

BIOPHILATELY

OFFICIAL JOURNAL OF THE BIOLOGY UNIT OF ATA

SEPTEMBER 2018

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African Safari

Dick Roman



Jack Congrove

National Topical Stamp Show

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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 November 2018.

FROM THE EDITOR'S DESK

I am sure you noticed that the cover of this edition is different than usual. We have changed it so that we could print the photos in color taken by Dick Roman on his African trip. These will substitute for his Herpetology New Issues column. You can find his descriptions on page 239.

Despite my best laid plans, this issue was assembled in a rush. The joint ATA-APS stamp show in Columbus, Ohio, cut into my editing time. I went there with the intention of completing some of the work on the publication, but I was too busy the entire time to get much done. See the article about all the action at the eventful show starting on page 173.

It seems there is no expression for flocks of flocks of birds. The term flock implies that all birds in it are the same species. But we have multiple flocks in this issue as our Ornithology editor has apparently emptied his files of all the new issues that have accumulated over the recent past. As a result, we have 24 pages of avian new issues.

Speaking of birds, many of us have seen a murmuration. This is what scientists call a flock of hundreds or thousands of birds flying together in a whirling, changing pattern. This phenomenon has more to do with physics than biology. Studies have shown that it is controlled by three simple rules. Each bird is aware of the seven birds near it and by obeying these rules the flock appears to turn as a single entity. The rules are: Separation (avoid crowding neighbors), Alignment (steer toward the average heading), and Cohesion (maintain average position). These rules also have application in the drone industry.

Your editor entered *Biophilately* in the Literature exhibition at the ATA-APS stamp show and again it received a Vermeil award. We seem to be stuck at this level and would like to see some improvement. Each of you can help with this effort by submitting an article about some item in your collection, or some subject with a biological theme.

There was lots of big news out of the ATA-APS stamp show and one of the biggest is that the ATA and APS have decided to partner again next year with a joint show in Omaha, Nebraska. The synergy that developed between the two organizations manifested itself in a great increase in interest and attendance in this year's show. Hopefully that will carry forward to next year, because both organizations have a lot to offer each other.

The show this year exposed many dealers to the interests and sophisticated needs of topical collectors that I think surprised many of them. Possibly some thought that topical collectors just toy with the hobby and are not "serious" about the material they assemble. Anyone who has seen a topical exhibit knows that it features research much beyond the philatelic and scarce material that shows all aspects of philately.

Make your plans to attend the show next year, which is planned for 1-4 August 2019.

Jack R. Congrove



DUES RATES (US\$)

Regular membership (US & Canada)	\$20
Overseas membership	\$25
Overseas airmail (add)	\$10
On-line membership	\$15

ADVERTISING RATES

Full page insertion	\$20
Half page insertion	\$10
Quarter page insertion	\$5

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 sit at the kitchen table today, looking at the backyard. All I see are the weeds I have neglected these past two weeks. I think of last week's Stampshow/NTSS. A huge success on all fronts. It has been announced that the APS will cohost with the ATA once again next year in Omaha, Nebraska.

I suppose we can talk about Dragons, as they were once an explanation of why dinosaur's bones exist. Dragons were everywhere this past weekend, from atop the USPS castle to Perf the Magic Dragon wandering the show floor. The First Day Ceremony was standing room only, as four dragon stamps were revealed. Maids and knights roamed the room, greeting and aiding attendees.

I was hoping to see more Biology Unit members at the show. I realize that the expense of a large show can be prohibitive. Hopefully more people can attend next year as the show will be farther west.

Enjoy the end of summer and what autumn brings, both naturally and philatelically.



CLOSED ALBUM

IN MEMORIAM: ANN M. TRIGGLE (BU1610)

Renowned philatelic judge, exhibitor, and long-time ATA member, Ann Maureen Triggie, died 26 April 2018 in Sarasota, Florida. Ann was named Distinguished Topical Philatelist in 2006, and won the reserve grand award at the National Topical Stamp Show (NTSS) in 1999 for *Ichthyology: a treatise on fishes*.

She was born on 7 April 1935 in Bridgend, South Wales to the late Harold and Kathleen (nee Barrington) Jones. Ann was a Professor at the School of Pharmacy at the University of Buffalo before retiring to Florida. She was founder/director of the School of Pharmacy and Pharmaceutical Sciences Museum there.

She had collections on the topic of coal, as well as on revenues, stationery, and postal history of Wales, British Guinea, and Western New York. Her pioneering exhibit, *Sanitary Inspection Fee Stamps of Rosario, Argentina*, about "ladies of the evening" hooker stamps (also known as "Red Light Revenues"), is available online: rpastamps.org/presentations/ladies/indexoutline.html. She joined the Biology Unit in 1993.

Ann received many philatelic honors, including the John N. Luff Award for outstanding service to philately. She was named a Fellow of the Royal Philatelic Society of Canada (RPSC) and was one of only two persons to concurrently serve on the Boards of both the RPSC and the American Philatelic Society (APS). She also served as both an ATA- and APS-accredited judge.

Ann held offices in ROPEX (Rochester Philatelic Society) and the Sarasota National Exhibition. She served as U.S. commissioner to several international shows. Ann was a member or leader of the American Association of Philatelic Exhibitors (AAPE), American Philatelic Congress (APC), APS Writers Unit 30, Great Britain Collectors Club, Society of Postal Historians, Welsh Philatelic Society, and Collectors' Club of New York.

She chaired the Committee on the Accreditation of National Exhibition Judges (CANEJ) and was awards chair for the Pacific '97 and Washington 2006 International shows.

She is survived by her husband, David.

SECRETARY-TREASURER'S CORNER

NEW MEMBERS

The Biology topic is immensely popular. It is likely that someone in your local club is a collector of something related to zoology or botany. Sign them up. The Biology Unit welcomes the following new members:

1889 José Augusto Reis, Luanda, Angola

insects

TREASURER'S REPORT

This table contains the subject report for this year.

As you can see, the trend of our expenses outstripping our income continues this year. The Board of Directors needs to address this issue.

We appreciate all those who gave donations this year: Applebaum, Barylski, Bono, Brunt, Glatz, Greve, Hanks, Herrmann, Herzog, Jones, Jordan, Law, Prince, Ryan, Setterberg, Skvara, Smith, Svoboda, Van Laere, White, Wongpakdee, and Yagi.

Unpaid Dues

The following members have not paid dues for two years and will be subject to drop: Andrews, Boorman, Brandt, Buda, DeNobile, Felts, Grimstad, Johnson, Kahle, Lerner, McNair, Postal History Foundation, Siegling, Singh, Stout, and Vogel.

See the report on page 171 about the Biology Unit meeting held at NTSS regarding the possibility of a dues increase next year. Now would be a good time to get paid up. Send your renewal form (available on the Unit website (www.biophilately.org) and payment to Chris Dahle, 1401 Linmar Dr. NE, Cedar Rapids, IA 52402.

Description	Amount
Assets (As of 1 May 2018):	
Checking	\$8,552.07
Total	\$8,552.07
Expenses:	
Credit card fees to ATA	\$5.75
PayPal charges	6.36
Domain name	13.95
Website Charges	101.49
Post Office box rental	
Postage Canada	163.89
Postage Foreign	364.38
Postage U.S.	781.00
Printing	1,506.11
Supplies	108.48
Sales tax	105.88
ATA Handbook publishing	438.00
NTSS booth sharing	50.00
Entry fees, literature competition	
Extra mailings	7.50
Total	\$3,652.79
Income:	
Dues	\$1,411.75
Donations	538.50
Total	\$1,950.25

NEWS OF NOTE

DISTINGUISHED TOPICAL PHILATELIST

The American Topical Association's highest award, Distinguished Topical Philatelist, was presented to Cletus Delvaux at the Celebration Banquet of APS StampShow/NTSS on 11 August in Columbus, Ohio. A 39-year ATA member, Delvaux is a prolific philatelic writer and editor.

A retired English teacher from Green Bay, Wisconsin, Clete has written more than 100 articles for *Topical Time*, *Linn's Stamp News*, and other philatelic publications. His primary topics are journalists, authors, and poets on stamps.

Delvaux has been president of the Journalists, Authors, and Poets on Stamps (JAPOS) Study Unit of ATA since 1993. In 2000, he also assumed the position as editor of the *JAPOS Bulletin*, and he also writes extensively for that publication. He is a past president of the Green Bay Philatelic Society and edited its newsletter for 25 years.



ATA President Dale Smith (right) presenting the Distinguished Topical Philatelist award to Cletus Delvaux

UNIT HISTORY

In December of 2013, we published *The Mother of All Indexes*, which contained a complete index of all the issues of *Biophilately* and its forerunners since the beginning of the study unit. The first half of this publication was devoted to a description of the distinguished history of the Biology Study Unit.

At the recent APS-ATA joint stamp show in Columbus, Ohio, I encountered some members of the Unit who did not know about this history. This is disappointing because our study unit is one of the oldest of all the 50-some study units and its members are among the most active and involved in the ATA and in philately in general.

I am very proud of the Biology Study Unit and what it has accomplished in its 67 years of existence and I would like others to know about our Unit and its contributions. Therefore, I am offering to email an electronic copy of *The Mother of All Indexes* to any Unit member who contacts me before 31 December (jackcongrove@comcast.net).



BIOPHILATELY AWARD

The Biology Unit entered our journal, *Biophilately*, in the Philatelic Literature exhibits at the joint NTSS-StampShow in Columbus, Ohio.

It was among 19 exhibits in the Journal category. The jury awarded it a Vermeil medal. While we are pleased that this was a respectable level, it was the same as our last award and we were hoping for an improvement.

According to the evaluation form, the jury wanted to see more philatelic articles to compensate for the long lists of new issues that our readers wish to have. They also made an interesting suggestion that we consider moving the new issues listing information to an online database. This would free up space for more news and articles and enable members to perform a variety of searches. We would like to know your thoughts on this idea.

One other noted comment questioned the dues rate versus production costs, which is a topic discussed below.

All Unit members can help us raise this award level by submitting news items and articles about stamps and other philatelic items they collect. Send your submissions to the editor at the addresses listed inside the cover page.



BIOLOGY UNIT MEETING

The Biology Unit held its annual meeting on Saturday, 11 August at the joint NTSS-StampShow in Columbus, Ohio. The attendance was disappointing. Only seven members and five guests were present. The officers and directors there were Laurie Ryan (President), Chris Dahle (Secretary-Treasurer), and Jack Congrove (Director).

After introductions, the Secretary-Treasurer presented a financial report. Normally these annual membership meetings do not discuss business, but the Unit has been operating at a deficit for the past three years. This year our income was \$1,950, and our expenses were \$3,653. This included a one-time expense of \$438 to help publish the *Amphibians* handbook. If we do not do something to counteract this trend, then we will soon deplete our treasury.

The greatest expense we have by far is the printing and mailing of this journal. Last year the printing costs were \$1,506. Postage cost an additional \$1,309. We only took in \$1,412 in dues payments.

The Unit has not raised its dues since 2001. Currently, the print dues are \$20 for the US and Canada and \$25 for overseas delivery. The dues for electronic copy only are \$15. The print dues are obviously not sufficient to cover our printing and mailing costs.

Several ideas were discussed by the attendees that boil down to two options: (1) increase the dues and (2) encourage members to opt for the electronic version of the publication. Currently, print members also have access to the electronic version via the Unit website (www.biophilately.org).

The advantages of the electronic option are not only in the favor of the organization, but the members received their copy much more quickly and it is all in color. Also, because the articles are separated, the member can select only those of interest to view and download. There is no need to download the entire volume. Electronic members can also print their downloaded file at home if they want to save a paper copy.

Suggestions were offered for increasing the print dues to \$25 for US, \$32 for Canada, and \$48.50 for Overseas. The electronic membership would remain at \$15. Roger Van Laere suggested that we change our membership form so that the default is to receive the electronic version and members would have to opt to receive print copies.

The Unit Board of Directors will be discussing these matters in the near future and will make a decision on the dues levels in time for membership renewal at the first of the year.

ERROR DISCOVERY

Jack R. Congrove, BU1424

On 9 August 2018, at the APS-ATA joint show in Columbus, Ohio, the US Postal Service issued a self-adhesive pane of 16 stamps containing four different designs depicting stylized dragons. I was third in line at the postal station when it opened at 10:00 AM and purchased 15 panes for use on some cacheted covers I had prepared.



Regular Pane of Dragon Stamps

After my purchase, I went to help at the ATA booth. The ATA had also prepared sets of cachets with different designs for sale on each day. Because Vera Felts, the ATA Executive Director, was busy organizing the booth, she had not yet purchased stamps for placing on the covers. To save time and speed up getting them cancelled and ready for sale at the booth, I began using my stamps to place on the covers.

Shortly thereafter Vera brought about 70 panes that she had purchased for their covers. I replaced the stamps I had used from my purchase with those and began using the ATA's stamps on the rest of the covers.

By then Larry Davidson, one of our Biology Unit members, was also helping apply the stamps. After using perhaps five or six panes, I picked a new pane and tried to remove one of the stamps from the bottom row. It would not peel away and I looked closely to find that the die cuts had shifted about 60 millimeters toward the top of the pane and into the top margin. This left the bottom row of stamps totally imperforate.

I showed the pane to Larry and we agreed that it was an error. We searched the pile of remaining panes and found the next 13 panes with similar die cut shifts, some of which were not as severe.



Error pane highlighted to show die cut shift

With Vera's permission, I took the panes to the nearby Scott Publishing booth to show to Jay Bigalke, the Editor of *Linn's Stamp News*. He was speaking with another person and when he finished, he turned to me and saw I was holding several of the panes.

"Please don't tell me they omitted the metallic ink," he said.

"I can't tell you that, but they omitted the die cuts," I replied.

He took one of the panes and his eyes widened. He turned to me and said, "This looks like a major error," to which I agreed.

"I'm trying to contain my excitement," he said. So was I.

He asked permission to hold on to one of the panes to scan for a report on the discovery in *Linn's*, which Vera granted. The ATA plans to sell the panes to raise funds for the organization.

Some might say that discovering a major error on a US stamp is a once-in-a-lifetime event. It certainly was a highlight of the show for me. See page 14 in the 3 September 2018 edition of *Linn's Stamp News* for a report on this discovery.

NATIONAL TOPICAL STAMP SHOW 2018

Jack R. Congrove, BU1424

Our parent organization, the American Topical Association (ATA), held its annual National Topical Stamp Show (NTSS) in a joint venture with the American Philatelic Society (APS) StampShow on 9–12 August 2018, at the Greater Columbus Convention Center in Columbus, Ohio. Both the NTSS and StampShow are American Philatelic Society sponsored World Series of Philately (WSP) national-level exhibitions.

If I attend 100 stamp shows in my life, it will be hard to top this one. This was the largest stamp show in the United States in 2018. The bourse contained 111 dealers and there were almost 1,000 frames of philatelic exhibits. In addition, there were four postal agencies including the United States Postal Service and the United Nations Postal Administration. More than 40 societies and other philatelic organizations were in attendance.

There was a lot of excitement and energy on the show floor during the whole weekend. On Friday morning after the first day, there was a meeting of the dealers and the show organizers. One dealer who attended reported to the ATA that without exception, the dealers were very pleased with the energy on the show floor and attendance and also were very impressed with the results of the joint effort by the APS and the ATA.

Attendance was strong on all four days and dealers I spoke with all reported excellent sales. At least one dealer even exceeded his sales at the New York 2016 show, which was double the number of days as this one.

The USPS went all out to support the show and built a castle right in the middle of the show floor. One side held the sales counter and on the other side clerks from the Kansas City Distribution Center expertly applied cancellations. One said after the first day, she felt her arm was going to fall off.

The USPS had a busy week also with new issues. On Tuesday, before the start of the show, they issued five designs in a pane of 20 stamps and a souvenir sheet of three for the Art of Magic in Las Vegas, Nevada.

On Thursday, at the APS-NTSS, they held a first day ceremony to issue a pane of 16 stamps with four different designs depicting stylized dragons. The APS and ATA used the dragon theme throughout the entire show. Hence the USPS castle. See the story on page 172 about a major error found at the show.

On Saturday, the USPS issued the second of their airmail stamps celebrating the 100th anniversary of the US Airmail Service in College Park, Maryland. Each of these new stamps, plus all of the current issues were on sale at the show.



USPS Castle (photo by Igor Grigorian)



Standing room only at the first day ceremony for the Dragon stamps (photo by Igor Grigorian)

The USPS ran out of each new issue at show and had to reorder/restock multiple times.

The USPS brought in sales clerks from Cincinnati to supplement the local Columbus district. All clerks were very professional and efficient. I spoke with one on Sunday who was from the Columbus district. She told me that all the clerks had really enjoyed the show. I kiddingly asked her if the USPS had covered their expenses and she just smiled. But she added that she had spent half of her extra pay on stamps. I asked her what she collected and she said she was not a collector, but she really liked the new designs. I think she, like many others, got caught up in the enjoyment that was happening all over the show.

The UN Postal Administration held a pre-launch ceremony where they unveiled the designs for the next issue in the UN Educational, Scientific, and Cultural Organization (UNESCO) World Heritage stamp series. The six designs, two each for the UN offices in New York, Geneva, and Vienna, depict scenes throughout England. The UNPA offered the stamps for sale starting on 9 August in advance of their official 15 August official release date.

Both the APS and the ATA spent a lot of effort on publicizing the show and this work appeared to pay off handsomely. Early on Thursday morning, a crew from the ABC television station and its affiliates came to the show hall and conducted live interviews with many of the ATA and APS organizers. This feature, Good Day Columbus, has a big following and the host, Cameron Fontana, is a popular local personality. You can find these interviews recorded on line at www.gooddaycolumbus.com.

All during the show, there were costumed characters present to greet attendees and provide photo opportunities. They also handed out the Dragon passports.



Good Day Columbus interview with ATA members Dawn Hamman and Wayne Youngblood



A page (Trevor Hanna), "Perf" the Magic Dragon (Mara Hartzell), Her Majesty Queen Jennifer (Jennifer Miller), and Princess Chloe (Chloe Miller) ready to greet show guests



ATA Booth with Tony Curiale, Dawn Hamman, Jeff Hayward, and Larry Davidson with *What's First?*
(photo by Igor Grigorian)

The Ebony Society of Philatelic Events and Reflections (ESPER) was the ATA featured study unit. They had their own society booth at the show. Other study units that manned individual booths were the Christmas Philatelic Club, Penguins on Stamps Study Unit, Space Unit, and United Nations Philatelists. Several units including the Biology Unit displayed single frame exhibits (see page 177).

The ATA had a large booth at the entrance next to the APS booth. It was very busy throughout the show. Rasdale Stamp Company provided a large donation to help sponsor the booth. The Biology Unit also provided a donation to help sponsor the booth along with seven other ATA study units.

The ATA signed up an unprecedented 65 new and reinstated members. Preliminary reports indicate that the ATA took in more than \$8,500 in sales at the show. These statistics are exceptionally encouraging.

The ATA offered several special items for sale to everyone. The *Taste of Topicals* packets that contain topical stamps and covers along with a few topical album pages to mount them on were very popular with show goers. Well over 100 sets were sold. The ATA offered checklists, normally available only to members, to everyone on the subjects of Ohio and Dragons, but these did not sell as well as hoped.

The ATA's newest publication, *What's First?*, was offered for the first time. This 335-page handbook seeks to answer the question, "What was the first stamp to feature each topic?" It covers more than 800 topics and contains high-quality images of more than 700 stamps. Did you know that the first stamp to feature the Statue of Liberty was issued by neither the US nor France? It was Uruguay (Sc#217) issued in 1919.

The author, Jack Gray, who passed away in 2017, spent 30 years researching and writing the descriptions. This entertaining handbook will be a helpful reference not only for topical collectors, but also for any exhibitors by providing them with useful philatelic research. The book is available from the ATA at a price of \$40 plus shipping for either the print or DVD version.

At the Celebration Banquet, Wayne L. Youngblood, editor of the ATA's magazine *Topical Time*, received the Luff Award for Outstanding Service to the American Philatelic Society. The Luff Award is the most prestigious award given by the APS. Also receiving the award were Denise L. Stotts and John H. Barwis.

The ATA held its annual board meeting and annual general meeting at the show. Four new members were inducted to the board: Tom Broadhead, Carol Costa, John Leszak, and Don Neal.



Executive Director Vera Felts swears in new ATA Board members Carol Costa, Tom Broadhead, and Don Neal
(photo by Igor Grigorian)

Series Champion of Champions competition among all the Grand Award winners from the 30+ national WSP shows that take place around the US and Canada. This year there were 25 exhibits in the competition. The CoC prize this year went to James Allen representing the St. Louis Expo show for *The First United States 12¢ Stamp Series of 1851–1861*.

In addition to the CoC exhibits, there were separate sections for the NTSS and the APS Open exhibitions. Each section received its own medal awards and its own Grand, Reserve Grand, and Most Popular awards. But the special awards from the various societies and other sponsors were shared across both sections.

The Biology Unit provided First, Second, and Third Awards for exhibits that achieved a Vermeil or higher level award and that best incorporated some aspect of biological science, or a biological subject. The Biology Third Award went to Chris Dahle for *An Introduction to the Evolution of Plants*, which also received a Vermeil medal. His prize appropriately was an art glass pumpkin.



Wayne Youngblood accepting the Luff Award
(photo by Igor Grigorian)

Among the speakers at the show was our own Laurie Ryan who gave a presentation Friday morning on *JRR Tolkien, the Hobbit, and Dragons*.

This show was a combined philatelic exhibition. The APS StampShow is always the venue for the annual World

The Biology Second Award went to Roger Van Laere for *Atlantic Puffin: Icon of the Isle of Lundy*, which also was awarded a Gold medal. His prize was an art glass whale.

The Biology First Award went to Dawn R. Hamman for *Backyard Chickens – Raising Chickens at Home, Then and Now*. This exhibit received a Large Gold medal and also won the NTSS Most Popular Award. Her Biology prize was an art glass paperweight with an embedded image of a glass jellyfish.

In the APS Open section, Mark Thompson won the Most Popular Award and a Large Vermeil medal for *Women of the Black Heritage Series – From the Fields of Slavery to the Halls of Congress*.



Dawn Hamman with her Biology First Award
(photo by John Hamman)



Chris Dahle with his
Biology Third Award

The APS Open offered two Reserve Grand Awards. Ian Gibson-Smith received one for *The Hong Kong “China” Overprints*. Daniel Knowles received the other for *The Confederate States of America (CSA) Postal Initiative*, which also won the Postal History Society award.

Charles C. Wooster won the APS Open Grand Award for *The Postage Due Issues of Peru 1874–1948*, which also received the APS Research Award.

On the NTSS side, Carl Jennings won the Reserve Grand Award for *Ancient Egypt: The Time of the Pharaohs*, which also received the American Association of Philatelic Exhibitors Award for Excellence – Epilogue.

Jack Congrove received the NTSS Grand Award for *Alexander Hamilton: Soldier, Financier, Statesman, Founder*. Both the APS Open and the NTSS Grand Award winners are eligible to compete in the Champion of Champions event next year in Omaha, Nebraska.

You can find a high quality video report on the show here: <https://www.youtube.com/watch?v=5blmEro1G30>. It was made by Graham Beck, who produces interesting and entertaining YouTube videos titled *Exploring Stamps*.

The success of this show and the cordial relationship that has developed between the APS and the ATA has influenced both organizations to try the joint show concept again next year in Omaha, Nebraska. The show is scheduled for 1–4 August.

Next year the ATA will be celebrating its 70th anniversary and there are big plans in the works already to make this a must attend event. Next year is also the 150th anniversary of the First Transcontinental Railroad and the show theme is going to be Trains.

I have no doubt that there will be plenty of imaginative implementations of the railroad theme. Perhaps the model railroad hobby will be involved along with Railway Post Office mail and many other related activities. Stay tuned for more information and make your plans now to be there.



Jack Congrove accepting the NTSS Grand Award
from APS Vice President Trish Kaufmann
(photo by Igor Grigorian)

STAMP STORIES

Jack R. Congrove, BU1424

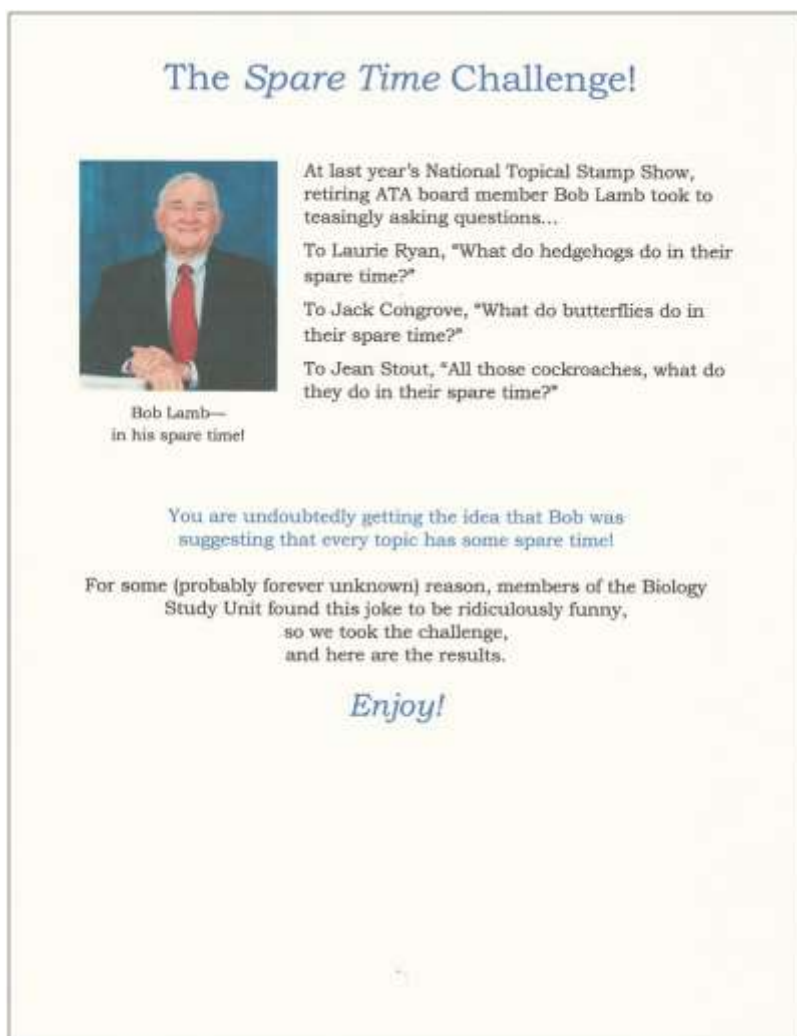
Members of the Biology Unit combined to create a one-frame exhibit for the joint ATA-APS show this year in Columbus, Ohio. The Unit chose a humorous theme based on a conversation with former ATA Board member Bob Lamb at last year's National Topical Stamp Show.

He asked Laurie Ryan, "What do hedgehogs do in their spare time?" And to Jean Stout, "All those penguins, what do they do in their spare time?"

For some (probably forever unknown) reason, members of the Biology Study Unit found this joke to be ridiculously funny. So, the idea was born to create one-page "mini-exhibits" on each topic to fill a frame for the joint show. This article is the first of a series that will show each of the resulting pages shown in the exhibit.

Here is a list of the pages and contributors. We will include images of all the pages in upcoming editions of the journal.

1. Title Page: Dawn Hamman
2. Biology Unit Description: Jack Congrove
3. Beaver Spare Time: Larry Davidson
4. Butterfly Spare Time: Jack Congrove
5. Butterflies (continued): Jack Congrove
6. Chicken Spare Time: Dawn Hamman
7. Cockroach Spare Time: Jean Stout
8. Donkey Spare Time: Bob Mather
9. Frog Spare Time: Vic Eichler
10. Hedgehog Spare Time: Laurie Ryan
11. Pelican Spare Time: Susan Jones
12. Stegosaurus Spare Time: Susan Jones
13. Tomato Spare Time: Dawn Hamman
14. Trees Spare Time: Chris Dahle
15. Paleontology (filler): Jack Congrove
16. Paleontology (filler): Jack Congrove



BIOLOGY STUDY UNIT of the ATA

The Biology Unit has the distinction of being the second oldest study unit in the American Topical Association. It was founded on 22 May 1951, by Homer L. Jones and six other collectors. It has grown to include a total of almost 1,900 members over the period of its existence. Other than perhaps the very general topic of notable persons, biological themes form the largest category of topical postage stamp issues.

From its very beginning, its members were involved with the production of topical listings. The Unit has supported more ATA Handbooks than any other starting with HB1-2, *Biology Philately*, and including three handbooks on Horses, six on Flowers and Plants, five on Birds, four on Insects and Invertebrates, two on Fish, two on Pharmacy, and four on various Mammals including Bats and Bears.

Thirty of the 121 recipients (nearly one-quarter) of the Distinguished Topical Philatelist award, the highest honor bestowed by the ATA, have been members of the Biology Unit.

The Biology Unit, throughout its history, has been a leader in the field of topical philately. It was the first study unit to produce topical handbooks and its members have been responsible for the publication of more ATA handbooks than any other unit. It was the first to provide a special topical exhibit award. It has provided leaders not only to many other philatelic organizations, but also to the scientific and educational communities. Its Unit journal, *Biophilately*, is one of the oldest philatelic periodicals in continuous existence, and its members have many received philatelic and academic honors.

Collecting stamps portraying the natural world has long been one of the most popular topical pursuits. These always head popularity listings of thematic subjects. Collecting all plants and animals on stamps is virtually impossible, but concentrating on a single topic, or a narrower field is the conventional approach.



souvenir sheet, Czech Republic, 4 September 2013
depicting the flora and fauna of the Karlštejn region
all species of plants & animals are identified by their scientific name except for two (can you find them?)

HOW THE “LOVE” SYMBOL CAME TO BE

Dr. Vic Eichler, BU1850

It is commonly thought that the symbol that so popularly displays “Love” and appears on valentines is derived from the shape of the human heart, but this is not so. The image is derived not from the shape of the heart, but rather from the arrangements of vessels that are symmetrically formed in the early embryonic development of mammals, including humans.

The symmetrical pattern of vessels is shown on a 1988 Denmark stamp (Figure 1) that commemorates the 40th Anniversary of the World Health Organization (WHO). This pattern develops in all animals with backbones: fish through mammals.

This stamp illustrates the distribution of the blood vessels in the human **embryo** that leave the heart to supply the rest of the body with food and oxygen.

Although the heart is not included in this image, it would be positioned where the letters WHO are found. The red and blue lines together represent the arrangement of vessels that provide blood to the body as viewed from below and make up the popular valentine shape that represents the “LOVE” symbol.



Fig. 1. Embryo Vessels
Denmark, 1988, Sc#852

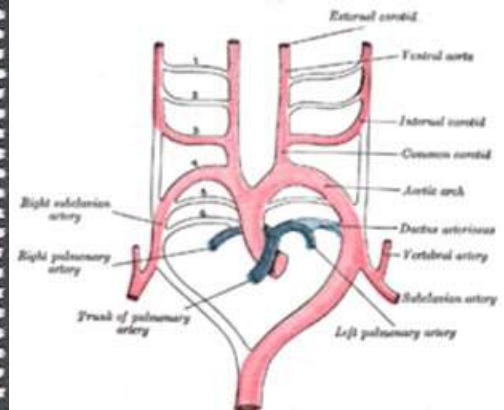


Fig. 2. Adult Blood Vessel Pattern

In mammals, parts of some vessels—those colored blue on the stamp—are lost as development continues to the adult condition. The large red arch on the right side of this view becomes what we call the aortic artery, the main vessel carrying blood to the lower part of the body.

The part of the corresponding arch on the left on the stamp, colored blue, is lost in adults. Compare with Figure 2, the arrangement of vessels in the **adult** human. The uncolored lines in Figure 2 represent parts of the vessels that are lost in the adult condition during subsequent development in humans.

The “heart shape” that is so popular in many cultures around the world is not the shape of the heart at all, but is the form of two major blood vessels that loop around the actual pumping heart in embryos, although in humans and other mammals one of the paired vessels is eventually lost as development proceeds.



Love Stamp
USA, 1992, Sc#2618



Love Stamp
USA, 1990, Sc#2441



Love Stamp
USA, 2014, Sc#4847

AUSTRIA OAK TREE

Austrian Post continued its tradition of unusual stamp materials and shapes with an issue commemorating the 20th anniversary of the Austrian Federal Forestry Office. On 28 July 2017, they issued a 690c (€6.90) stamp in the shape of an oak tree made from actual wood from a Common Oak (*Quercus robur*).

In 2015, they issued a stamp in the shape of lederhosen trousers printed on leather with glass crystals applied to form the buttons. In September 2016, they issued a dirndl (dress) stamp made out of embroidery. And in June 2016, they issued a Madonna stamp printed on an actual piece of glass.

Each oak tree stamp was made from thin sheets of veneer from oak roundwood. Each was made from a single tree trunk originating from the Austrian Federal Forestry Office's territory in Breitenfurt in the Wienerwald. This noble oak was around 210 years old, 100 feet (30 m) tall, and had a diameter of 30 inches (75 cm) at chest height. It was harvested especially to make the stamps.

There is always a risk of chipping and splitting while cutting and smoothing the uneven surface of the wood. To minimize this, they used laser cutting and laser branding to cut out the oak shape from the veneer blank. Each oak wood stamp is unique due to grain patterns. The image was then silkscreened onto the wood blank. The designer was David Grüber. The stamps were printed by Rausgebrannt.

This stamp design received the Asiago award in the category of ecology at a ceremony in Asiago, Italy on 1 July 2018. The annual Asiago awards are considered the Oscars of the stamp design field.



Oak Tree
Austria, 2017, Sc#2688

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THE SAGUARA

Edward N. Munns, BU487

[Ed. Note: This is another in our series of reprints of articles from previous editions of the Unit journal. It was originally published in the October-November 1966 edition of Bio-Philately (Vol. 16, No. 2, p. 85). This article appeared before we had the capability to include illustrations. So, I have tried to enhance it with appropriate images. I have also updated the scientific name to the current one accepted. Throughout this article, the author used "saguara," an out-of-date common name for the saguaro cactus.]

[The saguaro cactus is thriving in the Sonoran Desert in 2017. The announcement of its impending demise in this article was greatly exaggerated and the cause of the loss of some plants was mistakenly attributed to a "disease." See the epilogue following the article for a discussion of the scientific study regarding this situation. It provides a cautionary tale that one should apply continual skepticism when dealing with scientific "facts," especially those that pertain to biological studies.]

[Edward Norfolk Munns (1889–1972) was Head of the U.S. Forest Service's Division of Silvics. He was the author of several books and reports on forestry and forest management. He was also instrumental in proposing and getting approval for the John Muir commemorative stamp (Sc#1245).]

The Giant Cactus (*Carnegiea gigantea*) or Saguaro of Arizona is doomed. By the end of this century, probably only a few plants will remain alive as most are now afflicted with a virus, the cactus cancer. Spread by a moth, this virus is now taking about four percent of the living plants a year, with up to 90 percent of all plants in some areas being affected.

A few survive an attack, but this may be only a temporary condition, not immunity. When the saguaro goes, some of the desert birds and animals that depend on it for food, water, or protection may also vanish. We shall know in another ten or 20 years. Even the Papago Indians will be adversely affected. And all of us will lose the cactus candy.



Carnegiea gigantea
USA, 1953, Sc#1028



Ulmus americana
USA, 1953, Sc#1023

The flower of the Giant Cactus is the state flower of Arizona. It is shown on a four cent stamp issued in 1962, commemorating Arizona's 50th birthday. The stamp also shows a mature plant. Another is depicted on the four cent Gadsden Purchase stamp of 1953.



Carnegiea gigantea
USA, 1962, Sc#1192

America has witnessed similar catastrophes as even species of trees have been all but exterminated as have various species of wildlife. The American Chestnut (*Castanea dentata*) has been killed out by the chestnut blight. The American Elm (*Ulmus americana*) is going fast because of the Dutch Elm disease, and the Bigcone Spruce (*Pseudotsuga macrocarpa*) is threatened by fire.

America has lost the Passenger Pigeon (*Ectopistes migratorius*) and the Heath Hen (*Tympanuchus cupido cupido*) and is in danger of losing the Whooping Crane (*Grus americana*). A Texas Prairie Chicken (*T. cupido attwateri*) may be next and we came close to losing the Wild Turkey (*Meleagris gallopavo*).

The Saguaro grows very slowly, less than an inch per year in height. At 100 years, it may be all of 16 feet tall. It attains a maximum height of about 50 feet when perhaps 200 years old. Blossoms first appear when it is about 30 years old, but in profusion only when about 50. At about 75 years, it begins to form arms

that make such sweeping curves that plant becomes most attractive.

The cactus is a water hog. During any rains, the roots soak up all the water possible. In a single rain storm, the plant may take up 2000–3000 pounds of water that is transpired slowly over the rest of a year.

The spongy inner tissue surrounded by accordion-like pleats, gradually expands with water. This living storage tank is fed by a profusion of thick roots reaching out perhaps 100 feet. During the dry season, the plant shrinks as it loses its water. The normal annual rainfall of the regions in which the cactus grows is from three to ten inches.

Epilogue

As Paul Harvey famously said, “And now the *rest* of the story.” This information is taken from the following study: “Saguaro Disease Investigations” from *Case Study of Research, Monitoring, and Management Programs Associated with the Saguaro Cactus (Carnegiea gigantea) at Saguaro National Monument, Arizona*. Joseph R. McAuliffe. Tucson: University of Arizona. 1993, pp.11–16.

“[I]n 1939 and 1940, [University of Arizona] plant pathologist James G. Brown reported the existence of an unidentified bacterial disease that was afflicting the saguaros of the saguaro forest and other parts of southern Arizona. Survey plots within SAGU [Saguaro National Monument] examined by Brown indicated that up to 20 percent of the giant cactus plants were infected. The supposed causative agent [was] a bacterium (*Erwinia carnegieana*).... The earliest reports, both in the scientific and popular press fueled a hysteria that the saguaro stands of the Sonoran Desert, especially the saguaro forest of SAGU could potentially succumb to the ravages of this disease.

