

BIOPHILATELY

OFFICIAL JOURNAL OF THE BIOLOGY UNIT OF ATA

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What an ugly beast the ape, and how like us. —Marcus Tullius Cicero



Edward N. Munns

The World's Most Valuable Trees

More Inside >>



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BIOPHILATELY**Editor**

Jack R. Congrove
P.O. Box 33092, Fort Lewis, WA 98433, USA
jackcongrove@comcast.net

Publisher

Dick Roman
Dick.Roman@SbcGlobal.Net

Associate Editors

Christopher E. Dahle *Botany*
1401 Linmar Dr. NE, Cedar Rapids, IA 52402
chris-dahle@biophilately.org

Dr. Paul A. Mistretta *Fungi*
4148 Commodore Dr., Atlanta, GA 30341
paulmistretta70@gmail.com

Michael J. Prince *Mammalia*
7 Station Rd, Whitchurch, Hampshire RG28 7EP U.K.
Michael.Prince@bushinternet.com

Glenn G. Mertz *Ornithology*
625 N. Lafayette St., Allentown, PA 18104
ggmertz@juno.com

Charles E. Braun *New Birds*
7 Winthrop Drive, Aiken, SC 29803
charlesebraun@gmail.com

Dick Roman *Herpetology*
Dick.Roman@SbcGlobal.Net

vacant *Ichthyology*

Ian Hunter *Invertebrate Zoology*
6 Tiller Pl SE, Airdrie, AB
T4A 1S6, Canada
ighunter@shaw.ca

Donald P. Wright, Jr. *Entomology*
84 Woosamonsa Rd., Pennington, NJ 08534
don.aa2f@verizon.net

Michael Kogan *Paleontology*
Munich, Germany
admin@paleophilatelie.eu

BIOLOGY UNIT OF ATA

Alan J. Hanks **President**
34 Seaton Drive, Aurora, ON Canada L4G 2K1
alan.hanks@sympatico.ca

vacant **Vice-President**

Christopher E. Dahle **Secretary/Treasurer**
1401 Linmar Dr. NE, Cedar Rapids, IA 52402
chris-dahle@biophilately.org

Directors

Jack R. Congrove (Washington)
John Pereira (Massachusetts)
Dr. Frederick C. Skvara (New Jersey)
Donald P. Wright, Jr. (New Jersey)

Publicity Director

William Cochrane
9/30 William Street, Castlemaine, Victoria
3450 Australia
enquiries@philatelicdatabase.com

Librarian

Mark Reineke
925 Boychuk Drive, Saskatoon, SK
S7H 4L6 Canada
mikadoate@sasktel.net

Website

www.biophilately.org

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

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

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

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

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

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PLEASE NOTE: Material for the next issue should be in the hands of the Editor before 15 May 2017.

FROM THE EDITOR'S DESK

Welcome to the first edition of another volume of *Biophilately*. This is our 66th year of publication. The Biology Unit is the second oldest of all the Study Units in the American Topical Association (ATA). The oldest is the Casey Jones Railroad Unit and they only have us beat by a couple months.

The pagination on the print version of the last edition of the journal was not aligned correctly due to a printing error. The list of editors should have been printed on the inside of the cover. But since it was not, this misaligned all the other pages. We are sorry for this error.

We are looking for a new Associate Editor for the **Ichthyology** column. Kris Lindstrom has retired and will be devoting his time to travel. If you collect this or a related topic, please contact me to discuss undertaking this position. Since you probably already keep a listing of the related stamp issues, I will make it as simple as possible for you to share it with the rest of our members.

As I have mentioned previously, we would like to add another recurring column devoted to **Microbiology**. Microbiology is one of the three primary divisions of the biological sciences along with Botany and Zoology. We have been seriously deficient when it comes to including it in our articles. The fact that its organisms are visible only under a microscope, is not an excuse for this.

Another column that we would like to re-institute is "Mammals Biographical." This is an awkward title, so we will probably rename it, but it is the Mammals equivalent of the "New Birds in the Philatelic Aviary" column. It would include a short description of the animal and a summary of its ecological and geographical place in the biological world. We could do the same sort of thing with any of the new listing areas such as Plants, etc., so if you are willing to provide a periodic column on these subjects, please let me know.

This edition contains a huge section on new issues for Birds on stamps. Glenn Mertz apparently has decided that you cannot avoid the current versions of what we used to call "Sand Dunes" productions, which are issues specifically produced for sale to collectors and serve limited, if any, other purpose such as actually paying for postal service. He has included several pages of topical issues that will very likely never receive official listings in catalogs.

We have added a new table to our Glossary of Terms that contains the abbreviations for the Family entries used in our Entomology column.

The ATA is planning its annual **National Topical Stamp Show** to be held in Milwaukee, Wisconsin on 23–25 June 2017 (see details on page 4). The Biology Unit will hold its **annual meeting** in conjunction with the show. The one-hour meeting is currently planned for Saturday at 10:00 AM. Usually we do not conduct any official business at these meetings. We hold them to provide information to the members about the Unit's activities and to socialize and receive feedback from the membership.

However, this year we may need to discuss filling some important vacant positions in the Unit Board of Directors and in the editorial roster for *Biophilately*. Please try to attend the show and come to the Unit meeting.

Jack R. Congrove



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

PRESIDENT'S MESSAGE

Greetings from Ontario and apologies for cutting my last message off so abruptly. It was a matter of too little space remaining to finish off comments about the show. During the banquet and award presentations, my "World of Insects" exhibit received another silver, but to my surprise was also awarded the American Association of Philatelic Exhibitors pin for "Best presentation in a level other than Gold"—still lots of work to be done but it was gratifying to find I was on the right track.

Last time Barbara and I were "in the west" was in 1985 in Reno, on the eastern side of the mountains [see *Biophilately*, Vol. 64(3)] so we decided to further investigate the eastern side on this trip and visit some National Parks that we had heard of.

We started on the Monday morning through the seemingly endless construction around Denver until we could pick up I-70 and head west climbing all the way until we went over Vail Pass at 10,666 feet. We then passed through the skiing areas with blocks of apartments all boarded up waiting for another ski season. The Colorado River joined the highway just past Gypsum and we went through New Castle, Silt, Rifle, and Parachute (fascinating names) and on through Glenwood Canyon, which was amazing, to Grand Junction, where we stopped at the visitor centre.

We asked about the Colorado National Monument and were told it would take about 1½ hours to go around it, so we took the opportunity and were very glad that we did. Back to the highway, we crossed into Utah and went away from the Colorado and arrived in Green River, where we had planned to stay. The motel was right beside the Green River, which flows from north to south and later joins the Colorado.

In the morning we were back on I 70 across rolling, desert-like terrain until we dropped through a cut and were faced with spectacular sandstone ridges. We turned south on Hwy 24 heading across the San Rafael Desert to Hanksville (no relation), which was like an oasis in the desert. We stopped for coffee and chatted with the owner who told us they were short of water (3-4 inches of rain instead of the usual seven). We drove on through Capitol Reef National Park, which was wonderful and used up a lot of film before we stopped at Torrey for lunch.

Since we were heading for Panguitch on Hwy 89, we took Hwy 12 through the Dixie National Forest, which was heavily treed and very much "up and down." The town of Escalante is situated on the Grand Staircase Escalante National Monument and the road west ran alongside the Fremont River. We stopped for a break at an overlook for more picture-taking and I took one of a Long-Tailed Burrowing Wasp, which I hoped would come out.

