4)				
4777	65s	Spur-thighed Tortoise, <i>Testudo graeca</i> (laying eggs)	Testudinidae	A
4778	80s	Same species (eggs hatching)		A
4779	1.40l	Same species (adult)		A
4780	3l	Same species (two adults)		A
4780a		Block/4 (Sc#4777–80) (perf 13)		
4781a	65s	Same species (laying eggs)		A
4781b	80s	Same species (eggs hatching)		A
4781c	1.40l	Same species (adult)		A
4781d	3l	Same species (two adults)		A
4781		SS/4 (Sc#4781a–d) (perf 13¼)		
COSTA RICA 2017 August 24 (Juan Castro Blanco National Park) (Single)				
688	1100col	Heredia Robber Frog, <i>Craugastor escoces</i>	Craugastoridae	A
CZECH REPUBLIC 2017 September 6 (Animals in Czech Republic Zoos) (MS/4+4 labels)				
3719c	24k	Blue Tree Monitor, <i>Varanus macraei</i>	Varanidae	A
ETHIOPIA 2016 October 27 (Snakes) (Set/4)				
1839	50c	Ethiopian (Abyssinian) House Snake, <i>Lamprophis abyssinicus</i>	Lamprophiidae	A
1840	1b	Same species	Lamprophiidae, Lamprophiinae	A
1841	2b	Ethiopian Blind Snake, <i>Rhinotyphlops somalicus</i> (Cap: <i>Letheobia somalica</i>)	Typhlopidae	A
1842	3b	Mountain Adder, <i>Bitis atropos</i> (♀)	Viperidae, Viperinae	A
FINLAND 2017 January 20 (Lions Clubs Intl Centenary) (SS/2)				
1532a	(€1.20)	Stylized alligator on Lions club pin		S C
KAZAKHSTAN 2017 August 7 (New Year: Year of Rooster) (SS/1)				
818	Margin	U/I tiny snake (Zodiac symbol)		U C Z
PERU 2017 January 27 (Oriental New Year) (2ea Horiz Pair)				
1915a	6.50\$	Stylized snake (Zodiac symbol) (Year of Ram)		S C
1916b	6.50\$	Stylized snake (Zodiac symbol) (Year of Monkey)		S C
2017 February 6 (Poisonous Frogs) (Set/4)				
1921	8s	Marañón Poison Frog, <i>Excidobates mysterosus</i> (♀)	Dendrobatidae, Dendrobatinae	A
1922	8s	Ruby Poison Frog, <i>Ameerega parvula</i> (♀)	Dendrobatidae, Colostethinae	A
1923	8s	Red-headed Poison Frog, <i>Ranitomeya fantastica</i> (♀)	Dendrobatidae	A
1924	8s	<i>Ameerega pongoensis</i> (♀)	Dendrobatidae, Colostethinae	A
RUSSIA 2017 April 4 (Turtles) (MS/4)				
7816a	35r	European Pond Turtle, <i>Emys orbicularis</i>	Emydidae, Emydinae	A
7816b	35r	Chinese Soft-shelled Turtle, <i>Pelodiscus sinensis</i>	Trionychidae	A
7816c	35r	Caspian Turtle, <i>Mauremys caspica</i>	Geoemydidae	A
7816d	35r	Mediterranean Spur-thighed Tortoise, <i>Testudo graeca</i>	Testudinidae	A
2017 May 17 (Fables) (Horiz Strip/4)				
7822b	35r	Stylized tortoise (“Tortoise and the Hare”)		S B

ST. THOMAS & PRINCE IS.		2016 January 11 (Biodiversity) (MS/8+1 label))	
3035a	1000d	Red-eared Slider, <i>Trachemys scripta</i> ssp. <i>elegans</i>	Emydidae, Deirochelyinae A
3035e	1000d	Green Tree Snakes, <i>Dendrelaphis punctulatus</i>	Colubridae A
		2016 March 30 (Turtles) (MS/4 & SS/1)	
3092a	31000d	False Map Turtle, <i>Graptemys pseudogeographica</i> ssp. <i>kohnii</i>	Emydidae, Deirochelyinae A
3092b	31000d	Red-eared Slider, <i>Trachemys scripta</i> ssp. <i>elegans</i>	Emydidae, Deirochelyinae A
3092c	31000d	Diamondback Terrapin, <i>Malaclemys terrapin</i>	Emydidae, Deirochelyinae A
3092d	31000d	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae A
	Margin	LL: Eastern Box Turtle, <i>Terrapene carolina</i>	Emydidae, Emydinae Z
3111	SS 96000d	Eastern Box Turtle, <i>Terrapene carolina</i> ssp. <i>carolina</i>	Emydidae, Emydinae A
	Margin	UR: U/I turtle (head only)	U Z
		ML: Red-eared Slider, <i>Trachemys scripta</i> ssp. <i>elegans</i>	Emydidae, Deirochelyinae Z
		Bot: Diamondback Terrapin, <i>Malaclemys terrapin</i>	Emydidae, Deirochelyinae Z
		2016 July 20 (Reptiles from Africa) (MS/4 & SS/1)	
3137a	31000d	Guinea Lidless Skink, <i>Afroablepharus africanus</i>	Scincidae, Eugongylyinae A
3137b	31000d	Manyscaled Feylinia, <i>Feylinia polylepis</i>	Scincidae, Scincinae A
3137c	31000d	São Tomé Wood Snake, <i>Philothamnus thomensis</i>	Colubridae, Colubrinae A
3137d	31000d	Principe Walled Gecko, <i>Hemidactylus principensis</i>	Gekkonidae A
3155	SS 96000d	East African Spiny-tailed Lizard, <i>Cordylus tropidosternum</i>	Cordylidae A
	Margin	LL & R: Panther chameleon, <i>Furcifer pardalis</i>	Chamaeleonidae Z
		2016 July 20 (Predators from Africa) (MS/4)	
3138a	31000d	West African Dwarf Crocodile, <i>Osteolaemus tetraspis</i>	Crocodylidae A
3138d	31000d	African Rock Python, <i>Python sebae</i>	Pythonidae, Henophidia A
		2016 September 12 (Turtles) (MS/4 & SS/1)	
3172a	31000d	Aldabra Giant Tortoise, <i>Aldabrachelys gigantea</i>	Testudinidae A
3172b	31000d	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae A
3172c	31000d	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae A
3172d	31000d	Agassiz's Desert Tortoise, <i>Gopherus agassizii</i>	Testudinidae A
3191	SS 96000d	Florida Box Turtle, <i>Terrapene carolina</i> ssp. <i>bauri</i>	Emydidae, Emydinae A
	Margin	L: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae A
ST. VINCENT		2016 May 26 (New York State Emblematic Items) (MS/6)	
4076f	\$3.15	Common Snapping Turtle, <i>Chelydra serpentina</i> (state reptile)	Chelydridae A
SIERRA LEONE		2015 May 22 (Pythons) (MS/6 & 2ea SS/1)	
3259a	4300le	African Rock Python, <i>Python sebae</i> (on tree branch)	Pythonidae, Henophidia A
3259b	4300le	Royal Python, <i>Python regius</i> (around tree-name on L)	Pythonidae, Henophidia A
3259c	4300le	African Rock Python, <i>Python sebae</i> (hanging from top)	Pythonidae, Henophidia A
3259d	4300le	African Rock Python, <i>Python sebae</i> (coiled on ground)	Pythonidae, Henophidia A
3259e	4300le	Royal Python, <i>Python regius</i> (around tree-name on R)	Pythonidae, Henophidia A
3259f	4300le	Royal Python, <i>Python regius</i> (on tree branch)	Pythonidae, Henophidia A
	Margin	UR: African Spurred Tortoise, <i>Centrochelys sulcata</i>	Testudinidae Z
3278	SS 10000le	Royal Python, <i>Python regius</i>	Pythonidae, Henophidia A
3297	SS 14000le	African Rock Python, <i>Python sebae</i>	Pythonidae, Henophidia A
		2015 May 22 (Turtles) (MS/6 & 2ea SS/1)	
3260a	4300le	Nubian Soft-shelled Turtle, <i>Cyclanorbis elegans</i>	Trionychidae A
3260b	4300le	Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae A
3260c	4300le	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae A
3261d	4300le	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae A
3260e	4300le	African Spurred Tortoise, <i>Centrochelys sulcata</i>	Testudinidae A
3260f	4300le	African Mud Turtle, <i>Pelusios castaneus</i>	Pelomedusidae A

SIERRA LEONE (continued)

3279	SS 10000le	West African Black Forest Turtle, <i>Pelusios niger</i>	Pelomedusidae	A
3298	SS 14000le	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A
The MS and each SS show the following species in their margins.				
	Margin	UL: African Spurred Tortoise, <i>Centrochelys sulcata</i>	Testudinidae	Z
		UR: West African Black Forest Turtle, <i>Pelusios niger</i>	Pelomedusidae	Z
		LR: Nile crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	A
2015 May 22 (Crocodiles) (MS/6 & 2ea SS/1)				
3261a	4300le	Nile crocodile, <i>Crocodylus niloticus</i> (attacking buffalo)	Crocodylidae	A
3261b	4300le	Same species (facing front-open mouth)		A
3261c	4300le	Same species (tail touch L frame) (also LR margin)		A
3261d	4300le	Same species (on bank)		A
3261e	4300le	Same species (swimming)		A
3261f	4300le	Same species (attacking zebra)		A
3280	SS 10000le	Nile crocodile, <i>Crocodylus niloticus</i> (also LL margin)	Crocodylidae	A
3299	SS 14000le	Nile crocodile, <i>Crocodylus niloticus</i> (also LL margin)	Crocodylidae	A
2015 August 21 (Snakes) (MS/4 & SS/1)				
3397a	5500le	Yellowbelly Sea Snake, <i>Hydrophis platurus</i>	Elapidae, Hydrophiinae	A
3397b	5500le	Rainbow Boa, <i>Epicrates cenchria</i>	Boidae, Boinae	A
3397c	5500le	Scarlet Milksnake, <i>Lampropeltis elapsoides</i>	Colubridae	A
3397d	5500le	Common Garter Snake, <i>Thamnophis sirtalis</i> ssp. <i>infernalis</i>	Colubridae, Natricinae	A
3417	SS 22000le	Ringneck Snake, <i>Diadophis punctatus</i> ssp. <i>regalis</i>	Colubridae, Dipsadinae	A
	Margin	R: Motuo Bamboo Pitviper, <i>Trimeresurus medoensis</i> (♀)	Viperidae	Z
2015 August 21 (Endangered Species) (MS/4)				
3400c	5500le	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A
2015 September 25 (Paul Sérusier Painting) (MS/4)				
3438c	6000le	Stylized snakes ("The Snake Eaters" painting)		S C
2016 January 28 (Lizards) (MS/4 & SS/1)				
3604a	6000le	Common Agama, <i>Agama agama</i>	Agamidae, Agaminae	A
3604b	6000le	Komodo Dragon, <i>Varanus komodoensis</i>	Varanidae, Platynota	A
3604c	6000le	Nile Monitor, <i>Varanus niloticus</i>	Varanidae, Platynota	A
3604d	6000le	Flapneck Chameleon, <i>Chamaeleo dilepis</i> (also L margin)	Chamaeleonidae	A
3624	SS 24000le	Armadillo Girdled Lizard, <i>Ouroborus cataphractus</i> (Cap: <i>Cordylus cataphractus</i>)	Cordylidae	A
	Margin	R: Komodo Dragon, <i>Varanus komodoensis</i>	Varanidae, Platynota	Z
2016 January 28 (Crocodiles) (MS/4 & SS/1)				
3605a	6000le	Nile Crocodile, <i>Crocodylus niloticus</i> (facing R)	Crocodylidae	A
3605b	6000le	Same species (facing front-mouth open) (also L margin)		A
3605c	6000le	Same species (facing L)		A
3605d	6000le	Same species (facing away)		A
3625	SS 24000le	Nile Crocodile, <i>Crocodylus niloticus</i> (also R margin)	Crocodylidae	A
2016 January 28 (Turtles) (MS/4 & SS/1)				
3606a	6000le	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A
3606b	6000le	Red-eared Slider, <i>Trachemys scripta</i> ssp. <i>elegans</i>	Emydidae, Deirochelyinae	A
3606c	6000le	European Pond Turtle, <i>Emys orbicularis</i>	Emydidae, Emydinae	A
3606d	6000le	Leopard Tortoise, <i>Stigmochelys pardalis</i>	Testudinidae	A
3626	SS 24000le	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A