“From the earliest reports, the blackening necrosis that was ravaging the saguaro population at SAGU was referred to as a pathogenic disease. This disease hypothesis, in an era of chestnut blight, Dutch elm disease, and white pine blister rust, was uncritically accepted, and personnel of the US Department of Agriculture (USDA) Bureau of Plant Industry (BPI) began immediately with “disease suppression experiments” in SAGU. The principal goal of the experiment was to determine if spread of the disease could be checked by removing affected plants that were the possible source of inoculation of healthy plants. This was a war-like stand against yet another catastrophic ‘enemy.’”

The USDA selected an entire section of land, on half of which they removed all “diseased” plants, which were then disinfected and buried. They compared the treated half with the adjacent untreated half in which no disease-control measures were taken.

“Subsequent monitoring of this experiment showed no marked differences between the treated and untreated areas in the development of further cases of the “disease.” Investigators from BPI reported this finding but, nevertheless, claimed that the experiments may have held the disease in check to some extent. The repeated assertion of the possible benefit of these experiments without data to back up such statements demonstrates the mind-set of uncritical acceptance of the disease hypotheses under which the plant pathologists were working.”

Some biologists questioned this hypothesis, but research on the bacterial necrosis “disease” continued for at least 20 years. A moth whose larva tunnels in live cactus tissue was identified as the principal vector of the disease. In 1962, biologists extrapolated the losses from the “disease” into the future and predicted extinction of the saguaro forest as Munn mentions in his article.

Despite all this, the hypothesis that a disease was the cause of the saguaro mortality was eventually rejected. The University of Arizona ecologist Charles H. Lowe concluded that catastrophic freezes cause considerable mortality in saguaros at the northern and eastern margins of their range and that the subsequent, but sometimes delayed bacterial decomposition of freeze-killed tissues was mistakenly diagnosed as a “disease.”

In 1911, Forrest Shreve, the pioneer of Sonoran Desert plant ecology, published a short paper titled “The influence of low temperatures on the distribution of the giant cactus.” He argued that the greatest number of consecutive hours of sub-freezing temperatures was the most important factor controlling the northward and upper elevation distributional limits of the saguaro.

Shreve’s experiments went unnoticed for nearly a half century until Lowe explained the catastrophic loss of cacti as a consequence of periodic, prolonged freezing events. The bacterial necrosis first observed in 1939 was the direct consequence of the 1937 freeze event during which temperatures dropped lower than they had for more than 20 years. Lowe and others:

“concluded that the ‘saguaro necrosis disease’ was an extremely mistaken interpretation. Instead, this condition was neither a disease nor cause of death, but rather the consequence of mortality due to freeze damage followed by natural (and often delayed) bacterial decay of moribund plants.”

Lowe’s findings provided better management practices for the National Park Service. The author of this study observes that this more ecological perspective might have been achieved far sooner had those involved with the saguaro “disease” investigations been aware of the seminal work of Shreve.



BOTANY

Editor

Christopher E. Dahle, BU1269

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ALGERIA				
2017 October 16 (Fruits & Vegetables) (Set/4)				
1728	25d	Citrouilles, Squash, <i>Cucurbita pepo</i>	Cucurbitaceae	Fr A
1729	25d	Aubergines, Eggplant, <i>Solanum melongena</i>	Solanaceae	Fr A
1730	25d	Clementines, <i>Citrus clementina</i>	Rutaceae	Fr A
1731	25d	Pêches, Peaches, <i>Prunus persica</i>	Rosaceae	Fr A
ARMENIA				
2017 December 29 (Flora & Fauna) (Set/2)				
1132	230d	Siberian Lily, <i>Ixiolirion tartaricum</i> (=montanum)	Ixioliriaceae	Fl A
AUSTRALIA				
2017 October 6 (Women at War) (Set/5, SS/5, Bklt/10)				
4687	\$1	Poppies, <i>Papaver rhoeas</i> (WWI)	Papaveraceae	Fl B
4688	\$1	Same species (WWII)	Papaveraceae	Fl B
4689	\$1	Same species (Korea & Vietnam)	Papaveraceae	Fl B
4690	\$1	Same species (Afghanistan & Iraq)	Papaveraceae	Fl B
4691	\$1	Same species (Peacekeeping)	Papaveraceae	Fl B
4691a		SS/5 (Sc#4687-91) (perf 14¼)		Fl B SS
4692-96	\$1	Poppies, <i>Papaver rhoeas</i> (like Sc#4687-91)	Papaveraceae	Fl B
4696a		Bklt/10 (2ea Sc#4692-96) (die cut 11¼) (s/a)		
2018 February 6 (With Love) (Set/2)				
4747	\$2	Stylized flower		Fl A S
2018 February 20 (Banksia Flowers) (Set/4, SS/4, Bklt/20)				
4751	\$1	<i>Banksia speciosa</i>	Proteaceae	Fl A
4752	\$1	<i>Banksia grossa</i>	Proteaceae	Fl A
4753	\$1	<i>Banksia coccinea</i>	Proteaceae	Fl A
4754	\$1	<i>Banksia cuneata</i>	Proteaceae	Fl A
4754a		SS/4 (Sc#4751-54) (perf 14¾×14)		Fl A SS
4755	\$1	<i>Banksia speciosa</i>	Proteaceae	Fl A
4756	\$1	<i>Banksia grossa</i>	Proteaceae	Fl A
4757	\$1	<i>Banksia coccinea</i>	Proteaceae	Fl A
4758	\$1	<i>Banksia cuneata</i>	Proteaceae	Fl A
4758a		Bklt/20 (5ea Sc#4755-58) (die cut 11¼) (s/a)		
2018 April 10 (War Memorials: WW I) (Set/5, SS/5, Bklt/10)				
4780		Poppies, <i>Papaver rhoeas</i> (Melbourne)	Papaveraceae	Fl B
4781		Same species (Ballarat)	Papaveraceae	Fl B
4782		Same species (Fromelles, France)	Papaveraceae	Fl B
4783		Same species (Darwin)	Papaveraceae	Fl B
4784		Same species (Canberra)	Papaveraceae	Fl B
4784b		SS/5 (Sc#4780-84) (perf 14¼)		Fl B SS
4785-89		Poppies, <i>Papaver rhoeas</i> (like Sc#4780-84) (diff order)	Papaveraceae	Fl B
4789a		Bklt/10 (2ea Sc#4785-89) (die cut 11¼) (s/a)		

AZERBAIJAN		2017 December 16 (Flora) (MS/6 & SS/2)	
1152a	20g	<i>Ophrys caucasica</i>	Orchidaceae FI A MS
1152b	20g	Snowdrop, <i>Galanthus alpinus</i> (=caucasicus)	Amaryllidaceae FI A MS
1152c	20g	Crocus, <i>Crocus</i> sp.	Amaryllidaceae FI A MS
1152d	20g	Oriental Plane, <i>Platanus orientalis</i>	Platanaceae T A MS
1152e	20g	Persian Ironwood, <i>Parrotia persica</i>	Hamamelidaceae T A MS
1152f	20g	Turkish Pine, <i>Pinus brutia</i> var. <i>eldarica</i> (=P. <i>eldarica</i>)	Pinaceae T A MS
1153a	SS 50g	Snowdrop, <i>Galanthus alpinus</i> (=caucasicus)	Amaryllidaceae FI A MS
1153b	SS 50g	Turkish Pine, <i>Pinus eldarica</i>	Pinaceae T A MS
		2017 December 6 (Landscapes) (MS/8 & 3ea SS/1)	
1158e	20g	Lala Duzu, <i>Anemone coronaria</i>	Ranunculaceae FI A MS
1160	SS 50g	Forest (Lake Goygol)	T B U SS Z
BELARUS		2017 November 3 (100th anniv. Russian Revolution) (Single)	
1067	(1.38r)	Carnations, <i>Dianthus caryophyllus</i>	Caryophyllaceae FI B
BELGIUM		2017 October 23 (Flora & Fauna High Fens Nature Reserve) (MS/10)	
2834h	(74c)	Marsh gentian, <i>Gentiana pneumonanthe</i>	Gentianaceae FI A MS
2834j	(74c)	Sundew, <i>Drosera</i> sp.	Droseraceae V A MS
2834	Margin	Bot: Marsh gentian, <i>Gentiana pneumonanthe</i>	Gentianaceae FI A MS Z
		2018 January 29 (UNESCO: Beer Culture of Belgium) (MS/5)	
2845c	(€1.35)	Hops, <i>Humulus lupulus</i> (harvesting)	Cannabaceae Fr B MS
BOSNIA & HERZEGOVINA		2017 September 11 (Herbs & Spices) (Horiz Strip/5+5 labels)	
785a	90pf	Cinnamon, <i>Cinnamomum cassia</i>	Lauraceae V A
785b	90pf	Basil, <i>Ocimum basilicum</i>	Lamiaceae V A
785c	90pf	Caraway Seeds, <i>Carum carvi</i>	Apiaceae Fr A
785d	90pf	Dill, <i>Anethum graveolens</i>	Apiaceae V A
785e	90pf	Bay Leaves, <i>Laurus nobilis</i>	Lauraceae V A
		2017, October 25 (Mulberries) (SS/1)	
790	SS 1.50m	L: Mulberries, <i>Morus alba</i>	Moraceae Fr B SS Z
		R: Mulberries, <i>Morus nigra</i>	Moraceae Fr B SS Z
BOSNIA & HERZEGOVINA (Croat Admin.)		2017 November 1 (Flowers) (Horiz Pair) (scented)	
363a	2.70m	Curry plant, <i>Helichrysum italicum</i> (denom LL)	Asteraceae FI A
363b	2.70m	Same species (denom UL)	Asteraceae FI A
BOSNIA & HERZEGOVINA (Serb Admin.)		2017 September 21 (Flora) (Block or Strip/4)	
581a	90pf	Sunflower, <i>Helianthus annuus</i>	Asteraceae FI A
581b	90pf	Soybeans, <i>Glycine max</i>	Fabaceae FI A
581c	90pf	Flax, <i>Linum usitatissimum</i>	Linaceae FI A
581d	90pf	Cannabis, <i>Cannabis sativa</i>	Cannabaceae FI A
		2017 September 14 (Tuberculosis Tax Stamp) (Single)	
RA41	20pf	Rose of Sharon, <i>Hibiscus syriacus</i> (obligatory 14–21 Sep)	Malvaceae FI A
RA41a	20pf	Same species (imperf)	Malvaceae FI A
BOTSWANA		2017 December 5 (Flowers) (Set/4)	
1036	1p	<i>Drimia sanguinea</i>	Asparagaceae FI A
1037	5p	<i>Orbea knobelli</i>	Apocynaceae FI A
1038	7p	<i>Hibiscus trionum</i>	Malvaceae FI A
1039	10p	<i>Hoodia gordonii</i>	Apocynaceae FI A

CANADA		2018 March 1 (Lotuses) (SS/2, Horiz Pair & Bklt/10)			
3087a	(85c)	Sacred Lotus, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl A	
3087b	(85c)	Yellow Lotus, <i>Nelumbo lutea</i>	Nelumbonaceae	Fl A	
3087		SS/2 (Sc#3087a–b) (perf 13)			
3088	(85c)	Sacred Lotus, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl A	
3089	(85c)	Yellow Lotus, <i>Nelumbo lutea</i>	Nelumbonaceae	Fl A	
3089a		Horiz Pair (Sc#3088–89) (die cut 8) (s/a)			
3090	(85c)	Sacred Lotus, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl A	
3091	(85c)	Yellow Lotus, <i>Nelumbo lutea</i>	Nelumbonaceae	Fl A	
3091a		Bklt/10 (5ea Sc#3090-91) (die cut 13½) (s/a)			
CARIBBEAN NETHERLANDS		2018 April 3 (Forests) (3ea MS/4)			
91a–d	99c	Various U/I plants from Cactus Forest (inscr. “Bonaire”)	Cactaceae	V A U	
92a–d	99c	Various U/I plants from Mist Forest (inscr. “Saba”)		T A U	
93a–d	99c	Various U/I plants from rain Forest (inscr. “Sint Eustatius”)		T A U	
CHINA (Taiwan)		2018 (Wild Orchids) (Set/7 perf & Set/2 die cut)			
4395	\$8	<i>Calanthe puberula</i> (perf 13½×13)	Orchidaceae	Fl A	
4396	\$15	<i>Calanthe sieboldii</i> (perf 13½×13)	Orchidaceae	Fl A	
4397	\$16	<i>Habenaria dentata</i> (perf 12½)	Orchidaceae	Fl A	
4398	\$22	<i>Neottia meifongensis</i> (perf 12½)	Orchidaceae	Fl A	
4399	\$23	<i>Dendrobium chryseum</i> (perf 12½)	Orchidaceae	Fl A	
4400	\$28	<i>Bulbophyllum pectinatum</i> (perf 13×13½)	Orchidaceae	Fl A	
4401	\$43	<i>Dendrobium linawianum</i> (perf 12½)	Orchidaceae	Fl A	
4402	\$8	<i>Calanthe puberula</i> (die cut 13½×13) (s/a)	Orchidaceae	Fl A	
4403	\$28	<i>Dendrobium chryseum</i> (die cut 13×13½) (s/a)	Orchidaceae	Fl A	
CROATIA		2018 March 21 (Fruit & Nuts) (Set/3 & 3ea Bklt/10)			
1059	3.10k	Cornelian Cherry, <i>Cornus mas</i>	Cornaceae	Fr A	
1059a		Bklt/10			
1060	3.10k	Chestnut, <i>Castanea sativa</i>	Fagaceae	Fr A	
1060a		Bklt/10			
1061	3.10k	Blueberry, <i>Vaccinium myrtillus</i>	Ericaceae	Fr A	
1061a		Bklt/10			
		2018 April 12 (Protected Food Products) (Set/3)			
1064	3.10k	Cres Extra Virgin Olive Oil, <i>Olea europaea</i>	Oleaceae	Fr B	
1065	3.10k	Naretva Valley Tangerines, <i>Citrus reticulata</i>	Rutaceae	Fr A	
CYPRUS		2018 February 12 (Wild flowers of Cyprus) (Set/4)			
1290	34c	Round-headed Leek, <i>Allium sphaerocephalon</i>	Amaryllidaceae	Fl A	
1291	41c	<i>Anthemis tricolor</i>	Asteraceae	Fl A	
1292	64c	Veined Sainfoin, <i>Onobrychis venosa</i>	Fabaceae	Fl A	
1293	\$2	Salsify, <i>Tragopogon porrifolius</i>	Asteraceae	Fl A	
DJIBOUTI		2018 March 15 (Orchids) (MS/4 & SS/1)			
1445a	240fr	<i>Laeliocattleya</i> sp.	Orchidaceae	Fl A MS	
1445b	240fr	Bee Orchid, <i>Ophrys apifera</i>	Orchidaceae	Fl A MS	
1445c	240fr	Blue Orchid, <i>Vanda coerulea</i>	Orchidaceae	Fl A MS	
1445d	240fr	Butterfly Orchid, <i>Anacamptis papilionacea</i>	Orchidaceae	Fl A MS	
1465	SS 950fr	<i>Phalaenopsis lueddemanniana</i>	Orchidaceae	Fl A SS	
	Margin	R: Small-flowered Tongue-orchid, <i>Serapias parviflora</i>	Orchidaceae	FL A SS Z	
ECUADOR		2017 November 27 (Tourism) (Bklt/8)			
2203a	25c	Mist Growing Oncidium, <i>Caucaea nubigena</i>	Orchidaceae	Fl A	
2203b	25c	Yellow Ipé, <i>Handroanthus chrysanthus</i>	Bignoniaceae	T A	

GREAT BRITAIN (England)		2018 March 20 (Regional) (see <i>Plants on Stamps Vol. V</i> , p. 67)	
37	£1.25	Oak Tree, <i>Quercus robur</i>	Fagaceae T A
38	£1.45	Tudor Rose, <i>Rosa</i> sp.	Rosaceae FI A
GREAT BRITAIN (Scotland)		2018 March 20 (Regional) (see <i>Plants on Stamps Vol. V</i> , p. 67)	
51	£1.25	Thistle, <i>Onopordum acanthium</i>	Asteraceae FI A
GREAT BRITAIN (Wales & Monmouthshire)		2018 March 20 (Regional) (see <i>Plants on Stamps Vol. V</i> , p. 67)	
49	(56p)	Leek, <i>Allium ampeloprasum</i>	Amaryllidaceae FI A
51	£1.25	Daffodil, <i>Narcissus pseudonarcissus</i>	Amaryllidaceae FI A
GREAT BRITAIN (Jersey)		2018 February 14 (Jersey Seasons: Spring) (Set/8)	
2117	63p	Daffodils in Rozel Woods, <i>Narcissus pseudonarcissus</i>	Amaryllidaceae FI A
MOROCCO		2013 May 7 (High Commission for Water & Forests Centenary) (Set/2)	
1165	3.50d	U/I trees	T A U
NEPAL		2017 (Flora) (Set/6)	
1056	1r	<i>Dryopteris cochleata</i>	Dryopteridaceae V A
1057	1r	<i>Lycopodium japonicum</i>	Lycopodiaceae V A
1058	2r	<i>Cyathea spinulosa</i>	Cyatheaceae V A
1059	2r	<i>Drynaria propinqua</i>	Polypodiaceae V A
1060	3r	<i>Nephrolepis cordifolia</i>	Nephrolepidaceae V A
1061	3r	<i>Tectaria gemmifera</i> (= <i>coadunata</i>)	Tectariaceae V A
NETHERLANDS		2017 April 24 (Plants in Dutch Botanical Gardens) (MS/10 & 5× Bklt/2)	
1548a	(78c)	Purple Coneflower, <i>Echinacea purpurea</i>	Asteraceae FI A MS
1548b	(78c)	Dawn Redwood, <i>Metasequoia glyptostroboides</i>	Cupressaceae T A MS
1548c	(78c)	Flamevine, Orange Trumpetvine, <i>Pyrostegia venusta</i>	Bignoniaceae FI A MS
1548d	(78c)	Yellow Pitcher Plant, <i>Sarracenia flava</i>	Sarraceniaceae FI A MS
1548e	(78c)	Black False Hellebore, <i>Veratrum nigrum</i>	Melanthiaceae FI A MS
1548f	(78c)	Ginkgo, <i>Ginkgo biloba</i>	Ginkgoaceae T A MS
1548g	(78c)	Italian Lords-and-Ladies, <i>Arum italicum</i>	Araceae Fr A MS
1548h	(78c)	Vanilla Orchid, <i>Vanilla planifolia</i>	Orchidaceae FI A MS
1548i	(78c)	Harlequin Glorybower, <i>Clerodendrum trichotomum</i>	Lamiaceae FI A MS
1548j	(78c)	Belladonna, <i>Atropa belladonna</i>	Solanaceae FI A MS
1548k		Bklt/2 (Sc#1548a & Sc#1548f)	
1548l		Bklt/2 (Sc#1548b & Sc#1548g)	
1548m		Bklt/2 (Sc#1548c & Sc#1548h)	
1548n		Bklt/2 (Sc#1548d & Sc#1548i)	
1548o		Bklt/2 (Sc#1548e & Sc#1548j)	
		2017 July 17 (Life in the North Sea) (Vert Strip/5 & 5× Bklt/2)	
1551d	(78c)	Bladder Wrack, <i>Fucus vesiculosus</i>	Fucaceae V A
		Seaweed, <i>Gracilariopsis longissima</i>	Gracilariaceae V A
1551		Vert Strip/5 (Sc#1551a–e) (perf 13¼×12¾)	
1551i	(78c)	Bladder Wrack, <i>Fucus vesiculosus</i>	Fucaceae V A
		Seaweed, <i>Gracilariopsis longissima</i>	Gracilariaceae V A
1551n		Bklt/2 (Sc#1551i) (perf 14½)	
		2017 July 17 (Art in Voorlinden Museum) (MS/10+10 labels)	
1552c	(78c)	Flowers and landscaping, <i>Tagetes erecta</i> ; <i>Dahlia x hybrida</i>	Asteraceae FI B MS
1552i	(78c)	Untitled by Robert Zandvliet & flower, <i>Galanthus nivalis</i>	Amaryllidaceae FI B MS
		2017 September 11 (Viktor & Rolf, Fashion designers) (MS/10)	
1555a	(78c)	Stylized flower drawing	FI A S MS

NIGER		2014 April 25 (Millet) (Single)			
1376	35fr	Millet, <i>Pennisetum glaucum</i>	Poaceae	Fr	A
OMAN		2016 October 23 (4th Festival of Omani Dates) (Single)			
588	100b	Dates, <i>Phoenix dactylifera</i>	Arecaceae	Fr	A
		2017 July 18 (Salalah Tourism Festival) (MS/15)			
601c	150b	Yellow flower, <i>Argemone mexicana</i>	Papaveraceae	Fl	A
601f	150b	Small tree, Frankincense? <i>Boswellia sacra</i>	Burseraceae	T U	A
601h	150b	Pink flower, <i>Capparis spinosa</i>	Capparaceae	Fl	A
601j	150b	U/I flowering plants and tree		Fl T U	A
601l	150b	U/I small tree		T U	A
601m	150b	U/I field of red violet flowers		Fl U	A
601o	150b	U/I white flower		Fl U	A
PALESTINIAN AUTHORITY		2013 November 29 (Declaration of the State of Palestine) (MS/5)			
238c	200f	Olive tree, <i>Olea europaea</i> (w/ woman)	Oleaceae	T B	MS
238e	200f	Anemone, <i>Anemone coronaria</i> (w/ sunbird)	Ranunculaceae	Fl B	MS
		2015 October 10 (Figs & Olives) (Set/2 & SS/1)			
277	480f	Figs, <i>Ficus carica</i>	Moraceae	Fr	B
		Green & Black Olives, <i>Olea europaea</i>	Oleaceae	Fr	B
278	920f	Fig leaf, <i>Ficus carica</i>	Moraceae	V	B
		Olive branch, <i>Olea europaea</i>	Oleaceae	V	B
279	SS 1200f	Olives, <i>Olea europaea</i> (on trees)	Oleaceae	Fr T B	SS
		Figs, <i>Ficus carica</i>	Moraceae	Fr T B	SS
		2016 November 15 (Stylized Olive Tree) (Set/3)			
300	200f	Olive tree, <i>Olea europaea</i>	Oleaceae	T A	S
301	1400f	Olive tree, <i>Olea europaea</i>	Oleaceae	T A	S
302	4500f	Olive tree, <i>Olea europaea</i>	Oleaceae	T A	S
		2017 April 5 (Faqqau'a Iris) (Single & SS/1)			
309	500f	<i>Iris</i> 'Faqqu'a'	Iridaceae	Fl	A
310	SS 1500f	<i>Iris</i> 'Faqqu'a'	Iridaceae	Fl A	SS
		2017 August 25 (Dates) (Set/3 & SS/1)			
313	150f	Medjool Dates, <i>Phoenix dactylifera</i>	Arecaceae	Fr	A
314	200f	Behri Dates, <i>Phoenix dactylifera</i>	Arecaceae	Fr	A
315	500f	Hayani Dates, <i>Phoenix dactylifera</i>	Arecaceae	Fr	A
316	SS 1500f	Date Palms, <i>Phoenix dactylifera</i>	Arecaceae	T A	SS
PAPUA NEW GUINEA		2017 August 28 (Banana Varieties) (Set/4, MS/4 & SS/1)			
1881	75t	Buka, <i>Musa × paradisiaca</i>	Musaceae	Fr	A
1881	1.50k	Goum, <i>Musa × paradisiaca</i>	Musaceae	Fr	A
1883	3.40k	Itonia, <i>Musa × paradisiaca</i>	Musaceae	Fr	A
1884	6.80k	Arawa, <i>Musa × paradisiaca</i>	Musaceae	Fr	A
1185a	75t	Baby Bananas, <i>Musa × paradisiaca</i>	Musaceae	Fr	A
1885b	1.50k	Duma, <i>Musa × paradisiaca</i>	Musaceae	Fr	A
1885c	3.40k	Buburi, <i>Musa × paradisiaca</i>	Musaceae	Fr	A
1885d	6.80k	Abaus, <i>Musa × paradisiaca</i>	Musaceae	Fr	A
1886	SS 13k	Kalapua, <i>Musa × paradisiaca</i>	Musaceae	Fr A	SS
PARAGUAY		2017 March 13 (Interamerican Bank Governors Meeting) (SS/3)			
3057b	2000g	Wheat, <i>Triticum aestivum</i>	Poaceae	Fr A	MS

PARAGUAY (continued)		2017 March 28 (Flowers & Butterflies) (MS/6+2 labels)	
3058a	700g	<i>Cereus forbesii</i>	Cactaceae FI A MS
3058b	700g	<i>Harrisia bonplandii</i>	Cactaceae FI A MS
3058f	2500g	<i>Echinopsis rhodotricha</i>	Cactaceae FI A MS
		2017 June 8 (Visit of Patriarch Kiril) (Horiz Pair)	
3061b	9000g	L: Jasmine, <i>Jasminum officinale</i>	Oleaceae FI B
		R: Chamomile, <i>Chamaemelum nobile</i>	Asteraceae FI B
		2017 September 29 (National Secretary of Youth) (Horiz Pair + label)	
3069a	1000g	Cactus flower	Cactaceae FI U A
3069b	3000g	Cactus flower (w/ hummingbird)	Cactaceae FI U B
PHILIPPINES		2016 (Fruit Type of 2015) (Set/10)	
The following entries (Sc#3651–60) were omitted from the list in Biophilately Vol. 66 (3), Sep 2017.			
3651	1p	Egg Fruit, <i>Pouteria campechiana</i>	Sapotaceae Fr A
3652	5p	Philippine Wild Raspberry, <i>Rubus rosifolius</i>	Rosaceae Fr A
3653	12p	Tangerine Orange, <i>Citrus reticulata</i>	Rutaceae Fr A
3654	12p	Grapes, <i>Vitis vinifera</i>	Vitaceae Fr A
3655	13p	Star Fruit, <i>Averrhoa carambola</i>	Oxalidaceae Fr A
3656	14p	Pomelo, <i>Citrus maxima</i>	Rutaceae Fr A
3657	15p	Star Apple, <i>Chrysophyllum cainito</i>	Sapotaceae Fr A
3658	17p	Calamansi, <i>Citrus × microcarpa</i>	Rutaceae Fr A
3659	35p	Sweet Tamarind, <i>Tamarindus indica</i>	Fabaceae Fr A
3660	45p	Durian, <i>Durio zibethinus</i>	Malvaceae Fr A
		2017 (Fruit Type of 2015) (inscr. “2017”)	
3651a	1p	Egg Fruit, <i>Pouteria campechiana</i>	Sapotaceae Fr A
3652a	5p	Philippine Wild Raspberry, <i>Rubus rosifolius</i>	Rosaceae Fr A
3654a	12p	Grapes, <i>Vitis vinifera</i>	Vitaceae Fr A
3656a	14p	Pomelo, <i>Citrus maxima</i>	Rutaceae Fr A
3658a	17p	Calamansi, <i>Citrus x microcarpa</i>	Rutaceae Fr A
3660a	45p	Durian, <i>Durio zibethinus</i>	Malvaceae Fr A
		2017 (Fruit Type of 2015) (Set/6)	
3714	3p	Wild Sweet Sops, <i>Rollinia deliciosa</i>	Annonaceae Fr A
3715	23p	Bignays, <i>Antidesma bunius</i>	Phyllanthaceae Fr A
3716	28p	Coconuts, <i>Cocos nucifera</i>	Arecaceae Fr A
3717	43p	Apples, <i>Malus domestica</i>	Rosaceae Fr A
3718	40p	Tamarinds, <i>Tamarindus indica</i>	Fabaceae Fr A
3719	100p	Dragon Fruit, Pithaya, <i>Hylocereus undatus</i>	Cactaceae Fr A
		2017 August 8 (50th anniv. ASEAN) (Single)	
3734	12p	Jasmine, <i>Jasminum sambac</i> (w/ foil application)	Oleaceae FI A
		2017 October 16 (Endemic Flowers) (Block/4)	
3741a	12p	<i>Medinilla cordata</i>	Melastomataceae FI A
3741b	12p	<i>Begonia gutierrezii</i>	Begoniaceae FI A
3741c	12p	<i>Begonia cumingii</i>	Begoniaceae FI A
3741d	12p	<i>Hoya buotii</i>	Apocynaceae FI A
		2017 November 4 (National Flowers ASEAN Members) (MS/4+4 labels)	
3744a	17p	Sampauita, <i>Jasminum sambac</i> (Philippines)	Oleaceae FI A MS
3744b	17p	Miss Joaquim Orchid, <i>Papilionanthe</i> ‘Miss Joaquim’ (Singapore)	Orchidaceae FI B MS
		Rumdul, <i>Sphaerocoryne affinis</i> (Cambodia)	Annonaceae FI B MS
		Melati Putih, <i>Jasminum sambac</i> (Indonesia)	Oleaceae FI B MS

PHILIPPINES (continued)

3744c	17p	Dok champa, <i>Plumeria rubra</i> (Laos)	Apocynaceae	Fl B MS
		Rachaphruek, <i>Cassia fistula</i> (Thailand)	Fabaceae	Fl B MS
		Lotus, <i>Nelumbo nucifera</i> (Viet Nam)	Nelumbonaceae	Fl B MS
3744d	17p	Padauk, <i>Pterocarpus macrocarpus</i> (Myanmar)	Fabaceae	Fl B MS
		Simpur, <i>Dillenia</i> spp. (Brunei)	Dilleniaceae	Fl B MS
		Hibiscus, <i>Hibiscus rosa-sinensis</i> (Malaysia)	Malvaceae	Fl B MS

PORTUGAL**2017 June 17** (Portuguese Textile Industry) (Set/4 & SS/1)

3924	63c	Linen: Flax flower, <i>Linum usitatissimum</i>	Linaceae	Fl B
3927	SS €2	Cotton: Bolls, <i>Gossypium</i> sp.	Malvaceae	Fr B SS

2017 July 10 (Trees of the Mediterranean) (Set/4)

3940	50c	Cork Oak, <i>Quercus suber</i>	Fagaceae	T A
3941	63c	Iberian Pear, <i>Pyrus bourgaeana</i>	Rosaceae	T A
3942	80c	Strawberry Tree, <i>Arbutus unedo</i>	Ericaceae	T A
3943	85c	Olive, <i>Olea europaea</i>	Oleaceae	T A

ROMANIA**2017 January 25** (Wild Orchids) (Set/4 in MS/4 & SS/4)

5896	2.20l	Dark-red Helleborine, <i>Epipactis atrorubens</i>	Orchidaceae	Fl A
5896a		MS/4		
5897	4.50l	White Helleborine, <i>Cephalanthera damasonium</i>	Orchidaceae	Fl A
5897a		MS/4		
5898	8l	Lady Orchid, <i>Orchis purpurea</i>	Orchidaceae	Fl A
5898a		MS/4		
5899	15l	Broad-leaved Helleborine, <i>Epipactis helleborine</i>	Orchidaceae	Fl A
5899a		MS/4		
Note		SS/4 (Sc#5896–99) (printed in limited quantities)		

2017 March 17 (National Flowers, Flags & Maps) (Set/4 in MS/5)

5913	1.50l	Peony, <i>Paeonia peregrina</i> (Romania)	Paeoniaceae	Fl B
5913a		MS/5+1 label		
5914	4.50l	Basil, <i>Ocimum basilicum</i> (Moldova)	Lamiaceae	Fl B
5914a		MS/5+1 label		
5915	8l	Iris, <i>Iris croatica</i> (Croatia)	Iridaceae	Fl B
5915a		MS/5+1 label		
5916	15l	Rose, <i>Rosa damascene</i> (Bulgaria)	Rosaceae	Fl B
5916a		MS/5+1 label		

2017 April 7 (Symphony of Tulips Floral Exhibition) (Set/4 in MS/5)

5928–31		Tulips, <i>Tulipa</i> × <i>hybrida</i> (w/ buildings superimposed)	Liliaceae	Fl B
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2017 June 29 (Bucharest Municipality Museums) (Set/6 & SS/1)

5962	2.70l	Ptg: “Cherries” by Theodore Aman, <i>Prunus avium</i>	Rosaceae	Fr B
5962a		MS/4		

2017 September 15 (Cacti) (Set/4 in MS/4 & SS/4)

5995	3.50l	Totem Pole Cactus, <i>Lophocereus schottii</i>	Cactaceae	Fl A
5995a		MS/4		
5996	4l	Chenille Prickly Pear, <i>Opuntia aciculata</i>	Cactaceae	Fl A
5996a		MS/4		
5997	4.50l	Pineapple Cactus, <i>Coryphantha sulcata</i>	Cactaceae	Fl A
5997a		MS/4		
5998	15l	Devilshead, <i>Echinocactus horizonthalonius</i>	Cactaceae	Fl A
5998a		MS/4		
Note		SS/4 (Sc#5995–98)		

ROMANIA (continued)		2017 September 29 (Berries) (Set/4 in MS/5+1 label)		
6001	2.20l	Sea Buckthorn, <i>Elaeagnus rhamnoides</i> (= <i>Hippophae</i> r.)	Elaeagnaceae	Fr A
6001a		MS/5+1 label		
6002	3.50l	Hawthorn, <i>Crataegus monogyna</i>	Rosaceae	Fr A
6002a		MS/5+1 label		
6003	8l	Dog rose, <i>Rosa canina</i>	Rosaceae	Fr A
6003a		MS/5+1 label		
6004	15l	Wild strawberry, <i>Fragaria vesca</i>	Rosaceae	Fr A
6004a		MS/5+1 label		
RUSSIA		2018 March 21 (Lilac Varieties) (Block/4)		
7905a	30r	Nadezhda, <i>Syringa vulgaris</i>	Oleaceae	Fl A
7905b	30r	Krasavitsa Moskvyy, <i>Syringa vulgaris</i>	Oleaceae	Fl A
7905c	30r	Gortenziya, <i>Syringa vulgaris</i>	Oleaceae	Fl A
7905d	30r	Dzhambul, <i>Syringa vulgaris</i>	Oleaceae	Fl A
ST. THOMAS & PRINCE IS.		1992 April 19 (Flora & Fauna Type 1991) (see <i>Plants on Stamps Vol. III</i> p.303)		
1054N	800d	U/I yellow flowers		Fl A U
SAN MARINO		2018 June 5 (San Marino Jinja) (SS/2)		
2023a	€2	Cherry Blossoms, <i>Prunus serrulata</i>	Rosaceae	Fl B Z
SINGAPORE		2017 August 6 (50th anniv. ASEAN) (Single & SS/1)		
1850	(30c)	Miss Joaquim Orchid, <i>Papilionanthe</i> 'Miss Joaquim'	Orchidaceae	Fl A
1851	SS \$5	Miss Joaquim Orchid, <i>Papilionanthe</i> 'Miss Joaquim'	Orchidaceae	Fl A
SLOVENIA		2018 March 23 (Medicinal Plants) (Set/3 & SS/1)		
1268	€1	Yarrow, <i>Achillea millefolium</i>	Asteraceae	Fl A
1269	€1.15	Sage, <i>Salvia officinalis</i>	Lamiaceae	Fl A
1270	€1.26	Lungwort, <i>Pulmonaria officinalis</i>	Boraginaceae	Fl A
1271	SS €1.29	Wolf's Bane, Mountain Arnica, <i>Arnica montana</i>	Asteraceae	Fl A
SOUTH AFRICA		2017 October 6 (Winemaking) (MS/5)		
1570c	(9.15r)	Vineyards, <i>Vitis vinifera</i>	Vitaceae	V A
1570d	(9.15r)	Harvesting Grapes, <i>Vitis vinifera</i>	Vitaceae	Fr B
SUDAN		2016 (Surcharges)		
657	£10	Picking Cotton, <i>Gossypium</i> sp. (Sc#156a surch)	Malvaceae	Fr B
SURINAM		2017 October 11 (Fruit) (Block/6)		
1513a	\$3	Custard Apple, <i>Annona reticulata</i>	Annonaceae	Fr A
1513b	\$5	Key Lime, <i>Citrus × aurantiifolia</i>	Rutaceae	Fr A
1513c	\$6	Coconut, <i>Cocos nucifera</i>	Arecaceae	Fr A
1513d	\$7	Barbados Cherry, <i>Malpighia glabra</i>	Malpighiaceae	Fr A
1513e	\$8	Mammee Apple, <i>Mammea americana</i>	Calophyllaceae	Fr A
1513f	\$9	Mango, <i>Mangifera indica</i>	Anacardiaceae	Fr A
		2017 December 19 (Flora & Fauna) (SS/1)		
1522	SS \$5	Daytime Encyclia, <i>Encyclia diurna</i>	Orchidaceae	Fl A
SWEDEN		2017 November 16 (Winter Flowers) (Horiz Strip/5 & Bklt/10)		
2808a	(7k)	Arum Lilies, <i>Zantedeschia aethiopica</i>	Araceae	Fl Fr B
		Christmas Rose, <i>Helleborus niger</i>	Ranunculaceae	Fl Fr B
		Mistletoe, <i>Viscum album</i>	Santalaceae	Fl Fr B
2808b	(7k)	Christmas Rose, <i>Helleborus niger</i>	Ranunculaceae	Fl A
2808c	(7k)	Christmas Rose, <i>Helleborus niger</i>	Ranunculaceae	Fl A
2808d	(7k)	Hyacinth, <i>Hyacinthus orientalis</i>	Asparagaceae	Fl A

SWEDEN (continued)

2808e	(7k)	Christmas Rose, <i>Helleborus niger</i>	Ranunculaceae	Fl A
2808f		Bklt/10 (2ea Sc#2808a–e)		

TAJIKISTAN**2017 August 2** (Flowers & Insects, Bandung 2017) (Set/3)

481	3.50s	Rose, <i>Rosa</i> sp. (w/ butterfly)	Rosaceae	Fl A
482	4.20s	Lotus, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl A
483	5.80s	Orchids, <i>Phalaenopsis</i> sp. (w/ butterfly)	Orchidaceae	Fl A

THAILAND**2017 August 8** (50th anniv. ASEAN) (Single)

2967	3b	Golden Shower, <i>Cassia fistula</i>	Fabaceae	Fl A
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2017 November 15 (New Year) (Set/6)

2983	3b	Roses, <i>Rosa</i> sp.	Rosaceae	Fl A
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TONGA**2017 December 4** (Christmas) (Block/4)

1333b	2.25pa	Palm Trees, <i>Cocos nucifera</i>	Arecaceae	T A
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TURKEY**2017 September 29** (Turkish Cuisine) (MS/4)

3563	Margin	LL: Watermelon, <i>Citrullus lanatus</i>	Cucurbitaceae	Fr B MS Z
		Bot: Oranges, <i>Citrus sinensis</i>	Rutaceae	Fr B MS Z
		Bot: Avocados, <i>Persea americana</i>	Lauraceae	Fr B MS Z
		Bot: Figs, <i>Ficus carica</i>	Moraceae	Fr B MS Z
		LR: Bananas <i>Musa x paradisiaca</i>	Musaceae	Fr B MS Z

2018 January 5 (Legumes) (Set/6)

3581	20k	Lentils, <i>Lens culinaris</i>	Fabaceae	Fr V A
3582	2l	Cowpea, <i>Vigna sinensis</i>	Fabaceae	Fr V A
3583	3l	Fasulye, Beans, <i>Phaseolus vulgaris</i>	Fabaceae	Fr V A
3584	4l	Barbunya, Cranberry Bean, <i>Phaseolus vulgaris</i>	Fabaceae	Fr V A
3585	6.50l	Broad Bean, Fava Bean, <i>Vicia faba</i>	Fabaceae	Fr V A
3586	14l	Chickpeas, <i>Cicer arietinum</i>	Fabaceae	Fr V A

2017 July 31 (Flowers) (Set/9)

O355	10k	Carnation, <i>Dianthus caryophyllus</i>	Caryophyllaceae	Fl A S
O356	20k	Carnation, <i>Dianthus caryophyllus</i>	Caryophyllaceae	Fl A S
O357	50k	Carnation, <i>Dianthus caryophyllus</i>	Caryophyllaceae	Fl A S
O358	75k	Carnation, <i>Dianthus caryophyllus</i>	Caryophyllaceae	Fl A S
O359	1l	Tulip, <i>Tulipa</i> sp.	Liliaceae	Fl A S
O360	1.50l	Tulip, <i>Tulipa</i> sp.	Liliaceae	Fl A S
O361	1.80l	Tulip, <i>Tulipa</i> sp.	Liliaceae	Fl A S
O362	5.80l	Tulip, <i>Tulipa</i> sp.	Liliaceae	Fl A S
O363	12.50l	Tulip, <i>Tulipa</i> sp.	Liliaceae	Fl A S

UKRAINE**2017 August 18** (Medicinal & Melliferous Plants) (Set/4)

1113	4h	Greater Celandine, <i>Chelidonium majus</i>	Papaveraceae	Fl A
1114	4h	Linden, <i>Tilia cordata</i>	Malvaceae	Fl A
1115	5h	Comfrey, <i>Symphytum officinale</i>	Boraginaceae	Fl A
1116	5.80h	Chicory, <i>Cichorium intybus</i>	Asteraceae	Fl A

2017 December 19 (Beauty & Greatness of Ukraine: Zhytomyr) (MS/4)

1138	Margin	UR: Hops, <i>Humulus lupulus</i>	Cannabaceae	Fr B MS Z
		UL: Flax flowers, <i>Linum usitatissimum</i>	Linaceae	Fl B MS Z

UNITED NATIONS (Geneva)**2018 April 6** (World Health Day) (Set/2)

651	2fr	Apple, <i>Malus domestica</i> (w/ child, pencil, triangle)	Rosaceae	Fr B S
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UNITED STATES		2018 April 21 (Peace Rose) (Bklt/20)		
5280	(50c)	Peace Rose, <i>Rosa × hybrida</i> 'Peace'	Rosaceae	Fl A
		2018 July 4 (O Beautiful) (Pane/20)		
5298c	(50c)	Wheat field, <i>Triticum aestivum</i> (w/ rainbow-Kansas)	Poaceae	V B
5298e	(50c)	Wheat field, <i>Triticum aestivum</i> (Wisconsin)	Poaceae	V B
5298h	(50c)	Wheat field, <i>Triticum aestivum</i> (Montana)	Poaceae	V B
5298n	(50c)	U/I flowers		Fl U B
5298o	(50c)	Vineyard, <i>Vitis vinifera</i>	Vitaceae	V B
URUGUAY		2017 December 18 (Colonia Department of Tourism) (Horiz Pair)		
2615a	20p	<i>Heterothalamus alienus</i>	Asteraceae	Fl A
VIET NAM		2017 June 10 (Ginseng) (Single)		
3572	3000d	Ginseng, <i>Panax vietnamensis</i>	Araliaceae	V A
		2017 August 8 (50th anniv. ASEAN) (Single)		
3574	3000d	Lotus, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl A

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NEW PLANTS IN THE PHILATELIC HERBARIUM

Christopher E. Dahle, BU1269

Cerastium latifolium ssp. *pyrenaicum* CARYOPHYLLACEAE

Common names: Pyrenean Mouse-ear

Synonyms: *C. endressianum*, *C. latifolium*, *C. pyrenaicum*

Perennial, growing 5–15 cm, found above 2,200 m in rocky areas. Blooms August–September with solitary flowers. Endemic to the Pyrenees.