Just before arriving at Panguitch (where we had booked a room), we went through Red Canyon, which is just north of Bryce Canyon and it was spectacular. Panguitch was a bit of a disappointment, as they had the road up, but the motel was okay and we were able to buy a couple of well-illustrated books, one on Capitol Reef and the other on Utah.

The weather on the following day was cool and cloudy, not the greatest for visiting Bryce Canyon, but it was still fantastic with all the pinnacles in reddish rock, sculpted by the wind. We walked a couple of trails; an easy one for Barbara and a more difficult one for me, in which I was surprised to see a two tall conifer neatly hemmed in by the red rock walls. At the southern end of the canyon there was a Bristlecone Pine 1,600 years old.

We left the canyon and drove north on a back road to Antimony with a branch of the Sevier River next to the road and stopped for some supplies. Took a look at the Otter Creek Reservoir, which had a campground and which brought back memories of our travels in the eastern U.S. with our children and a tent trailer. Picked up Hwy 89 and cut over to Cedar City. where we stayed the night. Picked up I-15 and traveled south, all downhill until we turned on to Hwy 17, which took us into Zion National Park, where we drove to Springdale and booked in to the motel. (to be continued.)

Until next time...

Alan J. Hanks



SECRETARY-TREASURER'S CORNER

MEMBERSHIP DUES

In the last issue, we sent notice that annual dues are payable. If you have sent in your dues already, thank you very much for your support and membership. If you have not yet made payment, or if you cannot recall, look on your **mailing label** to see the year for which you are paid up.

There is a renewal form available for download on the Membership page of the Biology Unit website (www.biophilately.org/membership.html). You can also fill out an on-line form at the website and make your payment using PayPal.

If you want to receive only an electronic copy of *Biophilately* via the website, the annual dues are only \$15. For delivery of the journal by surface mail, the annual dues are \$20 for US addresses and \$25 for international addresses.

NEW MEMBERS

Regrettably, we have no new members to report in this edition. 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. Membership applications are on the website (www.biophilately.org). Or you can contact the Secretary directly.

NEWS OF NOTE

TOPICAL STAMP MARKET

Herrick Stamp Company is one of America's most famous stamp dealers. They offer a new issues service among other things. They publish a stamp market report that includes a market strength grade (1 to 10) for various stamp collecting areas. See the entire report at their website (http://www.herrickstamp.com/marketing_commentary.php).

They state that the stamp market has been stronger for the past few months and they have added topical stamps as one of their survey categories. They believe that thematics are an important part of the stamp market and that **topical** stamps, especially **Bird stamps**, are gaining popularity. New issue stamps with intricate and informative design details are also very strong.

At left is an extract of their report that shows the ratings for the past three Herrick surveys. The chart reflects what their customers order and how market prices are moving.

The chart indicates the market for topical stamps is stronger than any other category except British Colonies, where it is tied.

This should not be surprising, because topical collecting is popular with both beginning and experienced collectors. This information should encourage us all to look for other people interested in topical stamps and ask them to join the ATA and our own study unit.

COUNTRY	Apr '15	Feb '16	Oct '16
Africa	5	4	4
Asia	5	5	5
British Colonies	5	6	6
China Area	5	4	4
Europe	3	4	3
France & Colonies	3	4	4
Middle East & India	3	3	5
South America	5	5	5
United States	5	4	4
Worldwide New Issues	5	5	5
Topical Stamps	7	6	6

ARTICLES NEEDED

Astute readers may have noticed that over the past several volumes we have published many articles from the same small set of authors. Of course, we greatly appreciate the contributions of these writers, but we would like to see **more variety and input from others**. We are sure all of you have something interesting to say and you are an expert in the area you collect.

(continued on page 4)

Therefore, we are challenging each of our members to send in at least **one short article for publication** in the upcoming editions of the journal. You could write about a particular stamp or set of stamps that you especially admire in your collection, perhaps how you came to acquire it, or something about the object it depicts.

You could write about a certain plant or animal, or group of plants or animals. We would very much like to see something similar to our “New Birds” column where you could focus on a specific stamp subject and describe its physical characteristics, habitat, and other ecological features, especially if it is a species new to philately.

The deadline for submissions is the 15th on the month preceding the edition date. The next deadline is 15 May for the June edition. Do not worry about formatting or grammar. That is what the editor is for. Also, do not concern yourself with placing any images “just so” in your article. Provide the images as separate files. The editor will have to reformat them to fit anyway. All we need are your ideas and verbiage.

NATIONAL TOPICAL STAMP SHOW

The American Topical Association, our parent organization, will hold its annual National Topical Stamp Show (NTSS) on **23–25 June 2017**, at the Crowne Plaza Milwaukee Airport Hotel in Milwaukee, Wisconsin. The show themes for each day are: Nature (Friday), Culture (Saturday), and Technology (Sunday).

The show will feature an all-thematic philatelic exhibition, several cachet makers, and a 30-dealer bourse. Dealers will provide not only topical material, but also a wide range of other stamps, covers, and philatelic items. There will be meetings, seminars, activities and special tour events for your pleasure. Free parking, youth activities, and Stamps in your Attic appraisals also are offered.

On Thursday before the show, ATA is offering a half-day tour of Cedarburg including the Wisconsin Museum of Quilts and Fiber Arts, Cedarburg Cultural Center, and Cedarburg Art Museum.

On Monday following the show, there is a full-day tour of New Glarus including the Swiss Historical Village and Museum and the Chalet of the Golden Fleece Museum. See the ATA website to register for the show and sign up for the tours (<http://americantopicalassn.org/ntss/ntss2017.shtml>).

The room rate at the show hotel is \$99 (plus ~15.1% tax) and is available by calling 414-764-5300 by 7 June 2017, or by selecting the direct link on the ATA website, which is easier. Give the group code **NTS**.

Your editor will be presenting a class at the show on **Making Your Own Album Pages by Computer**. This seminar will teach you how to use Microsoft Word to create your own tailored album and exhibit pages.

The Biology Unit will also hold a **meeting** at the show on Saturday at 10:00 AM.

EXCHANGE REQUEST

[We recently received this request from one of our writers.]

My name is Vladimir Kachan. I am 58 years old and for 40 years I have collected philatelic materials of the world with butterflies and moths. I am a serious thematic philatelist, but only an amateur in the area of Lepidoptera. During 25 years, I created a Butterfly philatelic exhibit, which is unique in the world for the Butterfly theme and has been awarded an FIP Large Vermeil medal twice in World Philatelic Exhibitions PORTUGAL-2010 and PHILANIPPON-2011.

I look for and study old philatelic materials of the world with butterflies and moths and write philatelic articles with my research. More than 50 of my articles about butterflies and moths in philately have been published in thematic philatelic journals of the world. I write articles with the aim of popularizing the subject of Lepidoptera on stamps, cancels, and postal stationery.

I am looking for friends/philatelists to exchange thematic and philatelic knowledge and trade philatelic materials with butterflies and moths. I have duplicates of very many philatelic materials of the world with butterflies and other insects including postal stationery, FDCs, special cancels, meter marks, and mint stamp sets.

I can help in creation or improvement of butterfly (insect) philatelic exhibits. Perhaps in your philatelic club some thematic philatelists interest in butterfly (insect) topic?

Yours sincerely, Vladimir Kachan, Kulibina 9-49, Minsk-52, BY-220052, Republic of Belarus

THE WORLD'S MOST VALUABLE TREES

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 April-May 1967 edition of *Bio-Philately* (Vol. 16, No. 5, pp. 202–203). This article appeared before we had the capability to include illustrations. So, I have tried to enhance it with appropriate images. I also updated the listing of stamps at the end.]