SIERRA LEONE (continued)		2016 March 25 (Frogs) (MS/4 & SS/1)	
3680a	6000le	Panamanian Golden Frog, <i>Atelopus zeteki</i>	Bufonidae A
3680b	6000le	<i>Heterixalus alboguttatus</i>	Hyperoliidae A
3680c	6000le	Yellow Treefrog, <i>Dendropsophus microcephalus</i>	Hylidae, Hylinae A
3680d	6000le	Rainforest Rocket Frog, <i>Silverstoneia flotator</i>	Dendrobatidae, Colostethinae A
	Margin	UR: Pool Frog, <i>Pelophylax lessonae</i>	Ranidae Z
3700	SS 24000le	Pool Frog, <i>Pelophylax lessonae</i>	Ranidae A
	Margin	ML: U/I frog	U Z
		Bot & LR: Yellow Treefrog, <i>Dendropsophus microcephalus</i>	Hylidae, Hylinae Z
		MR: Panamanian Golden Frog, <i>Atelopus zeteki</i>	Bufonidae Z
		2016 March 25 (Crocodiles) (MS/4 & SS/1)	
3681a	6000le	Saltwater Crocodile, <i>Crocodylus porosus</i> (on bank)	Crocodylidae A
3681b	6000le	Saltwater Crocodile, <i>Crocodylus porosus</i> (eye only)	Crocodylidae A
3681c	6000le	Gharial, <i>Gavialis gangeticus</i>	Gavialidae A
3681d	6000le	Cuban crocodile, <i>Crocodylus rhombifer</i>	Crocodylidae A
	Margin	Top: Gharial, <i>Gavialis gangeticus</i>	Gavialidae Z
		MR: American Crocodile, <i>Crocodylus acutus</i>	Crocodylidae Z
3701	SS 24000le	Cuban Crocodile, <i>Crocodylus rhombifer</i> (also on margin)	Crocodylidae A
	Margin	Top: Philippine Crocodile, <i>Crocodylus mindorensis</i>	Crocodylidae Z
		ML: Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae Z
		Ctr: Saltwater Crocodile, <i>Crocodylus porosus</i>	Crocodylidae Z
		LR: Orinoco Crocodile, <i>Crocodylus intermedius</i>	Crocodylidae Z
		2016 March 25 (Water Snakes) (MS/4 & SS/1)	
3682a	6000le	Rice Paddy Snake, <i>Enhydryis plumbea</i> (♀)	Homalopsidae A
3682b	6000le	Southern Water Snake, <i>Nerodia fasciata</i>	Colubridae, Natricinae A
3682c	6000le	Brown-banded Water Snake, <i>Helicops angulatus</i>	Colubridae, Dipsadinae A
3682d	6000le	Puff-faced Water Snake, <i>Homalopsis buccata</i>	Homalopsidae A
	Margin	LL: Eastern Water Snake, <i>Sinonatrix percarinata</i>	Colubridae Z
		LR: Green Water Snake, <i>Nerodia cyclopion</i>	Colubridae Z
3702	SS 24000le	Dog-faced Water Snake, <i>Cerberus rynchops</i>	Homalopsidae A
	Margin	UL: Plain-bellied Water Snake, <i>Nerodia erythrogaster</i>	Colubridae Z
		LL: Water Moccasin, <i>Agkistrodon piscivorus</i> (♀)	Viperidae Z
		LR: Banded Water Snake, <i>Nerodia fasciata</i>	Colubridae Z
		2016 March 25 (Turtles) (MS/4 & SS/1)	
3683a	6000le	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i> (also Ctr margin)	Cheloniidae A Z
3683b	6000le	Green Sea Turtle, <i>Chelonia mydas</i> (facing front)	Cheloniidae A
3683c	6000le	Same species (facing left)	A
3683d	6000le	Same species (head only)	A
3703	SS 24000le	Green Sea Turtle, <i>Chelonia mydas</i> (also L margin)	Cheloniidae A Z
		2016 May 27 (African National Parks) (MS/4 & SS/1)	
3775b	6000le	Kenyan Rock Agama, <i>Agama lionotus</i> ssp. <i>elgonis</i>	Agamidae, Agaminae A
3775		MS/4 (Sc#3775a–d) Ruaha National Park Tanzania	
3776a	6000le	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae A
3776		MS/4 (Sc#3776a–d) Selous National Park Tanzania	
3777c	6000le	Common Agama, <i>Agama agama</i>	Agamidae, Agaminae A
3777d	6000le	Flapneck Chameleon, <i>Chamaeleo dilepis</i>	Chamaeleonidae A
3777		MS/4 (Sc#3777a–d) Serengeti National Park Tanzania	
3787	SS 24000le	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae A
3790	SS 24000le	Saber-toothed Frog, <i>Petropedetes natator</i>	Petropedetidae A
3796	SS 24000le	LR: Flapneck Chameleon, <i>Chamaeleo dilepis</i>	Chamaeleonidae Z

SIERRA LEONE (continued)		2016 July 29 (Wilhelm Carl Grimm Fairy Tales) (MS/4)		
3845d	6000le	Stylized frog (scene from <i>The Frog Prince</i>)		S
		2016 December 29 (Turtles) (MS/4 & SS/1)		
4062a	6000le	Common Musk Turtle, <i>Sternotherus odoratus</i>	Kinosternidae	A
4062b	6000le	Mediterranean Spur-thighed Tortoise, <i>Testudo graeca</i>	Testudinidae	A
4062c	6000le	Charles Island Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	A
4062d	6000le	African Spurred Tortoise, <i>Centrochelys sulcata</i>	Testudinidae	A
4081	SS 24000le	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A
	Margin	R: Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	Z
		Bot: Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	Z
		2016 December 29 (Endangered Species) (MS/4)		
4064a	6000le	Panamanian Golden Frog, <i>Atelopus zeteki</i>	Bufoidea	A
SOLOMON ISLANDS		2016 August 1 (50th Death Anniv. Walt Disney) (MS/4)		
2033b	\$12	U/I chameleon (drawing)		U B
		2016 December 1 (Turtles) (MS/4 & SS/1)		
2138a	\$12	Bot: Ringed Map Turtle, <i>Graptemys oculifera</i>	Emydidae, Deirochelyinae	B
		Top: Chinese Softshell Turtle, <i>Pelodiscus sinensis</i>	Trionychidae	B
2138b	\$12	Star Tortoise, <i>Geochelone elegans</i>	Testudinidae	A
2138c	\$12	South-American Snake-headed Turtle, <i>Hydromedusa tectifera</i>	Chelidae	A
2138d	\$12	Indian Roofed Turtle, <i>Pangshura tecta</i>	Geoemydidae	A
2156	SS \$40	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A
	Margin	Bot: Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	Z
		2016 December 12 (Australian Crocodiles) (MS/4 & SS/1)		
2179a	\$12	Saltwater Crocodile, <i>Crocodylus porosus</i> (facing R)	Crocodylidae	A
2179b	\$12	Johnstone River Crocodile, <i>Crocodylus johnstoni</i> (near water)	Crocodylidae	A
2179c	\$12	Johnstone River Crocodile, <i>Crocodylus johnstoni</i> (mouth open)	Crocodylidae	A
2179d	\$12	Saltwater Crocodile, <i>Crocodylus porosus</i> (facing L)	Crocodylidae	A
2204	SS \$40	Saltwater Crocodile, <i>Crocodylus porosus</i> (also R & Bot margin)	Crocodylidae	A Z
		2016 December 12 (Australian Endangered Species) (MS/4 & SS/1)		
2180b	\$12	Green & Golden Bell Frog, <i>Litoria aurea</i>	Hylidae, Hylinae	A
2180d	\$12	Marble-faced Delma, <i>Delma australis</i>	Pygopodidae	A
2205	SS \$40	Bot: Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	Z
		2017 May 15 (Turtles) (MS/4 & SS/1)		
2298a	\$10	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A
2298b	\$10	Green Sea Turtle, <i>Chelonia mydas</i> (swimming down)	Cheloniidae	A
2298c	\$10	Green Sea Turtle, <i>Chelonia mydas</i> (swimming up)	Cheloniidae	A
2298d	\$10	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A
	Margin	LL: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z
2313	SS \$40	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A
	Margin	Bot: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z
		2017 September 4 (Turtles) (MS/4 & SS/1)		
2390a	\$10	Yellow-footed Tortoise, <i>Chelonoidis denticulate</i>	Testudinidae	A
2390b	\$10	Hermann's Tortoise, <i>Testudo hermanni</i>	Testudinidae	A
2390c	\$10	Leopard Tortoise, <i>Stigmochelys pardalis</i>	Testudinidae	A
2390d	\$10	Radiated Tortoise, <i>Astrochelys radiata</i>	Testudinidae	A
2415	SS \$40	Charles Island Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	A
	Margin	LL: Charles Island Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	Z

TOKELAU**2017 September 20** (Reptiles) (Set/4 & SS/4)

477	45c	Moth Skink, <i>Lipinia noctua</i>	Scincidae, Sphenomorphinae	A
478	\$1.40	Pelagic Gecko, <i>Nactus pelagicus</i>	Gekkonidae	A
479	\$2	Copper-tailed Skink, <i>Emoia cyanura</i>	Scincidae, Eugongylinae	A
480	\$3	Black Emo Skink, <i>Emoia nigra</i>	Scincidae, Eugongylinae	A
480a		SS/4 (Sc#477–80)		

UNITED NATIONS**2017 May 11** (Endangered Species) (Block/4)

1162	\$1.15	Masobe Gecko, <i>Paroedura masobe</i>	Gekkonidae	A
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UNITED NATIONS (Geneva)**2017 May 11** (Endangered Species) (Block/4)

632	1.50fr	Spiny Pygmy Chameleon, <i>Rhampholeon spinosus</i>	Chamaeleonidae	A
635	1.50fr	Marbled Rain Frog, <i>Scaphiophryne marmorata</i>	Microhylidae, Scaphiophryninae	A

UNITED NATIONS (Vienna)**2017 May 11** (Endangered Species) (Block/4)

604	80c	Williams' Dwarf Gecko, <i>Lygodactylus williamsi</i>	Gekkonidae	A
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VIRGIN ISLANDS**2017 September 6** (Turtles) (Vert Strip/5 & SS/1)

1184	4c	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A
1185	15c	Green Sea Turtle, <i>Chelonia mydas</i> (head)	Cheloniidae	A
1186	20c	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A
1187	85c	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A
1188	\$2.75	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i> (head)	Cheloniidae	A
1188a		Vert Strip/5 (Sc#1184–88)		
1189	SS \$5	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i> (head)	Cheloniidae	A

ENDANGERED SPECIES NEW ISSUE

On 16 January 2018, the Central African Republic (through Stamperija) issued a MS/4 and SS/1 depicting Endangered Species. The stamp on the SS shows a pair of Siberian Sturgeon (*Acipenser baerii*).

These fish inhabit the major Siberian rivers. They are a source of caviar and can weigh as much as 143 pounds (65 kg). They are in decline due mainly to habitat loss and poaching.

Shown on the margin of the sheet are images of the famous Galápagos Marine Iguana (*Amblyrhynchus cristatus*). These reptiles are unique among modern lizards by the ability to forage in the sea.

There are several subspecies that vary among the different islands. These animals are vulnerable due to their small range and lack of protection from introduced predators.