Andorra (French Admin) Sc#783 issued 13 November 2017, in a set of two featuring flora and fauna. Creation of Broll & Prascida, Engraving by Pierre Albuissou, Layout by Stéphanie Ghinéa. Printed by intaglio in panes of 50.



Acacia tortuosa FABACEAE

Common names: Twisted Acacia, Hubada, Huisachillo, Poponax

Synonyms: *A. seifriziana*, *A. subtortuosa*, *Mimosa tortuosa*, *Poponax tortuosa*, *P. venosa*, *Prosopis microphylla*

Tree 4.5–6 m grows in limestone soils from Texas and southern Florida southward through the Caribbean, Central America to northern South America. Yellow flowers appear March–May. Seedpod 7–8 cm is covered with hairs. Evergreen foliage of feathery, small leaves, persisting seedpods, and brutal thorns in pairs at leaf bases.

Aruba Sc#582. Issued 11 October 2017 in a set of eight flower stamps designed by Nigel Matthew.



Meconopsis merakensis PAPAVERACEAE

This newly described species (2016) has two varieties, var. *merakensis* with blue-purple flowers and var. *albolutea*. Currently, var. *merakensis* is known only from Merak and Sakteng region of Eastern Bhutan, while var. *albolutea*, which differs from the other varieties in having white or yellow petals, is also found in Western Arunachal Pradesh, India.

Bhutan Sc#1583c. Issued 9 October 2017 in MS/8.



Meconopsis polygaloides PAPAVERACEAE

This species is not found in *The Plant List* database (www.theplantlist.org). A search on Google brings up no results for *M. polygaloides* (inscribed on the stamp) or *M. polygaloides*. However *M. polygonoides* on the Meconopsis Group web page (<http://www.meconopsis.org/species/newclassification.html>) is a synonym for *M. lyrata*.

Bhutan Sc#1583e. Issued 9 October 2017 in MS/8.



Meconopsis bhutanica PAPAVERACEAE

Perennial herb 22–50 cm tall covered with whitish hairs. Inflorescence bears 6–19 saucer- to cup-shaped, half-nodding, blue-purple flowers in late June and July. Found on unstable scree slopes, moraines, and streamside gravel at altitudes of 3,800–4,400 m in western Bhutan.

Bhutan Sc#1583f. Issued 9 October 2017 in MS/8.

***Odontochilus elwesii* ORCHIDACEAE**

Synonyms: *Anoectochilus daoensis*, *A. elwesii*, *A. purpureus*, *Cystopus elwesii*, *O. purpureus*

Terrestrial, 15–25 cm tall. Stem ascending or erect, somewhat robust, six- or seven-leaved. Leaves pale red or pale green to deep green to dark greenish purple and sometimes with three reddish veins, 1.5–5 cm by 1–3 cm. Two to three flowers 2.5 cm appear on erect inflorescence 6–10 cm tall with pubescent bracts. Damp places in evergreen broad-leaved forests, bamboo forests, valleys; 300–1,500 m. Chinese Himalayas, Assam, eastern Himalayas, Myanmar, Thailand,

Vietnam, and Taiwan.

Bhutan Sc#1585g. Issued 26 October 2017 as a MS/8 and a souvenir sheet.

***Cyripedium tibeticum* ORCHIDACEAE**

Common names: Tibetan Cyripedium, Zi Zang Shao Lan

Synonyms: *C. compactum*, *C. corrugatum*, *C. corrugatum* var. *obesum*, *C. froschii*, *C. languinosum*, *C. macranthon* var. *tibeticum*, *C. macranthos* var. *tibeticum*, *C. tibeticum* var. *froschii*

Small sized, cold growing terrestrial with an erect, glabrous, leafy stem enveloped completely by three tubular, acuminate sheaths and carrying to three ciliate leaves that bloom in May until July on a short, drooping, single flowered (10 cm diameter) inflorescence arising before the leaves mature. Grows on wet

limestone stony substrates in partial shade, favors much light, but abundant fresh and cool air. Found in montane meadows, at the margins of coniferous and mixed deciduous forest, and more rarely on limestone ledges and screes between about 2,300 and 4,200 m in Bhutan, Sikkim, Chumbi, and western China

Bhutan Sc#1585h. Issued 26 October 2017 as a MS/8 and a souvenir sheet.

***Bomarea ovallei* ALSTROEMERIACEAE**

Common name: Lion's claw

Synonyms: *Alstroemeria ovallei*, *Bomarea ovallei* f. *albiplumbea*, *Bomarea ovallei* f. *lutea*, *Leontochir ovallei*

Herbaceous, xerophytic perennials with underground stems and swollen storage roots. Leaves opposite or whorled on stems that can reach 1 m in length. Red or yellow flowers 2–5 cm, consist of six tepals. Inflorescence up to 10 cm in diameter is honey scented. Found in full sun on rocky, steeply sloping terrain in

the Atacama Desert of northern Chile.

Chile Sc#1654a. Desert Flowers issued 25 October 2017 in Block/4. Designed by Mauricio Navarro G. Printed by offset on semi-bright paper, 102 g/m², in a quantity of 200,000.

***Leucocoryne vittata* AMARYLLIDACEAE**

Common name: Andean Glory-of-the-Sun, Huilli

Small bulbous plant, 30 cm, with upright purplish flowers with white middle stripes appear in spring above narrow leaves. Native of open spots in shrubs, in winter rainfall region of Chile.

Chile Sc#1654b. Desert Flowers issued 25 October 2017 in Block/4.



***Argylia radiata* BIGNONIACEAE**

Synonyms: 12

Hemicryptophytic perennial growing 0.2 to 1 m. Leaves cluster near base are palmately 5–11 foliate and variably pubescent. Inflorescence a simple long pedunculate terminal raceme with 10–12 tubular flowers. Flowers are yellow to red or deep maroon, appearing September to December. Found in arid areas with long dry spells lasting 6–10 months, with winter precipitation, in full sun on level areas or north facing slopes between sea level and 2,000 m. Endemic to Chile and Peru.



Chile Sc#1654c. Desert Flowers issued 25 October 2017 in Block/4.

***Rhodophiala phycelloides* AMARYLLIDACEAE**

Common Name: Red Añañuca

Synonyms: *Amaryllis phycelloides*, *Habranthus phycelloides*, *Hippeastrum phycelloides*, *Myostemma phycelloides*, *Phycella phycelloides*

Leaves up to 6 mm wide, glaucous, arising at flowering time. Stems 15–30 cm high. Flowers three to six red almost tubular flowers with flared tips and exerted stigmas. From Central Andes of Chile where they spend the winter under snow at 2,000 m.

Chile Sc#1654c. Desert Flowers issued 25 October 2017 in Block/4.

***Cheirostylis octodactyla* ORCHIDACEAE**Synonyms: *C. inabae*, *C. oligantha*

Rhizomatous terrestrial herb, 5–15 cm tall, with ascending pale reddish brown, fleshy stem carrying three to six, scattered along the stem, pale green to green, ovate to elliptic, abruptly narrowing into the petiolate base, leaves. Blooms in the late summer and early fall on an erect, short to less than 1 cm long, 2 to 3 flowered inflorescence. Flowers white tubular, 1 cm. Found in Thailand, Vietnam, the Philippines, and Taiwan in damp areas of forests at 1,000 to 2,400 m.

China (Taiwan) Sc#4591. Issued on 16 November 2017. Designed by Chi-jen Lai. Printed in offset by China Color Printing Co. Ltd. on phosphorescent stamp paper in sheets of 100. Quantity: 5 million.

***Carex lyngbyei* CYPERACEAE**

Common name: Lyngbye's Sedge.

Synonyms: 36

Perennial rhizomatous herb. Leaves: basal sheaths red-brown; stems 0.25–1 m. Inflorescence of stiff nodding spikes. Blooms April–July, fruiting July–August. A pioneering species, often dominant in coastal salt marshes, brackish marshes. Circumboreal, south to N. California.

Faroe Islands Sc#682. Issued on 15 May 2017 to commemorate the 100th anniversary of the visit of botanist Hans Christian Lyngbye to the Faroe Islands to collect seaweed and investigate algal flora. Designers Kim Simonsen and Ole Wich. Offset printing by La Poste, France.



***Ilex graciliflora* AQUIFOLIACEAE**

Evergreen tree 6-9 m. Flowers in April, fruits October to February. Fruit red 5–6 mm. Found in woods and thickets, low to middle elevations in Hong Kong and Lantau Island.

Hong Kong Sc#1866. Issued 17 August 2017 in a set of 4 featuring Rare and Precious Plants. To help promote public awareness of nature conservation, the stamps are printed on Forest Stewardship Council (FSC™) certified paper. Printed by Joh Enschedé BV, the Netherlands in sheets of 25.

***Begonia hongkongensis* BEGONIACEAE**

Species described in 2005. Rhizomatous perennial herbs. Five to six basal leaves 4–14 cm by 2–4.5 cm, with short hairs along the veins. White flowers 2–2.5 cm appear July to September with fruiting from October to December. Found on moist rocks by streams in evergreen secondary forest on granite mountains 150–350 m. Found only on Jiujing Mountain in Hong Kong.

Hong Kong Sc#1868. Issued 17 August 2017 in a set of 4.

***Illicium angustisepalum* SCHISANDRACEAE**

Common name: Lantau Star Anise

Synonyms: *I. jiadifengpi* f. *minwanense*, *I. minwanense*, *I. wuyishanum*

Trees to 3 m. Leathery leaves in clusters of 3–6 at apex of branches. Leaves 7–12 cm by 2–4 cm. Flowers white or pale yellowish have 22–33 membranous tepals appearing February to April. Fruit have 11–16 follicles with 5–8 seeds. Found on sides of ravines on forest margins at 1,000–1,900 m on Sunset Peak and Lantau Peak in Hong Kong.

Hong Kong Sc#1869. Issued 17 August 2017 in a set of 4.

***Nuphar pumilum* var. *ozeense* NYMPHAEACEAE**

Perennial herb growing in water to 20–100 cm. Rhizomes bear the long petioles, with round-cordate leaves float on the water. Yellow flowers bloom on elongated stalks July to August. Corolla has petaloid sepals and spatulate petals. Flower is defined by the red, center stigma disk. Fruits are pear-shaped berries. Endemic to Japan, and found in the Sorachi and Soya districts of Hokkaido, Mount Gassan, and Oze of Honshu. Not a recognized name.

Japan Sc#4101c. Issued 28 April 2017 as the National Monument Series No.2.

***Berberis iliensis* BERBERIDACEAE**

Synonym: *B. nummularia* var. *schrenkiana*

Deciduous shrubs 1–2.5 m. Spines 1–3 cm on branches. Leaves grayish-green are oblong-elliptic and papery. Inflorescence bears 10–25 flowers with small petals 3.5 × 2 mm. Flowering period May to June. Berries are shiny red, ovoid-ellipsoid from July to September. Grows in dry regions in sandy places 600–2,000 m in western China and Kazakhstan.

Kazakhstan Sc#826a. Issued 25 September 2017 Designed by K. Pluzhnikova. Printed by offset in four colors by RUE "Bobruisk Integrated Printing House named after A.T. Nepogodin." Quantity: 20,000



***Hedysarum mindshilkense* FABACEAE**

Herbaceous perennial. Generally with odd-pinnate leaves, with entire leaflets in this genus. Distribution: Kazakhstan, Uzbekistan.

Kazakhstan Sc#832c. Issued 25 September 2017 to publicize the Katatau Nature Reserve as a souvenir sheet with two animals and one plant. Designer A. Zhaylibekova. Printed by offset in four colors by RUE "Bobruisk Integrated Printing House named after A.T. Nepogodin." Quantity 30,000.



***Solenanthus krasniqi* BORAGINACEAE**

Herbaceous. Found in mountain hay meadows, on limestone substrate. Only 12–15 individual plants remain. Not a recognized name.

Kosovo Sc#338. Issued 3 March 2017 in a set of three endemic flowers.

***Tulipa luanica* LILIACEAE**

New species described in 2014. Perennial herb. Three to four linear lanceolate leaves 14–19 cm by 2–5 cm from the base. Flowers solitary ~5×4 cm, erect, campanulate pink, dark pink, Persian pink, rose, or Persian rose, in late April to late May.

Capsules dehisce mid-July to August. Grows on limestone substrate from a single location on Mt. Pashtriku in southern Kosovo near Albanian border.

Kosovo Sc#340. Issued 3 March 2017 in a set of three endemic flowers.



***Ornithoglossum calcicola* COLCHICACEAE**

Common name: Limestone Lily

Perennial geophyte to 35 cm. Foliage dies off during dry spells and plants become dormant. Endemic in Namibia.

Namibia Sc#1350. Issued 15 June 2017 in a set of three, "Flame Lilies of Namibia." Designer Helge Denker. Printed by Lowe Martin Company, Inc. Quantity 20,000

***Hexacyrtis dickiana* COLCHICACEAE**

Common name: Namib Lily

Deciduous, perennial, psammophilous, herbaceous geophyte with a truncated corm that can grow up to 70 cm. Smooth lance shaped leaves to 15 cm long. Yellow-green flowers are maroon on the tips of the petals, the stamens grows spreading outwards. Flowers on ramified stems, hanging, to 4 cm in diameter. The round fruits are fleshy. Flowers September to October. Found on sand dunes at altitudes of 400–800 m in Namibia.

Namibia Sc#1352. Issued 15 June 2017 in a set of three, "Flame Lilies of Namibia."



***Hydrastis canadensis* RANUNCULACEAE**

Common name: Goldenseal, Orangeroot, Yellow Puccoon

Perennial herb 15–30 cm with three shiny, palmate leaves. Stem terminates in white flower with yellow stamens in April–May. Petals drop and color is from many stamens. Red fruit appear in a cluster. Found in deep rich woods in eastern North America from Vermont to Minnesota south to the mountains of Georgia, Alabama, Tennessee, and Arkansas.

United Nations (New York) Sc#1191 issued 2 March 2018 for the 25th Endangered Species series. Designer: Rorie Katz of the UN. Artist: Rhonda Nass of USA. Printed by offset lithography by Joh Enschedé Stamps and Security Printers B.V. (Netherlands). 16,000 sheets of 16 were printed.

***Uncarina grandidieri* PEDALIACEAE**

Common name: Succulent Sesame, Mouse-trap Tree, Unicorn Tree

Synonyms: *Harpagophytum dimidiatum*, *H. grandidieri*, *Uncarina dimidiata*

Deciduous, succulent shrub or small tree, 3–5 m. Cordate, tomentose, leaves are fuzzy and sticky to touch. Solitary flowers, 5–7 cm, yellow with dark throat. From Madagascar.

United Nations (Geneva) Sc#647 issued 2 March 2018 for the 25th Endangered Species series. Designer: Rorie Katz, UN. Artist: Brigid Edwards, UK. Printed by offset lithography by Joh Enschedé Stamps and Security Printers B.V. (Netherlands). 17,000 sheets of 16 stamps were printed.

***Hoodia pilifera* APOCYNACEAE**

Common name: Hoodia

Synonyms: *Piarranthus pilifer*, *Stapelia pilifera*, *Stisseria pilifera*

Leafless succulent, slow growing desert shrub to 80 cm. Has 20–34 ridges of spiny tubercles. Flowers saucer shaped, dark purple to almost black, 3 cm, foul smelling. Found in Karoo region of South Africa on steep shale slopes or near the foot of sandstone mountains, usually on hotter, northern aspects, occasional it is found on flat areas and cooler, southern slopes.

United Nations (Vienna) Sc#616 issued 2 March 2018 for the 25th Endangered Species series. Designer: Rorie Katz, UN. Artist: Juan Muñoz, Spain. Printed by offset lithography by Joh Enschedé Stamps and Security Printers B.V. (Netherlands). 19,000 sheets of 16 stamps were printed.





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

2018 March 15 (Mushrooms & Fauna) (MS/4 & SS/1)

1399a	240fr	Chanterelle, <i>Cantharellus cibarius</i>	Cantharellaceae	B
1399b	240fr	no common name, <i>Entoloma hochstetteri</i>	Entolomataceae	B
1399c	240fr	Amethyst Deceiver, <i>Laccaria amethystina</i>	Hydnangiaceae	B
1399d	240fr	Penny Bun, <i>Boletus edulis</i>	Boletaceae	B
1417	SS 950fr	The Sickener, <i>Russula emetica</i>	Russulaceae	B
	Margin	R: Wood Blewit, <i>Clitocybe nuda</i>	Tricholomataceae	Z

ESTONIA

2017 September 21 (Mushrooms) (Single)

852	65c	Brown Roll Rim, <i>Paxillus involutus</i>	Paxillaceae	A
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SURINAM

2017 August 16 (Mushrooms) (MS/6)

1510a	\$1	Dotted-stem Bolete, <i>Neoboletus luridiformis</i> (Cap: <i>Boletus erythropus</i>)	Boletaceae	A
1510b	\$2	Lurid Bolete, <i>Boletus luridus</i>	Boletaceae	A
1510c	\$3	Pine Bolete or Pinewood King Bolete, <i>Boletus pinophilus</i>	Boletaceae	A
1510d	\$4	Deceiving Bolete, <i>Suillellus queletii</i> (Cap: <i>Boletus queletii</i>)	Boletaceae	A
1510e	\$7	Summer Cep, <i>Boletus reticulatus</i>	Boletaceae	A
1510f	\$8	Bitter Bolete, <i>Tylopilus felleus</i>	Boletaceae	A

2018 March 14 (Mushrooms) (Vert Strip/4)

1530a	(50c)	<i>Imperator rhodopurpureus</i> (Cap: <i>Boletus rhodopurpureus</i>)	Boletaceae	A
1530b	\$15	<i>Rubroboletus rhodoxanthus</i> (Cap: <i>Boletus rhodoxanthus</i>) (☠)	Boletaceae	A
1530c	\$19	Satan's Bolete, <i>Boletus satanas</i> (☠)	Boletaceae	A
1530d	\$20	<i>Boletus albonotatus</i> (Cap: <i>Buteo albonotatus</i>)	Boletaceae	A

UKRAINE

2017 June 1 (Folk Tale: "Nikita the Tanner") (MS/4)

1095	Margin	LL: Stylized Mushrooms		S Z
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MAMMALIA

Editor

Michael Prince, LM68



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ALBANIA 2017 December 21 (Lynx) (Single & SS/1)				
3004	120l	Eurasian Lynx, <i>Lynx lynx</i>	Felidae	A
3005	SS 190l	Eurasian Lynx, <i>Lynx lynx</i>	Felidae	A
ECUADOR 2017 October 24 (Darwin & Wolf Islands Marine Sanctuary) (Bklt/8)				
2200g	\$1	Short-beaked Common Dolphin, <i>Delphinus delphis</i>	Delphinidae	A
FR. SOUTHERN & ANTARCTIC TERR. 2018 January 2 (Reindeer Study Program) (Horiz Strip/3)				
585a	85c	Reindeer (Caribou), <i>Rangifer tarandus</i> (head)	Cervidae	A
585b	85c	Same species (herd)	Cervidae	A
585c	85c	Same species (adult & juvenile)	Cervidae	A
2018 January 2 (Protected Animals) (MS/4)				
590c	€1.70	Southern Elephant Seal, <i>Mirounga leonina</i>	Phocidae	A
590d	€1.70	Antarctic Fur Seal, <i>Arctocephalus gazella</i>	Otariidae	A
GREENLAND 2018 January 22 (Polar Bear) (Set/2)				
777	20k	Polar Bear, <i>Ursus maritimus</i>	Ursidae	A
GUYANA 2017 December 26 (Wildlife of the Galápagos Islands) (MS/8)				
4528f	\$250	Galápagos Sea Lion, <i>Zalophus wollebaeki</i>	Otariidae	A
2018 January 24 (Jaguarundis) (MS/4 & SS/2)				
4536a	\$300	Jaguarundi, <i>Puma yaguarondi</i> (white text)	Felidae	A
4536b	\$300	Same species (black text)	Felidae	A
4536c	\$500	Same species (white text)	Felidae	A
4536d	\$500	Same species (black text)	Felidae	A
4537a	SS \$550	Jaguarundi, <i>Puma yaguarondi</i>	Felidae	A
4537b	SS \$650	Same species	Felidae	A
JAPAN 2017 April 28 (Flora & Fauna of Oze Natural Monument) (MS/10)				
4101j	82¥	Stoat (Ermine), <i>Mustela erminea</i>	Mustelidae	A
KAZAKHSTAN 2017 November 6 (Karatau Nature Reserve) (SS/3)				
832a	SS 200te	Argali, <i>Ovis ammon</i> ssp. <i>nigrimontana</i>	Bovidae	A
832b	SS 200te	Stoat (Ermine), <i>Mustela erminea</i>	Mustelidae	A
KOREA (South) 2017 February 20 (Goral) (Horiz Pair & SS/2)				
2484a	300w	Long-tailed Goral, <i>Naemorhedus caudatus</i> (adult & juvenile)	Bovidae	(new) A
2484b	300w	Same species (head)	Bovidae	(new) A
2484		Pair (Sc#2484a–b)		
2484c		SS/2 (Sc#2484a–b)		
2017 May 29 (Korean National Parks anniv.) (Horiz Pair)				
2495b	330w	Asian Black Bear, <i>Ursus thibetanus</i> (slightly stylized)	Ursidae	B
		Red Fox, <i>Vulpes vulpes</i> (slightly stylized)	Canidae	B
		Eurasian Otter, <i>Lutra lutra</i> (slightly stylized)	Mustelidae	B

KOREA (South) (continued)		2017 June 5 (Wildlife in the Demilitarized Zone) (Pair)		
2496a	330w	Siberian Chipmunk, <i>Tamias sibiricus</i>	Sciuridae	B
KYRGYZSTAN		2017 August 15 (Intl Snow Leopard & Ecosystem Forum) (SS/2)		
551a	39s	Snow Leopard, <i>Panthera uncia</i>	Felidae	A
551b	117s	Snow Leopard, <i>Panthera uncia</i>	Felidae	A
		2017 November 4 (Endangered Animals) (Set/4 & SS/4)		
555	36s	Eurasian Lynx, <i>Lynx lynx</i>	Felidae	A
556	39s	Menzbier's Marmot, <i>Marmota menzbieri</i>	Sciuridae	A
557	48s	Red Deer, <i>Cervus elaphus asiaticus</i>	Cervidae	A
558	55s	Beech Marten, <i>Martes foina</i>	Mustelidae	A
558a		SS/4 (Sc#555–58)		
LIBERIA		2015 February 2 (Fennec Fox) (MS/3 & SS/1)		
3035a	\$125	Fennec Fox, <i>Vulpes zerda</i> (facing L)	Canidae	A
3035b	\$125	Same species (facing front)	Canidae	A
3035c	\$125	Same species (sleeping)	Canidae	A
3036	SS \$350	Fennec Fox, <i>Vulpes zerda</i>	Canidae	A
		2015 March 2 (Mammals) (2ea MS/4 & 2ea SS/1)		
3041a	\$100	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A
3041b	\$100	Common Warthog, <i>Phacochoerus africanus</i>	Suidae	A
3041c	\$100	Four-toed Hedgehog, <i>Atelerix albiventris</i>	Erinaceidae	A
3041d	\$100	Common Chimpanzee, <i>Pan troglodytes</i>	Hominidae	A
	Margin	L: Leopard, <i>Panthera pardus</i>	Felidae	Z
3042a	\$100	Gambian Epauletted Fruit Bat, <i>Epomophorus gambianus</i>	Pteropodidae	A
3042b	\$100	Bushbuck, <i>Tragelaphus scriptus</i>	Bovidae	A
3042c	\$100	Leopard, <i>Panthera pardus</i>	Felidae	A
3042d	\$100	Hippopotamus, <i>Hippopotamus amphibius</i>	Hippopotamidae	A
	Margin	L: Four-toed Hedgehog, <i>Atelerix albiventris</i>	Erinaceidae	Z
3043	SS \$350	Campbell's Mona Monkey, <i>Cercopithecus campbelli</i>	Cercopithecidae	A
	Margin	L: African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	Z
3044	SS \$350	Giant Pangolin, <i>Manis gigantea</i>	Manidae	A
	Margin	L: Hippopotamus, <i>Hippopotamus amphibius</i>	Hippopotamidae	Z
		2015 March 24 (Western Bongo) (MS/6 & SS/1)		
3049a	\$100	Western Bongo, <i>Tragelaphus eurycerus</i> ssp. <i>eurycerus</i> (all legs)	Bovidae	A
3049b	\$100	Same species (adult & juvenile)	Bovidae	A
3049c	\$100	Same species (facing R)	Bovidae	A
3049d	\$100	Same species (reclining)	Bovidae	A
3049e	\$100	Same species (head)	Bovidae	A
3049f	\$100	Same species (facing L)	Bovidae	A
3050	SS \$350	Western Bongo, <i>Tragelaphus eurycerus</i> ssp. <i>eurycerus</i>	Bovidae	A
		2015 July 13 (African Wildlife) (MS/6 & SS/1)		
3059a	\$100	African Buffalo, <i>Syncerus caffer</i>	Bovidae	A
3059b	\$100	Side-striped Jackal, <i>Canis adustus</i>	Canidae	A
3059c	\$100	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A
3059d	\$100	Patas Monkey, <i>Erythrocebus patas</i>	Cercopithecidae	A
3059e	\$100	Common Kusimanse, <i>Crossarchus obscurus</i>	Herpestidae	A
3059f	\$100	African Pygmy Hedgehog, <i>Atelerix albiventris</i> × <i>A. algirus</i>	Erinaceidae	A
3060	SS \$350	Leopard, <i>Panthera pardus</i>	Felidae	A

MACAO**2017 December 1** (WWF: Dolphin) (Block/4 & SS/4)

1520a	2p	Indo-Pacific Humpbacked Dolphin, <i>Sousa chinensis</i>	Delphinidae	A
1520b	3p	Same species	Delphinidae	A
1520c	4.50p	Same species	Delphinidae	A
1520d	5.50p	Same species	Delphinidae	A
1520e		SS/4 (Sc#1520a–d)		

MALAGASY REPUBLIC**2014 July 21** (Mammals) (Set/4)

1640	6000a	Giant Panda, <i>Ailuropoda melanoleuca</i>	Ursidae	A
1641	10000a	Coquerel's Sifaka, <i>Propithecus coquereli</i>	Indriidae	A
		(2000a & 5000a denominations depict domestic horse and cow)		

MALDIVE ISLANDS**2015 January 28** (Fauna of the Indian Subcontinent) (5ea MS/4 & SS/1)

3319a	20r	Snow Leopard, <i>Panthera uncia</i> (facing R) (also Ctr margin)	Felidae	A
3319b	20r	Same species (facing L)	Felidae	A
3319c	20r	Same species (adult & juvenile)	Felidae	A
3319d	20r	Same species (adult & head)	Felidae	A
3329	SS 60r	Snow Leopard, <i>Panthera uncia</i> (also on L & R margin)	Felidae	A
3320a	20r	Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i> (single)	Delphinidae	A
3320b	20r	Same species (two dolphins)	Delphinidae	A
3320c	20r	Striped Dolphin, <i>Stenella coeruleoalba</i>	Delphinidae	A
3320d	20r	Rough-toothed Dolphin, <i>Steno bredanensis</i> (also Ctr margin)	Delphinidae	A
3330	SS 60r	Long-beaked Common Dolphin, <i>Delphinus capensis</i>	Delphinidae	A
	Margin	L & R: Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i>	Delphinidae	Z
3324a	20r	Lion-tailed Macaque, <i>Macaca silenus</i>	Cercopithecidae	A
3324b	20r	Hoolock Gibbon, <i>Bunopithecus hoolock</i>	Hylobatidae	A
3324c	20r	Golden Leaf Monkey, <i>Trachypithecus geei</i>	Cercopithecidae	A
3324d	20r	Northern Plains Grey Langur, <i>Semnopithecus entellus</i>	Cercopithecidae	A
3324	Margin	Ctr: Rhesus Macaque, <i>Macaca mulatta</i>	Cercopithecidae	Z
3334	SS 70r	Bonnet Macaque, <i>Macaca radiata</i>	Cercopithecidae	A
	Margin	L & R: Sunda Slow Loris, <i>Nycticebus coucang</i>	Lorisidae	Z
3325a	20r	Tiger, <i>Panthera tigris</i> ssp. <i>tigris</i> (facing R) (also Ctr margin)	Felidae	A
3325b	20r	Same species (walking L)	Felidae	A
3325c	20r	Same species (walking R)	Felidae	A
3325d	20r	Same species (drinking)	Felidae	A
3335	SS 70r	Tiger, <i>Panthera tigris</i> ssp. <i>tigris</i> (also on L & R margin)	Felidae	A
3326a	20r	Asiatic Elephant, <i>Elephas maximus</i> (two elephants)	Elephantidae	A
3326b	20r	Same species (facing R)	Elephantidae	A
3326c	20r	Same species (head facing R)	Elephantidae	A
3326d	20r	Same species (head facing L) (also Ctr margin)	Elephantidae	A
3336	SS 70r	Asiatic Elephant, <i>Elephas maximus</i> (also on L & R margin)	Elephantidae	A

2015 May 25 (Flora & Fauna) (2ea MS/4 & SS/1)

3405a	20r	Giant Panda, <i>Ailuropoda melanoleuca</i> (on rock)	Ursidae	A
3405b	20r	Same species (eating)	Ursidae	A
3405c	20r	Same species (standing)	Ursidae	A
3405d	20r	Same species (examining juvenile) (also Ctr margin)	Ursidae	A
3415	SS 60r	Giant Panda, <i>Ailuropoda melanoleuca</i> (also L & R margin)	Ursidae	A
3410a	20r	Orca (Killer Whale), <i>Orcinus orca</i> (three under water)	Delphinidae	A
3410b	20r	Same species (facing L)	Delphinidae	A
3410c	20r	Same species (facing R)	Delphinidae	A
3410d	20r	Same species (one under water) (also Ctr margin)	Delphinidae	A
3420	SS 60r	Orca (Killer Whale), <i>Orcinus orca</i> (also on L & R margin)	Delphinidae	A

NAMIBIA**2017 April 15** (Hares & Rabbits) (Horiz Pair)

1348a	(\$7.30)	Jameson's Red Rock Hare, <i>Pronolagus randensis</i>	Leporidae	A
1348b	(\$7.30)	Scrub Hare, <i>Lepus saxatilis</i>	Leporidae	A

2017 September 29 (Small Canines) (Set/5)

1362	(\$4)	Bat-eared Fox, <i>Otocyon megalotis</i> (inscr. "Standard Mail")	Canidae	A
1363	(\$6.60)	Black-backed Jackal, <i>Canis mesomelas</i> (inscr. "Zone A")	Canidae	A
1364	(\$7.50)	Side-striped Jackal, <i>Canis adustus</i> (inscr. "Zone B")	Canidae	A
1365	(\$8.80)	Aardwolf, <i>Proteles cristatus</i> (inscr. "Zone C")	Hyaenidae	A
1366	(\$32.10)	Cape Fox, <i>Vulpes chama</i> (inscr. "Inland Registered Mail")	Canidae	A

NEPAL**2017 September 22** (Mammals) (Set/6)

1050	10r	Marbled Cat, <i>Pardofelis marmorata</i>	Felidae	A
1051	10r	Large Indian Civet, <i>Viverra zibetha</i>	Viverridae	A
1052	10r	Pygmy Hog, <i>Porcula salvania</i>	Suidae	A
1053	10r	Black Giant Squirrel, <i>Ratufa bicolor</i>	Sciuridae	A
1054	20r	Indian Crested Porcupine, <i>Hystrix indica</i>	Hystriidae	A
1055	20r	Royle's Pika, <i>Ochotona roylei</i>	Ochotonidae	(new) A

NIGER**2014 April 25** (Jawaharlal Nehru) (MS/4)

1377a	500fr	Tiger, <i>Panthera tigris</i> ssp. <i>tigris</i>	Felidae	B
	Margin	Bot: Same species	Felidae	Z

NIGER**2014 April 25** (Red List Endangered Animals) (MS/4 & SS/1)

1394a	750fr	Zanzibar Red Colobus, <i>Piliocolobus kirkii</i>	Cercopithecidae	A
1394b	750fr	Bridled Nail-tailed Wallaby, <i>Onychogalea fraenata</i>	Macropodidae	A
1412	SS 2500fr	Sumatran Tiger, <i>Panthera tigris</i> ssp. <i>sumatrae</i>	Felidae	A

NIGER**2014 June 25** (Animals) (10ea MS/4 & 10ea SS/1)