[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).]

What are the most valuable trees in the world? This question was asked at a 4-H Club meeting. I gave my answer. As a forester, I mentioned timber trees of great utility: Pine, Oak, Cedar, Teak, Mahogany. What trees would you have given?



White Pine (*Pinus strobus*)
US, 1978, Sc#1765

White Oak (*Quercus alba*)
US, 1978, Sc#1766



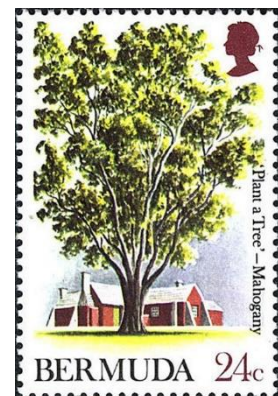
4-H Clubs
US, 1951, Sc#1005



Cedar (*Cedrus libani*)
Lebanon, 1963, Sc#405



Teak (*Tectona grandis*)
Trinidad & Tobago, 1980, Sc#335



Mahogany (*Swietenia mahagoni*)
Bermuda, 1973, Sc#301

The question and answer bothered me. So I asked others—foresters, engineers, teachers, architects, nurserymen. Their answers were much like mine. But when I reviewed my “Tree Album,” I knew that all the answers were wrong.

So, later I confessed my error to the boys and presented a new and more thoughtful list. The new ones included, in order: Date, Coconut, Almond, Olive, Fig, Rubber, Cinchona, Citrus, and Mulberry. (I wanted a tenth, but couldn't find it.) All of these have been shown in stamp designs, some many times, others seldom and poorly. (See list at the end of the article.)

Whether these are actually the world's most important trees can only be a conjecture. Probably it would be difficult to get complete agreement on them, or their tabular position. But certainly some of them have been known to man from antiquity, some have provided him food and shelter, and some have saved thousands from illness and death.

The Date and Coconut are perhaps without a peer. Millions of people have lived off of them for many centuries. What would the people of the arid regions have done without the Date, or the folks of the many islands done without the Coconut?



Date Palm (*Phoenix dactylifera*)
Bahrain, 1995, Sc#443



Coconut Palm (*Cocos nucifera*)
Cocos Islands, 1988, Sc#175

Then there are the “hard” lands, those that are low in fertility, shallow, dry, and often arid, lands that even today support a poor population and a poor growth of vegetation. Here are found the Almond, Olive, and Fig, the trees of poverty-agriculture that help maintain life because they produce where most other crops fail.



Almond (*Prunus dulcis*)
Monaco, 1993, Sc#1852



Olive (*Olea europaea*)
Monaco, 1988, Sc#1645



Fig (*Ficus carica*)
Monaco, 1983, Sc#1376

And the Fig leaf is renowned because it first set the style of the miniskirt.



Adam and Eve by Rubens
Paraguay, 1977, Sc#1710a

One might consider here such trees as the Breadfruit, the Banana (not a tree), or even the Oil Palms.



Breadfruit (*Artocarpus altilis*)
Mayotte, 2005, Sc#213



Banana (*Musa* sp.)
Cameroun, 1981, Sc#682



Oil Palm (*Elaeis guineensis*)
Papua N.G., 2009, Sc#1414-15

Then the Oaks and Chestnut have furnished man with food for himself and his animals for centuries.



Sessile Oak (*Quercus petraea*)
Ireland, 2006, Sc#1656



American Chestnut (*Castanea dentata*)
Canada, 1995, Sc#1370

After going through the commercial realm, we pick up Rubber and Mulberry. Without the rubber tree, perhaps modern transportation and industry would have been impossible. Certainly great wealth to the world has come from the sap of the rubber tree.

The Mulberry is even older, having served as the foundation of the silk industry on which thousands of people in the Far East have depended for many years. Today, silk is no longer the finest material for dresses or the most expensive cloth, but the Mulberry on which the worms fed deserves its place in the sun.

There might be added other trees whose products have been of major importance. The pines produce a resin that made shipping a possibility several hundred years ago.

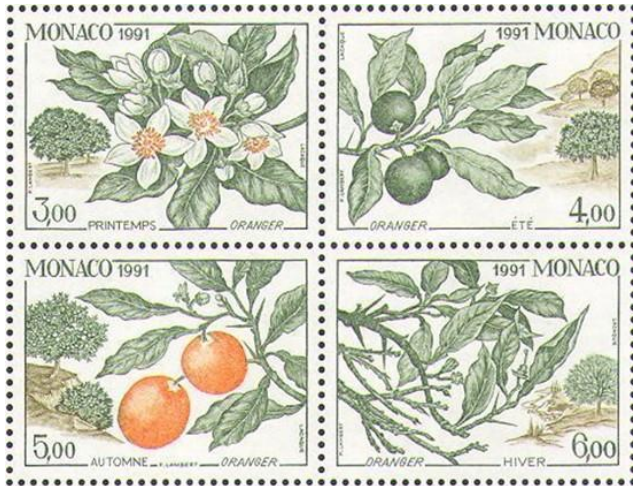


White Mulberry (*Morus alba*)
Laos, 2013, Sc#1867



Rubber (*Hevea brasiliensis*)
Ceylon, 1935, Sc#264a

In the medicinal field, we would have to include the Orange and Lemon of the citrus family for they are the sources of vitamin C that once cured scurvy and made long voyages possible. And the world must give credit to the Cinchona tree for its bark saved countless millions from a miserable existence and death by malaria. Even today, Peruvian bark is still better than the chemical derivatives that have replaced it in many areas.

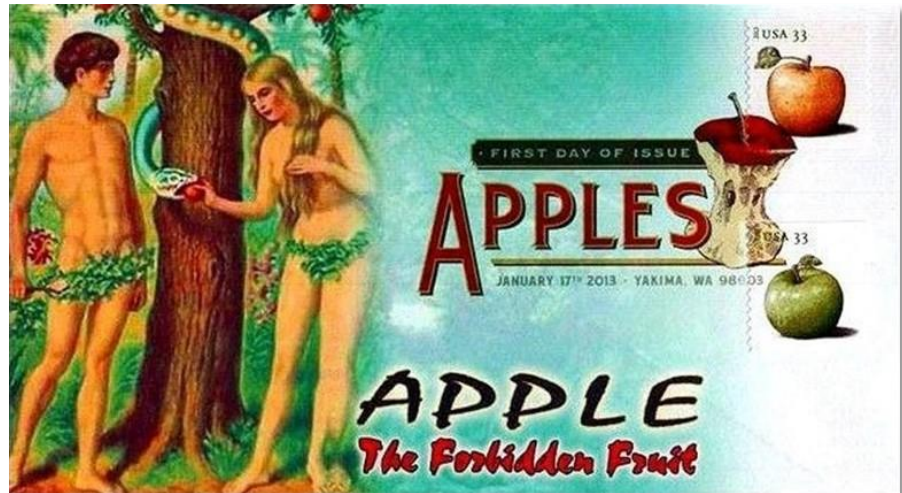


Orange (*Citrus x sinensis*)
Monaco, 1991, Sc#1775



Cinchona (*Cinchona* sp.)
Rwanda, 1970, Sc#367

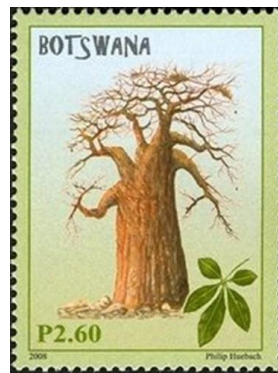
Our list is completed with a question mark. Possibly it should end with the Apple, for it is credited with most of man's woes. Had Eve not given Adam a bite of the forbidden fruit, perhaps today we would all be nudists and still living in the Garden of Eden.