ICHTHYOLOGY

Associate Editor

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New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
COLOMBIA		2016 August 11 (Malpelo Fauna & Flora Sanctuary) (MS/6+6 labels)		
1439	2000p	U/I Shark sp.		U B
	Label	Whale Shark, <i>Rhincodon typus</i>	Rhincodontidae	Z
	Label	Silky Shark, <i>Carcharhinus falciformis</i>	Carcharhinidae	Z
	Label	Scalloped Hammerhead, <i>Sphyrna lewini</i>	Sphyrnidae	Z
	Label	Malpelo Barnacle Blenny, <i>Acanthemblemaria stephensi</i>	Chaenopsidae	Z
GREECE (Mount Athos)		2017 July 27 (Monastery Scenes) (Set/7+7 labels)		
200	€1.62	Fish hooked on line (label)		C Z
MONACO		2017 August 21 (Underwater Exploration Initiative) (SS/3)		
2902a	85c	Diver w/fish in bkgrd		U C
2902b	85c	Submarine w/fish in bkgrd		U C
2902	Margin	LR: U/I reef fish		U Z
PITCAIRN ISLANDS		2017 July 26 (Marine Reserve) (MS/8)		
832a	\$1	Titan Triggerfish, <i>Balistoides viridescens</i>	Balistidae	A
832b	\$1	Pitcairn Angelfish, <i>Genicanthus spinus</i>	Pomacanthidae	A
832c	\$1	Whitetip Reef Shark, <i>Triaenodon obesus</i>	Carcharhinidae	A
832d	\$1	Multibar (Manybar) Goatfish, <i>Parupeneus multifasciatus</i>	Mullidae	A
832e	\$2	Whitemouth (Guineafowl) Moray, <i>Gymnothorax meleagris</i>	Muraenidae	A
832f	\$2	Lyretail Hogfish, <i>Bodianus anthioides</i>	Labridae	A
832g	\$2	Yellow-edged Lyretail, <i>Variola louti</i>	Serranidae	A
832h	\$2	Peacock (Bluespotted) Grouper, <i>Cephalopholis argus</i>	Serranidae	A
832	Margin	Numerous U/I fish (also in stamp backgrounds)		U Z
ST. PIERRE & MIQUELON		2017 May 22 (Cod Filleting) (Single)		
1046	85c	Atlantic Cod, <i>Gadus morhua</i> (w/ fishermen)	Gadidae	C
ST. THOMAS & PRINCE IS.		2016 January 11 (Biodiversity) (SS/8+1 label)		
3035h	1000d	U/I fish (head)		U A
		2016 March 30 (Philatapei World Exhibition) (MS/4)		
3077c	31000d	Taiwan Ku Fish, <i>Onychostoma alticorpus</i>	Cyprinidae	A
		2016 July 20 (Bears) (MS/4 & SS/1)		
3122d	31000d	U/I fish (in bear's mouth)		U C
3140	SS 96000d	U/I trout (in bear's mouth)		U C
	Margin	U/I jumping trout (w/ bears)		U Z
		2016 July 20 (Arctic Fish) (MS/4 & SS/1)		
3136a	31000d	Northern Pike, <i>Esox lucius</i>	Esocidae	A
3136b	31000d	Burbot, <i>Lota lota</i>	Lotidae	A
3136c	31000d	Three-spined Stickleback, <i>Gasterosteus aculeatus</i>	Gasterosteidae	A
3136d	31000d	Chum Salmon, <i>Oncorhynchus keta</i>	Salmonidae	A
	Margin	MR: U/I salmon sp.	Salmonidae	U Z
		LR: U/I fish		U Z

ST. THOMAS & PRINCE IS. (continued)

3154	SS 96000d	Arctic Char, <i>Salvelinus alpinus</i>	Salmonidae	A
	Margin	LL & LR: Northern Pike, <i>Esox lucius</i>	Esocidae	Z
		MR: U/I fish (w/ native fishermen)		U Z

2016 September 12 (Stamps-on-Stamps) (MS/4)

3159d	31000d	U/I fish (on stamp in bkgd)		U C
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2016 September 12 (Fish & Corals) (MS/4 & SS/1)

3170a	31000d	Conspicuous Angelfish, <i>Chaetodontoplus conspicillatus</i>	Pomacanthidae	A
3170b	31000d	Palette Surgeonfish, <i>Paracanthurus hepatus</i>	Acanthuridae	A
3170c	31000d	Longspine Squirrelfish, <i>Holocentrus rufus</i>	Holocentridae	A
3170d	31000d	Rusty Parrotfish, <i>Scarus ferrugineus</i>	Scaridae	A
3189	SS 96000d	Clown Triggerfish, <i>Balistoides conspicillum</i>	Balistidae	A
	Margin	UL: Japan Surgeonfish, <i>Acanthurus japonicus</i>	Acanthuridae	Z
		Ctr: Copperband Butterflyfish, <i>Chelmon rostratus</i>	Chaetodontidae	Z
		LL & LR: Tomato Clownfish, <i>Amphiprion frenatus</i>	Pomacentridae	Z
		Bot: Gray Angelfish, <i>Pomacanthus arcuatus</i>	Pomacanthidae	Z

2016 September 12 (Birds of Prey) (SS/1)

3187	SS 96000d	U/I fish (in talons of <i>Pandion haliaetus</i>)		U C
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ST. VINCENT & GRENADINES **2016 May 26** (New York State Emblematic Items) (MS/6)

4076d	\$3.15	Striped bass, <i>Morone saxatilis</i> (state fish)	Moronidae	A
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2016 November 17 ("Temptation of St. Anthony") (MS/4)

4092c	\$5.50	Man and woman riding fish		S B
4092d	\$5.50	U/I fish and demons		S B

SIERRA LEONE**2015 May 22** (African Fish Eagle) (MS/6)

3255d	4300le	U/I fish (in eagle's talons)		U C
3293	SS 14000le	U/I fish (in eagle's talons)		U C

2015 June 26 (Jacques-Yves Cousteau) (MS/4)

3302b	3500le	U/I shark (w/ Monaco Oceanographic Museum)		U B
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2015 August 21 (Tropical Fish) (MS/4 & SS/1)

3395a	5500le	Emperor Angelfish, <i>Pomacanthus imperator</i>	Pomacanthidae	A
3395b	5500le	Clown Anemonefish, <i>Amphiprion ocellaris</i>	Pomacentridae	A
3395c	5500le	Palette Surgeonfish, <i>Paracanthurus hepatus</i>	Acanthuridae	A
3395d	5500le	Bluecheek Butterflyfish, <i>Chaetodon semilarvatus</i>	Chaetodontidae	A
	Margin	UL: Stylized fish silhouettes		S Z
3415	SS 22000le	Mandarinfish, <i>Synchiropus splendidus</i>	Callionymidae	A
	Margin	Top: Stylized fish silhouettes		S Z
		UR: Copperband Butterflyfish, <i>Chelmon rostratus</i>	Chaetodontidae	Z
		LR: Royal Angelfish, <i>Pygoplites diacanthus</i>	Pomacanthidae	Z

2015 October 23 (African Penguins) (MS/4)

3463c	6000le	U/I fish (w/ penguins)		U C
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2015 December 21 (Scuba Diving & Sport Fishing) (MS/4 & SS/1)

3548a	6000le	U/I fish (w/ scuba divers)		U C
3548b	6000le	Common Dolphinfish, <i>Coryphaena hippurus</i> (w/ fisherman)	Coryphaenidae	B
3548c	6000le	Yellowfin Tuna, <i>Thunnus albacares</i> (w/ fisherman)	Scombridae	B
3548d	6000le	Blue Marlin, <i>Makaira nigricans</i> (w/ scuba diver)	Istiophoridae	B

SIERRA LEONE (continued)

3568	SS 24000le	Red Snapper, <i>Lutjanus campechanus</i> (w/ fisherman)	Lutjanidae	B
	Margin	MR: Indo-Pacific Sailfish, <i>Istiophorus platypterus</i>	Istiophoridae	Z
		LR: Indo-Pacific Tarpon, <i>Megalops cyprinoides</i>	Megalopidae	Z
2016 January 28 (Fish) (MS/4 & SS/1)				
3603a	6000le	Copperband Butterflyfish, <i>Chelmon rostratus</i>	Chaetodontidae	A
3603b	6000le	Spotted Scat, <i>Scatophagus argus</i>	Scatophagidae	A
3603c	6000le	Powderblue Surgeonfish, <i>Acanthurus leucosternon</i>	Acanthuridae	A
3603d	6000le	Sailfin Snapper, <i>Symphoricichthys spilurus</i>	Lutjanidae	A
	Margin	L: Sergeant Major, <i>Abudefduf saxatilis</i>	Pomacentridae	Z
3623	SS 24000le	Bluering Angelfish, <i>Pomacanthus annularis</i>	Pomacanthidae	A
	Margin	R: Red Lionfish, <i>Pterois volitans</i>	Scorpaenidae	Z
2016 March 25 (Marine Life: Hippopotamus) (MS/4 & SS/1)				
3668	Margin	Bot: U/I reef fish & seahorse (w/ hippos)		U Z
3688	SS 24000le	Bot: U/I reef fish & seahorse (w/ hippos) (like Sc#3668)		U Z
2016 March 25 (Marine Life: Dolphins) (MS/4 & SS/1)				
3670	Margin	Bot: U/I reef fish & seahorse (w/ dolphins) (like Sc#3668)		U Z
3690	SS 24000le	Bot: U/I reef fish & seahorse (w/ dolphins) (same as Sc#3668)		U Z
2016 March 25 (Marine Life: Whales) (MS/4 & SS/1)				
3671	Margin	Bot: U/I reef fish & seahorse (w/ whales) (like Sc#3668)		U Z
3691	SS 24000le	Bot: U/I reef fish & seahorse (w/ whales) (like Sc#3668)		U Z
2016 March 25 (Marine Life: Kingfishers) (MS/4 & SS/1)				
3673a	6000le	U/I fish (in kingfisher's beak)		U B
	Margin	Bot: U/I reef fish (w/ kingfishers)		U Z
3693	SS 24000le	U/I fish (in kingfisher's beak)		U B
	Margin	Bot: U/I reef fish (w/ kingfishers) (like Sc#3673)		U Z
2016 March 25 (Marine Life: Sharks) (MS/4 & SS/1)				
3676a	6000le	Mako (Shortfin), <i>Isurus oxyrinchus</i>	Lamnidae	A
3676b	6000le	Friiled Shark, <i>Chlamydoselachus anguineus</i>	Chlamydoselachidae	A
3676c	6000le	Scalloped Hammerhead, <i>Sphyrna lewini</i>	Sphyrnidae	A
3676d	6000le	Thresher (Pelagic) Shark, <i>Alopias pelagicus</i>	Alopiidae	A
	Margin	LL: Great White (White), <i>Carcharodon carcharias</i>	Lamnidae	Z
		Ctr: Whale Shark, <i>Rhincodon typus</i>	Rhincodontidae	Z
		Bot: U/I reef fish & seahorse (w/ sharks)		U Z
3696	SS 24000le	Great White (White), <i>Carcharodon carcharias</i>	Lamnidae	A
	Margin	UL: Scalloped Hammerhead, <i>Sphyrna lewini</i>	Sphyrnidae	Z
		MR: Thresher (Pelagic) Shark, <i>Alopias pelagicus</i>	Alopiidae	Z
		Bot: U/I reef fish & seahorse (w/ sharks) (like Sc#3676)		U Z
2016 March 25 (Marine Life: Piranhas) (MS/4 & SS/1)				
3677a	6000le	Black Spot Piranha, <i>Pygocentrus cariba</i>	Serrasalminidae	A
3677b	6000le	Red (Red-bellied) Piranha, <i>Pygocentrus nattereri</i>	Serrasalminidae	A
3677c	6000le	San Francisco Piranha, <i>Pygocentrus piraya</i>	Serrasalminidae	A
3677d	6000le	no common name, <i>Serrasalmus sanchezi</i>	Serrasalminidae	A
	Margin	ML & Ctr: two U/I piranha sp.	Serrasalminidae	U Z
		Bot: U/I reef fish & seahorse (w/ piranhas) (like Sc#3668)		U Z
3697	SS 24000le	Black Spot Piranha, <i>Pygocentrus cariba</i>	Serrasalminidae	A
	Margin	L & Ctr: three U/I piranha sp.	Serrasalminidae	U Z
		Bot: U/I reef fish & seahorse (w/ piranhas) (like Sc#3668)		U Z

SIERRA LEONE (continued) **2016 March 25** (Marine Life: Goldfish Hybrids) (MS/4 & SS/1)

3678a	6000le	Butterfly Tail, <i>Carassius auratus</i>	Cyprinidae	A
3678b	6000le	Veiltail, <i>Carassius auratus</i>	Cyprinidae	A
3678c	6000le	Red cap Oranda, <i>Carassius auratus</i>	Cyprinidae	A
3678d	6000le	Ryukin, <i>Carassius auratus</i>	Cyprinidae	A
	Margin	ML: Telescope, <i>Carassius auratus</i>	Cyprinidae	Z
		Bot: Celestial Eye, <i>Carassius auratus</i>	Cyprinidae	Z
		Ctr: Goldfish, <i>Carassius auratus</i>	Cyprinidae	Z
3698	SS 24000le	Bubble Eye, <i>Carassius auratus</i>	Cyprinidae	A
	Margin	UL: Chocolate Oranda, <i>Carassius auratus</i>	Cyprinidae	Z
		Top: Single-tailed Comet, <i>Carassius auratus</i>	Cyprinidae	Z
		Ctr: Comet, <i>Carassius auratus</i>	Cyprinidae	Z
		MR: Blue Mustard Butterfly, <i>Carassius auratus</i>	Cyprinidae	Z
		LR: Veiltail, <i>Carassius auratus</i>	Cyprinidae	Z