1433a	750fr	Polar Bear, <i>Ursus maritimus</i> (cub & adult)	Ursidae	A
1433b	750fr	Same species (on ice)	Ursidae	A
1433c	750fr	Same species (crossing ice gap)	Ursidae	A
1433d	750fr	Same species (two cubs)	Ursidae	A
	Margin	UL & LR: Polar Bear, <i>Ursus maritimus</i>	Ursidae	Z
1454	SS 2500fr	Polar Bear, <i>Ursus maritimus</i> (also LL margin)	Ursidae	A
1434a	750fr	Giant Panda, <i>Ailuropoda melanoleuca</i> (head & paws)	Ursidae	A
1434b	750fr	Same species (sitting & eating)	Ursidae	A
1434c	750fr	Same species (reclining & eating)	Ursidae	A
1434d	750fr	Same species (climbing rock)	Ursidae	A
1455	SS 2500fr	Giant Panda, <i>Ailuropoda melanoleuca</i> (also L & LL margin)	Ursidae	A
1435a	750fr	Cross River Gorilla, <i>Gorilla gorilla</i> ssp. <i>diehli</i>	Hominidae	A
1435b	750fr	Western Gorilla, <i>Gorilla gorilla</i> ssp. <i>gorilla</i>	Hominidae	A
1435c	750fr	Eastern Lowland Gorilla, <i>Gorilla beringei</i> ssp. <i>graueri</i>	Hominidae	A
1435d	750fr	Western Gorilla, <i>Gorilla gorilla</i>	Hominidae	A
	Margin	UL & LR: Western Gorilla, <i>Gorilla gorilla</i>	Hominidae	Z
1456	SS 2500fr	Western Gorilla, <i>Gorilla gorilla</i> (also on L margin)	Hominidae	A
1436a	750fr	Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae	A
1436b	750fr	Indian Rhinoceros, <i>Rhinoceros unicornis</i>	Rhinocerotidae	A
1436c	750fr	Sumatran Rhinoceros, <i>Dicerorhinus sumatrensis</i>	Rhinocerotidae	A
1436d	750fr	Javan Rhinoceros, <i>Rhinoceros sondaicus</i>	Rhinocerotidae	A
	Margin	LR: Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae	Z
		UL: Indian Rhinoceros, <i>Rhinoceros unicornis</i>	Rhinocerotidae	Z
1457	SS 2500fr	White Rhinoceros, <i>Ceratotherium simum</i>	Rhinocerotidae	A
	Margin	LL: Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae	Z

NIGER (continued)

1437a	750fr	African Buffalo, <i>Syncerus caffer</i>	Bovidae	A
1437b	750fr	Zebu, <i>Bos primigenius</i>	Bovidae	A
1437c	750fr	Domestic Sheep, <i>Ovis aries</i>	Bovidae	A
1437d	750fr	Dorcas Gazelle, <i>Gazella dorcas</i>	Bovidae	A
	Margin	LR: African Buffalo, <i>Syncerus caffer</i>	Bovidae	Z
		UL: Dorcas Gazelle, <i>Gazella dorcas</i>	Bovidae	Z
1458	SS 2500fr	Blackbuck, <i>Antilope cervicapra</i>	Bovidae	A
	Margin	L: American Bison, <i>Bison bison</i>	Bovidae	Z
1438a	750fr	South American Sea Lion, <i>Otaria flavescens</i>	Otariidae	A
1438b	750fr	New Zealand Sea Lion, <i>Phocarctos hookeri</i>	Otariidae	A
1438c	750fr	California Sea Lion, <i>Zalophus californianus</i> (adult & juvenile)	Otariidae	A
1438d	750fr	Same species (adult)	Otariidae	A
	Margin	UL: Australian Sea Lion, <i>Neophoca cinerea</i>	Otariidae	Z
		LR: California Sea Lion, <i>Zalophus californianus</i>	Otariidae	Z
1459	SS 2500fr	New Zealand Sea Lion, <i>Phocarctos hookeri</i>	Phocidae	A
	Margin	LL: Australian Sea Lion, <i>Neophoca cinerea</i>	Otariidae	Z
1439a	750fr	Lion, <i>Panthera leo</i>	Felidae	A
1439b	750fr	Tiger, <i>Panthera tigris</i> ssp. <i>tigris</i>	Felidae	A
1439c	750fr	Jaguar, <i>Panthera onca</i>	Felidae	A
1439d	750fr	Cheetah, <i>Acinonyx jubatus</i>	Felidae	A
	Margin	UL: Clouded Leopard, <i>Neofelis nebulosa</i>	Felidae	Z
		LR: Puma, <i>Puma concolor</i>	Felidae	Z
1460	SS 2500fr	Clouded Leopard, <i>Neofelis nebulosa</i> (also LL margin)	Felidae	A
1442a	750fr	African Bush Elephant, <i>Loxodonta africana</i> (three juveniles)	Elephantidae	A
1442b	750fr	Same species (two adults)	Elephantidae	A
1442c	750fr	Same species (one adult)	Elephantidae	A
1442d	750fr	Asiatic Elephant, <i>Elephas maximus</i>	Elephantidae	A
	Margin	UL: African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	Z
		LR: Asiatic Elephant, <i>Elephas maximus</i>	Elephantidae	Z
1463	SS 2500fr	African Bush Elephant, <i>Loxodonta africana</i> (also LL margin)	Elephantidae	A
1444a	750fr	Short-beaked Common Dolphin, <i>Delphinus delphis</i>	Delphinidae	A
1444b	750fr	Costero, <i>Sotalia guianensis</i>	Delphinidae	A
1444c	750fr	Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i>	Delphinidae	A
1444d	750fr	Indo-Pacific Humpbacked Dolphin, <i>Sousa chinensis</i>	Delphinidae	A
	Margin	UL & LR: Short-beaked Common Dolphin, <i>Delphinus delphis</i>	Delphinidae	Z
1465	SS 2500fr	Short-beaked Common Dolphin, <i>Delphinus delphis</i>	Delphinidae	A
	Margin	LL: Costero, <i>Sotalia guianensis</i>	Delphinidae	Z
1445a	750fr	Orca (Killer Whale), <i>Orcinus orca</i> (dorsal fin UR)	Delphinidae	A
1445b	750fr	Same species (dorsal fin UL)	Delphinidae	A
1445c	750fr	Same species (backflip)	Delphinidae	A
1445d	750fr	Same species (open mouth)	Delphinidae	A
	Margin	UL & LR: Same species	Delphinidae	Z
1466	SS 2500fr	Orca (Killer Whale), <i>Orcinus orca</i> (also on L margin)	Delphinidae	A

2014 June 25 (Extinct Animals) (MS/4)

1453b	750fr	†Lesser Bilby, <i>Macrotis leucura</i>	Peramelidae	A
1453d	750fr	†Western Black Rhinoceros, <i>Diceros bicornis</i> ssp. <i>longipes</i>	Rhinocerotidae	A

NORWAY**2018 February 16** (Wildlife of Bouvet Island) (Pair)

1843	24k	Antarctic Fur Seal, <i>Arctocephalus gazella</i>	Otariidae	A
1844a		Pair (Sc#1843–44)		

OMAN		2016 December 20 (Wildlife) (MS/2 & SS/1)		
591a	200b	Arabian Oryx, <i>Oryx leucoryx</i> (head down)	Bovidae	A
591b	200b	Same species (head up)	Bovidae	A
595	SS 400b	Desert Hedgehog, <i>Paraechinus aethiopicus</i>	Erinaceidae	A
PALAU		2017 May 5 (Seals) (MS/6 & SS/1)		
1359a	\$1.25	Harp Seal, <i>Pagophilus groenlandicus</i>	Phocidae	A
1359b	\$1.25	Australian Sea Lion, <i>Neophoca cinerea</i>	Otariidae	A
1359c	\$1.25	Harbor Seal, <i>Phoca vitulina</i>	Phocidae	A
1359d	\$1.25	Antarctic Fur Seal, <i>Arctocephalus gazella</i>	Otariidae	A
1359e	\$1.25	Galapagos Sea Lion, <i>Zalophus wollebaeki</i>	Otariidae	A
1359f	\$1.25	Grey Seal, <i>Halichoerus grypus</i>	Phocidae	A
1360	SS \$4.50	New Zealand Fur Seal, <i>Phocarcos hookeri</i>	Otariidae	A
		2017 May 15 (Animals of the World) (MS/4 & SS/1)		
1361b	\$2	Persian Leopard, <i>Panthera pardus</i>	Felidae	A
1362	SS \$4	Golden Lion Tamarin, <i>Leontopithecus rosalia</i>	Callitrichidae	A
PERU		2018 January 19 (Fauna) (Set/2)		
1949	9s	Peruvian Guemal, <i>Hippocamelus antisensis</i>	Cervidae	A
PORTUGAL		2017 April 4 (Dolphin Research) (Single)		
3894	80c	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	A
ROMANIA		2017 April 21 (Recently Extinct Animals) (Set/4)		
5935	3.50l	†Thylacine, <i>Thylacinus cynocephalus</i>	Thylacinidae	A
5936	8l	†Javan Tiger, <i>Panthera tigris</i> ssp. <i>sondaica</i>	Felidae	A
5937	15l	†Yangtze River Dolphin, <i>Lipotes vexillifer</i>	Iniidae	A
SERBIA		2017 November 9 (Juvenile Animals at Belgrade Zoo) (Block/4)		
798b	23d	Dorcas Gazelle, <i>Gazella dorcas</i>	Bovidae	A
798c	23d	Serval, <i>Leptailurus serval</i>	Felidae	A
798d	23d	Hippopotamus, <i>Hippopotamus amphibius</i>	Hippopotamidae	A
S. GEORGIA & S. SANDWICH IS.		2018 March 15 (Fur Seals) (Set/6 & SS/1)		
583	80p	Antarctic Fur Seal, <i>Arctocephalus gazella</i> (juvenile)	Otariidae	A
584	80p	Same species (juvenile diving)	Otariidae	A
585	80p	Same species (females)	Otariidae	A
586	80p	Same species (mother & pup)	Otariidae	A
587	80p	Same species (pup)	Otariidae	A
588	80p	Same species (blond male)	Otariidae	A
589	SS \$3	Antarctic Fur Seal, <i>Arctocephalus gazella</i> (also L margin)	Otariidae	A
SURINAM		2017 December 19 (Flora & Fauna) (2ea SS/1)		
1525	SS \$5	Brown Greater Galago, <i>Otolemur crassicaudatus</i>	Galagidae	
1527	SS \$5	Pygmy Tree Shrew, <i>Tupaia minor</i>	Tupaiaidae	(new) A
SWITZERLAND		2018 March 1 (Forest Animals) (Block/4)		
1668	100c	Red Squirrel, <i>Sciurus vulgaris</i>	Sciuridae	A
1669	150c	Western Roe Deer, <i>Capreolus capreolus</i>	Cervidae	A
1670	200c	Eurasian Badger, <i>Meles meles</i>	Mustelidae	A
1670a		Block/4 (Sc#1667–70)		
TAJIKISTAN		2017 April 30 (WWF) (Set/4 & SS/8)		
473	3.50s	Pallas's Cat, <i>Octocolobus manul</i> ssp. <i>manul</i>	Felidae	A
474	4.50s	Pallas's Cat, <i>Octocolobus manul</i> ssp. <i>nigrippecta</i>	Felidae	A

TAJIKISTAN (continued)

475	5.10s	Pallas's Cat, <i>Octocolobus manul</i> ssp. <i>ferruginea</i>	Felidae	A
476	8.70s	Pallas's Cat, <i>Octocolobus manul</i> ssp. <i>ferruginea</i>	Felidae	A
476a		SS/8 (2ea Sc#473–76)		

TANZANIA**2017 December 17** (African Wildlife: Giraffes) (MS/4 & SS/3)

2811a	3000sh	Rothschild's Giraffe, <i>Giraffa camelopardalis</i> ssp. <i>rothschildi</i>	Giraffidae	A
2811b	4000sh	Reticulated Giraffe, <i>Giraffa camelopardalis</i> ssp. <i>reticulata</i>	Giraffidae	A
2811c	4500sh	Reticulated Giraffe, <i>Giraffa camelopardalis</i> ssp. <i>reticulata</i>	Giraffidae	A
2811d	5000sh	Masai Giraffe, <i>Giraffa camelopardalis</i> ssp. <i>tippelskirchi</i>	Giraffidae	A
	Margin	Bot: 3 U/I giraffes		U Z
2812a	SS 3500sh	Masai Giraffe, <i>Giraffa camelopardalis</i> ssp. <i>tippelskirchi</i>	Giraffidae	A
2812b	SS 4000sh	Rothschild's Giraffe, <i>Giraffa camelopardalis</i> ssp. <i>rothschildi</i>	Giraffidae	A
2812c	SS 4500sh	Masai Giraffe, <i>Giraffa camelopardalis</i> ssp. <i>tippelskirchi</i>	Giraffidae	A

2017 December 17 (African Wildlife: Cheetahs) (MS/6 & MS/5)

2813	various	Cheetah, <i>Acinonyx jubatus</i>	Felidae	A
		2813a (1000sh), 2813b (2000sh), 2813c (3000sh), 2813d (4000sh), 2813e (5000sh), 2813f (6000s)		
2814	various	Cheetah, <i>Acinonyx jubatus</i>	Felidae	A
		2814a (1500sh), 2814b (2500sh), 2814c (3500sh), 2814d (4500sh), 2814e (5500sh)		

2017 December 17 (African Wildlife) (MS/6 & SS/2)

2815a	3500sh	Lion, <i>Panthera leo</i>	Felidae	A
2815f	3500sh	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A
2816b	SS 6500sh	Masai Giraffe, <i>Giraffa camelopardalis</i> ssp. <i>tippelskirchi</i>	Giraffidae	A
		(other stamps depict children's drawings of the photo stamp images)		

2017 December 17 (New Year 2018: Year of the Dog) (2ea MS/4)

2821a	2000sh	Dingo, <i>Canis lupus dingo</i>	Canidae	A
2821b	2000sh	Side-striped Jackal, <i>Canis adustus</i>	Canidae	A
2821c	3000sh	Grey Wolf, <i>Canis lupus</i>	Canidae	A
2821d	3000sh	Maned Wolf, <i>Chrysocyon brachyurus</i>	Canidae	A
2822a	2000sh	Coyote, <i>Canis latrans</i>	Canidae	A
2822b	2000sh	Black-backed Jackal, <i>Canis mesomelas</i>	Canidae	A
2822c	3000sh	African Wild Dog, <i>Lycaon pictus</i>	Canidae	A
2822d	3000sh	Dhole, <i>Cuon alpinus</i>	Canidae	A

TUVALU**2017 December 4** (Dolphins) (MS/4 & SS/2)

1393a	\$2.50	Common Bottlenose Dolphin, <i>Tursiops truncatus</i> (3 dolphins)	Delphinidae	A
1393b	\$2.50	Same species (head)	Delphinidae	A
1393c	\$2.50	Same species (2 dolphins)	Delphinidae	A
1393d	\$2.50	Top: Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	B
		Bot: Atlantic Spotted Dolphin, <i>Stenella frontalis</i>	Delphinidae	B
	Margin	Bot: Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	Z
1394a	SS \$4.00	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	A
1394b	SS \$4.00	Bot: Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	B
		Top: Atlantic Spotted Dolphin, <i>Stenella frontalis</i>	Delphinidae	B

UGANDA**2017 May 5** (Primates) (Set/13)

2173	100sh	Brown Greater Galago, <i>Otolemur crassicaudatus</i>	Galagidae	A
2174	500sh	Chimpanzee, <i>Pan troglodytes</i>	Hominidae	A
2175	700sh	Mantled Guereza, <i>Colobus guereza</i>	Cercopithecidae	A
2176	800sh	Olive Baboon, <i>Papio anubis</i>	Cercopithecidae	A
2177	900sh	De Brazza's Monkey, <i>Cercopithecus neglectus</i>	Cercopithecidae	A
2178	1000sh	L'Hoest's Monkey, <i>Cercopithecus lhoesti</i>	Cercopithecidae	A

UGANDA (continued)

2179	1100sh	Eastern Gorilla, <i>Gorilla beringei</i> ssp. <i>beringei</i>	Hominidae	A
2180	1800sh	Vervet Monkey, <i>Chlorocebus pygerythrus</i>	Cercopithecidae	A
2181	1900sh	Eastern Gorilla, <i>Gorilla beringei</i> ssp. <i>beringei</i>	Hominidae	A
2182	2000sh	Blue Monkey, <i>Cercopithecus mitis</i>	Cercopithecidae	A
2183	2700sh	Olive Baboon, <i>Papio anubis</i>	Cercopithecidae	A
2184	3000sh	Golden Monkey, <i>Cercopithecus kandti</i>	Cercopithecidae	(new) A
2185	3400sh	Common Chimpanzee, <i>Pan troglodytes</i>	Hominidae	A

UKRAINE**2017 May 22** (Black Sea Marine Life) (SS/2)

1094b	(22h)	Short-beaked Common Dolphin, <i>Delphinus delphis</i> ssp. <i>ponticus</i>	Delphinidae	A
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UNITED NATIONS**2018 March 2** (Endangered Species) (Block/4)

1189	\$1.15	Andean Hairy Armadillo, <i>Chaetophractus nationi</i>	Dasypodidae	A
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UNITED NATIONS (Geneva)**2018 March 2** (Endangered Species) (Block/4)

646	1.50fr	Steppe Saiga, <i>Saiga tatarica</i>	Bovidae	A
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BIGHORN SHEEP

(from *Details No. 7*, Canada Post) On 10 October 2018, Canada Post will issue a souvenir sheet of four \$4 stamps depicting a Rocky Mountain Bighorn Sheep (*Ovis canadensis* ssp. *canadensis*), part of its popular wildlife series of high-value definitives. The stamp was designed and engraved by Canadian Bank Note master engraver Jorge Peral, with illustrations provided by his son, Rodrigo Peral. The elder Peral's work has graced several high-value definitives and other stamps, as well as paper currency issued by Canada and other countries.

The PVA gummed stamps were printed by Canadian Bank Note and produced by a combination of lithography and intaglio in a quantity of 80,000 sheets.

According to Peral, one of the biggest challenges in creating an intaglio stamp is getting the right level of detail. It is a fine balance. With too little detail, the intricate beauty of the subject—such as the fine fleece of the sheep or the grass, bent gently in the breeze—is lost. With too much, it can only be appreciated under a magnifying glass.

“Every artist has different goals,” explained Peral. “I love to make something that the public can appreciate with the bare eye.”

Rocky Mountain Bighorn Sheep inhabit the mountain ranges from British Columbia and Alberta south to Colorado and New Mexico. With balance-aiding split hooves and rough hoof bottoms for natural grip, they are known for their ability to climb in high, steep rocky terrain. Rams, like the one featured on the stamp, have long curled horns, while ewes have shorter, curved ones. They feed on grasses or low-growing vegetation found on slopes where they can spot and escape predators, such as bears, wolves, and cougars.

Overhunting, loss of habitat, and transfer of diseases from domestic livestock significantly reduced their numbers in the late 1800s and early 1900s. Thanks to recent conservation efforts, some populations have increased, but, still vulnerable to disease and habitat loss, they are designated as a special concern in British Columbia

Canada Post is also offering an uncut press sheet containing nine panes of four stamps signed and numbered by master engraver Peral for \$144. Only 1,200 of these sheets are available.





ORNITHOLOGY

Editor

Glenn G. Mertz, BU1455

Corrections/Updates



Scott Publishing has assigned numbers to the following prior issues of the Maldives listed in Vol. 65(2).

GAMBIA – Vol. 66(2), p.142

Correction: Sc#3614b: Red Kite (*Milvus milvus*). The species is missing for this number. Only the genus name appears after the English name, not the species name

GRENADA – Vol. 66(2), p.144

Correction: Sc#4107b: Listed as Red-billed Woodpecker (*Melanerpes carolinus*). It should be Red-bellied Woodpecker (*Melanerpes carolinus*). Stamp also captioned with species name of *erythrocephalus*.

MALDIVE ISLANDS – Vol. 65(2), pp.115–16

Updates: (India Subcontinent Fauna–Owls): MS/4=Sc#3322a–d; SS= Sc#3332
 (India Subcontinent Fauna–Parrots): MS/4= Sc#2231a–d; SS= Sc#3331
 (Birds of Prey–Eagles): MS/4= Sc#3411a–d; SS= Sc#3421
 (Birds of the World–Kingfishers): MS/4= Sc#3408a–d; SS= Sc#3418
 (Birds of the World–Owls): MS/4= Sc#3412a–d; SS= Sc#3422

For those subscribers that use Scott numbers, replace the Michel numbers with Scott numbers listed below.

NIGER – Vol. 65(2), p.118

Updates: Replace Mi2709 with Sc#1394c&d
 Replace Mi2711 SS with Sc#1412
 Replace Mi2795-2798 with Sc#1449a–d; Mi2799 with Sc#1470
 Replace Mi2800-2803 with Sc#1447a–d; Mi2804 with Sc#1468
 Replace Mi2805-2802 with Sc#1448a–d; Mi2809 with Sc#1469
 Replace Mi2812 with Sc#1453c

New Issues

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AUSTRALIA				
2017 September 5 (Heard Island) (Set/4 & SS/4)				
4676	\$1.00	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae	A
4677a		SS/4 (Sc#4674–77)		
BOTSWANA				
2017 December 5 (Flamingos) (Block/4 & SS/4)				
1040a	5p	Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	A
		Lesser Flamingo, <i>Phoenicopterus minor</i>	Phoenicopteridae	
1040b	7p	Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	
1040c	9p	Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	
		Lesser Flamingo, <i>Phoenicopterus minor</i>	Phoenicopteridae	
1040d	10p	Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	
1040		Block/4 (Sc#1040a–d) (perf 13½)		
1040e		SS/4 (Sc#1040a–d) (perf 14)		
CANADA				
2018 March 1 (Lotus Flowers) (SS/2, Horiz Pair, Bklt/10)				
3087a	(85c)	Light-vented Bulbul, <i>Pycnonotus sinensis</i>	Pycnonotidae	C
3087		SS/2 (Sc#3087a–b)		
3088	(85c)	Same species	Pycnonotidae	

CANADA (continued)

3089a	Horiz pair (Sc#3088–89) (die cut 8 vert) (s/a)	
3090	(85c) Same species	Pycnonotidae
3091a	Bklt/10 (5ea Sc#3090–91) (die cut 13½) (s/a)	

CARIBBEAN NETHERLANDS 2016 September 9 (Personalized) (Sheet/24) **A**

In Vol. 66(3), I listed two issues dated 15 January 2016, that were inscribed “Bonaire.” As I indicated, these issues had vignette portions that can be personalized by customers or a business with notes or whatever on the label portion.

A set of 24 of these were issued that have not been listed by Scott Publishing as far as the total listing of the subject. I inquired with Martin J. Frankevicz, New Issues Editor at Amos Medea, Scott New Issues, via email on 28 June 2018, and I received the following reply: “The Bonaire bird sheet was made using the personalized stamp frame in illustration A20 (This was a frame listed as A20, for Scott #47, for one of the issues listed as Jan 15, 2016), so all stamps of this sheet are Sc#47, just as the stamp illustrated is #47. We cannot (Scott Publishing) possibly know about all of the personalized images that are used in conjunction with any stamp frame, so any illustration, whether it comes from a customer, or from the country itself, must be considered to be the same.”

For my own preferences, I will have to be alert before purchasing any issues that are listed/defined as personalized issues, as Scott had indicated these could have many stamp vignettes, or unknown, that may exist for them to even list. Since I purchased the sheet of 24 stamps, I am listing them below as Sc#47a–x, my own lettering, in the order they were shown on the sheet of 24. All listed as “Bonaire.”

[47a]	88c Bananaquit, <i>Coereba flaveola</i>	Thraupidae	
[47b]	88c Stilt Sandpiper, <i>Calidris himantopus</i>	Scolopacidae	
[47c]	88c Ruddy Turnstone, <i>Arenaria interpres</i>	Scolopacidae	
[47d]	88c Green Heron, <i>Butorides virescens</i>	Ardeidae	
[47e]	88c Sanderling, <i>Calidris alba</i>	Scolopacidae	
[47f]	88c Great Egret, <i>Ardea alba</i>	Ardeidae	
[47g]	88c Ruby-throated Hummingbird, <i>Chrysolampis mosquitus</i>	Trochilidae	
[47h]	88c Brown-throated Parakeet, <i>Eupsittula pertinax anthogenia</i> (ssp?)	Psittacidae	
[47i]	88c Yellow-shouldered Parrot, <i>Amazona barbadensis</i>	Psittacidae	
[47j]	88c Whimbrel, <i>Numenius phaeopus</i>	Scolopacidae	
[47k]	88c Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae	
[47l]	88c American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae	
[47m]	88c American Golden-Plover, <i>Pluvialis dominica</i>	Charadriidae	
[47n]	88c Tropical Mockingbird, <i>Mimus gilvus</i>	Mimidae	
[47o]	88c Semipalmated Sandpiper, <i>Calidris pusilla</i>	Scolopacidae	
[47p]	88c Little Egret, <i>Egretta garzetta</i>	Ardeidae	
[47q]	88c Venezuelan Troupial, <i>Icterus icterus</i>	Icteridae	
[47r]	88c Reddish Egret, <i>Egretta rufescens</i>	Ardeidae	
[47s]	88c American Yellow Warbler, <i>Setophaga petechia</i> ssp. <i>aestiva</i>	Parulidae	
[47t]	88c Osprey, <i>Pandion haliaetus</i>	Pandionidae	
[47u]	88c Brown Booby, <i>Sula leucogaster</i>	Sulidae	
[47v]	88c Lesser Yellowlegs, <i>Tringa flavipes</i>	Scolopacidae	
[47w]	88c Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae	
[47x]	88c Wilson’s Snipe, <i>Gallinago delicata</i>	Scolopacidae	Vol. 65(4)

CENTRAL AFRICAN REPUBLIC 2016 December 19 (Owls) (MS/4 & SS/1) **A**

Mi6640	900fr Barn Owl, <i>Tyto alba</i>	Tytonidae
Mi6641	900fr Eastern Screech-Owl, <i>Megascops asio</i>	Strigidae
Mi6642	900fr Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae
Mi6643	900fr Short-eared Owl, <i>Asio flammeus</i>	Strigidae
Mi6644 SS 3000fr	Short-eared Owl, <i>Asio flammeus</i>	Strigidae
Margin	R: Eurasian Eagle-Owl, <i>Bubo</i>	Strigidae

C.A.R. (continued)		2017 January 16 (Parakeets & Macaws) (MS/4 & SS/1)		A
Mi6755	900fr	Plum-headed Parakeet, <i>Psittacula cyanocephala</i> (also UL mar)	Psittaculidae	
Mi6756	900fr	Crimson Rosella, <i>Platycercus elegans</i>	Psittaculidae	
Mi6757	900fr	Hyacinth Macaw, <i>Anodorhynchus hyacinthinus</i>	Psittacidae	
Mi6758	900fr	Golden Parakeet, <i>Guarouba guarouba</i>	Psittacidae	
Mi6759 SS	3600fr	Burrowing Parakeet, <i>Cyanoliseus patagonus</i>	Psittacidae	
	Margin	UR: Plum-headed Parakeet, <i>Psittacula cyanocephala</i>	Psittaculidae	
		LL: Burrowing Parakeet, <i>Cyanoliseus patagonus</i>	Psittacidae	
		LR: Major Mitchell's Cockatoo, <i>Lophochroa leadbeateri</i>	Cacatuidae	
		2017 January 16 (Owls) (MS/4 & SS/1)		A
Mi6745	900fr	Boreal Owl, <i>Aegolius funereus</i>	Strigidae	
Mi6746	900fr	Ural Owl, <i>Strix uralensis</i>	Strigidae	
Mi6747	900fr	Rufous Fishing-Owl, <i>Scotopelia ussheri</i>	Strigidae	
Mi6748	900fr	Barn Owl, <i>Tyto alba</i>	Tytonidae	
Mi6749 SS	3600fr	Spotted Owl, <i>Strix occidentalis</i>	Strigidae	
	Margin	LR: Spotted Wood Owl, <i>Strix seloputo</i>	Strigidae	
		LL: Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
		2017 January 16 (Birds of Prey) (MS/4 & SS/1)		A
Mi6725	900fr	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae	
Mi6726	900fr	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae	
Mi6727	900fr	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
Mi6728	900fr	Osprey, <i>Pandion haliaetus</i>	Pandionidae	
Mi6729 SS	3600fr	Southern Caracara, <i>Caracara plancus</i>	Falconidae	
	Margin	UR: Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae	
		LR: Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae	
		LL: White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae	
		2017 January 16 (Water Birds) (MS/4 & SS/1)		A
Mi6695	900fr	Trumpeter Swan, <i>Cygnus buccinator</i>	Anatidae	
Mi6696	900fr	Mallard, <i>Anas platyrhynchos</i>	Anatidae	
Mi6697	900fr	American White Pelican, <i>Pelecanus erythrorhynchos</i>	Pelecanidae	
Mi6698	900fr	Wood Duck, <i>Aix galericulata</i>	Anatidae	
Mi6699 SS	3600fr	Tufted Puffin, <i>Fratercula cirrhata</i>	Alcidae	
	Margin	R: Black Swan, <i>Cygnus atratus</i>	Anatidae	
		2017 November 20 (Extinct Species) (MS/4)		A
Mi7393	850fr	†Dodo, <i>Raphus cucullatus</i>	Columbidae	
		2017 November 20 (Bee-eaters) (MS/4 & SS/1)		A
Mi7395	900fr	Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	
Mi7396	900fr	Rainbow Bee-eater, <i>Merops ornatus</i>	Meropidae	
Mi7397	900fr	Blue-tailed Bee-eater, <i>Merops philippinus</i>	Meropidae	
Mi7398	900fr	Red-bearded Bee-eater, <i>Nyctyornis amictus</i> (Cap: <i>N. amictos</i>)	Meropidae	
Mi7399 SS	3600fr	Blue-throated Bee-eater, <i>Merops viridis</i>	Meropidae	
	Margin	R: Chestnut-headed Bee-eater, <i>Merops leschenaulti</i>	Meropidae	
		2017 December 20 (Owls) (MS/4 & SS/1)		A
Mi7495	900fr	Short-eared Owl, <i>Asio flammeus</i>	Strigidae	
Mi7496	900fr	Northern Hawk-Owl, <i>Surnia ulula</i>	Strigidae	
Mi7497	900fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
Mi7498	900fr	Boreal Owl, <i>Aegolius funereus</i>	Strigidae	
Mi7499 SS	3600fr	Ural Owl, <i>Strix uralensis</i>	Strigidae	

CENTRAL AFRICAN REPUBLIC (continued)

Margin	LL: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
	LR: Barn Owl, <i>Tyto alba</i>	Tytonidae	
2017 December 20 (Kingfishers) (MS/4 & SS1)			A
Mi7490	900fr Belted Kingfisher, <i>Megaceryle alcyon</i>	Alcedinidae	
Mi7491	900fr Blue-winged Kookaburra, <i>Dacelo leachii</i>	Alcedinidae	
Mi7492	900fr Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
Mi7493	900fr Woodland Kingfisher, <i>Halcyon senegalensis</i>	Alcedinidae	
Mi7494 SS	3600fr Buff-breasted Paradise-Kingfisher, <i>Halcyon malimbica</i>	Alcedinidae	
Margin	R: Oriental Dwarf Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
2017 December 20 (Ramphastides) (MS/4 & SS1)			A
Mi7485	900fr Fiery-billed Aracari, <i>Pteroglossus frantzii</i>	Ramphastidae	Vol. 67(2)
Mi7486	900fr Black-billed Mountain-Toucan, <i>Andigena nigrirostris</i>	Ramphastidae	
Mi7487	900fr Keel-billed Toucan, <i>Ramphastos sulfuratus</i>	Ramphastidae	
Mi7488	900fr Crimson-rumped Toucanet, <i>Aulacorhynchus haematopygus</i>	Ramphastidae	
Mi7489 SS	3600fr Saffron Toucanet, <i>Pteroglossus bailloni</i>	Ramphastidae	
Margin	R: Curl-crested Aracari, <i>Pteroglossus beauharnaesii</i>	Ramphastidae	
2018 January 16 (Water Birds) (MS/4 & SS1)			A
Mi7480	850fr Painted Stork, <i>Mycteria leucocephala</i>	Ciconiidae	
Mi7481	850fr Common Loon, <i>Gavia immer</i>	Gaviidae	
Mi7482	850fr Tropicbird, <i>Rollandia microptera</i>	Podicipedidae	
Mi7483	850fr Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae	
Mi7484 SS	3600fr Chilean Flamingo, <i>Phoenicopterus chilensis</i>	Phoenicopteridae	
Margin	R: Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae	
2018 January 16 (Birds of Prey) (MS/4 & SS1)			A
Mi7485	900fr Japanese Sparrowhawk, <i>Accipiter gularis</i>	Accipitridae	
Mi7486	900fr Ornate Hawk-Eagle, <i>Spizaetus ornatus</i>	Accipitridae	
Mi7487	900fr Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae	
Mi7488	900fr Lammergeier, <i>Gypaetus barbatus</i>	Accipitridae	
Mi7489 SS	3600fr Golden Eagle, <i>Aquila chrysaetos</i> (also in R margin)	Accipitridae	
DJIBOUTI			
2017 December 11 (Climate Change) (SS/1)			A
1341	SS 950fr Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae	
Margin	UR: Arctic Tern, <i>Sterna paradisaea</i>	Laridae	
2017 December 11 (Parakeets) (MS/4 & SS1)			A
1314a	240fr Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
1314b	240fr Rose-ringed Parakeet, <i>Psittacula krameri</i>	Psittaculidae	
1314c	240fr Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
1314d	240fr Galah, <i>Eolophus roseicapilla</i>	Cacatuidae	
1333	SS 950fr Golden Parakeet, <i>Guarouba guarouba</i>	Psittacidae	
Margin	Bot: Green-cheeked Parakeet, <i>Pyrrhura molinae</i>	Psittacidae	
2017 December 11 (Bee-eaters) (MS/4 & SS1)			A
1316a	240fr European Bee-eater, <i>Merops apiaster</i>	Meropidae	
1316b	240fr Blue-breasted Bee-eater, <i>Merops variegates</i>	Meropidae	
1316c	240fr Rosy Bee-eater, <i>Merops malimbicus</i>	Meropidae	
1316d	240fr Black-headed Bee-eater, <i>Merops breweri</i>	Meropidae	
1335	SS 950fr Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	
Margin	LL: European Bee-eater, <i>Merops apiaster</i>	Meropidae	
	UR: Olive Bee-eater, <i>Merops superciliosus</i>	Meropidae	
	MR & LR: Green Bee-eater, <i>Merops orientalis</i>	Meropidae	

DJIBOUTI (continued)		2017 December 11 (Owls) (MS/4 & SS1)	A
1317a	240fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae
1317b	240fr	Verreaux's Eagle-Owl, <i>Bubo lacteus</i>	Strigidae
1317c	240fr	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae
1317d	240fr	Spotted Wood-Owl, <i>Strix seloputo</i>	Strigidae
1336	SS 950fr	Western Screech-Owl, <i>Megascops kennicottii</i>	Strigidae
	Margin	Bot: Great grey owl, <i>Strix nebulosa</i>	Strigidae
		2018 March 15 (Owls) (MS/4 & SS1)	A
N/A	240fr	Barn Owl, <i>Tyto alba</i>	Tytonidae
N/A	240fr	Eurasian Eagle-Owl, <i>Bubo bubo</i> ssp. <i>sibiricus</i>	Strigidae
N/A	240fr	Eurasian Pygmy-Owl, <i>Glaucidium passerinum</i>	Strigidae
N/A	240fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae
N/A	SS 950fr	Boreal Owl, <i>Aegolius funereus</i>	Strigidae
	Margin	R: Great Horned Owl, <i>Bubo virginianus</i>	Strigidae
		2018 March 15 (Birds of Prey) (MS/4 & SS1)	A
N/A	240fr	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae
N/A	240fr	Osprey, <i>Pandion haliaetus</i>	Pandionidae
N/A	240fr	Steppe Eagle, <i>Aquila nipalensis</i>	Accipitridae
N/A	240fr	Long-crested Eagle, <i>Lophaetus occipitalis</i>	Accipitridae
N/A	SS 950fr	Gray Falcon, <i>Falco hypoleucos</i>	Falconidae
	Margin	R: Black Kite, <i>Milvus migrans</i>	Accipitridae
		2018 March 15 (Alexander Wilson) (MS/4 & SS1)	A
Commemorates the 205th anniversary of the death of ornithologist Alexander Wilson (1766–1813) using some of his illustrations.			
N/A	240fr	Ruffed Grouse, <i>Bonasa umbellus</i>	Phasianidae
N/A	240fr	Gadwall, <i>Anas strepera</i>	Anatidae
		Common Eider, <i>Somateria mollissima</i>	Anatidae
		Smew, <i>Mergellus albellus</i>	Anatidae
		Ruddy Duck, <i>Oxyura jamaicensis</i>	Anatidae
N/A	240fr	Wilson's Plover, <i>Charadrius wilsonia</i>	Charadriidae
		Eurasian Coot, <i>Fulica atra</i>	Rallidae
		Purple Gallinule, <i>Porphyrio martinicus</i>	Rallidae
		Red Phalarope, <i>Phalaropus fulicarius</i>	Scolopacidae
N/A	240fr	Greater Prairie-Chicken, <i>Tympanuchus cupido</i>	Phasianidae
N/A	SS 950fr	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae
ECUADOR		2017 October 24 (Darwin & Wolf Island Marine Sanctuary) (Bklt/8)	B
2200h	\$1	Blue-footed Booby, <i>Sula nebouxii</i> (s/a)	Sulidae
		2017 November 27	A
2203c	50c	Nazca Booby, <i>Sula granti</i>	Sulidae
2203e	75c	Ecuadorian Hillstar, <i>Oreotrochilus chimborazo</i>	Trochilidae
FRANCE		2017 April 22 (Jean-Baptiste Charcot) (Single & SS/1)	C
Polar explorer Jean-Baptiste Charcot (1867-1936) and his ship <i>Pourquoi-Pas?</i> with small depictions of birds.			
5218	€1.30	Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae
		Gentoo Penguin, <i>Pygoscelis papua</i>	Spheniscidae
		Snow Petrel, <i>Pagodroma nivea</i>	Procellariidae
Note	SS €3.20	SS/1 (Sc#5218)	