Perhaps one should include the trees with religious connotation: the Ailanthus of China, the Baobab of Africa, or the Bodhi Tree of Ceylon. But, what do you suggest?



Ailanthus leaves (*Ailanthus fordii*)
Ailanthus Silkmoth (*Samia cynthia*)
Korea (North), 1965, Sc#640



Baobab (*Adansonia digitata*)
Botswana, 2008, Sc#858



Bodhi Tree (*Ficus religiosa*)
Nepal, 2001, Sc#697

TREE CHECKLIST

[This is a partial listing of stamps depicting the tree types mentioned in this article.]

Date Palm: Algeria 80; Bahrain 153, 439–43; Bangladesh 53; Cape Verde 350; Egypt 369; Gabon 337; Iraq 335, 393–95; Israel 44; Kuwait 193; Liberia 1231; Libya 183–85, 234, 420–21, B12; Mauritania 227; Monaco B25; San Marino 968; Sudan 155; Tunisia 357, 753, 1180, UAE 245–46, 538, 540, 1055

Coconut Palm: Anguilla 30; Antigua 714, 2984; Barbados 1172; Brazil 1658, 2636D; Ceylon 270, 292, 313, 329; China 3475; Cocos Islands 155, 173–76; Congo P.R. 658; Cook Islands 1342; Dominica 180, 730; France 3444; French Congo 47–49; French West Africa 44; Gabon 560, 665, J38; Gilbert & Ellice 47, 67, 173; Ifni 141; India 745; Indonesia 499; Jamaica 119; Kenya 758; Kiribati 346, 426; Maldives Islands 555, 948, 1306, 2327; Marshall Islands 668m, 966m, 998, 1031a; Mayotte 242; Montserrat 1228, 1326a; Mozambique 1768; Mozambique Company 132–34, 189; Nauru 45, 62, 176; Netherlands Antilles 233; Netherlands Indies 253; Netherlands New Guinea 47; Nevis 1181b; New Caledonia C97; Niue 38, 841, 870; North Borneo 246; Oman 243; Pakistan 95; Palau 426j, 486f, 1172a; Penrhyn Island 28; Philippines 2252; St. Vincent 2191, 2676; Tonga 59; Trinidad 59; Seychelles-ZES 127; Sierra Leone 922; Solomon Islands 74, 1069D; Sri Lanka 558; Surinam 510; Tanzania 1329, 2283, 2359d, 2427; Togo 216–21; Tokelau 164c, 395; Tonga 1132; Tonga (Niuafu'ou) 257; Trinidad & Tobago 122; Vanuatu 439, 602–03; Vietnam (North) 106; Wallis & Futuna 461, 571, C31; Zanzibar 256

Almond: Algeria 609; Anguilla 247; Dominica 1344; Grenada-Grenadines 1347; Italy 360; Liberia 1231d; Libya 1507h; Monaco 1852; Netherlands 1142h; Palau 416; Romania 2155; Seychelles-ZES 130; Singapore 1433, 1438f; Spain 1879; Virgin Islands 340; Yugoslavia 1845

Olive: Croatia 450; Gambia 2413; Greece 2258; Israel 112, C9; Italy 560, 937; Jordan 1737–38; Liberia 1231; Libya 1507m, B17; Mexico 1042; Monaco 1645; Montenegro 343; Morocco 238; Palestinian Authority 165; Spain 3104; Syria 580; Tunisia 165–84, 361, 1181; Turkey 728–36; Yugoslavia 1695

Fig: Australia 2416, 2421; Barbados 429; Bermuda 669; Burkina Faso 469; Dominica 733; Israel 66, 148; Jordan 1899; Lebanon 395; Liberia 1231c; Libya 1507o; Malta 1279e; Monaco 1376; Namibia 974; Peru 382, 416; Salvador 981; South Africa (Transkei) 227–28; South Africa (Venda) 86; Swaziland 657, 766; Syria 686; Turkey 791; Yemen 234, J24; Zambia 157

Rubber: Bolivia 775; Brazil 1934; Cameroun 177–97, C105; Ceylon 264, 323; Colombia 665; Congo P.R. 588–89; Gabon 705; Ghana 333; India 849; Indonesia 500; Ivory Coast 1157; Liberia 310, 753, 2731; Malaya 96, N35; Malaysia 53, 135; Middle Congo J23–J33; Mozambique 159; Mozambique Company 112, 159; Papua New Guinea 132; Singapore 1349; Sri Lanka 1403; Thailand 566

Cinchona: UN-Geneva 187; Colombia 923, 925; Congo D.R. 444, 446, 448; Cuba 759; Ecuador 1320; Poland 1088; Rio Muni 10, 30; Rwanda 304, 367

Citrus: Bermuda 676; British Honduras 200; China 3474; Colombia 589; Dominica 126; Dominican Republic 1289d; Fiji 1244; Gabon J39–J40, J44; Gambia 2785d; Germany B1027; Iraq 231; Israel 120, 1767b; Jamaica 122; Japan 3425e, Z536; Jordan 2137–41; Kenya 755; Libya 1507j; Mayotte 254; Micronesia 248; Monaco 1775; Mozambique 1768; Netherlands Antilles 498; New Caledonia 1044; New Zealand 762; Pakistan 89; Russia 1587; South Africa (Ciskei) 125; Syria 775–79; Thailand 1538; Trinidad & Tobago 150; Tunisia 1179; Vietnam (North) 2384; US Q12

Mulberry: Afghanistan 640–41; Bermuda 674; Italy 640; Laos 1867; Libya 1507c; Maldives Islands 549; Malta 1279d; Palau 421b; St. Vincent 1674h

SWISS BABY ANIMALS

On 2 March 2017, Swiss Post will issue a set of four stamps depicting cute baby animals. Each of the species depicted is highly endangered in Switzerland. A set of four picture postcards with each design will also be released.

Eurasian Otters (*Lutra lutra*) used to live on the banks of practically every stretch of water in Switzerland. They became extinct in Switzerland in the middle of the 20th century as a result of over-hunting. To ensure a natural return of the species from border areas, or a successful repopulation, the country must restore its water habitats, especially in the central plateau.

The otters are widely distributed across the rest of Europe and parts of Asia and Africa.

The **Eurasian Lynx** (*Lynx lynx*) was reintroduced to Switzerland in 1971. The animals are able to survive in heavily cultivated terrain because they are extremely discreet. A stable population has established itself mainly in the northwest Alps and the Jura.

The lynx is a medium size cat and the largest lynx species. It is widely distributed across eastern Europe and northern and central Asia.

Because their natural prey was being hunted by man, **Eurasian Wolves** (*Canis lupus lupus*) had no choice but to feed on farm animals. This led to the wolves themselves being hunted down and eventually disappearing from Switzerland at the end of the 19th century. Since 1995, wolves have been regularly migrating back into the country from Italy and France. Since 2012, there have been cub births every year in the Calanda mountain range in Graubünden.

The Eurasian Wolf is the largest of the Old World grey wolves weighing up to 175 pounds (80 kg). It was widespread throughout Eurasia prior to the Middle Ages, but was systematically exterminated since then. Populations have recovered since World War II and is now widespread throughout northern and central Asia.