2016 March 25 (Marine Life: Fishes) (MS/4 & SS/1)

3679a	6000le	R: Firefish OB Blueberry (hybrid), <i>Alonocara</i> sp.	Cichlidae	B
		L: Dragon Blood Peacock Cichlid (hybrid), <i>Aulonocara</i> sp.	Cichlidae	U B
3679b	6000le	Siamese Fighting Fish, <i>Betta splendens</i>	Osphronemidae	A
3679c	6000le	Leopard Skin Discus, <i>Symphysodon</i> sp.	Cichlidae	U A
3679d	6000le	Freshwater Angelfish, <i>Pterophyllum scalare</i>	Cichlidae	A
	Margin	LL: U/I black goldfish	Cyprinidae	U Z
		Ctr & Bot: U/I reef fish		U Z
		LR: Telescope, <i>Carassius auratus</i>	Cyprinidae	Z
3699	SS 24000le	Orange Head, <i>Geophagus</i> sp. (Cap: <i>Geophagus tapajos</i>)	Cichlidae	U A
	Margin	UL: Siamese Fighting Fish, <i>Betta splendens</i>	Osphronemidae	Z
		Ctr & LR: U/I reef fish		U Z
		MR: Leopard Skin Discus, <i>Symphysodon</i> sp.	Cichlidae	U Z

2016 March 25 (Marine Life: Sea Turtles) (MS/4 & SS/1)

3683	Margin	Bot: U/I reef fish & seahorse (w/ sea turtles) (like Sc#3668)		U Z
3703	SS 24000le	Bot: U/I reef fish & seahorse (w/ sea turtles) (like Sc#3668)		U Z

2016 May 27 (Mudumu National Park) (MS/4)

3770d	6000le	Tiger Fish, <i>Hydrocynus vittatus</i>	Alestidae	A
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2016 July 29 (70th Birthday Steven Spielberg) (MS/4)

3856a	6500le	Great White (White), <i>Carcharodon carcharias</i> (<i>Jaws</i> scene)	Lamnidae	B
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2016 August 29 (Birds of Prey) (MS/4 & SS/1)

3891c	6000le	U/I fish (in bird's talons)		U B
3911	SS Margin	UR: U/I fish (in bird's talons)		U Z

2016 November 28 (Charles Darwin) (MS/4)

4021c	6000le	U/I fish (drawing)		U C
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2016 December 29 (Dugongs) (MS/4)

4053d	6000le	U/I fish (w/ dugong)		U C
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2016 December 29 (Reef Fish) (MS/4 & SS/1)

4060a	6000le	Threespot Damselfish, <i>Stegastes planifrons</i>	Pomacentridae	A
4060b	6000le	Spanish Hogfish, <i>Bodianus rufus</i>	Labridae	A
4060c	6000le	Twospot Surgeonfish, <i>Ctenochaetus binotatus</i>	Acanthuridae	A
4060d	6000le	Palette Surgeonfish, <i>Paracanthurus hepatus</i>	Acanthuridae	A

SIERRA LEONE (continued)

4079	SS 24000le	Japan Surgeonfish, <i>Acanthurus japonicas</i>	Acanthuridae	A
	Margin	UR: Arabian Angelfish, <i>Pomacanthus asfur</i>	Pomacanthidae	Z
		MR: Seychelles Butterflyfish, <i>Chaetodon madagascariensis</i>	Chaetodontidae	Z
		LR: Raccoon Butterflyfish, <i>Chaetodon lunula</i>	Chaetodontidae	Z
		LL: Orange Band Surgeonfish, <i>Acanthurus olivaceus</i>	Acanthuridae	Z

2016 December 29 (Corals) (MS/4 & SS/1)

4061a	6000le	U/I Clownfish sp. (w/ soft coral)	Pomacentridae	U B
4061b	6000le	U/I Angelfish sp. (w/ coral)	Pomacentridae	U B
4061c	6000le	U/I Angelfish sp. (w/ coral)	Pomacentridae	U B
4061d	6000le	U/I Clownfish sp. (w/ soft coral)	Pomacentridae	U B
4080	SS 24000le	U/I Clownfish sp. (w/ soft coral)	Pomacentridae	U B
	Margin	MR: U/I Triggerfish sp.	Balistidae	U Z

SOLOMON ISLANDS**2017 August 21** (Stamps-on-Stamps) (SS/1)

2362	SS Margin	U/I fish (in bird's talons) (behind person's finger)		U Z
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2017 September 4 (Reef Fish) (MS/4 & SS/1)

2388a	\$10	Palette Surgeonfish, <i>Paracanthurus hepatus</i>	Acanthuridae	A
2388b	\$10	Yellow Tang, <i>Zebrasoma flavescens</i>	Acanthuridae	A
2388c	\$10	Ribbontail Stingray, <i>Taeniura lymma</i>	Dasyatidae	A
2388d	\$10	Red Discus, <i>Symphysodon discus</i>	Cichlidae	A
2413	SS \$40	Clown Anemonefish, <i>Amphiprion ocellaris</i>	Pomacentridae	A
	Margin	Bot: Clown Triggerfish, <i>Balistoides conspicillum</i>	Balistidae	Z
		UL: Sailfin Flyingfish, <i>Parexocoetus brachypterus</i>	Exocoetidae	Z

NEW DEFINITIVE ISSUE

On 19 January 2018, the United States Postal Service issued a new two-cent definitive stamp at the Winter 2018 Stampfest and Postcard Show in Kenner, Louisiana. The stamp shows an image of a Meyer Lemon (*Citrus × meyeri*). The image is based on a pen and ink and watercolor illustration by John Burgoyne that depicts a whole lemon next to two slices of the cut fruit.

The fruit, which is believed to be a cross between a lemon and a mandarin, is commonly grown in China as a dwarf ornamental tree. It was introduced to the United States in 1908 by Frank Nicholas Meyer, an employee of the United States Department of Agriculture.

It became a popular food item after being rediscovered by chefs in the 1990s. The trees produce fruit throughout the year.

The stamps were designed by Derry Noyes, an art director with the USPS. The self-adhesive stamps were printed by Banknote Corporation of America using offset lithography and microprint on non-phosphor paper in coil rolls of 10,000. A plate number appears at the bottom of every 28th stamp. Collectors can order coil strips of 500 from Stamp Fulfillment Services (order number 760415).





ENTOMOLOGY

Editor

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



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AITUTAKI 2017 December 8 (National Geographic Animals) (Block/4)				
662a	\$2.50	Great Eggfly, <i>Hypolimnas bolina</i> L.	NYM, Nymphalinae	A
662b	\$2.50	Blue-Spotted Charaxes, <i>Charaxes cithaeron</i> C&R Felder	NYM, Charaxinae	A
662c	\$2.50	Karner Blue, <i>Plebejus melissa</i> ssp. <i>samuelis</i> Nabokov	LYC, Polyommatae	A
662d	\$2.50	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A
BELARUS 2017 January 3 (Postcrossing) (Single)				
1025	(1.17r)	Stylized butterfly	Lepidoptera	S
CENTRAL AFRICA 1973 August 1 (Caterpillars) (Set/3) (new data)				
191	5fr	Oleander Hawkmoth, <i>Daphnis nerii</i> L. (larva) (Cap: Piwili)	SPH, Macroglossinae	A
1985 December 3 (Columbus) (SS/1) (new data)				
n/a	SS 600fr	LR: two U/I butterflies	Lepidoptera	U Z
1993 October 20 (Biodiversity) (Set/2) (new data)				
1022	130fr	Giant Goliath Beetle, <i>Goliathus goliatus</i> Drury	SCA, Dynastinae	B
CHINA (Taiwan) 2017 June 29 (Scenes from "The Dream of Red Mansions") (Set/4)				
4361	\$5	Tiny U/I butterfly at UL on stamp	Lepidoptera	U C
CUBA 2016 December 15 (National Parks: Pico Turquino) (Set/4)				
5881	40c	Lesser False Fritillary, <i>Anetia briarea</i> ssp. <i>numidia</i> Hübner	NYM, Heliconiinae	A
2017 February 1 (Honeybees) (Set/7)				
	5c	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
	20c	Eastern Honeybee, <i>Apis cerana</i> Enderlein	API, Apinae	A
	65c	Italian Honeybee, <i>Apis mellifera</i> ssp. <i>ligustica</i> Spinola	API, Apinae	A
	75c	Carnolian Honeybee, <i>Apis mellifera</i> ssp. <i>carnica</i> Pollman	API, Apinae	A
	85c	Egyptian Honeybee, <i>Apis mellifera</i> ssp. <i>lamarckii</i> Cockerell	API, Apinae	A
	90c	Patchwork Leaf-Cutter, <i>Megachile centuncularis</i> L. ♀	MEGA, Megachilinae	A
	1p	Western Honeybee, <i>Apis mellifera</i> ssp. <i>mellifera</i> L. (also margin)	API, Apinae	A Z
CYPRUS 2014 August 1 (Surcharges) (Set/3)				
1213	€1	Butterfly costume like ? <i>Idea</i> sp. (Sc#1202 surch) LR: possible? Wasp (on stamp)	NYM, Danainae Hymenoptera	S U C
DJIBOUTI 2017 July 28 (Red Cross: Malaria) (SS/1)				
1253	SS 950fr	<i>Anopheles maculipennis</i> Meigen	CUL, Anophelinae	C
FAROE ISLANDS 2018 February 26 (Flies) (MS/4)				
	12k	Blue-bottle Fly, <i>Protophormia terraenovae</i> Robineau-Desvoidy	Calliphoridae, Chrysomyinae	
	12k	Heather Fly, <i>Bibio pomonae</i> Fabr.	Bibionidae, Bibioninae	A
	12k	Golden or Yellow Dung Fly, <i>Scathophaga stercoraria</i> L.	Scathophagidae, Scathophaginae	A
	12k	House Fly, <i>Musca domestica</i> L.	MUS, Muscinae	A
FRANCE 2017 August 5 (Cuisine) (Bklt/12)				
5287	(73c)	Honey from Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	R

FRANCE (continued)**2017 November 9** (Stitching) (SS/2)

a	85c	Stylized <i>Troides</i> sp.	PAP, Papilioninae	S
	Margin	Ctr: Stylized butterfly	Lepidoptera	S Z

FRENCH SOUTHERN & ANTARCTIC TERR. **2018 January 2** (Single)

€1.55	<i>Ectemnorhinus viridis</i>	Waterhouse	CUR, Entiminae	A
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GABON**2017** (Butterflies) (2ea MS/4)

a	350fr	Gatekeeper, <i>Pyronia tithonus</i> L.	NYM, Satyrinae	A
b	350fr	Silver-washed Fritillary, <i>Argynnis paphia</i> L.	NYM, Heliconiinae	A
c	350fr	Spotted Fritillary, <i>Melitaea didyma</i> Esper	NYM, Nymphalinae	A
d	350fr	Small Tortoiseshell, <i>Nymphalis urticae</i> L. (Cap: <i>Aglais urticae</i>)	NYM, Nymphalinae	A
a	350fr	Question Mark, <i>Nymphalis interrogationis</i> Fabr. (Cap: <i>Polygonia interrogationis</i>)	NYM, Nymphalinae	A
b	350fr	Orange Punch, <i>Dodona egeon</i> Westwood	Riodinidae	A
c	350fr	Common Buckeye, <i>Junonia coenia</i> Hübner	NYM, Nymphalinae	A
d	350fr	Marsh Fritillary, <i>Euphydryas aurinia</i> Rottemburg	NYM, Nymphalinae	A

2017 (Bees & Bumblebees) (4ea MS/4)

a	350fr	Broken-belted Bumblebee, <i>Bombus soroeensis</i> Fabr.	API, Apinae	A
b	350fr	Buff-tailed Bumblebee, <i>Bombus terrestris</i> L. (facing front)	API, Apinae	A
c	350fr	Buff-tailed Bumblebee, <i>Bombus terrestris</i> L. (facing rear)	API, Apinae	A
d	350fr	Early Bumblebee, <i>Bombus pratorum</i> L.	API, Apinae	A
a	350fr	Moscardón, <i>Bombus dahlbomii</i> Guérin-Ménéville	API, Apinae	A
b	350fr	Red-tailed Bumblebee, <i>Bombus lapidarius</i> L.	API, Apinae	A
c	350fr	Northern White-tailed Bumblebee, <i>Bombus magnus</i> Vogt	API, Apinae	A
d	350fr	Garden Bumblebee, <i>Bombus hortorum</i> L.	API, Apinae	A
a	350fr	U/I Long-tongued Bee	Anthophoridae	U A
b	350fr	U/I <i>Apis</i> sp. (facing L)	API, Apinae	U A
c	350fr	U/I <i>Apis</i> sp. (facing R on flower)	API, Apinae	U A
d	350fr	U/I <i>Apis</i> sp. (facing R on leaf)	API, Apinae	U A
a	350fr	Carder Bee, <i>Anthidium florentinum</i> Fabr.	MEG, Megachilinae	A
b	350fr	U/I <i>Apis</i> sp. (on wing)	API, Apinae	U A
c	350fr	U/I <i>Apis</i> sp. (facing L on flower)	API, Apinae	U A
d	350fr	U/I Mining Bee	Andrenidae	U A