FRENCH SOUTH. & ANTARCTIC TERR. 2017 November 30 (Europa: Birds & Reptiles) (MS/4)			A
574a	85c	White-tailed Tropicbird, <i>Phaethon lepturus</i>	Phaethontidae
574c	85c	Great Frigatebird, <i>Fregata minor</i>	Fregatidae
2018 January 2 (20th anniv. Madrid Protocol) (SS/1)			A
586	SS 85c	Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae
587	€1	Salvin's Prion, <i>Pachyptila salvini</i>	Procellariidae
2018 January 2 (Protected Animals) (MS/4)			A
590a	85c	Amsterdam Albatross, <i>Diomedea exulans</i> ssp. <i>amsterdamensis</i>	Diomedidae
590b	85c	Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae
GERMANY 2017 June 8 (Heinz Sielmann) (Single & Bklt/10)			B
2980	45c	Snow Goose, <i>Anser caerulescens</i> (perf 13½×13¾)	Anatidae
2981	45c	Same species (die cut 9¾)	Anatidae
2981a		Bklt/10 (Sc#2981) (s/a)	
GREAT BRITAIN (Jersey) 2017 November 20 (Christmas) (Set/8)			C
2103	79p	European Robin, <i>Erithacus rubecula</i>	Muscicapidae
GRENADA 2018 January 1 (Chinese Paintings) (MS/20)			C
4270o	\$1.29	Brambling, <i>Fringilla montifringilla</i>	Fringillidae
GRENADA GRENADINES 2017 December 31 (Bird Photos) (3ea MS4)			A
2996a	\$3	Osprey, <i>Pandion haliaetus</i>	Pandionidae
2996b	\$5	Same species	Pandionidae
2996c	\$7	Same species	Pandionidae
2996d	\$9	Same species	Pandionidae
2997a	\$5.50	Broad-winged Hawk, <i>Buteo platypterus</i>	Accipitridae
2997b	\$6.50	Same species	Accipitridae
2997c	\$7.50	Same species	Accipitridae
2997d	\$8.50	Same species	Accipitridae
2998a	\$7	Barn Owl, <i>Tyto alba</i> (perched-full body)	Tytonidae
2998b	\$7	Same species (in flight)	Tytonidae
2998c	\$7	Same species (head only)	Tytonidae
2998d	\$7	Same species (perched-head & breast)	Tytonidae
GUINEA 2016 December 1 (Extinct Animals) (MS/4 & SS/1)			A
N/A	15000fr	†Dodo, <i>Raphus cucullatus</i>	Columbidae
N/A	SS 50000fr	†Passenger Pigeon, <i>Ectopistes migratorius</i> (also UR margin)	Columbidae
2016 December 1 (Water Birds) (MS/4 & SS/1)			A
N/A	15000fr	Sabine's Gull, <i>Xema sabini</i>	Laridae
N/A	15000fr	Hartlaub's Duck, <i>Pteronetta hartlaubii</i>	Anatidae
N/A	15000fr	African Skimmer, <i>Rynchops flavirostris</i>	Laridae
N/A	15000fr	Long-tailed Cormorant, <i>Microcarbo africanus</i>	Phalacrocoracidae
N/A	SS 50000fr	African Pygmy-Goose, <i>Nettapus auritus</i>	Anatidae
	Margin	LL: Great White Pelican, <i>Pelecanus onocrotalus</i>	Pelecanidae
		LR: Pink-backed Pelican, <i>Pelecanus rufescens</i>	Pelecanidae
		Ctr: Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae
2016 December 1 (Birds & Windmills) (MS/4 & SS/1)			B
N/A	15000fr	Long-tailed Duck, <i>Clangula hyemalis</i>	Anatidae
N/A	15000fr	Barnacle Goose, <i>Branta leucopsis</i>	Anatidae
N/A	15000fr	Mute Swan, <i>Cygnus olor</i>	Anatidae
N/A	15000fr	Black Grouse, <i>Tetrao tetrix</i>	Phasianidae

GUINEA (continued)

N/A	SS 50000fr	Red Kite, <i>Milvus milvus</i>	Accipitridae	
	Margin	UR: Ruddy Shelduck, <i>Tadorna ferruginea</i>	Anatidae	
		Bot: Mandarin Duck, <i>Aix galericulata</i>	Anatidae	
2017 April 24 (Kingfishers) (MS/4 & SS/1)				A
N/A	12500fr	Black-necked Dwarf-Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
N/A	12500fr	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
N/A	12500fr	White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae	
N/A	12500fr	Banded Kingfisher, <i>Lacedo pulchella</i>	Alcedinidae	
N/A	SS 50000fr	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
	Margin	R: Same species (three in flight)	Alcedinidae	
		LL: Belted Kingfisher, <i>Megaceryle alcyon</i>	Alcedinidae	
2017 April 24 (Hornbills) (MS/4 & SS/1)				A
N/A	12500fr	Eastern Yellow-billed Hornbill, <i>Tockus flavirostris</i>	Bucerotidae	
N/A	12500fr	Rhinoceros Hornbill, <i>Buceros rhinoceros</i> (on foliage branch)	Bucerotidae	
N/A	12500fr	Same species (on bare branch)	Bucerotidae	
N/A	12500fr	Knobbed Hornbill, <i>Rhyticeros cassidix</i>	Bucerotidae	
N/A	SS 50000fr	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae	
	Margin	LL: Wreathed Hornbill, <i>Rhyticeros undulatus</i>	Bucerotidae	
		R: Oriental Pied Hornbill, <i>Anthracoceros albirostris</i>	Bucerotidae	
2017 April 24 (Birds of Prey) (MS/4 & SS/1)				A
N/A	12500fr	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae	
N/A	12500fr	Eurasian Marsh-Harrier, <i>Circus aeruginosus</i>	Accipitridae	
N/A	12500fr	Osprey, <i>Pandion haliaetus</i> (catching fish)	Pandionidae	
N/A	12500fr	Same species (perched on stump)	Pandionidae	
N/A	SS 50000fr	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae	
	Margin	LL: Griffon Vulture, <i>Gyps fulvus</i>	Accipitridae	
		R: Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
2017 April 24 (Owls) (MS/4 & SS/1)				A
N/A	12500fr	Southern White-faced Owl, <i>Ptilopsis granti</i>	Strigidae	
N/A	12500fr	Great Gray Owl, <i>Strix nebulosa</i> (landing on branch)	Strigidae	
N/A	12500fr	Same species (flying forward)	Strigidae	
N/A	12500fr	Little Owl, <i>Athene noctua</i>	Strigidae	
N/A	SS 50000fr	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
	Margin	LL: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
		R: Barn Owl, <i>Tyto alba</i>	Tytonidae	
2017 May 22 (Water Birds) (MS/4 & SS/1)				A
N/A	12500fr	Dalmatian Pelican, <i>Pelecanus crispus</i>	Pelecanidae	
N/A	12500fr	Nazca Booby, <i>Sula granti</i>	Sulidae	
N/A	12500fr	Semipalmated Sandpiper, <i>Calidris pusilla</i>	Scolopacidae	
N/A	12500fr	Pacific Loon, <i>Gavia pacifica</i>	Gaviidae	
N/A	SS 50000fr	Painted Stork, <i>Mycteria leucocephala</i>	Ciconiidae	
	Margin	UR: Northern Gannet, <i>Morus bassanus</i>	Sulidae	
		Bot: Peruvian Pelican, <i>Pelecanus thagus</i>	Pelecanidae	
2017 May 22 (Extinct Animals) (MS/4 & SS/1)				A
N/A	12500fr	†Great Auk, <i>Pinguinus impennis</i>	Alcidae	
	SS Margin	LL: †Hawaii Mamo, <i>Drepanis pacifica</i>	Fringillidae	
		LR: †Bonin Grosbeak, <i>Chaunoproctus ferreorostris</i>	Fringillidae	

GUINEA (continued)		2017 May 22 (Parrots) (MS/4 & SS/1)		A
N/A	12500fr	Senegal Parrot, <i>Poicephalus senegalus</i>	Psittacidae	
N/A	12500fr	Red-fronted Parrot, <i>Poicephalus guielmi</i>	Psittacidae	
N/A	12500fr	Meyer's Parrot, <i>Poicephalus meyeri</i>	Psittacidae	
N/A	12500fr	Rose-ringed Parakeet, <i>Psittacula krameri</i>	Psittaculidae	
N/A	SS 50000fr	Timneh Gray Parrot, <i>Psittacus erithacus</i> ssp. <i>timneh</i>	Psittacidae	
	Margin	UR: Rose-ringed Parakeet, <i>Psittacula krameri</i>	Psittaculidae	
		R: Red-headed Lovebird, <i>Agapornis pullarius</i>	Psittaculidae	
		LL: Senegal Parrot, <i>Poicephalus senegalus</i>	Psittacidae	
		2017 June 20 (Rare Birds) (Birdpex) (MS/4 & SS/1)		A
These five birds are all new to the aviary as listed in Vol. 66(3).				
N/A	12500fr	African Shrike-Flycatcher, <i>Megabyas flammulatus</i>	Vangidae	(new)
N/A	12500fr	Marsh Tchagra, <i>Tchagra minutus</i>	Malaconotidae	(new)
N/A	12500fr	Sabine's Spinetail, <i>Rhaphidura sabini</i>	Apodidae	(new)
N/A	12500fr	Turati's Boubou, <i>Laniarius turatii</i>	Malaconotidae	(new)
	Margin	UL: Marsh Tchagra, <i>Tchagra minutus</i>	Malaconotidae	
		Top: Sabine's Puffback, <i>Dryoscopus sabini</i>	Malaconotidae	
N/A	SS 50000fr	Sabine's Puffback, <i>Dryoscopus sabini</i>	Malaconotidae	(new)
		("New Birds" listed it as Long-billed Puffback, but the English name was changed.)		
	Margin	L: Blue-headed Wood-Dove, <i>Turtur brehmeri</i>	Columbidae	
		R: Marsh Tchagra, <i>Tchagra minutus</i>	Malaconotidae	
		2017 August 25 (Sea Birds) (MS/4 & SS/1)		A
N/A	12500fr	Australian Pelican, <i>Pelecanus conspicillatus</i>	Pelecanidae	
N/A	12500fr	White Tern, <i>Gygis alba</i>	Laridae	
N/A	12500fr	Light-mantled Albatross, <i>Phoebastria palpebrata</i>	Diomedidae	
N/A	12500fr	Yellow-nosed Albatross, <i>Thalassarche chlororhynchos</i>	Diomedidae	
N/A	SS 50000fr	Dovekie, <i>Alle alle</i>	Alcidae	
	Margin	UR & LR: Red-footed Booby, <i>Sula sula</i>	Sulidae	
		2017 August 25 (Lighthouses) (MS/4)		B
N/A	12500fr	Royal Albatross, <i>Diomedea epomophora</i>	Diomedidae	
N/A	12500fr	Black Skimmer, <i>Rynchops niger</i>	Laridae	
		2017 August 25 (Antarctic Animals) (MS/4 & SS/1)		A
N/A	12500fr	Brown Skua, <i>Stercorarius antarcticus</i>	Stercorariidae	
N/A	12500fr	Antarctic Shag, <i>Leucocarbo bransfieldensis</i>	Phalacrocoracidae	
N/A	SS 50000fr	Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae	
		2017 August 25 (Bee-eaters) (MS/4 & SS/1)		A
N/A	12500fr	Red-bearded Bee-eater, <i>Nyctornis amictus</i>	Meropidae	
N/A	12500fr	L: Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	
		R: Northern Carmine Bee-eater, <i>Merops nubicus</i>	Meropidae	
N/A	12500fr	Blue-bearded Bee-eater, <i>Nyctornis athertoni</i>	Meropidae	
N/A	12500fr	Blue-throated Bee-eater, <i>Merops viridis</i>	Meropidae	
N/A	SS 50000fr	White-throated Bee-eater, <i>Merops albicollis</i>	Meropidae	
	Margin	UR & LR: European Bee-eater, <i>Merops apiaster</i>	Meropidae	
		2017 August 25 (Pigeons) (MS/4 & SS/1)		A
N/A	12500fr	Stock Dove, <i>Columba oenas</i>	Columbidae	
N/A	12500fr	Speckled Pigeon, <i>Columba guinea</i>	Columbidae	
N/A	12500fr	Rock Pigeon, <i>Columba livia</i> ssp. <i>domestica</i>	Columbidae	
N/A	12500fr	Red-eyed Dove, <i>Streptopelia semitorquata</i>	Columbidae	

GUINEA (continued)

N/A	SS 50000fr	Rock Pigeon, <i>Columbia livia</i> ssp. <i>domestica</i>	Columbidae	
	Margin	R: Victoria Crowned Pigeon, <i>Goura victoria</i>	Columbidae	
		LL: Rock Pigeon, <i>Columbia livia</i>	Columbidae	
2017 August 25 (Owls) (MS/4 & SS/1)				A
N/A	12500fr	Southern White-faced Owl, <i>Ptilopsis granti</i>	Strigidae	
N/A	12500fr	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
N/A	12500fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
N/A	12500fr	Northern Saw-Whet Owl, <i>Aegolius acadicus</i>	Strigidae	
N/A	SS 50000fr	Great Horned Owl, <i>Bubo virginianus</i> (also in R margin)	Strigidae	
2017 October 9 (Raptors) (MS/4 & SS/1)				A
N/A	12500fr	Lammergeier, <i>Gypaetus barbatus</i>	Accipitridae	
N/A	12500fr	Steller's Sea-Eagle, <i>Haliaeetus pelagicus</i>	Accipitridae	
N/A	12500fr	King Vulture, <i>Sarcoramphus papa</i>	Cathartidae	
N/A	12500fr	Andean Condor, <i>Vultur gryphus</i>	Cathartidae	
N/A	SS 50000fr	Secretary-bird, <i>Sagittarius serpentarius</i>	Sagittariidae	
	Margin	R: White-backed Vulture, <i>Gyps africanus</i>	Accipitridae	
2018 February 27 (Owls) (MS/4 & SS/1)				A
N/A	12500fr	Brown Wood-Owl, <i>Strix leptogrammica</i>	Strigidae	
N/A	12500fr	Northern White-faced Owl, <i>Ptilopsis leucotis</i>	Strigidae	
N/A	12500fr	Spectacled Owl, <i>Pulsatrix perspicillata</i>	Strigidae	
N/A	12500fr	Barn Owl, <i>Tyto alba</i>	Tytonidae	
N/A	SS 50000fr	Long-eared Owl, <i>Asio otus</i>	Strigidae	
	Margin	R: Ural Owl, <i>Strix uralensis</i>	Strigidae	
2018 February 27 (Lighthouses) (MS/4 & SS/1)				B
N/A	12500fr	Eurasian Oystercatcher, <i>Haematopus ostralegus</i>	Haematopodidae	
N/A	12500fr	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae	
N/A	12500fr	Pink-backed Pelican, <i>Pelecanus rufescens</i>	Pelecanidae	
N/A	12500fr	Great Black-backed Gull, <i>Larus marinus</i>	Laridae	
N/A	SS 50000fr	Great Cormorant, <i>Phalacrocorax carbo</i> (also in Bot margin)	Phalacrocoracidae	
2018 April 26 (Parakeets) (MS/4 & SS/1)				A
N/A	12500fr	Yellow-faced Parrotlet, <i>Forpus xanthops</i> (Cap: <i>Alipiopsitta x.</i>)	Psittacidae	
N/A	12500fr	Ochre-marked Parakeet, <i>Pyrrhura cruentata</i>	Psittacidae	
N/A	12500fr	Red-and-green Macaw, <i>Ara chloropterus</i>	Psittacidae	
N/A	12500fr	Malabar Parakeet, <i>Psittacula columboides</i>	Psittaculidae	
N/A	SS 50000fr	Palm Cockatoo, <i>Probosciger aterrimus</i>	Cacatuidae	
	Margin	R: Sun Parakeet, <i>Aratinga solstitialis</i>	Psittacidae	
2018 April 26 (Hornbills) (MS/4 & SS/1)				A
N/A	12500fr	Rufous Hornbill, <i>Buceros hydrocorax</i>	Bucerotidae	
N/A	12500fr	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae	
N/A	12500fr	Southern Yellow-billed Hornbill, <i>Tockus leucomelas</i>	Bucerotidae	
N/A	12500fr	Southern Ground-Hornbill, <i>Bucorvus leadbeateri</i>	Bucorvidae	
N/A	SS 50000fr	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae	
	Margin	R: Rhinoceros Hornbill, <i>Buceros rhinoceros</i>	Bucerotidae	
2018 April 26 (Extinct Species) (MS/4)				A
N/A	12500fr	†Great Auk, <i>Pinguinus impennis</i>	Alcidae	
N/A	12500fr	†Dodo, <i>Raphus cucullatus</i>	Columbidae	
N/A	12500fr	†Labrador Duck, <i>Camptorhynchus labradorius</i>	Anatidae	

GUINEA-BISSAU			2016 October 24 (Endangered Animals) (SS/1)	A
Mi8876 SS 3000fr		Magellanic Penguin, <i>Spheniscus magellanicus</i>	Spheniscidae	
			2016 November 29 (Kingfishers) (MS/5 & SS/1)	A
Mi8925	600fr	Amazon Kingfisher, <i>Chloroceryle amazona</i>	Alcedinidae	
Mi8926	600fr	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
Mi8927	600fr	Brown-hooded Kingfisher, <i>Halcyon albiventris</i>	Alcedinidae	
Mi8928	600fr	Blue-breasted Kingfisher, <i>Halcyon malimbica</i>	Alcedinidae	
Mi8929	600fr	Malagasy Kingfisher, <i>Corythornis vintsioides</i>	Alcedinidae	
	Margin	UR: African Pygmy Kingfisher, <i>Ispidina picta</i>	Alcedinidae	
Mi8930 SS 3000fr		Black-backed Dwarf-Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
	Margin	LL: Giant Kingfisher, <i>Megaceryle maxima</i>	Alcedinidae	
		Ctr: Woodland Kingfisher, <i>Halcyon senegalensis</i>	Alcedinidae	
		LR: Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae	
			2016 November 29 (Parrots) (MS/5 & SS/1)	A
Mi8931	600fr	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
Mi8932	600fr	Brown-necked Parrot, <i>Poicephalus robustus</i>	Psittacidae	
Mi8933	600fr	Rueppell's Parrot, <i>Poicephalus rueppelli</i>	Psittacidae	
Mi8934	600fr	Meyer's Parrot, <i>Poicephalus meyeri</i> ssp. <i>damarensis</i>	Psittacidae	
Mi8935	600fr	Yellow-fronted Parrot, <i>Poicephalus flavifrons</i>	Psittacidae	
	Margin	UL: Red-fronted Parrot, <i>Poicephalus gulielmi</i>	Psittacidae	
		Ctr: Eastern Rosella, <i>Platycercus eximius</i>	Psittaculidae	
		UR: Common Rosella, <i>Platycercus elegans</i>	Psittaculidae	
Mi8936 SS 3000fr		Meyer's Parrot, <i>Poicephalus meyeri</i>	Psittacidae	
	Margin	LR & Ctr: Same species	Psittacidae	
		LL: Bronze-winged Parrot, <i>Pionus chalcopterus</i>	Psittacidae	
			2016 November 29 (Bee-eaters) (MS/5 & SS/1)	A
Mi8913	600fr	Blue-bearded Bee-eater, <i>Nyctyornis athertoni</i>	Meropidae	
Mi8914	600fr	Boehm's Bee-eater, <i>Merops boehmi</i>	Meropidae	
Mi8915	600fr	White-throated Bee-eater, <i>Merops albicollis</i>	Meropidae	
Mi8916	600fr	Rainbow Bee-eater, <i>Merops ornatus</i>	Meropidae	
Mi8917	600fr	Black Bee-eater, <i>Merops gularis</i>	Meropidae	
	Margin	UL: Blue-headed Bee-eater, <i>Merops muelleri</i>	Meropidae	
		Top: White-fronted Bee-eater, <i>Merops bullockoides</i>	Meropidae	
		UR: Northern Carmine Bee-eater, <i>Merops nubicus</i>	Meropidae	
Mi8918 SS 3000fr		Green Bee-eater, <i>Merops orientalis</i>	Meropidae	
	Margin	LL: Rainbow Bee-eater, <i>Merops ornatus</i>	Meropidae	
		Bot: Red-throated Bee-eater, <i>Merops bullocki</i> ssp. <i>frenatus</i>	Meropidae	
		LR: Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	
			2017 February 27 (Extinct Species) (MS/5)	A
Mi9105	600fr	†Great Auk, <i>Pinguinus impennis</i>	Alcidae	
			2017 March 28 (Owls) (MS/5 & SS/1)	A
Mi9176	600fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
Mi9177	600fr	Oriental Bay-Owl, <i>Phodilus badius</i>	Tytonidae	
Mi9178	600fr	Spectacled Owl, <i>Pulsatrix perspicillata</i>	Strigidae	
Mi9179	600fr	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
Mi9180	600fr	Tawny Owl, <i>Strix aluco</i>	Strigidae	
	Margin	LL: Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
		LR: Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	

GUINEA-BISSAU (continued)

Mi9181 SS 3000fr	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
Margin	UR: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
	LL: Striped Owl, <i>Pseudoscops clamator</i>	Strigidae	
	Bot: Burrowing Owl, <i>Athene cunicularia</i>	Strigidae	
2017 April 26 (Lighthouses) (MS/5 & SS/1)			B
N/A 660fr	Silver Gull, <i>Chroicocephalus novaehollandiae</i>	Laridae	
N/A SS Margin	UL: Black-tailed Gull, <i>Larus crassirostris</i>	Laridae	
2017 June 15 (Raptors) (MS/5 & SS/1)			A
Mi9356 660fr	Eurasian Griffon, <i>Gyps fulvus</i>	Accipitridae	
Mi9357 660fr	Mountain Caracara, <i>Phalco boenus megalopterus</i>	Falconidae	
Mi9358 660fr	Gray-lined Hawk, <i>Buteo nitidus</i>	Accipitridae	
Mi9359 660fr	Red-shouldered Hawk, <i>Buteo lineatus</i>	Accipitridae	
Mi9360 660fr	Scissor-tailed Kite, <i>Chelictinia riocourii</i>	Accipitridae	Vol. 66(3)
Margin	ML: Pearl Kite, <i>Gampsonyx swainsonii</i>	Accipitridae	
	MR: Bat Hawk, <i>Macheiramphus alcinus</i>	Accipitridae	
Mi9361 SS 3300fr	Bat Hawk, <i>Macheiramphus alcinus</i> (also in LR margin)	Accipitridae	
Margin	Top: Pearl Kite, <i>Gampsonyx swainsonii</i>	Accipitridae	
	UR: Gray-lined Hawk, <i>Buteo nitidus</i>	Accipitridae	
	Bot: Eurasian Griffon, <i>Gyps fulvus</i>	Accipitridae	
2017 June 15 (Water Birds) (MS/5 & SS/1)			A
Mi9350 660fr	Mallard, <i>Anas platyrhynchos</i>	Anatidae	
Mi9351 660fr	Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae	
Mi9352 660fr	R: Mute Swan, <i>Cygnus olor</i>	Anatidae	
	L: Trumpeter Swan, <i>Cygnus buccinator</i>	Anatidae	
Mi9353 660fr	Great Cormorant, <i>Phalacrocorax carbo</i>	Phalacrocoracidae	
Mi9354 660fr	Forest Kingfisher, <i>Todiramphus macleayii</i>	Alcedinidae	
Margin	LL: American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae	
	LR: Painted Stork, <i>Mycteria leucocephala</i>	Ciconiidae	
Mi9355 SS 3000fr	Gray Heron, <i>Ardea cinerea</i>	Ardeidae	
Margin	MR: Mute Swan, <i>Cygnus olor</i>	Anatidae	
	UR & LL: Trumpeter Swan, <i>Cygnus buccinator</i>	Anatidae	
2017 July 18 (Owls) (MS/5 & SS/1)			A
Mi9392 640fr	Ural Owl, <i>Strix uralensis</i>	Strigidae	
Mi9393 640fr	Little Owl, <i>Athene noctua</i>	Strigidae	
Mi9394 640fr	Striped Owl, <i>Pseudoscops clamator</i>	Strigidae	
Mi9395 640fr	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
Mi9396 640fr	Brown Fish-Owl, <i>Ketupa zeylonensis</i> (Cap: <i>Bubo z.</i>)	Strigidae	
Mi9397 SS 3300fr	Tawny Owl, <i>Strix aluco</i>	Strigidae	
Margin	L & R: U/I sp.		
2017 October 24 (Raptors) (MS/5 & SS/1)			A
Mi9500 640fr	Common Buzzard, <i>Buteo buteo</i>	Accipitridae	
Mi9501 640fr	Eurasian Marsh-Harrier, <i>Circus aeruginosus</i>	Accipitridae	
Mi9502 640fr	Merlin, <i>Falco columbarius</i>	Falconidae	
Mi9503 640fr	Southern Caracara, <i>Caracara plancus</i>	Falconidae	
Mi9504 640fr	Lesser Kestrel, <i>Falco naumanni</i>	Falconidae	
Mi9505 SS 3300fr	Hen Harrier, <i>Circus cyaneus</i>	Accipitridae	
Margin	ML: Red Kite, <i>Milvus milvus</i>	Accipitridae	
	MR: Eastern imperial eagle, <i>Aquila heliaca</i>	Accipitridae	
	LL: U/I sp.		

GUINEA-BISSAU (continued)		2018 January 9 (Marine Birds) (MS/5+label & SS/1)	A
Mi9636	640fr	Northern Fulmar, <i>Fulmarus glacialis</i>	Procellariidae
Mi9637	640fr	Silver Gull, <i>Chroicocephalus novaehollandiae</i>	Laridae
Mi9638	640fr	Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae
Mi9639	640fr	White Tern, <i>Gygis alba</i>	Laridae
Mi9640	640fr	Cape Gannet, <i>Morus capensis</i> (Cap: <i>Sula capensis</i>)	Sulidae
	Label	Double-crested Cormorant, <i>Phalacrocorax auritus</i>	Phalacrocoracidae
Mi9641 SS	3300fr	Sooty Tern, <i>Onychoprion fuscatus</i>	Laridae
	Margin	LL & LR: Northern Gannet, <i>Morus bassanus</i>	Sulidae
		UR: White-tailed Tropicbird, <i>Phaethon lepturus</i>	Phaethontidae
		2018 January 9 (Raptors) (MS/5+label & SS/1)	A
Mi9642	640fr	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae
Mi9643	640fr	Eurasian Kestrel, <i>Falco tinnunculus</i>	Falconidae
Mi9644	640fr	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae
Mi9645	640fr	Red-shouldered Hawk, <i>Buteo lineatus</i>	Accipitridae
Mi9646	640fr	Tawny Owl, <i>Strix aluco</i>	Strigidae
	Label	Barn Owl, <i>Tyto alba</i>	Tytonidae
Mi9647 SS	3300fr	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae
	Margin	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae
GUYANA		2017 December 26 (Wildlife of the Galápagos) (MS/6)	A
4528a	\$250	Galapagos Penguin, <i>Spheniscus mendiculus</i>	Spheniscidae
4528b	\$250	Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae
4528d	\$250	Blue-footed Booby, <i>Sula nebouxii</i>	Sulidae
4528e	\$250	Small Ground-Finch, <i>Geospiza fuliginosa</i>	Thraupidae
		2018 January 24 (Birds of Guyana) (MS/4 & SS/3)	A
4538a	\$125	American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae
4538b	\$225	Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae
4538c	\$325	Osprey, <i>Pandion haliaetus</i>	Pandionidae
4538d	\$525	Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae
4539a	SS \$350	Scarlet Ibis, <i>Eudocimus ruber</i>	Threskiornithidae
4539b	SS \$450	White-faced Whistling-Duck, <i>Dendrocygna viduata</i>	Anatidae
4539c	SS \$550	Maguari Stork, <i>Ciconia maguari</i>	Ciconiidae
JAPAN		2017 April 28 (Oze Natural Monument) (MS/10)	A
4101h	82¥	Latham's Snipe, <i>Gallinago hardwickii</i>	Scolopacidae
4101i	82¥	Red-flanked Bluetail, <i>Tarsiger cyanurus</i>	Muscicapidae
		2017 June 7 (Paintings) (MS/10)	C
4118d	82¥	Green Pheasant, <i>Phasianus versicolor</i> (ptg by Hori) (This is now a subspecies of Ring-necked Pheasant, <i>Phasianus colchicus</i> .)	Phasianidae
		2017 July 5 (Penguins) (MS/10)	A
4124a-c,e,h,j	82¥	Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae
4124f-g,i	82¥	Chinstrap Penguin, <i>Pygoscelis antarcticus</i>	Spheniscidae
		2017 August 18 (Definitives) (Sheet/10)	S
4141a	82¥	Indian Peafowl, <i>Pavo cristatus</i> (stylized)	Phasianidae
4141b	82¥	Stylized Geese	
4141c	82¥	Mandarin Duck, <i>Aix galericulata</i> (stylized)	Anatidae
4141d	82¥	Stylized Egrets	
4141e	82¥	Stylized Plovers	
4141		Sheet/10 (2ea Sc#4141a-e)	

JORDAN		2017 October 12 (Birds) (MS/6)		A
2336a	30pi	Rock Dove, <i>Columba livia</i>	Columbidae	
2336b	30pi	European Goldfinch, <i>Carduelis carduelis</i>	Fringillidae	
2336c	30pi	Long-legged Buzzard, <i>Buteo rufinus</i>	Accipitridae	
2336d	30pi	Eurasian Blackbird, <i>Turdus merula</i>	Turdidae	
2336e	30pi	Chukar, <i>Alectoris chukar</i>	Phasianidae	
2336f	30pi	Sinai Rosefinch, <i>Carpodacus synoicus</i>	Fringillidae	
KOREA (South)		2016 November 22 (Animals in the Demilitarized Zone) (Pair)		A
2480a	300w	Great Tit, <i>Parus major</i>	Paridae	
2480b	300w	Black-faced Spoonbill, <i>Platalea minor</i>	Threskiornithidae	
		2017 June 5 (Wildlife in the Demilitarized Zone) (Pair)		B
2496b	330w	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
KYRGYZSTAN		2017 February 25 (WWF: Pelicans) (Set/4 & SS/8)		A
538	22s	Dalmatian Pelican, <i>Pelecanus crispus</i> (one bird in flight)	Pelecanidae	
539	31s	Same species (two in flight)	Pelecanidae	
540	39s	Same species (one floating on water)	Pelecanidae	
541	117s	Same species (three on water)	Pelecanidae	
541a		SS/8 (2ea Sc#538–41)		
		2017 March 25 (Flora & Fauna) (Set/2 & SS/4)		A
543	48s	Black Stork, <i>Ciconia nigra</i>	Ciconiidae	
543a		SS/4 (2ea Sc#542–43)		
KYRGYZ EXPRESS POST		2017 July 14 (Traditional Hunting) (Set/3 & SS/3)		B
60	75s	Golden Eagle, <i>Aquila chrysaetos</i> (w/hunter on horseback)	Accipitridae	
61a		SS/3 (Sc#59–61)		
LIBERIA		2015 February 2 (African Penguins) (MS/4, MS/6, & 2ea SS/1)		A
3031a	\$100	Jackass Penguin, <i>Spheniscus demersus</i> (one in water)	Spheniscidae	
3031b	\$100	Same species (three under water)	Spheniscidae	
3031c	\$100	Same species (one out of water)	Spheniscidae	
3031d	\$100	Same species (three w/ heads above water)	Spheniscidae	
	Margin	Bot: Same species	Spheniscidae	
3032a	\$100	Same species (facing right on beach)	Spheniscidae	
3032b	\$100	Same species (facing left on beach)	Spheniscidae	
3032c	\$100	Same species (facing right on beach-wings spread)	Spheniscidae	
3032d	\$100	Same species (one w/ foliage in foreground)	Spheniscidae	
3032e	\$100	Same species (two penguins)	Spheniscidae	
3032f	\$100	Same species (three penguins)	Spheniscidae	
	Margin	L: Same species	Spheniscidae	
3033	SS \$350	Same species (one penguin)	Spheniscidae	
3034	SS \$350	Same species (two penguins)	Spheniscidae	
MACAO		2015 May 5 (Wetlands Wildlife) (SS/1) (previously missed)		A
1442	SS 12p	Black-faced Spoonbill, <i>Platalea minor</i>	Threskiornithidae	
MALAWI		2017 July 1 (Surcharges)		A
842	600k	Gray Cuckooshrike, <i>Coracina caesia</i> (Sc#526 surch)	Campephagidae	
843	600k	Lemon Dove, <i>Columba larvata</i> (Sc#530 surch)	Columbidae	
844	600k	Silvery-cheeked Hornbill, <i>Bycanistes brevis</i> (Sc#531 surch)	Bucerotidae	
845	900k	White-tailed Crested Flycatcher, <i>Elminia albonotata</i> (Sc#528 surch)	Monarchidae	
MALDIVES ISLANDS		2016 September 8 (Ancient Egyptian Art) (MS/4)		B
Mi6556	22r	Gray Heron, <i>Ardea cinerea</i> (stylized)	Ardeidae	

MALDIVIVE ISLANDS (continued)			2017 March 16 (Wildlife of Maldives: Ducks) (MS/4 & SS/1)	A
Mi6763	22r	Lesser Whistling-Duck, <i>Dendrocygna javanica</i>	Anatidae	
Mi6764	22r	Tufted Duck, <i>Aythya fuligula</i>	Anatidae	
Mi6765	22r	Garganey, <i>Anas querquedula</i>	Anatidae	
Mi6766	22r	Northern Shoveler, <i>Anas clypeata</i>	Anatidae	
Mi6767	SS 70r	Ferruginous Duck, <i>Aythya nyroca</i>	Anatidae	
Margin		UR & LL: Northern Pintail, <i>Anas acuta</i>	Anatidae	
			2017 March 16 (Doves) (MS/4 & SS/1)	A
Mi6768	22r	Yellow-footed Pigeon, <i>Treron phoenicoptera</i>	Columbidae	(new)
Mi6769	22r	Comoro Blue-Pigeon, <i>Alectroenas sganzeni</i>	Columbidae	
Mi6770	22r	Oriental Turtle-Dove, <i>Streptopelia orientalis</i>	Columbidae	
Mi6771	22r	Seychelles Blue-Pigeon, <i>Alectroenas pulcherrimus</i>	Columbidae	
Mi6772	SS 60r	Asian Emerald Dove, <i>Chalcophaps indica</i>	Columbidae	
Margin		Top: Seychelles Blue-Pigeon, <i>Alectroenas pulcherrimus</i>	Columbidae	
			2017 March 16 (Owls & Mushrooms) (MS/4 & SS/1)	A
N/A	22r	Blakiston's Fish-Owl, <i>Ketupa blakistoni</i> (Cap: <i>Bubo b.</i>)	Strigidae	
N/A	22r	Burrowing Owl, <i>Athene cunicularia</i>	Strigidae	
N/A	22r	Spotted Eagle-Owl, <i>Bubo africanus</i>	Strigidae	
N/A	22r	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
N/A	SS 70r	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
Margin		Burrowing Owl, <i>Athene cunicularia</i>	Strigidae	
			2017 May 17 (Birds of Prey) (MS/4 & SS/1)	A
Mi7033	22r	Eurasian Kestrel, <i>Falco tinnunculus</i>	Falconidae	
Mi7034	22r	King Vulture, <i>Sarcoramphus papa</i>	Cathartidae	
Mi7035	22r	Red Kite, <i>Milvus milvus</i>	Accipitridae	
Mi7036	22r	Eurasian Hobby, <i>Falco subbuteo</i>	Falconidae	
Mi7037	SS 70r	White-tailed Kite, <i>Elanus leucurus</i>	Accipitridae	
Margin		LL: Egyptian Vulture, <i>Neophron percnopterus</i>	Accipitridae	
		Bot: Changeable Hawk-eagle, <i>Nisaetus cirrhatus</i>	Accipitridae	
		LR: Red Kite, <i>Milvus milvus</i>	Accipitridae	
			2017 May 17 (Hornbills) (MS/4 & SS/1)	A
Mi7028	20r	Wreathed Hornbill, <i>Rhyticeros undulatus</i>	Bucerotidae	
Mi7029	20r	Helmeted Hornbill, <i>Buceros vigil</i>	Bucerotidae	
Mi7030	20r	Rhinoceros Hornbill, <i>Buceros rhinoceros</i>	Bucerotidae	
Mi7031	20r	Southern Ground-Hornbill, <i>Bucorvus leadbeateri</i>	Bucorvidae	
Mi7032	SS 60r	Knobbed Hornbill, <i>Rhyticeros cassidix</i>	Bucerotidae	
Margin		L & R: Southern Ground-Hornbill, <i>Bucorvus leadbeateri</i>	Bucorvidae	
			2017 May 17 (Owls) (MS/4 & SS/1)	A
Mi7043	20r	Barred Owl, <i>Strix varia</i>	Strigidae	
Mi7044	20r	Northern White-faced Owl, <i>Ptilopsis leucotis</i>	Strigidae	
Mi7045	20r	Australian Masked-Owl, <i>Tyto novaehollandiae</i> ssp. <i>melvillensis</i>	Tytonidae	
Mi7046	20r	Barn Owl, <i>Tyto alba</i>	Tytonidae	
Mi7047	SS 60r	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
Margin		LL: Golden Masked Owl, <i>Tyto aurantia</i>	Tytonidae	
		LR: Barred Owl, <i>Strix varia</i>	Strigidae	
			2017 May 17 (Sea Birds) (MS/4 & SS/1)	A
Mi7048	20r	Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae	
Mi7049	20r	Northern Gannet, <i>Morus bassanus</i>	Sulidae	
Mi7050	20r	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae	

MALDIVE ISLANDS (continued)