About one hundred years after becoming extinct in Switzerland, almost every summer since 2005, **Eurasian Brown Bears** (*Ursus arctos arctos*) have roamed through Switzerland's Alpine valleys. The animals come from the Austrian-Italian-Slovenian border region. Bears live inconspicuously and frequently their presence is not even noticed. Hunting and loss of habitat almost resulted in the complete disappearance of these once widespread animals.

The brown bears are making a comeback in northern and central Europe. But the largest population is found in Russia and parts of central Asia.

The stamps were designed by Simon Hofer from Bern, Switzerland. He consciously factored the sympathy effect into his portrayals of the baby animals. The animal is in the foreground and the unicolored backgrounds heighten the eye-catching effect.



ALEXANDER von HUMBOLDT: THE FIRST ENVIRONMENTALIST

Dr. Lyman R. Caswell, Washington

[Ed. Note: This is the third installment of a four-part article on the life of Alexander von Humboldt. See Vol. 65 (3) and Vol. 65 (4) for Parts 1 and 2 of this article. Dr. Caswell is a retired chemistry professor who has an award winning exhibit on von Humboldt. He is a Director in the Society for Hungarian Philately and also a founding director of the Seattle Philatelic Exhibition.]

Ecuador

On 31 December 1801, the travelers entered what is now Ecuador at Ibarra, a town on the border with Colombia. There they met Colombian physicist Francisco José de Caldas, the discoverer of the relationship between altitude and boiling point. (Fig. 30). Caldas traveled with them to the city of Quito, where the travelers were received as guests by Juan Pío Montúfar, the Marqués de Selva Alegre (Fig. 31).



Fig. 30. de Caldas on International Geophysical Year First Day Cover Colombia, 1958, Sc#680/C309-10

The son of the Marqués, Carlos Montúfar (Fig. 32), accompanied Humboldt for the remainder of his American expeditions, and went back to Europe with him.

Caldas applied to join Humboldt’s expedition, but Humboldt rejected the request because Caldas did not have the resources to pay his own way. Caldas took offense about his rejection, and complained bitterly about it in a letter to the botanist Mutis.



Fig. 31. Juan Pío Montúfar Ecuador, 1909, Sc#185



Fig. 32. Carlos Montúfar Ecuador, 1909, Sc#186



Fig. 33. Expedition Maps Ecuador, 1986, Sc#1141

In the archives at Quito, Humboldt studied the maps and other records left by the La Condamine geodesic expedition of 1736 to measure an arc of the Equator, and the maps of the explorer Pedro Vicente Maldonado in 1750. Figure 33 reproduces maps left by both expeditions.

On 8 June 1802, Humboldt, Bonpland, and Montúfar left Quito, and traveled south on the old Inca road. Near the city of Loja they harvested quinine bark, in order to be prepared to treat any further attacks of malaria.

On 23 June, they attempted the ascent of Mount Chimborazo (Fig. 34), the world's highest volcano and the point on the Earth's surface that is farthest from the Earth's center. They achieved an elevation of 19,280 feet (5,877 m), 1,269 feet (386 m) below the summit and the highest elevation reached by a European up to that time.



Fig. 34. Mount Chimborazo Ecuador, 2000, Sc#513

They were driven back by cold and altitude sickness. The cold and altitude did not stop them from observing the plants that grew on the mountain, and collecting specimens. Late in July, the travelers ascended the Ecuadorian volcanoes Tungurahua (Fig. 35) and Cotopaxi.



Fig. 35. Tungurahua Eruption Ecuador, 2006, Sc#1831

Continuing down the Andes, Humboldt, Bonpland, Montúfar, and Caldas made three attempts to climb the volcano Pichincha, finally reaching the edge of the crater on 28 June. The local Indians attributed an earthquake on the following day to the "disturbance of the mountain's dust" by the explorers.

Figure 36 reproduces Humboldt's painting of "Travelers in the Andes," an illustration from Humboldt's book, *Vues des cordillères et monuments des peuples indigènes de l'Amérique* ("Views of the Cordilleras and Monuments of the Indigenous Peoples of America"), in which he described his Andean journey. The mountain in the background is the Cayambe Volcano. The bird on the stamp of Liechtenstein, a country that Humboldt never visited, is an Andean Condor (*Vultur gryphus*), which is described in the book.



Fig. 36. "Travelers in the Andes" with stamp honoring Humboldt Liechtenstein, 1994, Sc#1022



Fig. 37. Ingapirca Ruins Ecuador, 1956, Sc#C295

Along the Inca road, on the way to Perú they inspected the ruins of the palace of the Inca Tupac Yupanqui and the Inca Fortress of Ingapirca (Fig. 37).

They spent ten days in the old city of Cuenca, where a bullfight was held in their honor. Near the city of Loja, they harvested cinchona bark in order to be prepared to treat any further attacks of malaria.

Perú

On 3 August 1802, the travelers entered the Viceroyalty of New Castille (now Perú). They traveled up the Marañón River and into the mountains to Cajamarca, the city where the conquistador Pizarro captured the Inca Atahualpa.

From Cajamarca, the travelers went to the coast. Along the way, they inspected the ruins of Chan-Chan (Fig. 38), the capital city of the pre-Inca Chimú kingdom.

On 25 September, they came to the city of Trujillo on the Peruvian coast. There Humboldt measured the temperature of the ocean and discovered the cold, nutrient-rich Antarctic current, now known as the “Humboldt Current.”

He observed the harvesting of seabird guano and its use as fertilizer. His published description of the use of guano created a demand for it later in Europe. The Figures 39 and 40 show the Peruvian cormorant (*Phalacrocorax bougainvillii*), the source of guano, and its principal food, the Peruvian anchovy (*Engraulis ringens*).

Humboldt also recorded observations of the species of penguin, now known as “Humboldt’s penguin,” (*Spheniscus humboldtii*) (Fig. 41).

The travelers arrived at Lima on 23 October. Unlike his treatment by authorities in other parts of Spanish America, Humboldt’s reception by the Viceroy was cold and unfriendly, making him feel unwelcome. No explanation has been offered for this different behavior. A possible explanation may lie in the extensive corruption in the government of the Viceroyalty.

The Viceroy may have suspected that Humboldt had been sent as a spy to report on conditions in the Viceroyalty to the Spanish government. Some thirty years earlier such a report on these conditions had been prepared by Antonio de Ulloa, the director of the mercury mine of Huancavelica in Perú. The report had been suppressed.

Humboldt and his companions, however, received a cordial welcome from the physician Hipólito Unanue (Fig. 42), “the father of Peruvian medicine,” and not a member of the Viceroyal government. Unanue was their host during their stay in Lima. Unanue had an extensive library and collection of herbarium specimens, which he allowed Humboldt to examine.

In Lima, Humboldt met Czech botanist and explorer Tadeáš Haenke. The latter influenced Humboldt to publish his work on the influence of climate on plants, *Geographie der Pflanzen in den Tropen-Ländern: ein Naturgemälde der Anden* (“Geography of Plants in Tropic Lands: a Nature Painting of the Andes”). Figure 43 shows the frontispiece of this book. The white mountain is probably La Silla, near Caracas. The illustration of *Rhexia cardinalis* on the stamp reproduces an illustration from the book.

On 19 September of the following year, Humboldt, Bonpland, and Montúfar came to Callao, the port of Lima. Humboldt observed the transit of Mercury across the face of the sun and made further observations on the cold ocean current and the use of guano as a fertilizer.