GHANA**2016 March 8** (Muhammad Ali) (SS/1)

2891	SS 9ce	Quote: "Float like a butterfly, sting like a bee" (no insect)		R
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2016 September 13 (Poisonous Plants of Ghana) (MS/4)

2911c	8ce	Bumblebee, <i>Bombus</i> sp. (also Top margin)	API, Apinae	U B Z
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2017 October 26 (Butterflies of Africa) (MS/4 & SS/1)

2951a	8ce	Janetta Forester, <i>Euphaedra janetta</i> Butler	NYM, Limenitidinae	A
2951b	8ce	Mountain Beauty, <i>Aeropetes tulbaghia</i> L.	NYM, Satyrinae	A
2951c	8ce	Large Orange Tip, <i>Colotis antevippe</i> Boisduval	PIE, Pierinae	A
2951d	8ce	Veined Swallowtail, <i>Graphium leonidas</i> Fabr.	PAP, Papilioninae	A
	Margin	UR: U/I butterfly	LYC, Polyommatae	Z
		MR: U/I butterfly	LYC, Theclinae	Z
2952	SS 16ce	Variable Sailor, <i>Neptis nysiades</i> Hewitson (also in margin)	NYM, Limenitidinae	A Z

LIBYA**2015 December 10** (Architecture) (Set/2)

1807	750d	Three U/I small butterflies at LL (w/ castle)	Lepidoptera	U C
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LIBYA (continued)		2017 March 21 (Children's Day) (Set/3)		
a	500d	Plain Tiger, <i>Danaus chrysippus</i> L. ML & MR: Stylized butterflies	NYM, Danainae Lepidoptera	C S C
MALAWI		2016 May 27 (Birds of Malawi: Bee-eater) (SS/1)		
813	SS 350k	U/I bumblebee in bird's beak	API, Apinae	U C
MALAYSIA		2016 March 7 (Scented Flowers) (3ea Vert Pairs & SS/a) (new data)		
1593b	70s	U/I insects (on flower)		U C
1594a	80s	Chain Swordtail, <i>Graphium aristeus</i> Stoll (on flower)	PAP, Papilioninae	C
1594b	80s	Orange or Common Tiger, <i>Danaus genutia</i> Cramer (on flower)	NYM, Danainae	C
1595a	80s	U/I bumblebee (on flower at R)	API, Apinae	U C
1595b	80s	U/I bumblebee (on flower at L)	API, Apinae	U C
1596	SS 5r	Plain Tiger, <i>Danaus chrysippus</i> L.	NYM, Danainae	C
		2017 August 8 (50th anniv. ASEAN) (Set/2)		
	60s	Blue Tiger, <i>Tirumala hamata</i> Macleay	NYM, Danainae	B
	3r	Top: U/I bee Bot: U/I butterfly	Apidae Lepidoptera	U C U C
NETHERLANDS		2016 September 12 (Book Year) (MS/10 & 5ea Bklt/2)		
1523g	(73c)	U/I Swallowtail butterfly (page from <i>Zomer</i> , by Thijsse)	PAP, Papilioninae	U C
1523j	(73c)	Possible insect? (page from <i>Der Naturen Bloeme</i> , by Maerlant)		U C
1523n		Bklt/2 (Sc#1523g-h)		
1523o		Bklt/2 (Sc#1523i-j)		
PERU		2018 January 22		
a	9s	<i>Sicophion yana</i> Alvarado	ICH, Ophioninae	A
b	9s	<i>Ancognatha corcuera</i> Figueroa & Ratcliffe	SCA, Dynastinae	A
RUSSIA		2017 May 17 (Fables) (Horiz Strip/4)		
7822a	35r	Stylized butterflies ("The Fox and the Grapes")	Lepidoptera	S C
7822d	35r	Stylized dragonflies ("The Wolf and the Crane")	Odonata	S C
ST. THOMAS & PRINCE IS.		2014 October 15 (Scouting) (MS/4) (new data)		
2753d	25000d	Blue Diadem, <i>Hypolimnna salmactis</i> Drury	NYM, Nymphalinae	B
		2015 November 18 (Mushrooms) (MS/4) (Stamperija)		
2972	Margin	UR: Madagascan Sunset Moth, <i>Chrysidia rhipheus</i> Drury	URA, Uraniinae	Z
		2016 July 20 (African Reptiles) (MS/4) (Stamperija)		
3137d	31000d	U/I moth (w/ lizard)	Lepidoptera	U B
ST. VINCENT		2016 May 26 (New York State Emblematic Items) (MS/6)		
4076b	\$3.15	9-Spotted Ladybird, <i>Coccinella novemnotata</i> Herbst (NY insect)	COC, Coccinellinae	A
SOLOMON ISLANDS		2017 August 21 (Muhammed Ali) (SS/1) (Stamperija)		
2355	SS \$40	Quote: "Float like a butterfly, sting like a bee" (no insect)		R
	Margin	LL: Western Honeybee, <i>Apis mellifera</i> L. UR: Monarch <i>Danaus plexippus</i> L.	API, Apinae NYM, Danainae	Z Z
		2017 September 4 (Butterflies) (MS/4 & SS/1) (Stamperija)		
2387a	\$10	Checkered Skipper, <i>Carterocephalus palaemon</i> Pallas	HES, Heteropterinae	A
2387b	\$10	Common Grass Yellow, <i>Eurema hecabe</i> L.	PIE, Coliadinae	A
2387c	\$10	Western Red Glider, <i>Cymothoe mabillei</i> Overlaet	NYM, Limenitidinae	A
2387d	\$10	Brimstone, <i>Gonepteryx rhamni</i> L.	PIE, Coliadinae	A

SOLOMON ISLANDS (continued)

2412	SS \$40	Large Fairy Hairstreak, <i>Hypolycaena antifaunus</i> Westwood	LYC, Theclinae	A
	Margin	UL: U/I butterfly	LYC, Theclinae	U Z
		LL: Ceres Forester, <i>Euphaedra ceres</i> Fabr.	NYM, Limenitidinae	Z

TAJKISTAN**2017 October 3** (Flowers) (Set/3)

3.50s	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	B
5.80s	Blue Morpho, <i>Morpho menelaus</i> L.	NYM, Morphinae	B

TUVALU**2017 December 4** (Butterflies) (MS/4 & SS/1)

a	\$2.50	Pearl Fritillary, <i>Clossiana euphrosyne</i> L.	NYM, Heliconiinae	A
b	\$2.50	Small Tortoiseshell, <i>Nymphalis urticae</i> L.	NYM, Nymphalinae	A
c	\$2.50	Old World Swallowtail, <i>Papilio machaon</i> L. ♀	PAP, Papilioninae	A
d	\$2.50	American Lady, <i>Vanessa virginiensis</i> Drury	NYM, Nymphalinae	A
	Margin	LR: Red Admiral, <i>Vanessa atalanta</i> L.	NYM, Nymphalinae	Z
	SS \$5.50	Common Blue, <i>Polyommatus icarus</i> Rottemburg	LYC, Polyommatinae	A

UNITED STATES**2018 February 22** (Bioluminescent Life) (Block/10)

e	(50c)	Common Eastern or Big Dipper Firefly, <i>Photinus pyralis</i> L.	LAM, Lampyridae	A
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URUGUAY**2016 December 15** (Arms of Colonia Department)

2582	20p	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	S C
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Beyond the Catalog

(Issues of dubious validity)

BURUNDI**2014 November 10** (Scouts) (MS/4)

c	3190fr	UR: <i>Mecynorhina oberthuri</i> Fairmaire	SCA, Cetoniinae	B
		Scout hand: Ghost Mantis, <i>Phyllocrania paradoxa</i> Burmeister	HYM, Epaphroditinae	B
d	3190fr	Migratory Locust, <i>Locusta migratoria migratorioides</i> Reiche & Fairmaire	ACR, Oedipodinae	
	Margin	LL: U/I beetle	SCA, Scarabaeinae	U Z
		LR: Kenya Fly, <i>Paederus sabaesus</i> Erichson	STA, Paederinae	Z

2014 November 10 (Scouts & Minerals) (MS/4 & 2ea SS/1)

c,	3770fr	E. African Sunset Moth, <i>Chrysidia croesus</i> Gerstaecker	URA, Uraniinae	B
d,	3770fr	Common Blue-Banded Forester, <i>Euphaedra harpalyce</i> Cramer	NYM, Limenitidinae	B
	Margin	LL: U/I moth	Lepidoptera	U Z
		LR: U/I butterfly	Nymphalidae	U Z
	SS 8000fr	<i>Euphaedra perseis</i> Drury	NYM, Limenitidinae	B
	Margin	MR: Bush Scarlet, <i>Axiocerses amanga</i> Westwood	LYC, Theclinae	Z
		LR: Janetta Forester, <i>Euphaedra janetta</i> Butler	NYM, Limenitidinae	Z
	SS 8500fr	"Edible Caterpillar," <i>Bunaeopsis aurantiaca</i> Rothschild	SAT, Saturniinae	B
	Margin	UR: <i>Mecynorhina torquata</i> ssp. <i>immaculicollis</i> Kraatz ♀	SCA, Cetoniinae	Z
		Bot: <i>Anoplocnemis</i> sp.	CORE, Coreinae	U Z

2015 December 18 (Bees & Crops) (MS/4)

a	3190fr	<i>Xylocopa flavorufa</i> DeGeer	API, Xylocopinae	B
b	3190fr	African Honeybee, <i>Apis mellifera</i> ssp. <i>scutellata</i> Lepelletier	API, Apinae	B
c	3190fr	<i>Xylocopa caffra</i> L.	API, Xylocopinae	B
d	3190fr	Tawny Mining Bee, <i>Andrena fulva</i> Mueller	AND, Andreninae	B

2015 December 18 (Butterflies & Orchids) (MS/3)

a	2025fr	Obsolete White-Spots, <i>Osmodes omar</i> Swinhoe	HES, Hesperinae	B
b	2025fr	Meadow Blue, <i>Cupidopsis cissus</i> Godart	LYC, Polyommatinae	B
c	2025fr	Western Dotted Border, <i>Mylothris chloris</i> Fabr.	PIE, Pierinae	B