Mi7051	20r	Southern Rockhopper Penguin, <i>Eudyptes chrysocome</i>	Spheniscidae	
Mi7052	SS 60r	Jackass Penguin, <i>Spheniscus demersus</i>	Spheniscidae	
	Margin	UL: Black-bellied Tern, <i>Sterna acuticauda</i>	Laridae	
		LL & Bot: Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae	
		UR: Cape Gannet, <i>Morus capensis</i>	Sulidae	
2017 May 17 (Parrots) (MS/4 & SS/1)				A
Mi7038	22r	Galah, <i>Eolophus roseicapilla</i>	Cacatuidae	
Mi7039	22r	Red-bellied Macaw, <i>Orthopsittaca manilatus</i>	Psittacidae	
Mi7040	22r	Pink Cockatoo, <i>Lophochroa leadbeateri</i>	Cacatuidae	
Mi7041	22r	Sulphur-crested Cockatoo, <i>Cacatua galerita</i>	Cacatuidae	
Mi7042	SS 70r	Ornate Lorikeet, <i>Trichoglossus ornatus</i>	Psittaculidae	
	Margin	Scarlet Macaw, <i>Ara macao</i>	Psittacidae	
2017 May 17 (Indigobirds) (MS/4 & SS/1)				A
Mi7023	20r	Variable Indigobird, <i>Vidua funerea</i>	Viduidae	Vol. 66(3)
Mi7024	20r	Cameroon Indigobird, <i>Vidua camerunensis</i>	Viduidae	
Mi7025	20r	Wilson's Indigobird, <i>Vidua wilsoni</i>	Viduidae	
Mi7026	20r	Village Indigobird, <i>Vidua chalybeate</i>	Viduidae	
Mi7027	SS 60r	Wilson's Indigobird, <i>Vidua wilsoni</i>	Viduidae	
	Margin	Bot: Variable Indigobird, <i>Vidua funerea</i>	Viduidae	
2017 May 17 (Kingfishers) (MS/4 & SS/1)				A
Mi7018	22r	Malachite Kingfisher, <i>Corythornis cristatus</i> (Cap: <i>Alcedo cristata</i>)	Alcedinidae	
Mi7019	22r	Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae	
Mi7020	22r	Woodland Kingfisher, <i>Halcyon senegalensis</i>	Alcedinidae	
Mi7021	22r	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
Mi7022	SS 70r	Malachite Kingfisher, <i>Corythornis cristatus</i>	Alcedinidae	
	Margin	UL: African Pygmy Kingfisher, <i>Ispidina picta</i>	Alcedinidae	
		LL: Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
		UR: African Dwarf Kingfisher, <i>Ispidina lecontei</i>	Alcedinidae	
		LR: Indigo-banded Kingfisher, <i>Ceyx cyanopectus</i>	Alcedinidae	
2017 June 21 (Paintings of Birds of Prey) (MS/4 & SS/1)				U A
Mi7033	20r	U/I Hawk (ptg by Jean-Baptiste Oudry)		
Mi7034	20r	U/I Eagle, Swallow, Snipe, & Finch (ptg by Melchior d'Hondecoeter)		
Mi7035	20r	U/I Eagle (ptg by Jan van Kessel)		
Mi7036	20r	U/I Eagle (ptg by J.J. Audubon known as "Bird of Washington")		
Mi7037	SS 60r	Peregrine Falcon, <i>Falco peregrinus</i> (ptg by J.J. Audubon)	Falconidae	
	Margin	LL: Golden Eagle, <i>Aquila chrysaetos</i> (ptg by J.J. Audubon)	Accipitridae	
		R: Rough-legged Buzzard, <i>Buteo lagopus</i> (ptg by J.J. Audubon)	Accipitridae	
2017 June 21 (Paintings of Owls) (MS/4 & SS/1)				A
N/A	22r	Snowy Owl, <i>Bubo scandiacus</i> (ptg by J.J. Audubon)	Strigidae	
N/A	22r	Barn Owl, <i>Tyto alba</i> (ptg by William Sartorius)	Tytonidae	
N/A	22r	Barn Owl, <i>Tyto alba</i> (ptg by Melchior d'Hondecoeter)	Tytonidae	
N/A	22r	Mottled Owl, <i>Ciccaba virgata</i> (ptg by J.J. Audubon)	Strigidae	
N/A	SS 70r	Little Owl, <i>Athene noctua</i> (ptg by J.J. Audubon)	Strigidae	
	Margin	LL: Barn Owl, <i>Tyto alba</i> (ptg by J.J. Audubon)	Tytonidae	
		Ctr: Barn Owl, <i>Tyto alba</i> (ptg by van Gogh)	Tytonidae	
		R: Stylized White Owl (ptg by William James Webbe)		

MALDIVE ISLANDS (continued) 2017 September 26 (Birdpex: Rare Birds of Maldives) (MS/4 & SS/1) **A**

Mi7213	20r	Black-headed Heron, <i>Ardea melanocephala</i>	Ardeidae
Mi7214	20r	Amur Falcon, <i>Falco amurensis</i>	Falconidae
Mi7215	20r	Rose-ringed Parakeet, <i>Psittacula krameri</i>	Psittaculidae
Mi7216	20r	Brahminy Kite, <i>Haliastur Indus</i>	Accipitridae
Margin		Top: Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae
Mi7217	SS 60r	Great Egret, <i>Ardea alba</i>	Ardeidae
Margin		LR: Lesser Whistling-Duck, <i>Dendrocygna javanica</i>	Anatidae
		UR: Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae

2018 March 15 (Owls) (MS/4 & SS/1) **A**

N/A	20r	Tawny Owl, <i>Strix aluco</i>	Strigidae
N/A	20r	Short-eared Owl, <i>Asio flammeus</i>	Strigidae
N/A	20r	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae
N/A	20r	Eastern Screech-Owl, <i>Megascops asio</i>	Strigidae
N/A	SS 60r	Northern Saw-Whet Owl, <i>Aegolius acadicus</i>	Strigidae
Margin		R: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae

2018 March 15 (Birds of Paradise) (MS/4 & SS/1) **A**

N/A	22r	Wilson's Bird-of-Paradise, <i>Cicinnurus respublica</i> (Cap: <i>Diphyllodes respublica</i>)	Paradisaeidae
N/A	22r	Blue Bird-of-Paradise, <i>Paradisaea rudolphi</i>	Paradisaeidae
N/A	22r	King Bird-of-Paradise, <i>Cicinnurus regius</i>	Paradisaeidae
N/A	22r	Greater Bird-of-Paradise, <i>Paradisaea apoda</i>	Paradisaeidae
N/A	SS 70r	Victoria's Riflebird, <i>Ptiloris victoriae</i>	Paradisaeidae
Margin		R: Raggiana Bird-of-Paradise, <i>Paradisaea raggiana</i>	Paradisaeidae
		Ctr: Red Bird-of-Paradise, <i>Paradisaea rubra</i>	Paradisaeidae

2018 May 10 (Water Birds) (MS/4 & SS/1) **A**

N/A	20r	Magpie Goose, <i>Anseranas semipalmata</i>	Anseranatidae
N/A	20r	Chilean Flamingo, <i>Phoenicopterus chilensis</i>	Phoenicopteridae
N/A	20r	Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae
N/A	20r	Canada Goose, <i>Branta canadensis</i>	Anatidae
N/A	SS 60r	Whooper Swan, <i>Cygnus cygnus</i>	Anatidae
Margin		R: Mallard, <i>Anas platyrhynchos</i>	Anatidae
		Bot: Painted Stork, <i>Mycteria leucocephala</i>	Ciconiidae

2018 May 17 (Fishing Birds) (MS/4 & SS/1) **A**

N/A	20r	Anhinga, <i>Anhinga anhinga</i>	Anhingidae
N/A	20r	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae
N/A	20r	Striated Heron, <i>Butorides striata</i> ssp. <i>javanica</i>	Ardeidae
N/A	20r	Little Blue Heron, <i>Egretta caerulea</i>	Ardeidae
N/A	SS 60r	Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae
Margin		MR: Reddish Egret, <i>Egretta rufescens</i>	Ardeidae
		UR: Wood Stork, <i>Mycteria americana</i>	Ciconiidae
		LL: Double-crested Cormorant, <i>Phalacrocorax auritus</i>	Phalacrocoracidae

2018 May 17 (Pigeons) (MS/4 & SS/1) **A**

N/A	20r	Maroon Pigeon, <i>Columba thomensis</i>	Columbidae
N/A	20r	White-collared Pigeon, <i>Columba albitorques</i>	Columbidae
N/A	20r	Rock Pigeon, <i>Columbia livia</i>	Columbidae
N/A	20r	White-headed Pigeon, <i>Columba leucomela</i>	Columbidae
N/A	SS 60r	Snow Pigeon, <i>Columba leuconota</i>	Columbidae
Margin		LL: Common Wood-Pigeon, <i>Columba palumbus</i>	Columbidae
		LR: Barbary or Domestic Dove, <i>Streptopelia risoria</i>	Columbidae

(new)

MALDIVES ISLANDS (continued)			2018 May 17 (Birds of Prey) (MS/4 & SS/1)	A
N/A	20r	Secretary-bird, <i>Sagittarius serpentarius</i>	Sagittariidae	
N/A	20r	King Vulture, <i>Sarcoramphus papa</i>	Cathartidae	
N/A	20r	Booted Eagle, <i>Hieraaetus pennatus</i>	Accipitridae	
N/A	20r	Osprey, <i>Pandion haliaetus</i>	Pandionidae	
N/A	SS 60r	Andean Condor, <i>Vultur gryphus</i>	Cathartidae	
	Margin	Bot: Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
MEXICO			2017 July 21 (25th anniv. Environmental Protection Office) (Single)	A
3061	7p	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
MONTENEGRO			2017 March 30 (Spoonbill) (Single)	A
414	95c	Eurasian Spoonbill, <i>Platalea leucorodia</i>	Threskiornithidae	
MOZAMBIQUE			2016 May 10 (Lighthouses) (SS/1)	Z
Mi8423	SS 175m	UR: Northern Gannet, <i>Morus bassanus</i>	Sulidae	
			2016 July 10 (Hummingbirds) (MS/4 & SS/1)	A
Mi8604	100m	Mexican Violetear, <i>Colibri thalassinus</i>	Trochilidae	
Mi8605	100m	White-throated Hummingbird, <i>Leucochloris albicollis</i>	Trochilidae	Vol. 66(1)
Mi8606	100m	White-vented Violetear, <i>Colibri serrirostris</i>	Trochilidae	
Mi8607	100m	Anna's Hummingbird, <i>Calypte anna</i>	Trochilidae	
	Margin	UR: Costa's Hummingbird, <i>Calypte costae</i>	Trochilidae	
Mi8608	SS 350m	Costa's Hummingbird, <i>Calypte costae</i>	Trochilidae	
	Margin	MR: Ruby-throated Hummingbird, <i>Archilochus colubris</i>	Trochilidae	
		LR: Scale-throated Hermit, <i>Phaethornis eurynome</i> (previously shown on a 1981 Eynhallow local issue)	Trochilidae	
			2016 July 10 (Kingfishers) (MS/4 & SS/1)	A
Mi8609	100m	White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae	
Mi8610	100m	Amazon Kingfisher, <i>Chloroceryle amazona</i>	Alcedinidae	
Mi8611	100m	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
Mi8612	100m	Black-backed Dwarf-Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
Mi8613	SS 350m	L: Common Paradise-Kingfisher, <i>Tanysiptera galatea</i>	Alcedinidae	
		R: Azure Kingfisher, <i>Ceyx azureus</i>	Alcedinidae	
		Bot: Forest Kingfisher, <i>Todiramphus macleayii</i>	Alcedinidae	
	Margin	White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae	
			2016 August 10 (Endangered Animals) (MS/4)	A
Mi8761	100m	California Condor, <i>Gymnogyps californianus</i>	Cathartidae	
			2016 August 10 (Birds of Prey) (MS/4 & SS/1)	A
Mi8749	100m	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
Mi8750	100m	Brown Falcon, <i>Falco berigora</i>	Falconidae	
Mi8751	100m	Osprey, <i>Pandion haliaetus</i>	Pandionidae	
Mi8752	100m	Turkey Vulture, <i>Cathartes aura</i>	Cathartidae	
	Margin	UR: Red-tailed Hawk, <i>Buteo jamaicensis</i>	Accipitridae	
Mi8753	SS 350m	Red-tailed Hawk, <i>Buteo jamaicensis</i>	Accipitridae	
	Margin	Bot: King Vulture, <i>Sarcoramphus papa</i>	Cathartidae	
		UR: Andean Condor, <i>Vultur gryphus</i>	Cathartidae	
			2016 August 10 (Owls) (MS/4 & SS/1)	A
Mi8774	100m	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
Mi8775	100m	Spotted Eagle-Owl, <i>Bubo africanus</i>	Strigidae	
Mi8776	100m	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
Mi8777	100m	Barn Owl, <i>Tyto alba</i>	Tytonidae	

MOZAMBIQUE (continued)

Mi8778	SS 350m	Blakiston's Fish-Owl, <i>Bubo blakistoni</i>	Strigidae	
	Margin	UL & UR: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
		Bot: Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
2016 November 10 (Pigeons) (MS/4 & SS/1)				A
Mi8929	100m	Rameron Pigeon, <i>Columba arquatrix</i>	Columbidae	
Mi8930	100m	African Green-Pigeon, <i>Treron calvus</i>	Columbidae	
Mi8931	100m	Rock Pigeon, <i>Columba livia</i>	Columbidae	
Mi8932	100m	Delegorgue's Pigeon, <i>Columba delegorguei</i>	Columbidae	Vol. 66(3)
Mi8933	SS 350m	Speckled Pigeon, <i>Columba guinea</i>	Columbidae	
	Margin	Bot: African Green-Pigeon, <i>Treron calvus</i>	Columbidae	
2016 November 10 (Eagles) (MS/4 & SS/1)				A
Mi8924	100m	Crowned Hawk-Eagle, <i>Stephanoaetus coronatus</i>	Accipitridae	
Mi8925	100m	Booted Eagle, <i>Hieraetus pennatus</i> (Cap: <i>Aquila pennata</i>)	Accipitridae	
Mi8926	100m	Wahlberg's Eagle, <i>Hieraetus wahlbergi</i>	Accipitridae	
Mi8927	100m	African Fish-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae	
Mi8928	SS 350m	Tawny Eagle, <i>Aquila rapax</i> (also in LL margin)	Accipitridae	
	Margin	LR: African Fish Eagle, <i>Haliaeetus vocifer</i>	Accipitridae	
2016 November 10 (Water Birds) (MS/4 & SS/1)				A
Mi8914	100m	Great White Pelican, <i>Pelecanus onocrotalus</i>	Pelecanidae	
Mi8915	100m	Hamerkop, <i>Scopus umbretta</i>	Scopidae	
Mi8916	100m	African Darter, <i>Anhinga rufa</i>	Anhingidae	
Mi8917	100m	Egyptian Goose, <i>Alopochen aegyptiaca</i>	Anatidae	
Mi8918	SS 350m	African Pygmy-Goose, <i>Nettion auritus</i>	Anatidae	
	Margin	Bot: Jackass Penguin, <i>Spheniscus demersus</i>	Spheniscidae	
2016 November 10 (Bee-eaters) (MS/4 & SS/1)				A
Mi8919	100m	Boehm's Bee-eater, <i>Merops boehmi</i>	Meropidae	
Mi8920	100m	European Bee-eater, <i>Merops apiaster</i>	Meropidae	
Mi8921	100m	Blue-cheeked Bee-eater, <i>Merops persicus</i>	Meropidae	
Mi8922	100m	White-fronted Bee-eater, <i>Merops bullockoides</i>	Meropidae	
Mi8923	SS 350m	Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	
	Margin	Bot: European Bee-eater, <i>Merops apiaster</i>	Meropidae	
2017 February 10 (Extinct Species) (MS/4 & SS/1)				A
Mi9074	100m	†Laughing Owl, <i>Sceloglaux albifacies</i>	Strigidae	
Mi9075	100m	†Mauritius Blue-Pigeon, <i>Alectroenas nitidissima</i>	Columbidae	
Mi9076	100m	†Dodo, <i>Raphus cucullatus</i> (Cap: <i>Didus cucullatus</i>)	Columbidae	
Mi9077	100m	L: †Lord Howe Gallinule, <i>Notornis alba</i>	Rallidae	
		R: †Reunion Island Gallinule, <i>Porphyrio coerulescens</i>	Rallidae	
Mi9078	SS 350m	L: †Mascarene Parrot, <i>Mascarinus mascarinus</i>	Psittaculidae	
		Ctr: †Broad-billed Parrot, <i>Lophopsittacus mauritianus</i>	Psittaculidae	
		R: †Cuban Macaw, <i>Ara tricolor</i>	Psittacidae	
	Margin	ML: †Oahu 'Akialoa, <i>Akialoa ellisana</i>	Fringillidae	
		ML: †O'ahu Nukupu'u, <i>Hemignathus lucidus</i>	Fringillidae	
		LL: †'Ō'ū, <i>Psittirostra psittacea</i>	Fringillidae	
		Bot: †'Ula-'ai-hawane, <i>Ciridops anna</i>	Fringillidae	
		LR: †Norfolk Kākā, <i>Nestor productus</i> (Cap: <i>N. norfolcensis</i>)	Strigopidae	
2017 February 10 (Hornbills) (MS/4 & SS/1)				A
Mi9079	100m	Southern Yellow-billed Hornbill, <i>Tockus leucomelas</i>	Bucerotidae	
Mi9080	100m	Knobbed Hornbill, <i>Rhyticeros cassidix</i>	Bucerotidae	

MOZAMBIQUE (continued)

Mi9081	100m	Writhed-billed Hornbill, <i>Rhabdotorrhinus waldeni</i>	Bucerotidae	Vol. 66(3)
Mi9082	100m	Blyth's Hornbill, <i>Rhyticeros plicatus</i>	Bucerotidae	
Mi9083	SS 350m	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae	
	Margin	LL: Wreathed Hornbill, <i>Rhyticeros undulatus</i>	Bucerotidae	
		LR: Knobbed Hornbill, <i>Rhyticeros cassidix</i>	Bucerotidae	
2017 February 10 (Owls) (MS/4 & SS/1)				A
Mi9089	100m	Grayish Eagle-Owl, <i>Bubo cinerascens</i>	Strigidae	
Mi9090	100m	Rock Eagle-Owl, <i>Bubo bengalensis</i>	Strigidae	
Mi9091	100m	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
Mi9092	100m	Sokoke Scops-Owl, <i>Otus ireneae</i>	Strigidae	
Mi9093	SS 350m	Ashy-faced Owl, <i>Tyto glaucops</i>	Tytonidae	
	Margin	LL: Barn Owl, <i>Tyto alba</i>	Tytonidae	
		LR: Barred Eagle-Owl, <i>Bubo sumatranus</i>	Strigidae	
2017 February 10 (Sea Birds) (MS/4 & SS/1)				A
Mi9084	100m	Red-faced Cormorant, <i>Phalacrocorax urile</i>	Phalacrocoracidae	
Mi9085	100m	Razorbill, <i>Alca torda</i>	Alcidae	
Mi9086	100m	Southern Rockhopper Penguin, <i>Eudyptes chrysocome</i>	Spheniscidae	
Mi9087	100m	Peruvian Booby, <i>Sula variegata</i>	Sulidae	
Mi9088	SS 350m	Australian Pelican, <i>Pelecanus conspicillatus</i>	Pelecanidae	
	Margin	LL: Tufted Puffin, <i>Fratercula cirrhata</i>	Alcidae	
		LR: Salvin's Albatross, <i>Thalassarche salvini</i>	Diomedidae	
2018 February 15 (Water Birds) (MS/4 & SS/1)				A
Mi9259	116m	Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae	
Mi9260	116m	Mandarin Duck, <i>Aix galericulata</i>	Anatidae	
Mi9261	116m	Mallard, <i>Anas platyrhynchos</i>	Anatidae	
Mi9262	116m	Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	
Mi9263	SS 300m	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae	
	Margin	Bot: Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae	
2018 February 15 (Raptors) (MS/4 & SS/1)				A
Mi9264	116m	Palm-nut Vulture, <i>Gypohierax angolensis</i>	Accipitridae	
Mi9265	116m	Lammergeier, <i>Gypaetus barbatus</i>	Accipitridae	
Mi9266	116m	Andean Condor, <i>Vultur gryphus</i>	Cathartidae	
Mi9267	116m	White-rumped Vulture, <i>Gyps bengalensis</i>	Accipitridae	
Mi9268	SS 300m	King Vulture, <i>Sarcoramphus papa</i>	Cathartidae	
	Margin	UR: Black Vulture, <i>Coragyps atratus</i>	Cathartidae	
		Bot: Lappet-faced Vulture, <i>Torgos tracheliotos</i>	Accipitridae	
2018 February 15 (Owls) (MS/4 & SS/1)				A
Mi9269	116m	Great Horned Owl, <i>Bubo virginianus</i> ssp. <i>subarcticus</i>	Strigidae	
Mi9270	116m	Little Owl, <i>Athene noctua</i>	Strigidae	
Mi9271	116m	Barred Owl, <i>Strix varia</i>	Strigidae	
Mi9272	116m	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
Mi9273	SS 300m	Barn Owl, <i>Tyto alba</i>	Tytonidae	
	Margin	Bot: Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
2018 February 15 (Endangered Animals) (MS/4 & SS/1)				A
Mi9281	116m	Galapagos Penguin, <i>Spheniscus mendiculus</i>	Spheniscidae	
Mi9283	SS 300m	LR: Forest Owlet, <i>Athene blewitti</i> (previously listed as new)	Strigidae	Vol. 66(3)

MOZAMBIQUE (continued)			2018 February 15 (Parrots) (MS/4 & SS/1)	A
Mi9274	116m	Eastern Rosella, <i>Platyercus eximius</i>	Psittaculidae	
Mi9275	116m	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
Mi9276	116m	Yellow-crested Cockatoo, <i>Cacatua sulphurea</i>	Cacatuidae	
Mi9277	116m	Rainbow Lorikeet, <i>Trichoglossus moluccanus</i>	Psittaculidae	
Mi9278	SS 300m	Blue-and-yellow Macaw, <i>Ara ararauna</i> (also in Bot margin)	Psittacidae	
			2018 February 15 (Passerines of Mozambique) (MS/4 & SS/1)	A
Mi9254	116m	Eurasian Hoopoe, <i>Upupa epops</i>	Upupidae	
Mi9255	116m	Collared Sunbird, <i>Hedydipna collaris</i> (Cap: <i>Anthreptes c.</i>)	Nectariniidae	
Mi9256	116m	Red-cheeked Cordonbleu, <i>Uraeginthus bengalus</i>	Estrildidae	
Mi9257	116m	Lilac-breasted Roller, <i>Coracias caudatus</i>	Coraciidae	
Mi9258	SS 300m	Knysna Turaco, <i>Tauraco corythaix</i>	Musophagidae	
	Margin	Bot: Purple-crested Turaco, <i>Tauraco porphyreolophus</i>	Musophagidae	
			2018 February 15 (Bee-eaters) (MS/4 & SS/1)	A
Mi9244	116m	Rainbow Bee-eater, <i>Merops ornatus</i>	Meropidae	
Mi9245	116m	White-fronted Bee-eater, <i>Merops bullockoides</i>	Meropidae	
Mi9246	116m	European Bee-eater, <i>Merops apiaster</i>	Meropidae	
Mi9247	116m	Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	
Mi9248	SS 300m	Black Bee-eater, <i>Merops gularis</i>	Meropidae	
	Margin	Bot: European Bee-eater, <i>Merops apiaster</i>	Meropidae	
			2018 February 15 (Kingfishers) (MS/4 & SS/1)	A
Mi9249	116m	Laughing Kookaburra, <i>Dacelo novaeguineae</i>	Alcedinidae	
Mi9250	116m	Blue-breasted Kingfisher, <i>Halcyon malimbica</i>	Alcedinidae	
Mi9251	116m	Black-backed Dwarf-Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
Mi9252	116m	Yellow-billed Kingfisher, <i>Syma torotoro</i>	Alcedinidae	
Mi9253	SS 300m	Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae	
	Margin	ML: Giant Kingfisher, <i>Megaceryle maxima</i>	Alcedinidae	
		LR: Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
			2018 February 15 (Hornbills) (MS/4 & SS/1)	A
Mi9239	116m	Rhinoceros Hornbill, <i>Buceros rhinoceros</i>	Bucerotidae	
Mi9240	116m	Trumpeter Hornbill, <i>Bycanistes bucinator</i>	Bucerotidae	
Mi9241	116m	Southern Ground-Hornbill, <i>Bucorvus leadbeateri</i>	Bucorvidae	
Mi9242	116m	Wreathed Hornbill, <i>Rhyticeros undulates</i>	Bucerotidae	
Mi9243	SS 300m	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae	
	Margin	Bot: Black-casqued Hornbill, <i>Ceratogymna atrata</i>	Bucerotidae	
			2018 April 15 (Sea Birds & Lighthouses) (Set/4 & SS/1)	A
N/A	116m	Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae	
N/A	116m	Northern Fulmar, <i>Fulmarus glacialis</i>	Procellariidae	
N/A	116m	Common Murre, <i>Uria aalge</i>	Alcidae	
N/A	116m	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae	
N/A	SS 300m	White-capped Albatross, <i>Thalassarche cauta</i>	Diomedidae	
	Margin	LR: Cape Petrel, <i>Daption capense</i>	Procellariidae	
			2018 April 15 (Eagles) (Set/4 & SS/1)	A
N/A	116m	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
N/A	116m	Osprey, <i>Pandion haliaetus</i>	Pandionidae	
N/A	116m	White-bellied Sea-Eagle, <i>Haliaeetus leucogaster</i>	Accipitridae	
N/A	116m	Sanford's Sea-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae	
N/A	SS 300m	Black-chested Buzzard-Eagle, <i>Geranoaetus melanoleucus</i>	Accipitridae	
	Margin	Bot: White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae	

NAMIBIA		2017 August 1 (Rollers) (Set/5) (Postcard Rate)		A
1357	(\$7.30)	Lilac-breasted Roller, <i>Coracias caudatus</i>	Coraciidae	
1358	(\$7.30)	Rufous-crowned Roller, <i>Coracias naevius</i>	Coraciidae	
1359	(\$7.30)	Racket-tailed Roller, <i>Coracias spatulatus</i>	Coraciidae	
1360	(\$7.30)	Broad-billed Roller, <i>Eurystomus glaucurus</i>	Coraciidae	
1361	(\$7.30)	European Roller, <i>Coracias garrulus</i>	Coraciidae	
NETHERLANDS		2017 July 17 (Life in the North Sea) (Vert Strip/5 & Bklt/2)		A
1551a	(78c)	Northern Gannet, <i>Morus bassanus</i>	Sulidae	
1551		Vert Strip/5 (Sc#1551a–e) (perf 13¼×12¾)		
1551f	(78c)	Northern Gannet, <i>Morus bassanus</i>	Sulidae	
1551k		Bklt/2 (Sc#1551f) (perf 14½)		
		2017 July 17 (Voorlinden Museum Art) (MS/10+10 labels)		C
1552h	(78c)	Eurasian Wren, <i>Troglodytes troglodytes</i> (head) (body on label)	Troglodytidae	
NEW ZEALAND		2017 November 24 (Royalpex 2017 National Stamp Exhibition) (SS/3)		A
2740b		SS/3 (Sc#2738–40)		Vol. 67(1)
NIGER		2014 June 25 (Stamps-on-Stamps) (MS/4)		C
1429d	750fr	Black-billed Parrot, <i>Amazona agilis</i> (Jamaica Sc#1057)	Psittacidae	
NORWAY		2018 January 2 (Birds) (Horiz Strip/3)		A
1840	(14k)	Great Gray Owl, <i>Strix nebulosa</i> (inscr. "Innland")	Strigidae	
1841	21k	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
1842	48k	Rough-legged Buzzard, <i>Buteo lagopus</i>	Accipitridae	
1842a		Horiz Strip/3 (Sc#1840–42) (coil) (s/a)		
		2018 February 18 (Bouvet Island Wildlife) (Pair)		A
1844	38k	Chinstrap Penguin, <i>Pygoscelis antarcticus</i>	Spheniscidae	
1844a		Pair (Sc#1843–44)		
OMAN		2016 December 20 (Wildlife) (4ea MS/2 & 2ea SS/1)		A
592a	200b	Pharaoh Eagle-Owl, <i>Bubo ascalaphus</i> (feet visible)	Strigidae	
592b	200b	Same species (feet not visible)	Strigidae	
593a	200b	Egyptian Vulture, <i>Neophron percnopterus</i>	Accipitridae	
593b	200b	Chukar, <i>Alectoris chukar</i>	Phasianidae	
596	SS 400b	Chestnut-bellied Sandgrouse, <i>Pterocles exustus</i>	Pteroclididae	
PALAU		2017 May 15 (Animals of the World) (MS/4)		A
1361c	\$2	Alexandrine Parrot, <i>Psittacula eupatria</i>	Psittaculidae	
		2018 January 24 (Birds of the World) (MS/6 & SS/3)		A
1370a	50c	Red Bird-of Paradise, <i>Paradisaea rubra</i>	Paradisaeidae	
1370b	50c	Northern Cardinal, <i>Cardinalis cardinalis</i>	Cardinalidae	
1370c	\$1.50	European Robin, <i>Erithacus rubecula</i>	Muscicapidae	
1370d	\$1.50	Bali Myna, <i>Leucopsar rothschildi</i>	Sturnidae	
1370e	\$2	Sulphur-crested Cockatoo, <i>Cacatua galerita</i>	Cacatuidae	
1370f	\$2.50	Blue Throat, <i>Luscinia svecica</i>	Muscicapidae	
	Margin	Ctr: Japanese White-eye, <i>Zosterops japonicus</i>	Zosteropidae	
1371a	SS \$1.25	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae	
1371b	SS \$2.25	Lilac-breasted Roller, <i>Coracias caudatus</i>	Coraciidae	
1371c	SS \$3.25	Nicobar Pigeon, <i>Caloenas nicobarica</i>	Columbidae	
	Margin	L: Sedge Warbler, <i>Acrocephalus schoenobaenus</i>	Acrocephalidae	
PALESTINIAN AUTHORITY		2013 November 29 (Declaration of State of Palestine) (MS/5)		B
238e	200f	Palestine Sunbird, <i>Cinnyris osea</i>	Nectariniidae	

PAPUA NEW GUINEA **2017 August 24** (Rare Birds) (Set/4, MS4, & SS/1) **A**

Note: Some of these identifications may be incorrect, and may change after review by some bird experts, as Papua New Guinea is known to make incorrect identifications. Some birds are not as easily identified due to artist renditions. A SS exists with this set, but Scott Publishing has not yet listed it.

1875	75t	Northern Goshawk, <i>Accipiter gentilis</i>	Accipitridae	
		(Cap: Slaty-mantled Goshawk, <i>Accipiter luteoschistaceus</i>) (yet to appear on a stamp)		
1876	1.50k	Gray Goshawk, <i>Accipiter novaehollandiae</i>	Accipitridae	
		(Cap: New Britain Goshawk, <i>Accipiter princes</i>) (yet to appear on a stamp)		
1877	3.40k	Red-legged Brush-Turkey, <i>Talegalla jobiensis</i>	Megapodiidae	Vol. 66(4)
		(Cap: Brown Collared Brush Turkey) (renamed on a prior yearly update)		
1878	6.80k	Oriental Honey-Buzzard, <i>Pernis ptilorhynchus</i>	Accipitridae	
		(Cap: Black Honey-Buzzard, <i>Henicopernis infuscatus</i>)		
1879a	75t	Little Eagle, <i>Hieraaetus morphnoides</i>	Accipitridae	Vol. 66(4)
1879b	1.50k	Yellow-legged Eagle, <i>Talegalla fuscirostris</i>	Megapodiidae	
		(Cap: Black-billed Brush-Turkey) (renamed on a prior yearly update)		
1879c	3.40k	Pheasant Pigeon, <i>Otidiphaps nobilis</i>	Columbidae	
		(Cap: Magnificent Ground-Pigeon)		
1879d	6.80k	Collared Sparrowhawk, <i>Accipiter cirrocephalus</i>	Accipitridae	Vol. 66(4)
	Margin	L: U/I Hawk		
N/A	SS 13k	Raggiana Bird-of-Paradise, <i>Paradisaea raggiana</i>	Paradisaeidae	

2017 December 4 (Chairmanship of APECA) (Set/6) **C**

1906	1.50k	Raggiana Bird-of-Paradise, <i>Paradisaea raggiana</i>	Paradisaeidae	
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PARAGUAY **2017 September 29** (National Secretary of Youth) (Pair) **B**

3069b	3000g	Glittering-bellied Emerald, <i>Chlorostilbon lucidus</i> (w/ cactus)	Trochilidae	
3069		Horiz Pair (Sc#3069a–b + central label)		

2017 October 9 (America: Laguna Salada) (SS/1+3 labels) **A**

3072	SS 4000g	Chilean Flamingo, <i>Phoenicopterus chilensis</i>	Phoenicopteridae	
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PERU **2017 January 9** (Endangered Fauna) (Set/2) **A**

Originally intended as set of four stamps, but the others were pulled due to reversed incorrect names on them.

1931	5s	Andean Condor, <i>Vultur gryphus</i>	Cathartidae	
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2018 January 15 (Year of Tourism & Development) (SS/2) **A**

1944a	8s	Green-and-white Hummingbird, <i>Amazilia viridicauda</i>	Trochilidae	Vol. 67(1)
1944b	8s	Masked Fruiteater, <i>Pipreola pulchra</i>	Cotingidae	Vol. 67(1)

2018 January 19 (Endangered Fauna) (Set/2) **A**

Reissue of the two stamps pulled from the 2017 January 9 set due to the mix-up in species names.

1948	9d	Oilbird, <i>Steatornis caripensis</i>	Steatornithidae	
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POLAND **2017 November 30** (Owl Faces) (MS/4+4 labels) **A**

4318a	5z	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
4318b	5z	Little Owl, <i>Athene noctua</i>	Strigidae	

POLAND (continued)

4318c	5z	Northern Hawk-Owl, <i>Surnia ulula</i>	Strigidae	
4318d	5z	Long-eared Owl, <i>Asio otus</i>	Strigidae	

PORTUGAL **2018 February 26** (Tagus River) (Set/4) **B**

3994	80c	Pied Avocet, <i>Recurvirostra avosetta</i>	Recurvirostridae	
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ROMANIA		2017 April 21 (Recently Extinct Animals) (Set/4)	A
5934	2.70l	Passenger Pigeon, <i>Ectopistes migratorius</i>	Columbidae
5934a		MS/5+1 label (Sc#5934)	
		2017 May 11 (Endangered Species) (Set/4 & SS/4)	A
5943	2.20l	Imperial Eagle, <i>Aquila heliaca</i>	Accipitridae
5943a		MS/5+1 label (Sc#5943)	
5944	2.50l	Merlin, <i>Falco columbarius</i>	Falconidae
5944a		MS/5+1 label (Sc#5944)	
5946b		SS/4 (Sc#5943–46)	
		2017 July 26 (Tourism) (Set/6 & SS/6)	B
5974	2.50l	Little Egret, <i>Egretta garzetta</i>	Ardeidae
5974a		MS/5+1 label (Sc#5974)	
5978	4.50l	Middle Spotted Woodpecker, <i>Dendrocopos medius</i>	Picidae
5978a		MS/5+1 label (Sc#5978)	
5979b		SS/6 (Sc#5974–79) (imperf)	
RUSSIA		2018 January 18 (Woodpeckers) (MS/4)	A
7894a	35r	Eurasian Woodpecker, <i>Picus viridis</i>	Picidae
7894b	35r	Great Spotted Woodpecker, <i>Dendrocopos major</i>	Picidae
7894c	35r	Black Woodpecker, <i>Dryocopus martius</i>	Picidae
7894d	35r	Lesser Spotted Woodpecker, <i>Dendrocopos minor</i>	Picidae
		2018 February 28 (Great Arctic State Nature Reserve) (Single)	A
7902	30r	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae
ST. PIERRE & MIQUELON		2018 January 17 (Bird) (Single)	A
1056	80c	Palm Warbler, <i>Setophaga palmarum</i>	Parulidae
		2018 February 14 (Bird) (Single)	A
1057	90c	Yellow-bellied Sapsucker, <i>Sphyrapicus varius</i>	Picidae
SERBIA		2017 November 9 (Juvenile Animals at Belgrade Zoo) (Block/4)	A
798a	23d	Greater Rhea, <i>Rhea americana</i>	Rheidae
SINGAPORE		2014 July 18 (Palau Ubin) (Set/4)	C
1686	65c	White-bellied Sea-Eagle, <i>Haliaeetus leucogaster</i>	Accipitridae
		2014 October 31 (Tourism in Singapore) (Set/5)	B
1705	\$1.30	Little Egret, <i>Egretta garzetta</i>	Ardeidae
		2017 April 26 (Kingfishers) (Set/4)	A
1831	(30c)	Black-capped Kingfisher, <i>Halcyon pileata</i> (inscr. "1st Local")	Alcedinidae
1832	70c	Blue-eared Kingfisher, <i>Alcedo meninting</i>	Alcedinidae
1833	90c	Black-capped Dwarf-Kingfisher, <i>Ceyx erithacus</i>	Alcedinidae
1834	\$1.30	White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae
		2017 August 4 (Morning in Singapore) (Set/6)	C
1846	70c	Chinese Egret, <i>Egretta eulophotes</i>	Ardeidae
SPAIN		2017 November 2 (Abbreviations of Provinces)	B
4170	(50c)	Gray Heron, <i>Ardea cinerea</i> (Soria)	Ardeidae
		2018 February 1 (Abbreviations of Provinces)	C
4240	(55c)	Mallard, <i>Anas platyrhynchos</i> (Girona)	Anatidae
SRI LANKA		2016 January 26 (Wildlife of Kumana Natl Park) (Set/7 & SS/7)	A
2000	15r	Black-necked Stork, <i>Ephippiorhynchus asiaticus</i>	Ciconiidae
2002	25r	Painted Stork, <i>Mycteria leucocephala</i> (w/ elephant)	Ciconiidae

SRI LANKA (continued)

2004a SS/7 (Sc#1998–2004)

2017 December 16 (Birds) (Set/4 & SS/4)**A**

2125	4r	Black-capped Bulbul, <i>Pycnonotus melanicterus</i>	Pycnonotidae	Vol. 67(1)
2126	10r	Chestnut-backed Owlet, <i>Glaucidium castanonotum</i>	Strigidae	Vol. 67(1)
2127	15r	Sri Lanka Bush-Warbler, <i>Elaphrornis palliseri</i>	Locustellidae	Vol. 67(1)
2128	35r	Sri Lanka Drongo, <i>Dicrurus lophorinus</i>	Dicruridae	Vol. 67(1)
2128a		SS/4 (Sc#2125–28) (granite paper)		

SURINAM**2017 September 13** (Tourism) (MS/2+label)**A**

1511a	\$11	Gray-winged Trumpeter, <i>Psophia crepitans</i>	Psophiidae	
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2017 December 19 (Flora & Fauna) (12ea SS/1)**A**

1516	SS \$5	Amazonian Antshrike, <i>Thamnophilus amazonicus</i>	Thamnophilidae	Vol. 67(1)
1518	SS \$5	Narrow-billed Woodcreeper, <i>Lepidocolaptes angustirostris</i>	Furnariidae	Vol. 67(1)
1520	SS \$5	Guianan Toucanet, <i>Selenidera piperivora</i> (Cap: <i>S. culik</i>)	Ramphastidae	
1521	SS \$5	Amazon Kingfisher, <i>Chloroceryle amazona</i>	Alcedinidae	
1523	SS \$5	Least Bittern, <i>Ixobrychus exilis</i>	Ardeidae	

2017 January 3 (Owls) (Block/12)**A**

1528a	(50c)	African Long-eared Owl, <i>Asio abyssinicus</i>	Strigidae	
1528b	\$5.50	Akun Eagle-Owl, <i>Bubo leucostictus</i>	Strigidae	
1528c	\$6	Albertine Owlet, <i>Glaucidium albertinum</i>	Strigidae	Vol. 67(2)
1528d	\$7	African Barred Owlet, <i>Glaucidium capense</i>	Strigidae	
1528e	\$9	Amazonian Pygmy-Owl, <i>Glaucidium hardyi</i>	Strigidae	Vol. 67(2)
1528f	\$10	Andaman Boobook, <i>Ninox affinis</i>	Strigidae	Vol. 67(2)
1528g	\$11	Andaman Scops-Owl, <i>Otus balli</i>	Strigidae	Vol. 67(2)
1528h	\$12	African Scops-Owl, <i>Otus senegalensis</i>	Strigidae	
1528i	\$14	Sri Lanka Bay-Owl, <i>Phodilus assimilis</i>	Tytonidae	Vol. 67(2)
1528j	\$18	Oriental Bay-Owl, <i>Phodilus badius</i>	Tytonidae	
1528k	\$20	Congo Bay-Owl, <i>Phodilus prigoginei</i>	Tytonidae	Vol. 67(2)
1528l	\$22	African Wood-Owl, <i>Strix woodfordii</i>	Strigidae	

SWITZERLAND**2018 March 1** (Forest Animals) (Block/4)**A**

1667	85	Great Spotted Woodpecker, <i>Dendrocopos major</i>	Picidae	
1670a		Block/4 (Sc#1667–70) (on translucent paper)		

TAJIKISTAN**2017 April 30** (WWF: Wild Cats) (Set/4 & SS/8)**B**

475	5.10s	Common Grasshopper-Warbler, <i>Locustella naevia</i>	Locustellidae	Vol. 66(3)
476a		SS/8 (2ea Sc#473–76)		

TANZANIA**2017 December 17** (African Wildlife) (MS/6)**A**

2815d	3500sh	Lesser Flamingo, <i>Phoeniconaias minor</i>	Phoenicopteridae	
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TRINIDAD & TOBAGO**2014 June 20** (40th anniv. Relations w/ China P.R.) (Set/4 & SS/2)**A**

902	\$3.25	Red-crowned Crane, <i>Grus japonensis</i>	Gruidae	
902A	\$4	Scarlet Ibis, <i>Eudocimus ruber</i>	Threskiornithidae	
902b		SS/2 (Sc#902–902A)		

2017 (Surcharge)**A**

919	\$3	Bay-headed Tanager, <i>Tangara gyrola</i> (Sc#516a surch)	Thraupidae	
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UNITED NATIONS (New York)**2018 March 2** (Endangered Species) (Block/4)**A**

1188	\$1.15	Red-breasted Turaco, <i>Tauraco erythrolophus</i>	Musophagidae	
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UNITED STATES**2018 January 21** (American Landmarks)**C**

5258	\$24.70	American Herring Gull, <i>Larus smithsonianus</i>	Laridae	
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NEW BIRDS IN THE PHILATELIC AVIARY

Charles E. Braun, BU1364

Corrections

Hornbill genera have changed as follows:

KNOBBED HORNBILL, *Rhyticeros cassadix*

PLAIN-POUCHED HORNBILL, *Rhyticeros subruficollis*

BLYTH'S HORNBILL, *Rhyticeros plicatus*

WRINKLED HORNBILL, *Rhabdotorrhinus corrugatus*

WRITHE-BILLED HORNBILL *Rhabdotorrhinus waldeni*

In Vol. 67(1), the correct family for the Sri Lanka Bush-Warbler is Locustellidae.