A tête-bêche pair of stamps (Fig. 44) commemorate the bicentenary of Humboldt’s visit to Perú. The ship below his portrait is the Peruvian Antarctic research vessel *Humboldt*.

Almost three months later, on 5 December 1803, the travelers sailed from Callao to Guayaquil, in Ecuador, aboard the frigate *La Castora*. Along the way Humboldt made further measurements of water temperature.

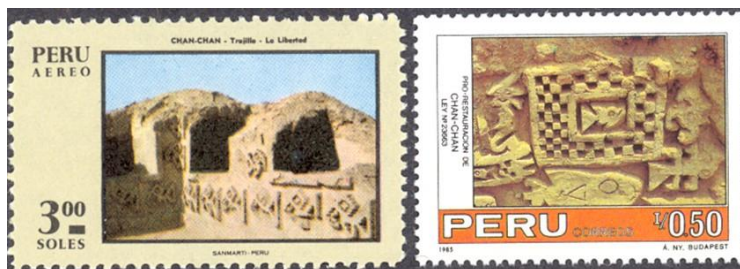


Fig. 38. Chan-Chan Ruins & Bas-relief
Peru, 1970, Sc#C294 & Peru, 1986, Sc#866



Fig. 39. *Phalacrocorax bougainvillii*
Peru, 1937, Sc#357



Fig. 40. *Engraulis ringens*
Peru, 1970, Sc#522



Fig. 41. *Spheniscus humboldtii*
Peru, 1985, Sc#853



Fig. 42. Hipólito Unanue
Peru, 1971, Sc#C318

On 9 January 1803, they disembarked in Guayaquil. They remained in Guayaquil a month, seeking passage to the Galápagos Islands, but found none.

It is interesting to speculate what Humboldt might have done, if he had visited the Galápagos thirty years before Darwin, made the same observations as Darwin (Fig. 45), and come to conclusions similar to Darwin's.

We know that Humboldt was open to the idea of evolution. He wrote that the way our arms swing when we walk, the right arm swinging forward when the left foot steps and the left arm swinging forward when the right foot steps, is an inheritance from the walking gait of a quadrupedal ancestor.

It remained for Darwin to find the mechanism of evolution in natural selection, and for modern paleo-anthropologists to find the fossilized bones of our quadrupedal ancestors.

Humboldt, Bonpland, and Montúfar, sailed on 15 February 1803, from Guayaquil aboard the frigate *Orúe*, headed for México. They disembarked at Acapulco in the Viceroyalty of New Spain (now Mexico) on 23 March.

[to be continued in the next edition]

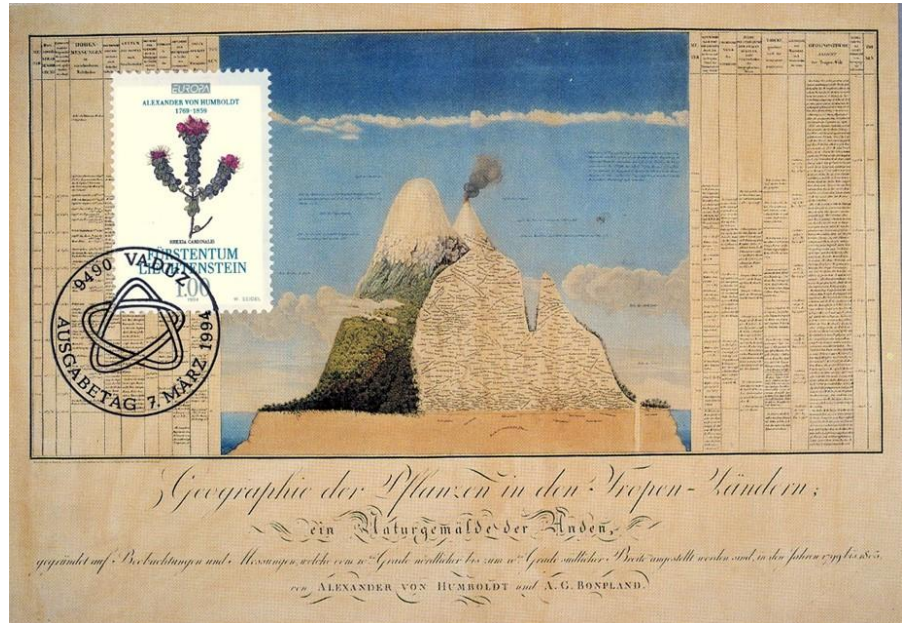


Fig. 43. "Geography of Plants" illustration with stamp honoring Humboldt Liechtenstein, 1994, Sc#1023



Fig. 44. Bicentennial of Humboldt's Visit Peru, 2002, Sc#1349a

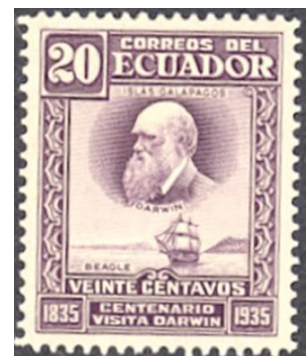


Fig. 45. Darwin Ecuador, 1936, Sc#343

FROGS AND TOADS FROM CHILDREN'S STORIES

Dr. Vic Eichler, BU1850

Many stories with a focus for children in the world's literature include a frog or toad as a central character. Numerous countries have honored these amphibian characters by depicting them on postage stamps.

Perhaps the most popular subject is the frog protagonist in the story by the Brothers Grimm. According to the story, the frog retrieved the golden ball that a princess had lost in a pond, and as a reward the young lady was obligated to fulfill her promise to the frog. The story has several versions, but in the end the frog is freed from a spell and his true identity is revealed to be a handsome prince.

Among the numerous versions of stamps that portray this story are the following:

In 1966, West Germany issued a set of four semi-postal stamps that depicted scenes from

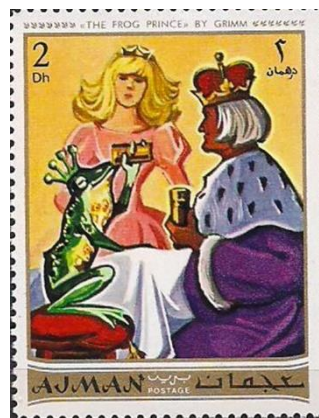


The Princess and the Frog, Germany-Berlin, 1966, Sc#9NB41–44

The Princess and the Frog fairy tale (Sc#418–21). They used the same designs on stamps from Berlin.



Austria, 1981, Sc#1181



Ajman, 1971, Mi#1034



Serbia, 2016, Sc#717a



USA, 2005, Sc#3944a

No doubt that the frog with greatest public appeal for children—and adults as well—is Kermit the frog who first appeared on the Children's Television Network program *Sesame Street*. Kermit went on to star in television specials, movies, and books, and was even selected as the Grand Marshal of the Pasadena, California, Rose Bowl Parade in 1996.



Great Britain, 1993, Sc#1482



Great Britain, 1979, Sc#868

The popular children's book, *The Wind In The Willows*, by Kenneth Grahame has brought fame to Mr. Toad, one of four animal friends who share many misadventures. Published in 1908, it has had many stage and television adaptations, and in 1985, a Broadway musical version was nominated for a Tony award.

The Tale of Mr. Jeremy Fisher, written and illustrated by Beatrix Potter, tells of adventures of a frog named Jeremy Fisher. It followed Ms. Potter's publication of *The Tale of Peter Rabbit* and has retained its popularity since being published in 1906.