BURUNDI (continued)		2015 December 18 (Beetles & Plants) (MS/3)		
a	3975fr	<i>Stephanorrhina bella</i> Waterhouse	SCA, Cetoniinae	B
b	3975fr	<i>Uloptera planata</i> Burmeister	SCA, Cetoniinae	B
c	3975fr	<i>Popillia ohansi</i> Kolbe	SCA, Rutelinae	B
CENTRAL AFRICA		2015 October 12 (Mushrooms) (SS/1) (CA15402b)		
	SS 2650fr	UR: Giant Blue Swallowtail, <i>Papilio zalmoxis</i> Hewitson (w/ larva)	PAP, Papilioninae	Z
		2017 October 23 (Butterflies) (MS/4 & SS/1) (CA17710a&b)		
a	850fr	Question Mark, <i>Nymphalis interrogationis</i> Fabr.	NYM, Nymphalinae	A
b	850fr	Blue Pansy, <i>Junonia orithya</i> L.	NYM, Nymphalinae	A
c	850fr	Brown-veined White, <i>Belenois aurota</i> Fabr.	PIE, Pierinae	A
d	850fr	Purple Tip, <i>Colotis ione</i> Godart	PIE, Pierinae	A
	Margin	LL: Old World Swallowtail, <i>Papilio machaon</i> L. (larva)	PAP, Papilioninae	Z
		UR: Luna Moth, <i>Actias luna</i> L.	SAT, Saturniinae	Z
	SS 3300fr	L: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	B
		R: <i>Charaxes antiquus</i> Joicey & Talbot	NYM, Charaxinae	B
	Margin	UL: Rusty-tipped Page, <i>Siproeta epaphus</i> Latreille	NYM, Nymphalinae	Z
		ML: Tropical Striped Blue, <i>Leptotes piriethous</i> L.	LYC, Polyommatae	Z
		LL: Malay Cruiser, <i>Vindula dejone</i> Erichson	NYM, Heliconiinae	Z
		LR: Brown-tail Moth, <i>Euproctis chrysorrhoea</i> Walker (larva)	LYM, Lymantriinae	Z
		2017 November 20 (Bee-eater Birds) (MS/4 & SS/1) (CA17809a&b)		
a	900fr	Bumblebee, <i>Bombus</i> sp.	API, Apinae	U C
c	900fr	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	C
d	900fr	U/I bee (in bird's beak)	Apidae	U C
	SS 3600fr	Large Tree Nymph, <i>Idea leuconoe</i> L. (in bird's beak)	NYM, Danainae	C
	Margin	L: Bumblebee, <i>Bombus</i> sp.	API, Apinae	U Z
		Bot: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	Z
		UR: U/I dragonfly (in bird's beak)	Odonata	U Z
CHAD		2017 September 20 (Volcanoes) (MS/4) (TCH17403a)		
d	800fr	Banded Orange Heliconian, <i>Dryadula phaetusa</i> L.	NYM, Heliconiinae	B
		2017 September 20 (Orchids) (SS/1) (TCH17406b)		
	SS 3300fr	LL: Western Tiger Swallowtail, <i>Papilio rutulus</i> Lucas	PAP, Papilioninae	Z
		UR: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	Z
		2017 September 20 (Butterflies) (MS/4 & SS/1) (TCH17421a&b)		
a	800fr	Burnet Moth, <i>Zygaena carniolica</i> Scopoli	ZYG, Zygaeninae	A
b	800fr	Brimstone, <i>Gonepteryx rhamni</i> L.	PIE, Coliadinae	A
c	800fr	Small Heath, <i>Coenonympha pamphilus</i> L.	NYM, Satyrinae	A
d	800fr	Wood White, <i>Leptidea sinapis</i> L.	PIE, Dismorphiinae	A
	3300fr	Apollo, <i>Parnassius apollo</i> L.	PAP, Papilioninae	A
	Margin	R: Common Morpho, <i>Morpho helenor peleides</i> Kollar	NYM, Morphinae	Z
		Bot: Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L. ♀	PAP, Papilioninae	Z
		UR: Map Butterfly, <i>Araschnia levana</i> L. ♂	NYM, Nymphalinae	Z
CONGO DEMOCRATIC REPUBLIC		2014 June 17 (FIFA World Cup 2014) (SS/1)		
	SS 1260fr	LL: Harvester Ant, <i>Ectatomma</i> sp.	FOR, Ponerinae	U Z
DJIBOUTI		2017 December 11 (Butterflies) (MS/4 & SS/1) (DJB17601a&b)		
a	240fr	Purple Emperor, <i>Apatura iris</i> L.	NYM, Apaturinae	A
b	240fr	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A
c	240fr	Pipevine Swallowtail, <i>Battus philenor</i> L.	PAP, Papilioninae	A
d	240fr	Green Hairstreak, <i>Callophrys rubi</i> L.	LYC, Theclinae	A

DJIBOUTI (continued)

SS 950fr	Spicebush Swallowtail, <i>Papilio troilus</i> L. ♀	PAP, Papilioninae	A
Margin	UR: Monarchs, <i>Danaus plexippus</i> L.	NYM, Danainae	Z
	LL & MR: Spicebush Swallowtail, <i>Papilio troilus</i> L.	PAP, Papilioninae	Z

GUINEA-BISSAU**2017 December 5** (Butterflies) (MS/5 & SS/1) (GB17902a&b)

a	640fr	Narrow Blue-banded Swallowtail, <i>Papilio nireus</i> L.	PAP, Papilioninae	A
b	640fr	Flambeau, Julia, <i>Dryas iulia</i> Fabr.	NYM, Heliconiinae	A
c	640fr	Green-patch Swallowtail, <i>Papilio phorcas</i> Cramer	PAP, Papilioninae	A
d	640fr	Old World Swallowtail, <i>Papilio machaon</i> L. (w/ larva)	PAP, Papilioninae	A
e	640fr	2 Orange Oakleaf, <i>Kallima inachus</i> Boisduval	NYM, Nymphalinae	A
SS 3300fr		Spicebush Swallowtail, <i>Papilio troilus</i> L. ♀	PAP, Papilioninae	A
Margin		LL: Atlas Moth, <i>Attacus atlas</i> L. (larva)	SAT, Saturniinae	Z
		LR: Same species (adult)	SAT, Saturniinae	Z
		UR: Marbled White, <i>Melanargia galathea</i> L.	NYM, Satyrinae	Z

MALDIVE ISLANDS**2017 March 16** (Moth & Butterflies) (MS/4 & SS/1) (MLD17204a&b)

a	20r	Crimson-speckled Moth, <i>Utetheisa pulchella</i> L.	ARC, Arctiinae	A
b	20r	Common Jezebel, <i>Delias eucharis</i> Drury	PIE, Pierinae	A
c	20r	<i>Racotis boarmiaria</i> Guenée	GEO, Ennominae	A
d	20r	Dark Blue Tiger, <i>Tirumala septentrionis</i> Butler	NYM, Danainae	A
Margin		UL: Stylized butterfly	Lepidoptera	S Z
SS 60r		<i>Hydrillodes lentalis</i> Guenée	NOC, Herminiinae	A
Margin		ML: <i>Thyas coronata</i> Fabr.	NOC, Catocalinae	Z
		Top: Oriental Bee Hawk, <i>Cephonodes hylas</i> L.	SPH, Macroglossinae	Z
		Ctr: Clipper, <i>Parthenos sylvia</i> Cramer	NYM, Limenitidinae	Z
		MR: Viceroy, <i>Limenitis archippus</i> Cramer	NYM, Limenitidinae	Z
		UL: Stylized butterfly	Lepidoptera	S Z

NIGER**2015 July 20** (Scouting) (MS/3) (NIG15304a)

a	1100fr	Monarch, <i>Danaus plexippus</i> L. (w/ Scout on swing)	NYM, Danainae	B
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2016 December 21 (Muhammad Ali) (MS/4) (NIG16611a)

d	850fr	L: Marbled White, <i>Melanargia galathea</i> L.	NYM, Satyrinae	B
		R: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	B

2017 December 28 (Butterflies) (MS/4 & SS/1) (NIG17603a&b)

a	800fr	Edward's Forester, <i>Euphaedra edwardsi</i> van der Hoeven	NYM, Limenitidinae	A
b	800fr	Blue Doctor, <i>Rhetus periander</i> Cramer	RIO, Riodininae	A
c	800fr	Alpine Black Swallowtail, <i>Papilio maackii</i> Ménétries	PAP, Papilioninae	A
d	800fr	Golden Kaiser-I-Hind, <i>Teinopalpus aureus</i> Mell	PAP, Papilioninae	A
SS 3300fr		Pink-Tipped Satyr, <i>Cithaerias pireta aurorina</i> Weymer	NYM, Satyrinae	A
Margin		LL: Common Windmill, <i>Atrophaneura polyuctes</i> Doubleday	PAP, Papilioninae	Z
		UR: Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L. ♀	PAP, Papilioninae	Z
		MR: Jeweled Nawab, <i>Polyura delphis</i> Doubleday	NYM, Charaxinae	Z

2017 December 28 (Bee-eater Birds) (MS/4 & SS/1) (NIG17608a&b)

d	800fr	U/I bee (in bird's beak)	API, Apinae	U C
SS 3300fr		LL: U/I bee (in bird's beak)	API, Apinae	U Z

2017 December 28 (Malaria) (MS/4 & SS/1) (NIG17622a&b)

c	800fr	<i>Anopheles gambiae</i> Giles (silhouette)	CUL, Anophelinae	C
SS 3300fr		<i>Anopheles gambiae</i> Giles	CUL, Anophelinae	A

ST. THOMAS & PRINCE IS.		2015 May 21 (Rain Forest) (2ea MS/4) (ST15209a & ST15203a)	
2889	Margin	Bot: Blue Night, <i>Cepheptychia cephus</i> Fabr. ♂ (Caimans)	NYM, Satyrinae Z
2894	Margin	Bot: Blue Night, <i>Cepheptychia cephus</i> Fabr. ♂ (Minerals)	NYM, Satyrinae Z
		2015 May 21 (Rain Forest) (6ea MS/4)	
2877	Margin	LR: Three U/I ants (Monkeys)	Formicidae U Z
2878	Margin	LR: Three U/I ants (Big Cats)	Formicidae U Z
2887	Margin	LR: Three U/I ants (Frogs)	Formicidae U Z
2890	Margin	LR: Three U/I ants (Snakes)	Formicidae U Z
2891	Margin	LR: Three U/I ants (Orchids)	Formicidae U Z
2893	Margin	LR: Three U/I ants (Mushrooms)	Formicidae U Z
		2017 November 7 (Butterflies) (MS/4 & SS/1) (ST17506a&b)	
a	31000d	Janetta Forester, <i>Euphaedra janetta</i> Butler	NYM, Limenitidinae A
b	31000d	Blue Doctor, <i>Rhetus periander</i> Cramer	RIO, Riodininae A
c	31000d	Golden Kaiser-I-Hind, <i>Teinopalpus aureus</i> Mell	PAP, Papilioninae A
d	31000d	Clipper, <i>Parthenos sylvia</i> Cramer	NYM, Limenitidinae A
	SS 124000d	L: Blue Pansy, <i>Junonia orithya</i> L.	NYM, Nymphalinae B
		R: Question Mark, <i>Nymphalis interrogationis</i> L.	NYM, Nymphalinae B
	Margin	UL: Crimson Rose, <i>Atrophaneura hector</i> L.	PAP, Papilioninae Z
		LL: Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L. (larva)	PAP, Papilioninae Z
		Top: Rusty-tipped Page, <i>Siproeta epaphus</i> Latreille	NYM, Nymphalinae Z
		UR: Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L. ♀	PAP, Papilioninae Z
		LR: Malachite, <i>Siproeta stelenes</i> L.	NYM, Nymphalinae Z
		Ctr: Malachite, <i>Siproeta stelenes</i> L. (larva)	NYM, Nymphalinae Z
		2017 November 7 (Mushrooms) (MS/4 & SS/1) (ST17507a&b)	
a	31000d	U/I mosquito (on mushroom)	Diptera U C
b	31000d	U/I insect (on mushroom)	U C
c	31000d	U/I ant (on mushroom)	Formicidae U C
d	31000d	U/I beetle (on mushroom)	Coleoptera U C
	SS 124000d	R: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae Z
SIERRA LEONE		2015 October 23 (Protected Birds) (SS/1) (SRL15516b)	
3497	Margin	Bot: U/I dragonfly	Odonata U Z
		2015 October 23 (Warblers) (SS/1) (SRL15517b)	
3500	Margin	Ctr: U/I insect (in bird's beak)	U Z
		2017 September 29 (Turtles) (MS/4 & SS/1) (SRL17907a&b)	
	4×9800le	LL: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae Z
	SS 40000le	Ctr: Common Blue, <i>Polyommatus icarus</i> Rottenburg	LYC, Polyommatinae Z
		2017 November 30 (Malaria) (MS/4 & SS/1) (SRL171101a&b)	
a	800le	<i>Anopheles gambiae</i> Giles (sucking blood)	CUL, Anophelinae A
c	800le	<i>Anopheles gambiae</i> Giles (w/ child)	CUL, Anophelinae B
	SS 40000le	<i>Anopheles gambiae</i> Giles (also UL margin)	CUL, Anophelinae B Z
		2017 December 29 (Butterflies) (MS/4 & SS/1) (SR171209a&b)	
a,	9800le	Brown-veined or Caper White, <i>Belenois aurota</i> Fab.	PIE, Pierinae A
b,	9800le	Blue Diadem, <i>Hypolimnas salmacis</i> Drury	NYM, Nymphalinae A
c,	9800le	Widespread Forester, <i>Euphaedra medon</i> L.	NYM, Limenitidinae A
d,	9800le	Dark Banded Judy, <i>Abisara gerontes</i> Fabr.	RIO, Riodininae A
	SS 40000le	Hewitson's or Alciope Acraea, <i>Acraea alciope</i> Hewitson	NYM, Heliconiinae A
	Margin	UL&UR: Black-striped Hairtail, <i>Anthene amarah</i> Guerin-Méneville	LYC, Polyommatinae Z
		LL&LR: Small Striped Swordtail, <i>Graphium polices</i> Cramer	PAP, Papilioninae Z

TOGO**2017 December 15** (Butterflies) (MS/4 & SS/1) (TG17607a&b)

a	800fr	Red-Spotted Purple, <i>Limenitis arthemis</i> ssp. <i>astyanax</i> Fabr.	NYM, Limenitidinae	A
b	800fr	Eastern Tailed Blue, <i>Cupido comyntas</i> Godart	LYC, Polyommatainae	A
c	800fr	L: Adonis Blue, <i>Polyommatus bellargus</i> Rottemburg	LYC, Polyommatainae	B
		R: Blue Emperor, <i>Papilio ulysses</i> L.	PAP, Papilioninae	B
d	800fr	Purple-Shot Copper, <i>Lycaena alciphron</i> Rottemburg	LYC, Lycaeninae	A
SS	3300fr	Purple-Edged Copper, <i>Lycaena hippothoe</i> L.	LYC, Lycaeninae	A
Margin		UR: Blue Emperors, <i>Papilio ulysses</i> L.	PAP, Papilioninae	Z
		LR: Cabbage White, <i>Pieris rapae</i> L.	PIE, Pierinae	Z

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PALEONTOLOGY



Editor

Michael Kogan, BU1863

New Listings

Scott#	Denom	Common Name/Scientific Name	Family	Code
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ARMENIA

2017 December 28 (Flora & Fauna of Ancient World)

A “first day cover” was issued in the middle of January 2018.