New Birds

Note: Both the Yellow-footed Pigeon and Scale-throated Hermit have been on issues from West Timor in 2000, and issues from Benin in 2002. Neither of these issues were used for postage.



RED-BILLED BRUSH-TURKEY, *Talegalla cuvieri* Megapodiidae
Papua New Guinea, 2018 May 31, not yet cataloged, 1.60k

Length: 18 to 22 inches, sexes alike, resident. Black with an orangish-red bill, pale orange legs, and pale bare face.

Habitat: Forested lowlands and hills.

Range: Northwestern New Guinea and nearby islands.

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

DUSKY SCRUBFOWL, *Megapodius freycinet* Megapodiidae
Papua New Guinea, 2018 May 31, not yet cataloged, 10k

Length: 14 inches, sexes alike, resident. Dark gray with a short crest and a reddish face.

Habitat: Mangroves, swampy woodlands, and wet evergreen forest.

Range: Northern Moluccas and islands off western New Guinea.

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



MEYER'S GOSHAWK, *Accipiter meyerianus* Accipitridae
Papua New Guinea, 2018 May 31, not yet cataloged, 2.50k

Length: 19 to 22 inches, sexes similar, resident. Black above and black or barred white below with four gray tail bars.

Habitat: Hill and montane rain forest and adjacent areas.

Range: Moluccas to the western Solomon Islands.

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



GURNEY'S EAGLE, *Aquila gurneyi* Accipitridae
Papua New Guinea, 2018 May 31, not yet cataloged, 3.45 k

Length: 27 to 32 inches, sexes alike, resident. Black with yellow feet.

Habitat: Primary rain forest, swamp forest, and adjacent areas.

Range: Moluccas to New Guinea,

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

Note: This issue includes a SS/2 labeled Chestnut-shouldered (misspelled) Goshawk, but the illustrated birds are Red Goshawks (already on an Australian stamp).

WHITE-HEADED PIGEON, *Columba leucomela* Columbidae

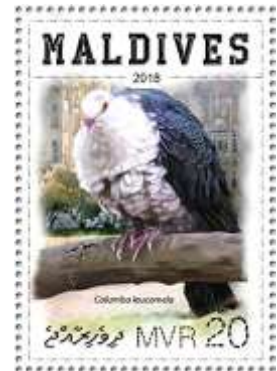
Maldive Islands, 2018 May 17, not yet cataloged, 20r

Length: 15-17 inches, resident. The male (shown) is slate-black above and white below with a white head. The female is mottled light gray below.

Habitat: Forest, forest edges, and cleared agricultural country.

Range: Coastal eastern Australia.

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



YELLOW-FOOTED PIGEON, *Treron phoenicoptera* Columbidae

Maldive Islands, 2017 March 16 not yet cataloged, 20r

Length: 13 inches, sexes similar, resident. Yellowish green above and bluish gray head and below with a mustard-yellow neck and breast.

Habitat: Forest, scrub, parks, and gardens.

Range: Eastern Pakistan and extreme south-central China to Sri Lanka and southern Vietnam.

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

SCALE-THROATED HERMIT, *Phaethornis eurynome* Trochilidae

Mozambique, 2016 July 10, not yet cataloged, 350m SS (R margin).

Previously on an Eynhallow local

Length: 6 inches, sexes similar, resident. Olive above and grayish below with a scaly throat and a white tail.

Habitat: Rainforest understory.

Range Eastern Paraguay to southeastern Brazil.

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



WHITE-BELLIED EMERALD, *Amazilia candida* Trochilidae

Nevis, 2018 June 5, not yet cataloged, \$10 SS

Length: 4 inches, sexes similar, resident. Bronze-green above and white below with black wings.

Habitat: Forest, clearings, and plantations.

Range: Southern Mexico to Nicaragua.

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



PILEATED WOODPECKER, *Dryocopus pileatus* Picidae
St. Thomas & Prince Islands, 2018 May 19, not yet cataloged, 124d SS

Length: 16 to 19 inches, resident. The male (shown) is black with a white face, neck, and throat and red crest and malar. The female has a black malar.

Habitat: Forest, suburbs, and parks'

Range: British Columbia to Nova Scotia and central California, also eastern half of the U.S.

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



GRAY FALCON, *Falco hypoleucos* Falconidae
Djibouti, 2018 March 15, not yet cataloged, 950fr SS

Length: 13 to 17 inches, sexes alike, migratory. Gray above and finely barred whitish below with black in the wings and around the eyes.

Habitat: Woodland, scrub, savanna, and plains.

Range: Breeds in central and northwestern Australia. Winters in coastal northern, eastern, and southern Australia.

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



LITTLE CORELLA, *Cacatua sanguinea* Cacatuidae
Surinam, 2018 July 18, not yet cataloged, \$22

Length: 14 to 16 inches, sexes similar, resident. White with a salmon-pink face, blue-gray eye-patch, and yellow in the underwings and tail.

Habitat: Grassy woodland, scrub, and grassland.

Range: Coastal southern New Guinea and Australia.

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



BLUE-EYED COCKATOO, *Cacatua ophthalmica* Cacatuidae
Surinam, 2018 July 18, not yet cataloged, \$20

Length: 20 inches, resident. The male (shown) is white with a yellow crest and bare blue skin around the eyes. The female is similar but reddish.

Habitat: Lowland tropical rain forest.

Range: New Britain and New Ireland.

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



CHATHAM ISLANDS PARAKEET, *Cyanoramphus forbesi*
Psittaculidae

New Zealand, 2018 August 1, not yet cataloged, \$3

Length: 10 inches, sexes alike, resident. Green, yellowish below with a red frontal band and yellow crown.

Habitat: Dense forest and scrub.

Range: Chatham Islands, New Zealand.

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



BRONZE-WINGED PARROT, *Pionus chalcopterus* Psittacidae
Sierra Leone, 2018 February 27, not yet cataloged, 40000le SS (R margin)

Length: 11 to 12 inches, sexes similar, resident. Blue with bronze wings, yellow bill, and red undertail.

Habitat: Foothills and highland forest and adjacent areas.

Range: Western Venezuela to northwestern Peru.

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

WESTERN KINGBIRD, *Tyrannus verticalis* Tyrannidae
St Thomas & Prince Islands, 2018 May 19, not yet cataloged, 31d

Length: 8 to 10 inches, sexes alike, migratory. Ashy gray-olive above and bright yellow below with a gray head and breast and a semi-concealed orange coronal patch.

Habitat: Open areas ↑

Range: Breeds from south-central and southwestern Canada to Texas and northern Mexico. Winters from southern Mexico to Costa Rica.

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



SIBERIAN BLUE ROBIN, *Larvivera cyane* Muscipapidae

Japan, 2018 August 23, not yet cataloged, 82¥

The bird on the Taiwan stamp [Vol. 61(4)] was misidentified.

Length: 5 inches, migratory. The male (shown) is slaty-blue above and white below. The female is brown above and white below with pale brown flanks.

Habitat: Breeds in deep taiga. Winters in forests.

Range: Breeds from southern Siberia to Japan. Winters from southeastern China to the Greater Sundas.

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

of the World, Volume 10.

MARSH WARBLER, *Acrocephalus palustris* Sylviidae

Burundi, 2016 March 2, not yet cataloged, 3150fr

Length: 5 inches, sexes alike, migratory. Olive-brown above and olive-buff below with a creamy supercilium.

Habitat: Bushy areas and farms.

Range: Breeds from England to northern Kazakhstan. Winters in southeastern Africa.

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



BRISTLEHEAD, *Pityriasis gymnocephala* Pityriaseidae (new family)

Malaysia, 2018 June 5, not yet cataloged, 80s

Length: 9 to 10 inches, sexes alike, resident. Black with an orange and yellow head, black ear patches, a hooked bill, and bright red thighs.

Habitat: Forest.

Range: Borneo.

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



STELLER'S JAY, *Cyanocitta stelleri* Corvidae
Canada, 2018 August 20, not yet cataloged, 85c

Length: 12 to 14 inches, sexes similar, resident. Blue, with a bluish-black crested head.

Habitat: Forest and woodlands.

Range: Southern Alaska to northern Nicaragua.

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



FLORIDA SCRUB-JAY, *Aphelocoma coerulescens* Corvidae
St. Thomas & Prince Islands, 2018 May 19, 124d SS (UR margin)

Length: 10 inches, sexes similar, resident. Pale gray-brown above and gray below with a blue face, wings, and tail and a finely streaked white throat.

Habitat: Oak scrub.

Range: Peninsular Florida'

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

of the World, Volume 14.



VOGELKOP SUPERB BIRD-OF-PARADISE, *Lophorina niedda* Paradisaeidae
Indonesia, 1984 October 15, Sc#1245, 325r

Length: 10 inches, resident. The male (shown) is velvety jet black above and metallic greenish-blue below with a black head and throat. The female is blackish brown above and finely barred ochraceous below with a finely spotted white stripe behind the eyes.

Habitat: Upper montane forest.

Range: Vogelkop peninsula, northwestern New Guinea.

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



WHITEHEAD, *Mohoua albicilla* Mohouidae
New Zealand, 2018 August 1, not yet cataloged, \$3

Length: 6 inches, sexes similar, resident. Brown above and off-white head and below with light gray-brown flanks.

Habitat: Forest, dense scrub, and pine plantations.

Range: North Island, New Zealand.

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



TOMTIT, *Petroica macrocephala* Petroicidae
New Zealand, 2018 August 1, not yet cataloged, \$3

Length: 5 inches, resident. The male (shown) is black above and pale yellow below with a black head and neck, a white forehead spot, and a white wing patch. The female is dark olive-brown above and pale yellow below with a white throat.

Habitat: Forest, scrub, pine plantations, grasslands, and farms.

Range: New Zealand.

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



PERSIAN NUTHATCH, *Sitta tephronota* Sittidae
Kazakhstan, 2018 May 22, not yet cataloged, 75s

Length: 6 inches, sexes alike, resident. Medium gray above and creamy white below with a pinkish-buff belly and long black eye-stripe.

Habitat: Rocky mountains, slopes, and valleys, usually near streams.

Range: Eastern Turkey to Uzbekistan and western Pakistan.

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

Birds of the World, Volume 13.



MOUNTAIN WAGTAIL, *Motacilla clara* Motacillidae
Malawi, 2018 June 4, not yet cataloged, 700k

Length: 6 to 8 inches, sexes alike, resident. Gray above and white below with a black necklace and white superciliary and outer tail.

Habitat: Near rushing water.

Range: Sierra Leone and Ethiopia to eastern South Africa.

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



BEAUTIFUL FIRETAIL, *Stagonopleura bella* Estrildidae
Australia, 2018 June 5, not yet cataloged, \$1

Length: 4 inches, sexes similar, resident. Brownish-buff above and finely black-barred whitish below with black around the eyes and a red tail.

Habitat: Scrub and woodland.

Range: Southeastern Australia and Tasmania.

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



BLACK-THROATED FINCH, *Poephila cincta* Estrildidae
Australia, 2018, not yet cataloged, \$1

Length: 4 inches, sexes similar, resident. Buffy brown above and cinnamon-brown below with a gray crown, white face, and black throat and band across the belly.

Habitat: Open woodland and shrub understory.

Range: Northeastern Australia.

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



PINE WARBLER, *Setophaga pinus* Parulidae
Sierra Leone, 2018 April 27, not yet cataloged, 9800le

Length: 6 inches, sexes similar but the female is duller, migratory. Olive-green above and dark-streaked yellowish below with two white wing-bars.

Habitat: Pine forest.

Range: Breeds from southeastern Canada to eastern Texas, Florida, the Bahamas, and Hispaniola. Winters in the southern part of its range.

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



HERPETOLOGY

Associate Editor

Dick Roman, LM83

African Safari 2018



My trip to Tanzania and Kenya interfered with composing the Herpetology column. On the other hand, my albums include both stamps and photographs of the species depicted. I was able to add the four species on the cover, much improved pictures over those taken just six years ago.

- ① Mwanza Flat-headed Rock Agama, *Agama mwanzae* ♂ in breeding colors
- ② Mwanza Flat-headed Rock Agama, *Agama mwanzae* ♂ in non-breeding colors
- ③ African Rock Python, *Python sebae*
- ④ Flapneck Chameleon, *Chamaeleo dilepis*
- ⑤ Nile Crocodile, *Crocodylus niloticus*

First is the Mwanza Flat-headed Rock Agama (*Agama mwanzae*) male in breeding plumage. He and a few of his contemporaries displayed on an outcropping over 600 million years old. A couple of females took notice, and he went about his business. The more common *Agama agama* is featured on many stamps, but he is on Ghana Sc#2747b and Mozambique Sc#2972b. I wish I had those stamps! The second image shows an agama in normal colors.

We first noticed the African Rock Python (*Python sebae*) in a mating spiral with two females. After all that action was finished, he took off across the road. This male was easily eight feet long. My previous images of this species are all zoo or captive specimens.

The Flapneck Chameleon (*Chamaeleo dilepis*) was by the side of the road in Tanzania. As we drove by at full speed, the driver slammed on the brakes to avoid smashing it. While we were not allowed out of the van, I still got down on the ground to capture him walking the road and climbing the bank. Normally, an arboreal species, they are prized in the pet trade.

The Nile Crocodile (*Crocodylus niloticus*) is featured on too many stamps to mention. This one was waiting for wildebeest to cross the Mara River. The crocodiles grab and then submerge the antelopes, stashing them for later consumption.



MARINE INVERTEBRATES

Editor

Ian Hunter, BU1619

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
CARIBBEAN NETHERLANDS 2017 July 31 (Coral Reef Life) (inscr. "Bonaire") (MS/10)				
85a	99c	U/I Sponges & Corals (w/ fish)		U A
85b	99c	Staghorn Coral, <i>Acropora cervicornis</i>	Acroporidae	A
85c	99c	U/I Sponges (w/ fish)		U B
		Long-spined Sea Urchin, <i>Diadema antillarum</i>	Diadematidae	B
		Blade Fire Coral, <i>Millepora complanata</i>	Milleporidae	B
85d	99c	U/I Gorgonian		U A
85e	99c	U/I Sponge (w/ marine turtle)		U A
85f	99c	U/I Gorgonian		U A
85g	99c	Blade Fire Coral, <i>Millepora complanata</i>	Milleporidae	A
85h	99c	U/I Gorgonian		U A
85i	99c	U/I Gorgonian		U A
85j	99c	U/I Gorgonian		U A
2017 July 31 (Coral Reef Life) (inscr. "Saba") (MS/10)				
86a	99c	U/I Sponge		U A
86b	99c	U/I Sea Anemone		U A
86d	99c	U/I Sea Fan (w/ fish)		U A
86e	99c	U/I Gorgonian (w/ fish)		U A
86f	99c	U/I Sea Fan		U A
86g	99c	U/I Sea Fan & Sponge		U A
86h	99c	Banded Coral Shrimp, <i>Stenopus hispidus</i>	Stenopodidae	A
86i	99c	U/I Brain Coral		U A
86j	99c	U/I Sponge (w/ fish)		U A
2017 July 31 (Coral Reef Life) (inscr. "Sint Eustatius") (MS/10)				
87a	99c	U/I Gorgonian		U A
87b	99c	Christmas Tree Fan Worms, <i>Spirobranchus giganteus</i>	Serpulidae	A
87c	99c	U/I Sea Anemone (w/ fish)		U A
87g	99c	U/I Sea Fan		U A
87h	99c	U/I Sea Anemone		U A
2018 April 3 (Shells) (inscr. "Bonaire") (MS/4)				
94a	99c	Chambered Nautilus, <i>Nautilus pompilius</i>	Nautilidae	A
94b	99c	Queen Conch, <i>Strombus gigas</i>	Strombidae	A
94c	99c	Commercial Top Shell, <i>Trochus niloticus</i>	Trochidae	A
94d	99c	Pink-mouthed Murex, <i>Hexaplex erythrostomus</i>	Muricidae	A
2018 April 3 (Shells) (inscr. "Saba") (MS/4)				
95a	99c	Giant Triton, <i>Monoplex parthenopeus</i>	Ranellidae	A
95b	99c	Tiger Cowrie, <i>Cypraea tigris</i>	Cypraeidae	A
95c	99c	Commercial Top Shell, <i>Trochus niloticus</i>	Trochidae	A
95d	99c	Caribbean Crown Conch, <i>Melongena melongena</i>	Melongenidae	A

CARIBBEAN NETHERLANDS		2018 April 3 (Shells) (inscr. "Sint Eustatius") (MS/4)		
96a	99c	Giant Tun, <i>Tonna galea</i>	Tonnidae	A
96b	99c	Hebrew Volute, <i>Voluta ebraea</i>	Volutidae	A
96c	99c	Horned Helmet, <i>Cassis cornuta</i>	Cassidae	A
96d	99c	Papal Mitre, <i>Mitra papalis</i>	Mitridae	A
DJIBOUTI		2018 February 19 (Marine Life) (MS/4)		
1365b	240fr	Common Octopus, <i>Octopus vulgaris</i>	Octopodidae	A
1365d	240fr	Cadenat's Hermit Crab, <i>Paguristes cadenati</i>	Diogenidae	A
FALKLAND ISLANDS		2018 April 18 (Wildlife) (Set/4)		
1218	76p	U/I Euphausiid Krill	Euphausiidae	U A
KAZAKHSTAN		2018 January 1 (Year of the Dog) (SS/1)		
846	SS 300te	Bot: U/I Snail		U Z
NETHERLANDS		2017 July 17 (Life in the North Sea) (Vert Strip/5 & Bklt/2)		
1551c	(78c)	Brown Crab, <i>Cancer pagurus</i>	Cancriidae	A
1551e	(78c)	U/I Mussels		U A
1551		Vert Strip/5 (Sc#1551a-e) (perf 13¼×12¾)		
1551h	(78c)	Brown Crab, <i>Cancer pagurus</i>	Cancriidae	A
1551j	(78c)	U/I Mussels		U A
1551m		Bklt/2 (Sc#1551h) (perf 14½)		
1551o		Bklt/2 (Sc#1551j) (perf 14½)		
		2017 July 17 (Art in Voorlinden Museum) (MS/10+10 labels)		
1552d	(78c)	Black Mussels ("Casseroles des Moules Noire" by Marcel Broodthaers)		A
PAPUA NEW GUINEA		2017 August 17 (Valuable Shells) (Set/4, MS/4, & SS/1)		
1867	75t	True Tulip, <i>Fasciolaria tulipa</i> (used for necklace)	Fasciolaria	A
1868	1.50k	Queen Conch, <i>Strombus gigas</i> (used for communication)	Strombidae	A
1869	3.40k	a Cowrie, <i>Cypraea brasiliensis</i> (used as traditional attire)	Cypraeidae	A
1870	6.80k	Granulated Dog Whelk, <i>Nassarius graniferus</i> (used as traditional currency called "tabu")	Nassariidae	A
1871a	75t	Queen Conch, <i>Strombus gigas</i> (used for communication)	Strombidae	A
1871b	1.50k	a Cowrie, <i>Cypraea brasiliensis</i> (traditional attire)	Cypraeidae	A
1871c	3.40k	Granulated Dog Whelk, <i>Nassarius graniferus</i> (currency)	Nassariidae	A
1871d	6.80k	U/I Sea Shells (necklace)		U A
1872	SS 13k	Emerald Green Snail, <i>Papustyla pulcherrima</i>	Camaenidae	A
SINGAPORE		2017 September 7 (Coral Joint Issue Indonesia) (Set/2 & SS/2)		
1857	\$1.30	U/I Corals (w/ fish)		U B
1858	\$1.30	U/I Corals (w/ fish)		U B
1858a		SS/2 (Sc#1857-58)		
TONGA		2017 December 4 (Christmas) (Block/4)		
1333a	2.25pa	Stylized Gastropod Shell		S
TONGA (Niuafu'ou)		2017 December 4 (Christmas) (Block/4)		
369d	2.25pa	Stylized Starfish		S
TRISTAN DA CUNHA		2018 March 12 (70th anniv. Tristan Venture) (Set/4 & SS/4)		
1131	70p	Tristan Rock Lobster, <i>Janus tristani</i> (Sc#1 s-o-s)	Palinuridae	A
1133a		SS/4 (Sc#1130-33)		

TUVALU**2017 February 15** (Octopi) (MS/4 & SS/2)

1385a	\$2.50	Caribbean Reef Octopus, <i>Octopus briareus</i>	Octopodidae	A
1385b	\$2.50	Dumbo Octopus, <i>Grimpoteuthis</i> sp.	Opisthoteuthidae	A
1385c	\$2.50	Longarm Octopus, <i>Macrotritopus defilippi</i>	Octopodidae	A
1385d	\$2.50	White-spotted Octopus, <i>Octopus macropus</i> ,	Octopodidae	A
1386a	SS \$4	Common Octopus, <i>Octopus vulgaris</i>	Octopodidae	A
1386b	SS \$4	Blanket Octopus, <i>Tremoctopus violaceus</i>	Tremoctopodidae	A

2018 March 21 (Starfish) (MS/4 & SS/2)

1408a	\$2.50	Knobby Star <i>Pentaceraster cumingi</i>	Oreasteridae	A
1408b	\$2.50	Crown-of-Thorns Starfish, <i>Acanthaster planci</i>	Acanthasteridae	A
1408c	\$2.50	Chocolate Chip Sea Star, <i>Protoreaster nodosus</i>	Oreasteridae	A
1408d	\$2.50	Red Knob Sea Star, <i>Protoreaster linckii</i>	Oreasteridae	A
1409a	SS \$4	Red Sea Star, <i>Echinaster sepositus</i>	Echinasteridae	A
1409b	SS \$4	Blue Sea Star, <i>Linckia laevigata</i>	Ophidiasteridae	A

UKRAINE**2017 May 22** (Black Sea Marine Life) (SS/2)

1094b	(18h)	White Angel Wing, <i>Barnea candida</i>	Pholadidae	A
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2017 June 1 (Folk Tale: "Nikita the Tanner") (MS/4)

1095d	5.40h	Stylized Snail (w/ Nikita aboard)		S B
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URUGUAY**2017 December 14** (La Paloma Beach) (Single)

2614	65p	Brazilian Volute, <i>Pachycymbiola brasiliiana</i> (egg)	Volutidae	A
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ICHTHYOLOGY

Associate Editor

J. Dale Shively, BU1832

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AUSTRALIA				
2017 October 17 (Fair Dinkum Aussie Alphabet) (Set/5 & Strip/5)				
4697	\$1	Stylized Barramundi, <i>Lates calcarifer</i> (in pot) (perf 14¾×14)	Latidae	S B
4702	\$1	Same design (serpentine cut 11¼) (s/a)	Latidae	S B
4702a		Bklt/10 (Sc#4702)		
4706b		Vert Strip/5 (Sc#4702-06)		
2017 October 24 (Aboriginal Art) (Set/4)				
4708	\$1	Stylized fish ("Waterlili and Gaya" by Banduk Marika) (perf 14¾×14)		S B
4710	\$2	Stylized fish ("Guyamala" by Banduk Marika)		S
4712	\$1	Same design as Sc#4708 (die cut 11¼)		S B
4712a		Bklt/20 (10ea Sc#4711-12)		
AUSTRIA				
2017 November 17 (Items on Advent Calendar)				
2704	80c	Tiny Stylized fish		S C
AZERBAIJAN				
2017 December 6 (Cuisine of Azerbaijan) (MS/9)				
1174f	20g	Baliq levengisi (fish stuffed w/walnuts)		U C
CARIBBEAN NETHERLANDS				
2017 July 31 (Coral Reef Life) (inscr. "Bonaire") (MS/10)				
85a	99c	U/I Filefish sp. (?)	Monacanthidae	U C
		UL: Spotted Eagle Ray, <i>Aetobatus narinari</i>	Myliobatidae	C Z
85b	99c	Trumpetfish, <i>Aulostomus maculatus</i>	Aulostomidae	B Z
		UR: Striped Grunt, <i>Haemulon striatum</i>	Haemulidae	B Z
		UR: Damsel sp. (?)	Pomacentridae	U Z
85c	99c	Bicolor Chromis (?), <i>Chromis margaritifer</i>	Pomacentridae	C
		U/I fish (bkgrd)		U C
85d	99c	Spotted Trunkfish (?), <i>Lactophrys bicaudalis</i> ♀	Ostraciidae	U B
85e	99c	Striped Grunt, <i>Haemulon striatum</i>	Haemulidae	B Z
85f	99c	Ocean Surgeonfish, <i>Acanthurus bahianus</i>	Acanthuridae	B
		LR: Striped Grunt, <i>Haemulon striatum</i>	Haemulidae	B Z
85g	99c	LR: Striped Grunt, <i>Haemulon striatum</i>	Haemulidae	B Z
		Queen Angelfish, <i>Holacanthus ciliaris</i>	Pomacanthidae	C Z
85h	99c	Nassau Grouper (?), <i>Epinephelus striatus</i>	Serranidae	U B
85i	99c	U/I Goby sp.	Gobiidae	U B
		UL: Sergeant-major, <i>Abudefduf saxatilis</i>	Pomacentridae	B Z
85j	99c	Foureye Butterflyfish, <i>Chaetodon capistratus</i>	Chaetodontidae	A
2017 July 31 (Coral Reef Life) (inscr. "Saba") (MS/10)				
86a	99c	Sergeant-major, <i>Abudefduf saxatilis</i>	Pomacentridae	B
86b	99c	UR: U/I fish		U B
86c	99c	LL: Striped Grunt, <i>Haemulon striatum</i>	Haemulidae	B
86d	99c	Blackbar Soldierfish, <i>Myripristis jacobus</i>	Holocentridae	B
86e	99c	Striped Grunt, <i>Haemulon striatum</i>	Haemulidae	B
86f	99c	LR: U/I Wrasse sp.	Labridae	U B
86i	99c	UR: U/I fish		U B
86j	99c	LR: Striped Grunt, <i>Haemulon striatum</i>	Haemulidae	B

CARIBBEAN NETHERLANDS		2017 July 31 (Coral Reef Life) (inscr. "Sint Eustatius") (MS/10)		
87a	99c	(Blue) Angelfish, <i>Holacanthus bermudensis</i> (juvenile)	Pomacanthidae	B
87b	99c	U/I Damsel fish	Pomacentridae	U B
		Blue Chromis, <i>Chromis cyanea</i>	Pomacentridae	B Z
87c	99c	Blue Chromis, <i>Chromis cyanea</i>	Pomacentridae	A
87d	99c	Blue Chromis, <i>Chromis cyanea</i>	Pomacentridae	B Z
		French Angelfish, <i>Pomacanthus paru</i>	Pomacentridae	C
87e	99c	U/I Grunt sp.	Haemulidae	U B
87f	99c	French Angelfish, <i>Pomacanthus paru</i>	Pomacentridae	B
		U/I Grunt sp.	Haemulidae	U B
87g	99c	Schoolmaster Snapper, <i>Lutjanus apodus</i>	Lutjanidae	C
87i	99c	Schoolmaster Snapper, <i>Lutjanus apodus</i>	Lutjanidae	A
87j	99c	Schoolmaster Snapper, <i>Lutjanus apodus</i>	Lutjanidae	C
		2017 July 31 (Endangered Animals) (inscr. "Saba") (SS/1)		
89	SS \$11.49	Nassau Grouper, <i>Epinephelus striatus</i> (also in L margin)	Serranidae	A
	Margin	Bkgrd: Small U/I fish		U Z
DJIBOUTI		2018 February 19 (Marine Life) (MS/4 & SS/1)		
1365c	240fr	Clown Anemonefish, <i>Amphiprion ocellaris</i>	Pomacentridae	A
1384	SS 950fr	Mandarin fish, <i>Synchiropus splendidus</i>	Callionymidae	A
FAROE ISLANDS		2018 April 23 (Mackerel) (Single)		
704	18k	Atlantic Mackerel, <i>Scomber scombrus</i>	Scombridae	A
FINLAND (Åland Islands)		2018 March 13 (Salmon) (Single)		
405	€1.50	Atlantic Salmon, <i>Salmo salar</i>	Salmonidae	A
ICELAND		2018 April 26 (250th Birth anniv. Eggert Ólafsson) (Single)		
1466	220k	Cod, <i>Gadus morhua</i>	Gadidae	B
MALAGASY REPUBLIC		2016 November 21 (Regional Arms & Emblems) (MS/10)		
1652d	500a	Stylized fish (Atsemo-Andrefana Arms)		S C
1652e	500a	Stylized fish (Boeny Arms)		S C
1652i	500a	Stylized fish (Alaotro-Mangoro Arms)		S C
1652	500a	MS/10 (Sc#1652a-j)		
NETHERLANDS		2017 July 17 (Life in the North Sea) (Vert Strip/5 & Bklt/2)		
1551b	(78c)	Tub Gurnard, <i>Chelidonichthys lucerna</i>	Triglidae	A
1551		Vert Strip/5 (Sc#1551a-e) (perf 13¼×12¾)		
1551g	(78c)	Tub Gurnard, <i>Chelidonichthys lucerna</i>	Triglidae	A
1551l		Bklt/2 (Sc#1551g) (perf 14½)		
NIGER		2014 April 25 (Works of Famous Artists) (SS/1)		
1422	SS 2500fr	Stylized fish ("Without Hope," by Frida Kahlo)		S C
		2014 June 25 (Fish) (MS/4 & SS/1)		
1446a	750fr	Indian Glassy Fish, <i>Parambassis ranga</i>	Ambassidae	A
1446b	750fr	Banggai Cardinal Fish, <i>Pterapogon kauderni</i>	Apogonidae	A
1446c	750fr	Flame Angel, <i>Centropyge loricula</i>	Pomacanthidae	A
1446d	750fr	Freshwater Angelfish, <i>Pterophyllum scalare</i>	Cichlidae	A
1446	Margin	LR: Maroon (Three-stripe) Clownfish, <i>Amphiprion tricolor</i>	Pomacentridae	Z
		UL: U/I Angelfish	Pomacentridae	U Z
1467	SS 2500fr	Bluering Angelfish, <i>Pomacanthus annularis</i>	Pomacanthidae	A
	Margin	UL: Bluegill, <i>Lepomis macrochirus</i>	Centrarchidae	Z
		Bot: Red Discus, <i>Symphysodon discus</i>	Cichlidae	Z
		LR: Cardinal Tetra, <i>Paracheirodon axelrodi</i>	Characidae	Z

NIGER (continued)		2014 June 25 (Water Birds) (MS/4 & SS/1)		
1449a	750fr	U/I small fish (in beak of Puffin)		U C
1470	SS 2500fr	Bot: Largemouth Bass, <i>Micropterus salmoides</i>	Centrarchidae	Z
		Bot: U/I Salmon sp.	Salmonidae	U Z
		Bot: Lake Whitefish, <i>Coregonus clupeaformis</i>	Salmonidae	Z
		2014 June 25 (Turtles) (SS/1)		
1472	SS 2500fr	LR: U/I fish		U Z
PALESTINIAN AUTHORITY		2016 July 3 (Fish) (MS/10)		
289a	500f	Flathead Grey Mullet, <i>Mugil cephalus</i>	Mugilidae	A
289b	500f	Red (Surmullet) Mullet, <i>Mullus surmuletus</i>	Mugilidae	A
289c	500f	(Gag?) Grouper, <i>Mycteroperca microlepis</i>	Serranidae	A
289d	500f	Malabar Grouper, <i>Epinephelus malabaricus</i>	Serranidae	A
289e	500f	European Seabass (?), <i>Dicentrarchus labrax</i>	Moronidae	A
289f	500f	Meagre, <i>Argyrosomus regius</i>	Sciaenidae	A
289g	500f	Sardine (European Pilchard), <i>Sardina pilchardus</i>	Clupeidae	A
289h	500f	Atlantic Mackerel, <i>Scomber scombrus</i>	Scombridae	A
289i	500f	Blue Runner, <i>Caranx crysos</i>	Carangidae	A
289j	500f	Albacore Tuna, <i>Thunnus alalunga</i>	Scombridae	A
PAPUA NEW GUINEA		2017 December 4 (Asia-Pacific Economic Coop.) (Set/6, MS/4, & SS/1)		
1906	1.50k	U/I & Stylized fish		U S C
1909	6.80k	Stylized fish (Partnership)		S C
1910	6.80k	Stylized fish (APEC)		S C
1911b	1.50k	Stylized fish (w/ building & flags)		S C
1911		MS/4 (Sc#1911a–d)		
1913	SS 20k	Stylized fish (Emblem of Papua New Guinea)		S C
ROMANIA		2017 May 11 (Endangered Species) (Set/4 & SS/4)		
5946	16l	Beluga (European Sturgeon), <i>Huso huso</i>	Acipenseridae	A
5946a		MS/5+1 label (Sc#5946)		
5946b		SS/4 (Sc#5943–46)		
SAN MARINO		2018 June 5 (Postal Services) (Set/3)		
2018	€1.60	Stylized frog delivering letter to fish		S B
SERBIA		2018 March 30 (Fish) (Horiz Strip/4)		
812a	23d	Sterlet Sturgeon, <i>Acipenser ruthenus</i>	Acipenseridae	A
812b	46d	Beluga (European Sturgeon), <i>Huso huso</i>	Acipenseridae	A
812c	50d	Northern Pike, <i>Esox lucius</i>	Esocidae	A
812d	70d	Mississippi Paddlefish, <i>Polyodon spathula</i>	Polyodontidae	A
812		Horiz Strip/4 (Sc#812a–d) (in sheets of 16, 4ea Strips/4+4 labels)		
SINGAPORE		2017 April 26 (Kingfisher Birds) (Set/4)		
1831	(30c)	U/I fish (in beak of Black-capped Kingfisher)		U B
1832	70c	U/I fish (in beak of Blue-eared Kingfisher)		U B
		2017 August 4 (Morning in Singapore) (Set/6 & SS/1)		
1848	\$1.30	Stylized fish (w/ people shopping in Wet Market)		S C
1849	SS \$2	LR: Stylized fish (in Wet Market)		S Z
		2017 September 7 (Corals: Singapore-Indonesia Joint Issue) (SS/2)		
1857	\$1.30	Multiple U/I fish species, Clownfish (?) (w/ coral reef)		U C
1858	\$1.30	Multiple U/I fish species, Butterflyfish (w/ coral reef)	Chaetodontidae	U C
1858a		SS/2 (Sc#1857–58)		

TURKEY**2017 December 12** (Lakes) (Set/2)3579 1.80L Tarek (Pearl Mullet), *Alburnus tarichi* (endemic to Lake Van) Cyprinidae B**TUVALU****2017 October 26** (Saltwater Rays) (MS/5 & SS/1)1391a \$2 Devil Ray, *Mobula mobular* Myliobatidae A1391b \$2 Reef Manta Ray (Alfred Manta), *Mobula alfredi* Myliobatidae A1391c \$2 Cownose Ray, *Rhinoptera bonasus* Myliobatidae A1391d \$2 Spotted Eagle Ray, *Aetobatus narinari* Myliobatidae A1391e \$2 Blue-spotted Stingray, *Neotrygon kuhlii* Dasyatidae A1392 SS \$5.50 Giant Oceanic Manta Ray (Giant Manta), *Mobula birostris* Myliobatidae AMargin Top: Giant Manta, *Mobula birostris* Myliobatidae Z

Bot: Multiple U/I fish U Z

2017 December 4 (Underwater Caves) (MS/4)1397c \$2.50 *Pempheris* sp. (South China Sea, Malaysia) Pempheridae U B**2018 March 21** (Starfish) (SS/2)

1409b SS \$3 Small U/I fish (w/ Red Sea Star) U C

1409 Margin UL: School of U/I reef fish U Z

2018 March 21 (Rays) (MS/6)1410a 50c Bluespotted Ribbontail Ray, *Taeniura lymma* Dasyatidae A1410b \$1 Cownose Ray, *Rhinoptera bonasus* Myliobatidae A1410c \$1.50 Giant Oceanic Manta Ray (Giant Manta), *Mobula birostris* Myliobatidae A1410d \$2 Southern Stingray, *Dasyatis americana* Dasyatidae A(Syn: *Hypanus americanus* in Fishbase)1410e \$2.50 Leopard Whipray, *Himantura leoparda* Dasyatidae A1410f \$3 Bluespotted Ribbontail Ray, *Taeniura lymma* Dasyatidae A

1410 Margin UL: Small U/I reef fish U Z

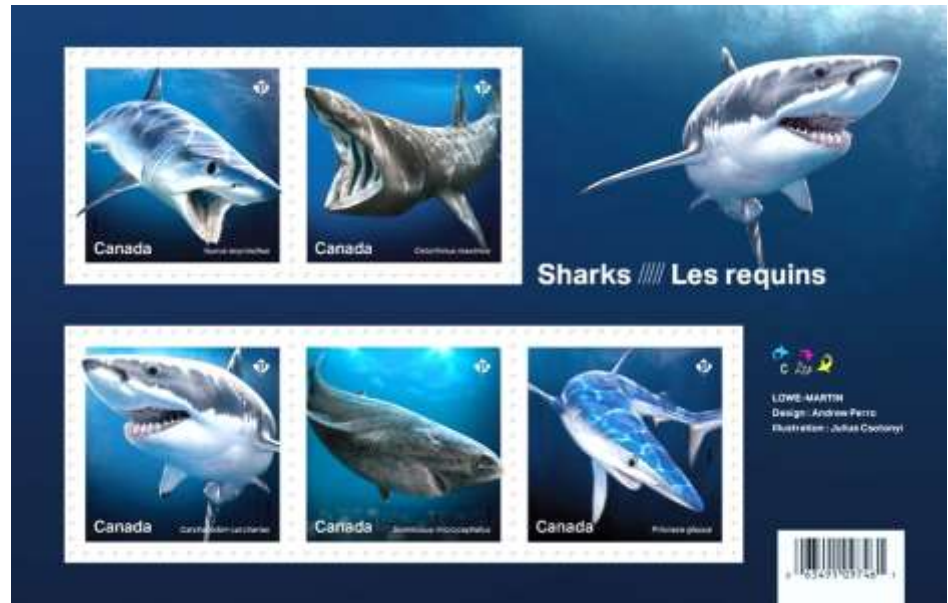
UKRAINE**2017 May 22** (Black Sea Marine Life) (SS/2)1094 Margin Ctr: U/I Seahorse, *Hippocampus* sp. Syngnathidae U Z**2017 December 22** (My Country Ukraine) (Set/4)

1141 4h Stylized fish (in market) S C

SHARKS

On 12 July 2018, Canada Post unveiled the designs of five stamps depicting sharks found in Canadian waters. The unveiling took place at the Vancouver Aquarium in Vancouver, British Columbia. The stamps went on official sale the following day. Each stamp is denominated at the Permanent domestic rate (85c).