Great Britain, 2006, Sc#2334



Isle of Man, 2006, Sc#1171d (at right)

Rafael Pombo (1833–1912) was a journalist and translator who was given the honor of being named Colombia's most outstanding poet. Pombo created Rin Rin, a tadpole who fails to listen to his elders, much like a young person might. It has been written that Rin Rin is one of the most universally known characters from children's stories known throughout the country of Colombia.



Colombia, 1980, Sc#C693

Sandor Weores (1913–1989) was a Hungarian author and perhaps the country's greatest poet. In honor of his creative writing, Hungary published this miniature sheet of four stamps, the third of which illustrates a frog from one of his creations.



Hungary, 2013, Sc#4288c



BOTANY

Editor

Christopher E. Dahle, BU1269



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ALBANIA 2016 July 27 (Flowers) (Strip/3)				
2984a	20l	Tulips, <i>Tulipa kosovarica</i>	Liliaceae	Fl A
2984b	30l	Bellflower, <i>Campanula comosiformis</i>	Campanulaceae	Fl A
2984c	190l	<i>Solenanthes albanicus</i>	Boraginaceae	Fl A
ANDORRA (Spanish) 2016 September 8 (Ramón Llull, philosopher)				
426	45c	Tree of Science		T U S
ARUBA 2016 July 29 (Vegetables) (Set/5)				
501	90c	Beans, <i>Phaseolus vulgaris</i>	Fabaceae	Fr A
502	130c	Pepper, <i>Capsicum annum</i>	Solanaceae	Fr A
503	205c	Cucumber, <i>Cucumis sativus</i>	Cucurbitaceae	Fr A
504	220c	Eggplant, <i>Solanum melongena</i>	Solanaceae	Fr A
505	320c	Okra, <i>Hibiscus esculentus</i>	Malvaceae	Fr A
AUSTRALIA 2015 December 15 (Wildflowers Type of 2015 personalized) (MS/20)				
4405	\$1	Rose Coneflower, <i>Isopogon formosus</i>	Proteaceae	Fl A
4406	\$1	Spiny Mirbella, <i>Mirbelia spinosa</i>	Fabaceae	Fl A
4407	\$1	Blue Devil, <i>Eryngium pinnatifidum</i>	Apiaceae	Fl A
4408	\$1	Golden Rainbow, <i>Drosera microphylla</i>	Droseraceae	Fl A
2016 January 25 (Greeting Type of 2016 personalized) (MS/20)				
4441	\$1	White Roses, <i>Rosa x hybrida</i>	Rosaceae	Fl A
4443	\$1	Heart of Red Roses, <i>Rosa x hybrida</i>	Rosaceae	Fl A
4448	\$1	Flowering Gum, <i>Corymbia ficifolia</i>	Myrtaceae	Fl A
4449	\$1	Wattle, <i>Acacia pycnantha</i>	Fabaceae	Fl A
2016 October 11 (Involvement in Viet Nam War) (Bklt/4 & SS/5)				
4555–64		Images with Poppies at edge, <i>Papaver rhoeas</i>	Papaveraceae	Fl B
BELGIUM 2016 August 22 (Paintings by Rik Wouters) (MS/5)				
2801a	€1.48	Tulips, 1913, <i>Tulipa x hybrida</i>	Liliaceae	Fl A MS
2016 October 24 (Coil Definitives) (Vert Strip/10)				
2804	(74c)	Begonia, <i>Begonia x hybrida</i>	Begoniaceae	Fl A
2805	(74c)	Dahlia, <i>Dahlia x hybrida</i>	Asteraceae	Fl A
2806	(74c)	Daffodil, <i>Narcissus pseudonarcissus</i>	Amaryllidaceae	Fl A
2807	(74c)	Greek Anemone, <i>Anemone blanda</i>	Ranunculaceae	Fl A
2808	(74c)	Tulip, <i>Tulipa x hybrida</i>	Liliaceae	Fl A
2809	(74c)	Iris, <i>Iris</i> sp.	Iridaceae	Fl A
2810	(74c)	Amaryllis, <i>Hippeastrum</i> sp.	Amaryllidaceae	Fl A
2811	(74c)	Crocus, <i>Crocus vernus</i>	Iridaceae	Fl A
2812	(74c)	Iris, <i>Iris</i> sp.	Iridaceae	Fl A
2813	(74c)	Hyacinth, <i>Hyacinthus orientalis</i>	Asparagaceae	Fl A

BERMUDA		2016 August 8 (Flowers Type of 2014) (Set/6) [see Vol. 64(1) p.18]		
1115	20c	Golden Angel's Trumpet, <i>Datura aurea</i>	Solanaceae	Fl A
1116	60c	Queen's Wreath or Sandpaper Vine, <i>Petrea volubilis</i>	Verbenaceae	Fl A
1117	75c	Pink Shower, <i>Cassia javanica</i>	Fabaceae	Fl A
1118	90c	Crepe Myrtle or Pride of India, <i>Lagerstroemia indica</i>	Lythraceae	Fl A
1119	\$1.95	Mexican Creeper or Coral Vine, <i>Antigonon leptopus</i>	Caryophyllaceae	Fl A
1120	\$3	Beach Morning Glory, <i>Ipomoea pes-caprae</i>	Convolvulaceae	Fl A
BOSNIA & HERZEGOVINA (Serb)		2016 September 16 (Fruit Type of 2016) [see Vol. 65 (4) p.270]		
549	50pf	Cornelian Cherry, <i>Cornus mas</i>	Cornaceae	Fr A
BRAZIL		2015 October 16 (Pepper Varieties) (Block/4)		
3315a	1.95r	Malagueta, <i>Capsicum frutescens</i>	Solanaceae	Fr A
3315b	1.95r	Dedo-de-moça, <i>Capsicum frutescens</i>	Solanaceae	Fr A
3315c	1.95r	Bode, <i>Capsicum frutescens</i>	Solanaceae	Fl Fr A
3315d	1.95r	Biquinho, <i>Capsicum frutescens</i>	Solanaceae	Fr A
		2016 January 12 (400th anniv. Belém) (MS/8)		
3322	Margin	Bkgrd: Tree-lined street		T A U Z
3322e	(1.50r)	Açaí berries, <i>Euterpe oleracea</i>	Arecaceae	Fr A
CHINA (Taiwan)		2016 August 17 (Fruit Type of 2016) (Set/4) [see Vol 65(4) p.271]		
4313	\$7	Tomatoes, <i>Lycopersicon esculentum</i>	Solanaceae	Fr A
4314	\$17	Guavas <i>Psidium guajava</i>	Myrtaceae	Fr A
4315	\$25	Persimmons, <i>Diospyros kaki</i>	Ebenaceae	Fr A
4316	\$34	Pineapple, <i>Ananas comosus</i>	Bromeliaceae	Fr A
CHINA (People's Republic)		2016 May 5 (Solar Terms) (Block/6)		
4357		Illustrations in shape of a fan		
4357c	\$1.20	"Grain in Beard," Rice paddy, <i>Oryza sativa</i>	Poaceae	Fr B
		2016 May 8 (Scientists) (Set/4)		
4359	\$1.20	Jin Shanbao, agronomist in grain field		Fr B U
CUBA		2015 May 26 (National Flowers of C. & S. American countries) (Set/8)		
5685	5c	Dahlia, <i>Dahlia x hybrida</i>	Asteraceae	Fl A
5686	15c	Golden Trumpet, <i>Handroanthus chrysotrichus</i>	Bignoniaceae	Fl A
5687	20c	Mayflower Orchid, <i>Cattleya mossiae</i>	Orchidaceae	Fl A
5688	30c	Ceibo, <i>Erythrina crista-galli</i>	Fabaceae	Fl A
5689	40c	Virgin Orchid, <i>Rhyncholaelia digbyana</i>	Orchidaceae	Fl A
5690	65c	Rose, <i>Rosa x hybrida</i>	Rosaceae	Fl A
5691	75c	Copihue or Chilean Bellflower, <i>Lapageria rosea</i>	Philesiaceae	Fl A
5692	90c	White Ginger, <i>Hedychium coronarium</i>	Zingiberaceae	Fl A
		2016 May 26 (National Flowers of N. & S. American countries) (Set/8)		
5813	5c	Maga, <i>Thespesia grandiflora</i>	Malvaceae	Fl A
5814	15c	Bougainvillea, <i>Bougainvillea spectabilis</i>	Nyctaginaceae	Fl A
5815	20c	Romerillo, <i>Argyranthemum frutescens</i>	Asteraceae	Fl A
5816	30c	Plumeria, <i>Plumeria alba</i>	Apocynaceae	Fl A
5817	40c	Soufriere Tree, <i>Spachea perforata</i>	Malpighiaceae	Fl A
5818	65c	Poinciana, <i>Delonix regia</i>	Fabaceae	Fl A
5819	75c	Dagger's Log, <i>Agave karatto</i>	Asparagaceae	Fl A
5820	90c	Kantuta, <i>Cantua buxifolia</i>	Polemoniaceae	Fl A