	230d	U/I Pterosaur	Order: †Pterosauria	U A
	280d	<i>Tyrannosaurus</i>	†Tyrannosauridae	A

CENTRAL AFRICAN REPUBLIC

2017 November 20 (Extinct Species) (SS/1) ^[1]

	SS 3300fr	Saber-toothed Tiger, <i>Smilodon populator</i>	Felidae	A
	Margin	LR: Same species (attacking early man)		Z

2017 December 12 (Fossils) (MS/4 & SS/1) ^[1]

a	900fr	Trilobite, <i>Coronocephalus gauluoensis</i> (fossil)	†Encrinuridae	A
b	900fr	<i>Eusaurosphargis dalsassoi</i> (fossil)	Clade: Diapsida	A
c	900fr	Ammonite (fossil)	Subclass: †Ammonoidea	A
d	900fr	<i>Tyrannosaurus rex</i> (skull)	†Tyrannosauridae	A
	SS 3600fr	<i>Archaeopteryx lithographica</i> (fossil)	†Archaeopterygidae	A
	Margin	U/I fossils in rock		U Z

2017 October 23 (Dinosaurs) (MS/4 & SS/1) ^[1]

a	900fr	<i>Machairoceratops cronusi</i>	†Ceratopsidae	A
b	900fr	<i>Kulindadromeus zabaikalicus</i>	Clade: †Neornithischia	A
c	900fr	<i>Corythoraptor jacobsi</i>	†Oviraptoridae	A
d	900fr	<i>Anzu wyliei</i>	†Caenagnathidae	A
	SS 3600fr	<i>Tianchisaurus nedegoapeferima</i>	Suborder: †Ankylosauria	A
	Margin	LL: <i>Diamantinasaurus matildae</i>	Clade: †Titanosauria	Z
		UL: <i>Dreadnoughtus schrani</i>	Clade: †Titanosauria	Z
		LR: <i>Tongtianlong limosus</i>	†Oviraptoridae	Z

CHAD

2017 July 10 (135th Death anniv. Charles Darwin) (MS/4 & SS/1) ^[1]

Each stamp has a portrait of Darwin and there is also a portrait in the margin of each sheet.

a	800fr	Bornean Orangutan, <i>Pongo pygmaeus</i>	Hominidae	B
b	800fr	Galápagos Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	B
c	800fr	Darwin's Beetle, <i>Chiasognathus grantii</i>	Lucanidae	B
d	800fr	Darwin's Rhea, <i>Rhea pennata</i>	Rheidae	B
	Margin	LR: U/I Beetle	Scarabaeidae	U Z
		Bot: African Monarch, <i>Danaus chrysippus</i>	Nymphalidae	Z
	SS 3300fr	U/I Darwin's Finch		U B
	Margin	LL: Human evolution schematic		R

2017 September 20 (Dinosaurs) (MS/4 & SS/1) ^[1]

a	800fr	<i>Dimorphodon macronyx</i>	†Dimorphodontidae	A
b	800fr	<i>Hatzegopteryx thambema</i>	†Azhdarchidae	A
c	800fr	<i>Triceratops horridus</i>	†Ceratopsidae	A
d	800fr	<i>Spinosaurus aegyptiacus</i>	†Spinosauridae	A

CHAD (continued)

SS 3300fr	<i>Tyrannosaurus rex</i> (in fight)	†Tyrannosauridae	A
Margin	L: <i>Brachiosaurus altithorax</i>	†Brachiosauridae	Z
	Ctr & LR: <i>Camarasaurus supremus</i> (w/ eggs)	†Camarasauridae	Z

DJIBOUTI**2017 December 11** (Prehistoric Water Animals) (MS/4 & SS/1) ^[1]

a	240fr	Top: <i>Pteraspis stensioei</i>	†Pteraspidae	B
		Bot: <i>Prognathodon solvayi</i>	†Mosasauridae	B
b	240fr	<i>Dearcmhara shawcrossi</i>	Order: †Ichthyosauria	A
c	240fr	<i>Parapuzosia seppenradensis</i>	†Desmoceratidae	A
d	240fr	Top: <i>Shastasaurus pacificus</i>	†Shastasauridae	B
		Bot: <i>Jamoytius kerwoodi</i>	†Jamoytiidae	B
Margin		Top: <i>Albertonectes vanderveldei</i>	†Elasmosauridae	Z
		UR: <i>Pteraspis stensioei</i>	†Pteraspidae	Z
		Bot: <i>Pituriaspis doylei</i>	Class: Pituriaspida	Z
SS 950fr		<i>Dunkleosteus terrelli</i> (also UR margin)	†Dunkleosteidae	A Z
Margin		Ctr: <i>Liopleurodon rossicus</i>	†Pliosauridae	Z
		LL: <i>Stethacanthus productus</i>	†Stethacanthidae	Z

2017 December 11 (Dinosaurs) (MS/4 & SS/1) ^[1]

a	240fr	<i>Lambeosaurus lambei</i>	†Hadrosauridae	A
b	240fr	<i>Oviraptor philoceratops</i>	†Oviraptoridae	A
c	240fr	<i>Archaeopteryx siemensii</i>	†Archaeopterygidae	A
d	240fr	<i>Stegosaurus ungulatus</i>	†Stegosauridae	A
SS 950fr		<i>Pterodactylus antiquus</i> (also in margin)	†Pterodactylidae	A Z
Margin		R: <i>Brachiosaurus altithorax</i>	†Brachiosauridae	Z
		Bot: <i>Ceratosaurus nasicornis</i>	†Ceratosauridae	Z

FRANCE**2018 January 5** (Works of Nature) (Bklt/12)

One stamp, with domestic priority letter rate, depicts “Flysch with Helminthoid.” Helminths are parasitic worms. The term helminth does not correspond to a specific zoological category. “Helminthoides” or “helminthoid” refers to a category of deep sea trace fossils with a characteristic tight meandering pattern. Traces of this sort are now placed in the several different ichnogenera including *Nereites*, *Helminthopsis*, *Helminthoida*, etc.

“Flysch” refers to a kind of sedimentary rock successively deposited in deeper water settings adjacent to a rising mountain system. So, Helminthoides Flysch or Helminthoid Flysch is a term for flysch deposits that contain (in certain beds) a specific assemblage of deep water trace fossils. The image is attributed to Christian Martelet.

(73c) U/I Helminth worm fossil

U A

GUINEA**2017 October 9** (“80th” Death anniv. Charles Darwin) (MS/4 & SS/1) ^[1]

Subsequently, these stamps were reprinted with the correct title: “135th memorial anniversary of Charles Darwin death of Charles Darwin (1809–1882).”

a	12500fr	Charles Darwin statue		R
b	12500fr	Evolution of human skull: <i>Homo heidelbergensis</i>	Hominidae	B
		<i>Homo neanderthalensis</i>	Hominidae	B
		<i>Homo sapiens sapiens</i>	Hominidae	B
		<i>Homo sapiens</i>	Hominidae	B
c	12500fr	Ammonite (w/ HMS <i>Beagle</i> & young Darwin portrait)	Subclass: †Ammonoidea	B
d	12500fr	Darwin portrait w/ text listing evolutionary processes in French		R

Translation: “The four most widely recognized evolutionary processes are natural selection, genetic drift, mutation, and gene migration due to genetic admixture.”

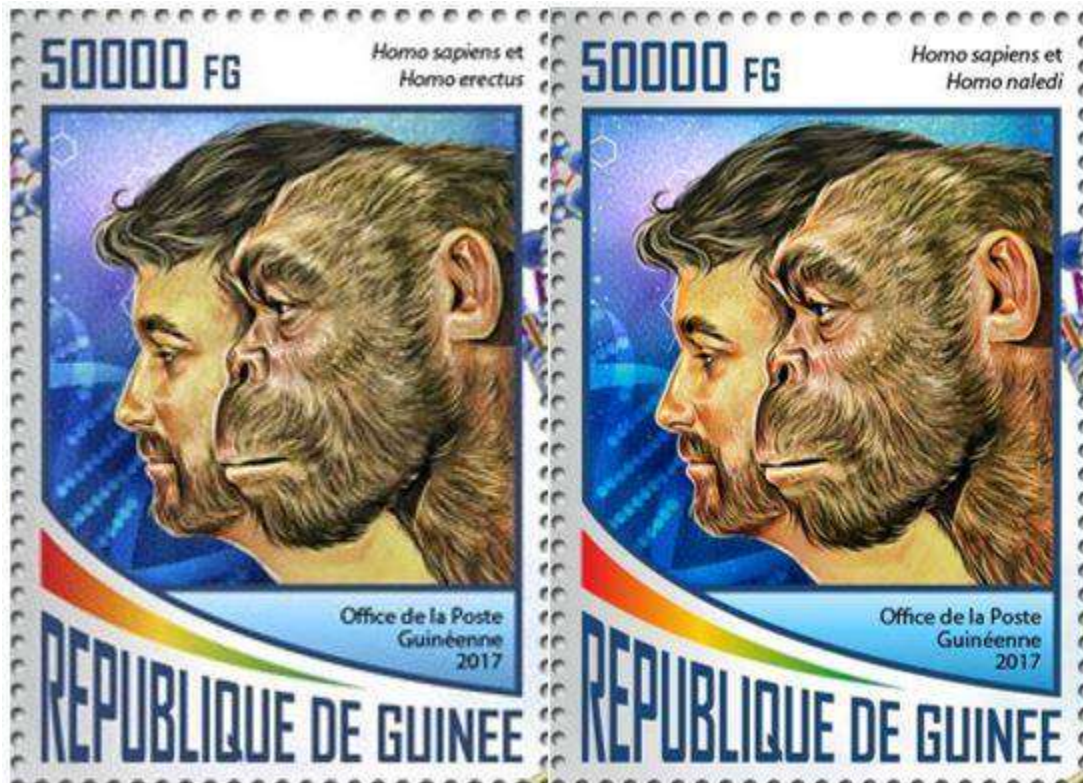
GUINEA (continued)¹

SS 50000fr	L: <i>Homo sapiens</i>	Hominidae	B
	R: <i>Homo erectus</i>	Hominidae	B
Margin	R: <i>Homo naledi</i> (w/ Darwin portrait)	Hominidae	Z

On the first (erroneous) issue, the *Homo naledi* image on the SS margin was labeled “*Homo erectus*.”



On the second (corrected) issue, they fixed the error label on margin, but renamed “*Homo erectus*” to “*Homo naledi*” on stamp itself: One error corrected, another introduced.

**GUINEA**

2017 October 9 (Dinosaurs) (MS/4 & SS/1) ^[1]

a	12500fr	<i>Triceratops horridus</i>	†Ceratopsidae	A
b	12500fr	<i>Velociraptor mongoliensis</i>	†Dromaeosauridae	A
c	12500fr	<i>Dilophosaurus wetherilli</i>	†Dilophosauridae	A
d	12500fr	<i>Stegosaurus stenops</i>	†Stegosauridae	A
	SS 50000fr	<i>Pterodactylus antiquus</i>	†Pterodactylidae	A
	Margin	UR: <i>Tyrannosaurus rex</i>	†Tyrannosauridae	Z
		Bot: <i>Cryolophosaurus ellioti</i>	Clade: Tetanurae	Z
		Top: <i>Pterodactylus antiquus</i>	†Pterodactylidae	Z

GUINEA-BISSAU**2017 December 5** (Dinosaurs) (MS/5 & SS/1) ^[1]

a	640fr	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
b	640fr	<i>Styracosaurus albertensis</i>	†Ceratopsidae	A
c	640fr	<i>Coahuilaceratops magnacuerna</i>	†Ceratopsidae	A
d	640fr	<i>Atrociraptor marshalli</i>	†Dromaeosauridae	A
e	640fr	<i>Brachiosaurus altithorax</i>	†Brachiosauridae	A
	SS 3300fr	<i>Carnotaurus sastrei</i>	†Abelisauridae	A
	Margin	UR: <i>Kryptodrakon progenitor</i>	Suborder: †Pterodactyloidea	
		Ctr: <i>Dreadnoughtus schrani</i>	Clade: †Titanosauria	Z
		LL: <i>Qianzhousaurus sinensis</i>	†Tyrannosauridae	Z
		LR: <i>Quetzalcoatlus northropi</i>	†Azhdarchidae	Z

HONG KONG**2018 January 1** (Global Geopark Definitives) (Set/3)

These new stamps are defined by the original designs of the 2014 definitive set that feature unique geo-attractions of the Hong Kong UNESCO Global Geopark and portray Ma Shi Chau, Yan Chau, and Fa Shan. At least one of these stamps can be considered a fossil discovery site.