The stamps were issued in a booklet of ten containing two of each design and a souvenir sheet of five. A quantity of 1,500 uncut press sheets of 25 were also produced.



The stamps were designed by Andrew Perro and illustrated by Julius Csotonyi. They were printed by Lowe-Martin using lithography in four colors.

According to the Canada Post *Details* magazine, the Canadian coastal waters serve as a permanent or temporary home to almost 30 shark varieties. Sharks are among the oldest surviving species on Earth. Their earliest ancestors swam the oceans during the Silurian period about 420 million years ago.

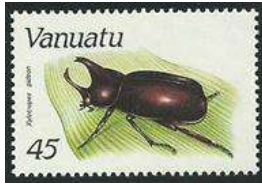
The first stamp shows a Shortfin Mako Shark (*Isurus oxyrinchus*). It is a visitor to the Atlantic coast and is the fastest swimming shark on the planet, reaching burst speeds in excess of 40 miles per hour (65 kph). It grows to an average length of ten feet (3.2 m). Some specimens have been weighed at 1,300 pounds (600 kg). It is one of the few endothermic shark species. It is currently classified as Vulnerable by the International Union for Conservation or Nature (IUCN).

The second stamp depicts a Basking Shark (*Cetorhinus maximus*). Native to Canadian waters, it is the second largest living shark after the Whale Shark. It is a slow-moving filter feeder subsisting on plankton. It has an average length of 26 feet (8 m) and weight of 11,400 pounds (5,170 kg). It is classified as Vulnerable by IUCN.

The third stamp shows a Great White Shark (*Carcharodon carcharias*). Often depicted as a villain, this shark inhabits the Atlantic coast. It can reach a length of 20 feet (6.1 m) and weigh up to 4,200 pounds (1,905 kg). Although humans are not its preferred prey, it is responsible for the largest quantity of reported and identified fatal unprovoked attacks on humans.

A Greenland Shark (*Somniosus microcephalus*) appears on the fourth stamp. Found on the Atlantic side of the Arctic, it has the longest known lifespan of any vertebrate on Earth (estimated between 300–500 years). It can reach a length of 21 feet (6.4 m) and a weight of 2,200 pounds (1,000 kg). Its flesh is toxic due to high concentrations of trimethylamine oxide.

The final stamp shows a Blue Shark (*Prionace glauca*). Found along the Atlantic coast, it migrates long distances as far as South America. It is viviparous and noted for large litters of from 25 to 100 pups. Females can grow to a length of 11 feet (3.3 m) and weigh up to 450 pounds (204 kg). It is classified as Near Threatened by IUCN.



ENTOMOLOGY

Editor

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



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
CARIBBEAN NETHERLANDS 2018 July 20 (Flowers & Butterflies) (inscr. "Saba") (MS/8+2 labels)				
a	150c	Mangrove Buckeye, <i>Junonia evarete</i> Cramer	NYM, Nymphalinae	A
c	150c	Zebra, <i>Heliconius charithonia</i> L.	NYM, Heliconiinae	A
f	150c	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A
h	150c	U/I blue butterfly (also Top margin)	Lepidoptera	U A
CZECH REPUBLIC 2018 June 20 (100th anniv. of Czechoslovak Stamps) (MS/2+3 labels)				
	label	Peacock, <i>Nymphalis io</i> L. (Czechoslovakia Sc#1086) (s-o-s)	NYM, Nymphalinae	Z
HAWAII 1882 (Postal Card)				
Not exactly a new issue, but new to some. The depiction is very small and of suspect identity. The new ATA handbook, <i>What's First?</i> , lists the first appearance of a butterfly on a stamp as the Queen Liliuokalani 2c issue of 1891 (Sc#52). If you accept the depiction on this postal card, it would usurp that stamp as the first butterfly.				
UX1	1c	Kamehameha Butterfly, <i>Vanessa tameamea</i> Eschscholtz, (hairpin)	NYM, Nymphalinae	S C
HONG KONG 2018 January 27 (Year of the Dog) (SS/1)				
	Margin	R: Very stylized butterflies	Lepidoptera	SZ
IRELAND 2018 July 12 (Irish Bees) (MS/4)				
a	£1	Garden Bumblebee, <i>Bombus hortorum</i> L.	API, Apinae	A
b	£1	Tawny Mining Bee, <i>Andrena fulva</i> Mueller	AND, Andreninae	A
c	£1	Ashy Mining Bee, <i>Andrena cineraria</i> L.	AND, Andreninae	A
d	£1	Heather Bee, <i>Colletes succinctus</i> L.	Colletidae, Colletinae	A
	Margin	UL: Tawny Mining Bee, <i>Andrena fulva</i> Mueller	AND, Andreninae	Z
		LL: Garden Bumblebee, <i>Bombus hortorum</i> L.	API, Apinae	Z
		Bot: Garden Bumblebee, <i>Bombus hortorum</i> L.	API, Apinae	Z
		LR: Red-Tailed Bumblebee, <i>Bombus lapidarius</i> L.	API, Apinae	Z
KYRGYSTAN 2018 July 28 (Beetles) (MS/4)				
a	22s	Sacred Scarab, <i>Scarabaeus sacer</i> L.	SCA, Scarabaeinae	A
b	31s	European Stag Beetle, <i>Lucanus cervus</i> L.	LUC, Lucaninae	A
c	83s	European Rhinoceros Beetle, <i>Oryctes nasicornis</i> L.	SCA, Dynastinae	A
d	117s	Rose Chafer, <i>Cetonia aurata</i> L.	SCA, Cetoniinae	A
MEXICO 2018 June 14 (Butterflies: Joint Issue w/ Colombia) (Pair)				
a	15p	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A
b	15p	Blue Morpho, <i>Morpho menelaus</i> L. ♀	NYM, Morphinae	A
MALAWI 2018 (Surcharges)				
846	600k	Forest Queen, <i>Euxanthe wakefieldi</i> Ward (Sc#706 surch)	NYM, Charaxinae	A
847	900k	<i>Papilio pelodurus</i> Butler (Sc#737 surch)	PAP, Papilioninae	A
848	1150k	Fiery Acraea, <i>Acraea acrita</i> Hewitson (Sc#653 surch)	NYM, Heliconiinae	A
849	1200k	Boisduval's False Acraea, <i>Pseudacraea boisduvali</i> Doubleday (Sc#707 surch)	NYM, Limenitidinae	A
850	2000k	Twilight Brown, <i>Melanitis leda</i> L. (Sc#654 surch)	NYM, Satyrinae	A

NEVIS		2018 June 27 (Moths) (MS/6)			
a	\$3	Pease Blossom Moth, <i>Periphanes delphinii</i> L.	NOC, Heliothinae	A	
b	\$3.50	Orange Moth, <i>Angerona prunaria</i> L.	GEO, Ennominae	A	
c	\$4	Peppered Moth, <i>Biston betularia</i> L.	GEO, Ennominae	A	
d	\$4.50	Large Emerald Moth, <i>Geometra papilionaria</i> L.	GEO, Geometrinae	A	
e	\$5	Brimstone Moth, <i>Opisthocraptis luteolata</i> L.	GEO, Ennominae	A	
f	\$5.50	Treble-Bar Moth, <i>Aplocera plagiata</i> L. (Cap: <i>Anaitis</i> p.)	GEO, Larentiinae	A	
	Margin	Magpie Moth, <i>Abraxas grossulariatus</i> L.	GEO, Ennominae	Z	
NEW ZEALAND		2018 August 1 (Predator Free by 2050) (Set/5 & MS/5)			
	\$2.40	Red Admiral, <i>Vanessa atalanta</i> L. (not <i>V. gonerilla</i> , the endemic New Zealand Red Admiral, although both are found there)	NYM, Nymphalinae	B	
	\$3.60	Giant Weta, <i>Deinacrida heteracantha</i> White	Anostostomatidae, Deinacridinae	B	
OMAN		2016 December 20 (Fauna of Oman) (MS/2)			
594a	200b	Joker, <i>Byblia ilithyia</i> ssp. <i>ilithyia</i> Drury	NYM, Biblidinae	A	
594b	200b	Mimic, <i>Hypolimnas misippus</i> L.	NYM, Nymphalinae	A	
RUSSIA		2018 May 17 (Beekeeping) (MS/4+1 label)			
a	40r	no bees (harvesting honey from tree)		R	
b	40r	no bees (harvesting honey with smoker)		R	
c	40r	no bees (traditional hives)		R	
d	40r	Western Honeybee, <i>Apis mellifera</i> L. (w/ honeycomb)	API, Apinae	C	
	label	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	Z	
SURINAM		2016 December 19 (Flora & Fauna: Bird) (SS/1)			
1516	Margin	L: U/I moth	ZYG, Zygaeninae	U Z	
		Bot: U/I partial butterfly	NYM, Satyrinae	U Z	
		R: U/I butterfly	Lepidoptera	U Z	
TAJIKISTAN		2017 August 2 (Flowers) (Set/3)			
481	3.50s	Monarch, <i>Danaus plexippus</i> L. (w/ rose)	NYM, Danainae	B	
		7-Spotted Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	B	
483	5.80s	Blue Morpho, <i>Morpho menelaus</i> L. (w/ orchid)	NYM, Morphinae	B	
TRINIDAD & TOBAGO		2017 (Surcharges) (Set/3)			
Note: These are the corrected names for Sc#639-41 issue of 2002.					
920	\$1	Four Continent, <i>Adelpha iphiclus</i> L. (Sc#640 surch)	NYM, Limenitidinae	A	
921	\$1	89 Butterfly, <i>Diaethria neglecta</i> Salvin (Sc#641 surch)	NYM, Biblidinae	A	
922	\$2	Tiger Butterfly, <i>Tithorea harmonia</i> Cramer (Sc#639 surch)	NYM, Danainae	A	
UKRAINE		2016 December 30 (Bats) (Block/4)			
1085c	(16.25h)	Bat chasing U/I moth	Noctuidae?	U C	
		2017 August 18 (Medicinal Plants) (Set/4)			
1116	5.80h	<i>Bombus</i> sp. (w/ blue flower)	API, Apinae	C	
		2018 July 3 (Insects of Ukraine) (MS/7)			
a	7.50h	European Mantis, <i>Mantis religiosa</i> L.	MAN, Mantinae	A	
b	7.50h	<i>Lyristes plebejus</i> Scopoli	CICA, Cicadinae	A	
c	7.50h	Yellow-Winged Darter, <i>Sympetrum flaveolum</i> L.	LIB, Sympetrinae	A	
d	7.50h	Beautiful Demoiselle, <i>Calopteryx virgo</i> L.	CAL, Calopteryginae	A	
e	7.50h	Wart-Biter Bush Cricket, <i>Decticus verrucivorus</i> L.	TET, Tettigoniinae	A	
f	7.50h	Lesser Purple Emperor, <i>Apatura ilia</i> Denis & Schiffermüller	NYM, Apaturinae	A	
g	7.50h	Small Garden Bumblebee, <i>Bombus hortorum</i> L.	API, Apinae	A	
	Margin	UL: U/I dragonfly		U Z	

UNITED STATES**1997 May 1** (Jurassic Life) (Correction by Jose Reis)

A 32c stamp from the Jurassic Life sheet (Sc#3136h) has been listed as *Mesuropetala* sp., Petaluridae. Now from correspondence with Dr. Gunter Bechly, a world authority on prehistoric dragonflies, it appears that these were extinct by Jurassic times. Dr. Bechly writes:

“I fear this is an unidentifiable fantasy insect. It is not a Jurassic Odonate, as none of these had long antennae. Also, the anal appendages look non-realistic. The wing shape would agree with an “Anisozygopteran” like *Isophlebia*, but this is mere superficial resemblance.”

Beyond the Catalog

(Issues of dubious validity)

CENTRAL AFRICA**2018 May 22** (160th anniv. Giacomo Puccini) (SS/1) (CA18208b)

Mi7736 SS 3300fr Four stylized butterflies (w/ Puccini portrait) PAP, Papilioninae S C
 Margin R: Generalized image of winged Madame Butterfly G Z

2018 July 17 (Organization of African Unity) (SS/1) (CA18401b)

Margin LL: U/I butterfly Lepidoptera U Z
 LL: Cruiser, *Vindula erota* Fabr. ♂ NYM, Heliconiinae Z
 UR: Clipper, *Parthenos sylvia* Cramer NYM, Limenitidinae Z

2018 July 17 (Bees) (MS/4 & SS/1) (CA18407a&b)

a 900fr Eastern Carpenter Bee, *Xylocopa virginica* L. API, Xylocopinae A
 b 900fr Western honeybee, *Apis mellifera* L. API, Apinae A
 c 900fr Tawny Mining Bee, *Andrena fulva* Mueller AND, Andreninae A
 d 900fr *Bombus barbutellus* Kirby API, Apinae A
 SS 3600fr Buff-tailed Bumblebee, *Bombus terrestris* L. (also R margin) API, Apinae A

2018 July 17 (Butterflies) (MS/4 & SS/1) (CA18411a&b)

a 900fr Gaudy Baron, *Euthalia lubentina* Cramer NYM, Limenitidinae A
 b 900fr Raja Brooke's Birdwing, *Troides brookiana* Wallace PAP, Papilioninae A
 (Cap: *Trogonoptera brookiana*)
 c 900fr Green-Celled Cattleheart, *Parides childrenae* Gray PAP, Papilioninae A
 d 900fr Harmonia Mantle, *Caria rhacotis* Godman & Salvin RIO, Riodininae A
 SS 3600fr Five-Bar Swordtail, *Graphium antiphates* Cramer PAP, Papilioninae A
 Margin R: Guatemalan Kite Swallowtail, *Protographium epidaus* Dbldy. PAP, Papilioninae A

DJIBOUTI**2018 June 12** (Butterflies) (MS/4 & SS/1) (DJB18312a&b)

1443a 240fr Old World Swallowtail, *Papilio machaon* L. (w/ larva) PAP, Papilioninae A
 1443b 240fr Marbled White, *Melanargia galathea* L. NYM, Satyrinae A
 1443c 240fr Apollo, *Parnassius apollo* L. PAP, Parnassiinae A
 1443d 240fr Common Morpho, *Morpho helenor* Cramer ♀ NYM, Morphinae A
 1463 SS 950m Common Five-Ring, *Ypthima baldus* Fabr. NYM, Satyrinae A
 Margin LR: Blue Morpho, *Morpho rhetenor* Cramer ♂ NYM, Morphinae Z
 Ctr: Pipevine Swallowtail, *Battus philenor* L. PAP, Papilioninae Z

GUINEA-BISSAU**2018 June 18** (Orchids) (MS/4) (GB18502a)

b 640fr Small Skipper, *Thymelicus sylvestris* Poda (also Ctr margin) HES, Hesperinae B

MALDIVE ISLANDS**2018 March 15** (Snakes) (SS/1) (MLD18312b)

Margin R: Themis Forester, *Euphaedra themis* Hübner NYM, Limenitidinae Z
 Ctr: Eight tiny stylized butterflies Papilioninae S Z

2018 June 10 (Bees & Hornets) (MS/4 & SS/1) (MLD18602a&b)

a 20r Southern Carpenter Bee, *Xylocopa micans* Lepeletier API, Xylocopinae A
 b 20r Western Honeybee, *Apis mellifera* L. API, Apinae A
 c 20r European Hornet, *Vespa crabro* L. VES, Vespinae A
 d 20r *Xylocopa caffra* L. ♂ API, Xylocopinae A

MALDIVE ISLANDS (continued)

	SS 60r	German Wasp, <i>Vespula germanica</i> L.	VES, Vespinae	A
	Margin	UR: Southern Carpenter Bee, <i>Xylocopa micans</i> Lepeletier	API, Xylocopinae	Z
		LR: Eastern Carpenter Bee, <i>Xylocopa virginica</i> L.	API, Xylocopinae	Z
2018 August 1 (Butterflies) (MS/4 & SS/1) (MLD18710a&b)				
a	20r	Old World Swallowtail, <i>Papilio machaon</i> L. ♀ (w/ larva)	PAP, Papilioninae	A
b	20r	Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	A
c	20r	White Peacock, <i>Anartia jatrophae</i> Johansson	NYM, Nymphalinae	A
d	20r	Adonis Blue, <i>Polyommatus bellargus</i> Rottemburg (w/ larva)	LYC, Polyommatinae	A
	SS 70r	Blue Wing, <i>Myscelia ethusa</i> Doyere	NYM, Biblidinae	A
	Margin	ML&LR: Diana Fritillary, <i>Speyeria diana</i> Cramer ♀	NYM, Heliconiinae	Z
		LL&MR: Diana Fritillary, <i>Speyeria diana</i> Cramer ♂	NYM, Heliconiinae	Z
2018 August 1 (Bee-eater Birds) (MS/4 & SS/1) (MLD18714a&b)				
a-d	22r	U/I tiny insects in beaks of bee-eater birds	Insect	U C
	SS 70r	U/I insect in bird's beak	Insect	U C
	Margin	LL: <i>Apis mellifera</i> L. (in bird's beak)	API, Apinae	B Z
		UR: <i>Anax imperator</i> Leach (in bird's beak)	AES, Aeshninae	B Z
MOLDOVA-TRANSNIESTRIA 2018 July 28 (Locals: Bees) (Set/2)				
	B rate	Western Honeybee, <i>Apis mellifera</i> ssp. <i>mellifera</i> L.	API, Apinae	A
	K rate	Western Honeybee, <i>Apis mellifera</i> L. (Carpathian race)	API, Apinae	A
MOZAMBIQUE 2018 June 15 (Butterflies) (MS/4 & SS/1) (MOZ18302a&b)				
a	116m	Janetta Forester, <i>Euphaedra janetta</i> Butler	NYM, Limenitidinae	A
b	116m	Monarch, <i>Danaus plexippus</i> L. ♂	NYM, Danainae	A
c	116m	Madagascan Sunset Moth, <i>Chrysidia rhipheus</i> Drury	URA, Uraniinae	A
d	116m	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A
	SS 300m	Black Citrus Swallowtail, <i>Papilio polytes</i> L.	PAP, Papilioninae	A
	Margin	LL: Mourning Cloak, <i>Nymphalis antiopa</i> L.	NYM, Nymphalinae	Z
		Top: Banded Owl, <i>Caligo atreus</i> Kollar	NYM, Morphinae	Z
		UR: Malachite, <i>Siproeta stelenes</i> L.	NYM, Nymphalinae	Z
		LR: Banded Owl, <i>Caligo atreus</i> Kollar	NYM, Morphinae	Z
2018 June 15 (Scouts) (SS/1) (MOZ18304b)				
	Margin	Ctr: Sachem, <i>Atalopedes campestris</i> Boisduval	HES, Hesperinae	Z
2018 June 15 (Stamps on Stamps) (MS/4 & SS/1) (MOZ18323a&b)				
b	116m	Butterflies (Hungary Sc#1269-70) (s-o-s)	Lepidoptera	C
	SS 300m	Margin MR: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z
NIGER 2018 April 24 (Butterflies) (MS/4 & SS/1) (NIG18220a&b)				
a	800fr	Luzon Painted Jezebel, <i>Delias hyparete luzonensis</i> C&R Felder	PIE, Pierinae	A
b	800fr	Tiger Heliconian, <i>Heliconius ismenius</i> Latreille	NYM, Heliconiinae	A
c	800fr	Glanville Fritillary, <i>Melitaea cinxia</i> L.	NYM, Nymphalinae	A
d	800fr	Black-Veined White, <i>Aporia crataegi</i> L.	PIE, Pierinae	A
	SS 3300fr	Orange Tiger, <i>Danaus genutia</i> Cramer	NYM, Danainae	A
	Margin	LL: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	Z
		UR & MR: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z
2018 June 26 (Scouts) (MS/4) (NIG18305a)				
d	800fr	Desert White, <i>Pontia glauconome</i> Klug	PIE, Pierinae	B

SIERRA LEONE**2018 June 29** (Mushrooms) (MS/4) (SRL18503a)

a	9800le	Red Wood Ant, <i>Formica rufa</i> L.	FOR, Formicinae	B
c	9800le	Privet Hawkmoth, <i>Sphinx ligustri</i> L	SPH, Sphinginae	B

2018 June 29 (Butterflies) (MS/4 & SS/1) (SRL18508a&b)

a	9800le	Large White, <i>Pieris brassicae</i> L.	PIE, Pierinae	A
a	9800le	High Brown Fritillary, <i>Fabriciana adippe</i> Schiffermüller	NYM, Heliconiinae	A
a	9800le	Holly Blue, <i>Celastrina argiolus</i> L.	LYC, Polyommatae	A
a	9800le	Eurasian Comma, <i>Nymphalis c-album</i> L. (w/ larva)	NYM, Nymphalinae	A
SS	40000le	European or Essex Skipper, <i>Thymelicus lineola</i> Ochsenheimer	HES, Hesperinae	A
Margin	R:	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	A

PORTUGAL MOTH LABELS

On 4 May 2018, Correios de Portugal issued a set of imperforate ATM labels depicting moths, although in some of their advertising they call them “butterflies.” It is easy to see how someone could be confused because, unlike the large majority of moths that are small and dull-looking, the species depicted are quite colorful, like their butterfly cousins. This is the second series of Lepidoptera designs following the set issued in October 2017.



The labels have no imprinted denomination. The variable rate is printed on them when they are dispensed. The possible programmed face values for normal mail are: €0.53, 0.70, 0.75, 0.86, and 0.91. The two values for priority mail are €0.65 and €2.90. Other values are available from E-Post 2000 M postal kiosks fitted with scales.

The rolls of self-adhesive labels were printed by offset lithography and manufactured by the Portuguese company Uinou / Labelxprint. They measure 55×30 mm and include a preprinted sequential number on the back of the silicone coated backing paper.

The illustrations are by the Portuguese illustrator José Projecto. The three moths depicted appear along with their larvae, and are: the Five-spot Burnet Moth (*Zygaena trifolii*) Zygaenidae, Oak Eggar (*Lasiocampa quercus*) Lasiocampidae, and Crimson-speckled Moth (*Utetheisa pulchella*) Erebididae.

Pictorial first day commemorative postmarks are available for Lisbon and Porto.





PALEONTOLOGY

Editor

Michael Kogan, BU1863

New Listings



Scott#	Denom	Common Name/Scientific Name	Family	Code
GUINEA 2018 April 26 (Extinct Species) ^[1] (MS/4 & SS/1)				
a	12500fr	†Irish Elk, <i>Megaloceros giganteus</i>	Cervidae	A
	SS 50000fr	†Saber-toothed Cat, <i>Smilodon gracilis</i>	Felidae	A
	Margin	†Woolly Rhinoceros, <i>Coelodonta antiquitatis</i>	Rhinocerotidae	Z
GUINEA-BISSAU 2018 April 16 (St. Petersburg Zoological Museum) ^[1] (MS/5 & SS/1)				
d	640fr	†Southern Mammoth, <i>Archidiskodon (=Mammuthus) meridionalis</i>	Elephantidae	A
	SS 3300fr	Museum Building		R
2018 June 18 (Dinosaurs) ^[1] (MS/5 & SS/1)				
a	640fr	† <i>Archaeopteryx lithographica</i>	†Archaeopterygidae	A
b	640fr	† <i>Stegosaurus stenops</i>	†Stegosauridae	A
c	640fr	† <i>Saurolophus osborni</i>	†Hadrosauridae	A
d	640fr	† <i>Ankylosaurus magniventris</i>	†Ankylosauridae	A
e	640fr	† <i>Deinonychus antirrhopus</i>	†Dromaeosauridae	A
	Margin	Ctr: † <i>Velociraptor mongoliensis</i>	†Dromaeosauridae	Z
	SS 3300fr	† <i>Lotosaurus adentus</i>	†Lotosauridae	A
	Margin	R: † <i>Tyrannosaurus rex</i>	†Tyrannosauridae	Z
		LL: † <i>Gargoyleosaurus parkpinorum</i>	†Nodosauridae	Z
KOREA (North) 2018 May ?? (Dinosaurs) (SS/1)				
Issued for “Changzhou 2018 18th All-China Philatelic Exhibition” that took place in middle of May 2018.				
	SS 70w	† <i>Stegosaurus stenops</i>	†Stegosauridae	A
	Margin	Ctr: U/I brachiosaur	†Brachiosauridae	Z
MALDIVE ISLANDS 2018 May 10 (Dinosaurs) ^[1] (MS/4 & SS/1)				
a	22m	† <i>Plateosaurus engelhardti</i>	†Plateosauridae	A
a	22m	† <i>Acrocanthosaurus atokensis</i>	†Carcharodontosauridae	A
a	22m	† <i>Troodon formosus</i>	†Troodontidae	A
a	22m	† <i>Corythosaurus casuarius</i>	†Hadrosauridae	A
	Margin	UL: U/I Ammonite	Class: †Ammonoidea	Z
	SS 70m	† <i>Edmontonia rugosidens</i>	†Nodosauridae	A
	Margin	UL: † <i>Archaeopteryx lithographica</i>	†Archaeopterygidae	Z
		UR: † <i>Brontosaurus excelsus</i>	†Diplodocidae	Z
		MR & Bot: † <i>Utahceratops gettyi</i> (reconstruction & skull)	†Ceratopsidae	Z
NIGER 2018 April 24 (Dinosaurs) ^[1] (MS/4 & SS/1)				
a	800fr	† <i>Ankylosaurus magniventris</i>	†Ankylosauridae	A
b	800fr	† <i>Velociraptor mongoliensis</i>	†Dromaeosauridae	A
c	800fr	† <i>Ceratops (=Triceratops) horridus</i>	†Ceratopsidae	A
d	800fr	† <i>Stegosaurus stenops</i>	†Stegosauridae	A
	SS 3300fr	† <i>Plateosaurus engelhardti</i>	†Plateosauridae	A
	Margin	R: † <i>Allosaurus fragilis</i>	†Allosauridae	Z

ST THOMAS & PRINCE ISLANDS 2018 July 23 (Dinosaurs)^[1] (MS/4 & SS/1)

a	31d	† <i>Spinosaurus aegyptiacus</i>	†Spinosauridae	A
b	31d	† <i>Archaeoceratops oshimai</i>	†Archaeoceratopsidae	A
c	31d	† <i>Amargasaurus cazau</i>	†Dicraeosauridae	A
d	31d	† <i>Parasaurolophus walkeri</i>	†Hadrosauridae	A
	SS 124d	† <i>Centrosaurus apertus</i>	†Ceratopsidae	A
	Margin	LR: † <i>Barosaurus lentus</i>	†Diplodocidae	Z
		Bot: † <i>Dilophosaurus wetherilli</i>	†Dilophosauridae	Z

SERBIA**2018 July 10** (Science) (MS/4)

a	23d	Anton Koch (1843–1927), Hungarian geologist and paleontologist		R
b	23d	Vladimir Laskarev (1868–1924), Russian geologist and paleontologist		R

Other Stamps to Consider**ICELAND****2018 April 24** (250th anniv. Eggert Ólafsson) (Single)

Eggert Ólafsson (1726–1768) was a poet, a writer, and a naturalist from Svefneyjar Islands in the northwest of Iceland. He was one of the first advocates of the Enlightenment in Iceland.

Ólafsson studied natural sciences and various other subjects at the University of Copenhagen. He was a staunch nationalist and his writings, especially his poetry, burnt with patriotic fervor.

He is best known for his book on Iceland that he co-wrote with Bjarni Pálsson,

one of his schoolmates in Copenhagen. This great two-volume work, *Reise Igiennem Island (Travels in Iceland)* (1772), issued with support of the Danish government four years after his death, records a scientific and cultural survey he carried out between 1752 and 1757. It gave a comprehensive description of the country and its people and also reported fossilized leaves of “birch, rowan, and willow...and many most similar to oaks” from the Surtarbrandsgil locality in northwest Iceland.

One illustration from the book is depicted on the top-right corner of the stamp and shows three minerals: (a) Gypsum, (b) Zeolite, and (c) Filegranssteen (not clear on this moment what kind of stone it is), perhaps with some fossils of marine shells on it.

1466	(220k)	Minerals (fossils?)		R
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ST THOMAS & PRINCE IS.**2018 March 13** (Famous Universities & Alumni)^[1] (SS/1)

Mi7602	SS 124d	Charles Darwin portrait		R B
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SIERRA LEONE**2018 February 27** (Stamps on Stamps)^[1] (MS/4)

Mi9368	9800le	† <i>Brontosaurus</i> (Poland Sc#1309 s-o-s)	†Diplodocidae	B
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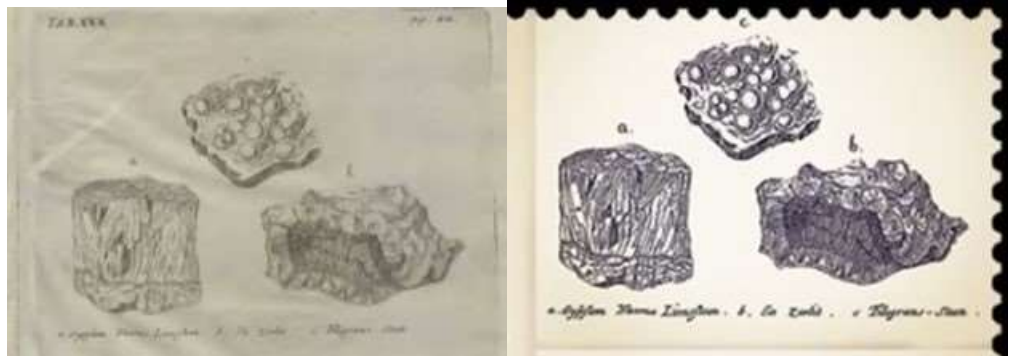
Postal Stationery & Special Covers**GERMANY****2018 May 3** (150th anniv. of Dehenhoehle Discovery)

Postal stationery with imprinted stamp “Bicentenary of Museum for Natural History in Berlin” from 2010.

45c	† <i>Brachiosaurus brancai</i> (skeleton) (Sc#2555)	†Brachiosauridae	B
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CHINA P. R.**2018 June 9** (Centenary of the Discovery of Zhoukoudian Site)

Postal stationery with imprinted stamp of Peking man.



Personalized Issue

AUSTRALIA

2018 June (Jurassic World) (MS/20)

Jurassic World Two: Fallen Kingdom. Personalized stamps of Australian post. Sheet with 20 stamps and some Dinosaurs on tabs in between.

Commemorative Postmarks

CHINA P. R.

2018 June 9 (100th anniv. of Discovery Peking Man)

Postmark and meter franking with drawing of Peking Man's head.

GERMANY

2018 June 7 (150th anniv. of Dechen Cave Discovery)

Shows silhouette skeleton of fossil cave bear.

2018 June 9 (150th anniv. of Dechen Cave Discovery)

Another postmark from Deutsche Post that shows some mountains around the cave.

2018 May 25 (International Philatelic Exhibit ÖVEBRIA 2018)

The postmark shows "*Lindwurmbrunnen von Klagenfurt*" (Dragon Fountain of Klagenfurt).

Legend has it that Klagenfurt was founded after a couple of brave men had slain the abominable "Lindwurm," a winged dragon in the moors adjoining the lake. The staple diet of this monster is said to have been virgins, but it did not spurn the fat bull on a chain that the men had mounted on a strong tower.



The feat is commemorated by a grandiose 9-ton Renaissance monument in the city center. Although it represents a dragon, it can be regarded as the first paleontological reconstruction. The head of the statue is modeled on the skull of Woolly Rhinoceros (*Coelodonta antiquitatis*). In 1335, the cranium of a woolly rhinoceros from the ice-age was found in a gravel pit near Klagenfurt. It was instantly interpreted as the skull of a dragon or Lindwurm. This fossil, which is still at exhibition at the *Landesmuseum für Kärnten*, served as a model for the head of the Lindwurm.

Future Issues

2018.08.27: **Israel:** Archeology in Israel. Two stamps dedicated to archaeozoology in Israel. The stamps depict two important archaeology finds from Israel: a female lion skull from the late Bronze Age discovered in Jaffa, and an elephant ivory tusk from the Acheulean period discovered near the city of Holon. These two finds are evidence that lions and elephants once lived in the Israel region.

2018.08.27: **Belgium:** Prehistoric Animals. MS/10 stamps with Mammoth on margin. The stamps are designed by the same artist (Constantijn Van Cauwenberge, nicknamed Conz) who designed the Dinosaur stamps of Belgium 2015.

2018.09.03: **Hungary:** MS/6 dinosaur stamps.

2018.09.06: **Ireland:** Irish Scientific Discoveries. Tentative: on this moment it is not known what will be depicted there.

2018.Q3: **Armenia:** Flora and Fauna of the Ancient World. Perhaps some more dinosaur stamps, similar to stamps set of 2017.

2018.10.10: **Czech Republic:** Two hundred years of the National Museum in Prague. The stamp depicts the building and expositions of the National Museum. The National Museum is the largest Czech museum. The museum started with donations of large private collections, dedicated mostly to natural science, by a group of local aristocrats led by Count Kaspar Maria Sternberg, who also led an effort to set up the museum.

Next Year:

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

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/turtstmp/>

ICHTHYOLOGY

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

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

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

Entomology Family Abbreviations:

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