The rock formation at Ma Shi Chau contains a variety of fossils such as crinoids, brachiopods, pteropods, and corals. From these fossils, geologists have determined that the rock layers formed during the Permian period, about 270 million years before present.

\$2.60 Ma Shi Chau rock formation R

NIGER**2017 November 20** (Prehistoric Water Animals) (MS/4 & SS/1) ^[1]

a	800fr	<i>Doryaspis nathorsti</i>	Doraspidae	A
b	800fr	<i>Liopleurodon ferox</i>	†Pliosauridae	A
c	800fr	<i>Nothosaurus mirabilis</i>	†Nothosauridae	A
d	800fr	<i>Helicoprion bessonowi</i>	†Helicoprionidae	A
	SS 3300fr	<i>Dakosaurus maximus</i>	†Metriorhynchidae	A
	Margin	R: <i>Dinichthys terrelli</i>	†Dunkleosteidae	Z
		Bot: <i>Eurypterus tetragonophthalmus</i> (Cap/Syn: <i>E. fisheri</i>)	†Eurypteridae	Z

2017 November 20 (135th Death anniv. Charles Darwin) (MS/4 & SS/1) ^[1]

a	800fr	Galápagos Tortoise, <i>Geochelone nigra</i> (w/ Darwin portrait)	Testudinidae	B
b	800fr	<i>Torosaurus</i>	†Ceratopsidae	A
c	800fr	Top: <i>Ichthyostega</i>	Clade: Stegocephalia	B
		Bot: <i>Tiktaalik</i>	Clade: Stegocephalia	B
d	800fr	Darwin Finches (w/ Darwin statue)	Thraupidae	U B
	SS 3300fr	Small Tree Finch, <i>Camarhynchus parvulus</i> (w/ Darwin portrait)	Thraupidae	B
	Margin	Bot: <i>Australopithecus</i> (Lucy) (w/ Darwin image)	Hominidae	Z
		LL: <i>Tyrannosaurus</i>	†Tyrannosauridae	Z
		UR: Zebra Finch, <i>Taeniopygia guttata</i>	Estrildidae	Z

2017 December 12 ("Flying Dinosaurs") (MS/4 & SS/1) ^[1]

a	800fr	<i>Dsungaripterus weii</i>	†Dsungaripteridae	A
b	800fr	<i>Eudimorphodon ranzii</i>	†Eudimorphodontidae	A
c	800fr	<i>Anurognathus ammoni</i>	†Anurognathidae	A
d	800fr	<i>Istiodactylus latidens</i>	†Istiodactylidae	A
	SS 3300fr	<i>Archaeopteryx lithographica</i>	†Archaeopterygidae	A
	Margin	Ctr: <i>Darwinopterus modularis</i>	†Wukongopteridae	Z
		LR: <i>Dimorphodon macronyx</i>	†Dimorphodontidae	Z

Other Stamps to Consider

CZECH REPUBLIC

2017 January 20 (Oldřich Pošmurný) (Bklt/8+4 labels)

Oldřich Pošmurný was born on 8 April 1942 in Tábor. He studied graphic design of books and magazines with Prof. Vladimír Ringes, history of book design with Prof. František Klikar, and illustration and figure drawing with V. J. Žižka. After graduation, Pošmurný worked as a graphic editor in the Svoboda publishing house. From 1968, he worked as a free-lance graphic artist. He co-designed the series Zdeněk Burian's Ancient Dinosaurs and designed dinosaur stamps of Czech Republic in 1994. The postage stamp is issued both as a sheet and as a Bklt/8+4 labels.

3694 16k Oldřich Pošmurný (1942–2010)

R

KAZAKHSTAN

2017 November 6 (Karatau Nature Reserve) (MS/3)

The Karatau Nature Reserve is a wildlife refuge in the mid-part of the Karatau Mountains near Kyzylkum, Betpak-Dala, and Moynkum deserts in the South Kazakhstan Region of Kazakhstan. It was founded in 2004. Its territory is around 34,300 hectares (132 square miles). Some 700 species of plants constitute its flora, 62 species are endemic. The park is also known as fossil discovery site of plants and animals from the Cambrian to Miocene ages. More details are here: <https://paleokazakhstan.info/karatau.php> (in Russian, but with many images).

MS 600te Karatau Nature Reserve

R

Postal Stationery & Special Covers

RUSSIA

2017 October 30 (175th Birth anniv. P.A. Kropotkin)

For the 175th birth anniversary of the scientist and philosopher P.A. Kropotkin. The Russian Post authority issued a postal card and two postmarks with his portrait: one from Moscow and another from St. Petersburg.

Pyotr Alekseyevich Kropotkin (1842–1921) was a geographer, geologist, and traveler. He conducted research in Siberia and Priamurye and was one of founders of paleogeography of the Anthropogene (Holocene) era. He created the doctrine of ancient continental freezing and proposed the theory of Pleistocene ice age and alternative theories of evolution based on embryology. He traveled in eastern Siberia and Manchuria between 1863 and 1867, and his subsequent publications about that area's geography became authoritative until the middle of the twentieth century. Kropotkin argued that his geographic and geologic observations in Asia, Finland, Sweden, and Canada, supported the theory of Pleistocene continental glaciation, often called the ice age. He was one of the first to study the ancient geography and climate of the Quaternary period, which spans from 2.5 million years ago until the present. Around the turn of the nineteenth century, Kropotkin offered what he said were complementary amendments to Charles Darwin's 1859 theory of evolution by natural selection. Kropotkin employed a variety of arguments from natural history, embryology, and geography to support his theory of mutual aid, which he argued was a positive mechanistic addition to the theory of evolution.

B rate P.A. Kropotkin (postal card w/ imprinted portrait & image w/ geologist)

GERMANY

2017 November 2 (200th anniv. Senckenberg Natural Research Society)

Postal stationery commemorating the 200th anniversary of the Senckenberg Natural Research Society. Skull of *Triceratops* and reconstruction of "Lucy" (*Australopithecus afarensis*) shown on left side of the cover.

Personalized Issue

FRANCE

2018 February 2 (150th Death anniv. Jacques Boucher) (Bklt/4)

Death anniversary of Jacques Boucher de Crèvecœur de Perthes. Booklet of personalized stamps of the association of Friends of the Boucher-de-Perthes Museum. Boucher (1788–1868), sometimes referred to as Boucher de Perthes, was a French archaeologist and antiquary notable for his discovery, in about 1830, of flint tools in the gravels of the Somme valley. These tools are also depicted on the stamps and on the margin of the booklet.

Future Issues

2018.02.13: Australia: Jurassic Park stamp pack

2018.03.23: Slovenia: Mammals fossil. Mastodon, *Anancus arvernensis*

2018.08.27: Belgium: Prehistoric animals. MS/10 w/ Mammoth on margin. Designed by the same artist, Constantijn Van Cauwenberge (nickname Conz), who designed the Dinosaur stamps of Belgium 2015.

2018.10.10: Czech Republic: 200 years of the National Museum in Prague.

Tentative: The following stamps can be related to our topic:

2018.02.16: Latvia: Unique exhibits of the Latvian Museum of Natural History

2018.03.??: Ukraine: Joint issue Moldova, Romania, Ukraine. Cucuteni-Trypillia Culture

2018.09.03: Moldova: Joint Issue Moldova, Romania, Ukraine. Cucuteni-Trypillia Culture"

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>.

PREHISTORIC WATER ANIMALS

On 16 January 2018, the Central African Republic (through Stamperija) issued a MS4 and SS/1 showing artists' images of prehistoric water animals.

The stamp on the SS depicts the largest known ammonite species (*Parapuzosia seppenradensis*). This giant creature may have measured more than ten feet in diameter and weighed more than 3,000 pounds. It lived during the Late Cretaceous period (100–66 mya).

In the UR margin is an image of a Megalodon (*Carcharocles megalodon*). This giant shark lived 23–2.6 mya and is thought to be the largest and most powerful fish that ever lived reaching a length of almost 60 feet.

The bottom margin shows an image of a *Liopleurodon*, a carnivorous reptile that lived 160–155 mya. It was the apex predator of its age and reached 21 feet in length, though it has been depicted in movies as much, much larger.



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/>

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

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

Fauna-Stamps. Listings of stamps for sale (mainly new issues) on all sorts of biological themes including Cats, Dogs, Horses, Birds, Butterflies, Paleontology, Flora, and WWF animal stamps.

<http://www.fauna-stamps.com/>

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-filatelistas.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 Center. 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>

Lichens of North America. Many photos and descriptions of lichens and links to related sites.

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

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>

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

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

Cercopoidea Organised On Line. Taxonomic database operated under the auspices of *Université Pierre-et-Marie-Curie* in Paris and dedicated to the insects Cercopoidea, which belong to the Hemiptera order.

<http://rameau.snv.jussieu.fr/cool/index.php>

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

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

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

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

International Odonata Research Institute. Information about dragonflies and damselflies, including listings by geographical area, taxonomy, and links to related sites.

<http://www.iodonata.net/>

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/>

Turtle Meter Stamps. Updated website containing a worldwide catalog of meter stamps and meter marks that depict turtles and tortoises based on the owner's 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/turtstamp/>

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/>

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://www.vertebrates.si.edu/msw/mswcfapp/msw/index.cfm>

ORNITHOLOGY

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

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

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

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

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

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

PALEONTOLOGY:

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

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

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

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

GLOSSARY OF TERMS

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

Checklist Codes:

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

Acronyms and Abbreviations:

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

Entomology Family Abbreviations:

ACR	Acrididae	AES	Aeshnidae	AND	Andrenidae
ANO	Anobiidae	ANT	Anthicidae	API	Apinae
ARC	Arctiidae	BEL	Belostomatidae	BLA	Blattidae
BRA	Brahmaeidae	BRAC	Braconidae	BUP	Buprestidae
CAL	Calopterygidae	CAN	Cantharidae	CAR	Carabidae
CAS	Castniidae	CER	Cerambycidae	CHR	Chrysomelidae
CHRY	Chrysopidae	CIC	Cicadellidae	CICA	Cicadidae
COC	Coccinellidae	COE	Coenagrionidae	COR	Corydalidae
CORD	Cordulegastridae	CORE	Coreidae	COS	Cosmopterigidae
CRA	Crabronidae	CRAM	Crambidae	CUL	Culicidae
CUR	Curculionidae	DER	Dermestidae	DRO	Drosophilidae
DYT	Dytiscidae	ELA	Elateridae	FOR	Formicidae
FUL	Fulgoridae	GEO	Geometridae	GEOT	Geotrupidae
GOM	Gomphidae	GRA	Gracillariidae	GRY	Gryllidae
GRYA	Gryllacrididae	HAL	Halictidae	HES	Hesperiidae
HYM	Hymenopodidae	ICH	Ichneumonidae	LAM	Lampyridae
LAS	Lasiocampidae	LIB	Libellulidae	LIM	Limacodidae
LUC	Lucanidae	LYC	Lycaenidae	LYG	Lygaeidae
LYM	Lymantriidae	MAN	Mantidae	MEG	Megachilidae
MEL	Meloidae	MEM	Membracidae	MIR	Miridae
MUS	Muscidae	MYR	Myrmeleontidae	NOC	Noctuidae
NOL	Nolidae	NOT	Notodontidae	NYM	Nymphalidae
OEC	Oecophoridae	PAP	Papilionidae	PAS	Passalidae
PEN	Pentatomidae	PHA	Phasmatidae	PHY	Phyllidae
PIE	Pieridae	PLU	Plutellidae	POM	Pompilidae
PSY	Psychodidae	PTE	Pterophoridae	PYR	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		