DJIBOUTI**2016 March 15** (Paintings by van Gogh) (MS/4)911b 270fr “Vase with Twelve Sunflowers,” *Helianthus annuus* Asteraceae Fl A**2016 May 5** (Orchids) (MS/4 & SS/1)953a 280fr *Caucaea sanguinolenta* (=mimetica) Orchidaceae Fl A MS953b 280fr *Diuris magnifica* Orchidaceae Fl A MS953c 280fr *Thelymitra pulcherrima* Orchidaceae Fl A MS953d 280fr *Thelymitra campanulata* Orchidaceae Fl A MS973 SS 960fr *Cattleya schroederiae* Orchidaceae Fl A SS**2016 July 28** (Paintings by Morissot) (MS/4)

987a 260fr “The Garden at Bougival” Fl B U MS

987d 260fr “Dahlias,” *Dahlia x hybrida* Asteraceae Fl A MS**2016 July 28** (Paintings by Cezanne) (MS/4)988c 260fr “Still Life with Apples and Oranges,” *Malus domestica* Rosaceae Fr B MSOranges, *Citrus sinensis* Rutaceae Fr B MS**2016 July 28** (Intl. Year of Pulses) (MS/4 & SS/1)

995a 260fr Woman, child & legumes Fabaceae Fr B MS Z

995b 260fr Hands holding seedling Fabaceae V B MS Z

995c 260fr Farm machinery, sprout Fabaceae V B MS Z

995d 260fr *Poicephalus senegalus* Fabaceae Fr B MS Z

1014 SS 960fr Hands holding legume Fabaceae Fr B SS Z

FALKLAND ISLANDS**2016 November 21** (Endemic Plants) (Set/6 & MS/6)1173 31p Falkland Rock Cress, *Phlebotobium maclovianum* Brassicaceae Fl A1174 31p Lady’s Slipper, *Calceolaria fothergillii* Calceolariaceae Fl A1175 76p False Plantain, *Nastanthus falklandicus* Calyceraceae Fl A1176 76p Silvery Buttercup, *Hamadryas argentea* Ranunculaceae Fl A1177 £1.01 Snakeplant, *Nassauvia serpens* Asteraceae Fl A1178 £1.01 Falkland Nassauvia, *Nassauvia falklandica* Asteraceae Fl A1179a 66p Falkland Rock Cress, *Phlebotobium maclovianum* Brassicaceae Fl A SS1179b 66p Lady’s Slipper, *Calceolaria fothergillii* Calceolariaceae Fl A SS1179c 66p False Plantain, *Nastanthus falklandicus* Calyceraceae Fl A SS1179d 66p Silvery Buttercup, *Hamadryas argentea* Ranunculaceae Fl A SS1179e 66p Snakeplant, *Nassauvia serpens* Asteraceae Fl A SS1179f 66p Falkland Nassauvia, *Nassauvia falklandica* Asteraceae Fl A SS**FRANCE****2016 September 3** (Flowers in Lavish Abundance) (Bklt/12)5066 (80c) Oiseau de paradis or Bird-of-Paradise, *Strelitzia reginae* Strelitziaceae Fl A5067 (80c) Coquelicot or Poppy, *Papaver rhoeas* Papaveraceae Fl A5068 (80c) Muguet or Lily-of-the Valley, *Convallaria majalis* Liliaceae Fl A5069 (80c) Balisier or Heliconia, *Heliconia sp.* Heliconiaceae Fl A5070 (80c) Lys rouge or Red Lily, *Lilium x hybridum* Liliaceae Fl A5071 (80c) Iris, *Iris sp.* Iridaceae Fl A5072 (80c) Rose, *Rosa x hybrida* Rosaceae Fl A5073 (80c) Tournesol or Sunflower, *Helianthus annuus* Asteraceae Fl A5074 (80c) Jonquille or Daffodil, *Narcissus pseudonarcissus* Amaryllidaceae Fl A5075 (80c) Marguerite or Daisy, *Argyranthemum frutescens* Asteraceae Fl A5076 (80c) Belle-de-nuit or Four-o’clock, *Mirabilis jalapa* Nyctaginaceae Fl A5077 (80c) Passiflora or Passion Flower, *Passiflora sp.* Passifloraceae Fl A

5077a Bklt/12 (Sc#5066–77) (s/a)

FRENCH POLYNESIA		2016 August 12 (Medicinal Plants)			
1174	80fr	'āvaro, <i>Premna serratifolia</i>		Lamiaceae	Fl Fr V A
		2016 October 21 (PhilaTaipei 2016 Exhibition) (Single & SS/1)			
1175	300fr	Woman and Plum blossoms, <i>Prunus mume</i>		Rosaceae	Fl B
1175a		SS/1 (Sc#1175)			
GERMANY		2016 February 1 (Microscopic Views Type 2015) [see Vol. 65(2) p.92]			
2877	70c	Diatom			V A U
2878	70c	Agrimony flower, <i>Agrimonia</i> sp.		Rosaceae	Fl A
2878a		Horiz coil pair (Sc#2877–78) (s/a)			
		2015 December 3 (Flowers Type of 2005)			
2886	70c	Chocolate Cosmos, <i>Cosmos atrosanguineus</i>		Asteraceae	Fl A
GIBRALTAR		2016 March 30 (Europa) (Set/2)			
1552	\$1.50	U/I tree			T A U
		2016 May 16 (100th anniv. Battle of the Somme) (Set/5)			
1553–57		Poppies and soldiers, <i>Papaver rhoeas</i>		Papaveraceae	Fl B
		2016 July 25 (200th anniv. Alameda Gardens) (Set/5)			
1559–63		U/I vegetation			V B U
GREAT BRITAIN (England)		2016 March 22 (Type of 2003) (see <i>Plants on Stamps</i> Vol. V, p.67)			
32	£1.05	Oak, <i>Quercus robur</i>		Fagaceae	T A
GREAT BRITAIN (Scotland)		2016 March 22 (Type of 2003) (see <i>Plants on Stamps</i> Vol. V, p.68)			
46	£1.05	Thistle, <i>Onopordum acanthium</i>		Asteraceae	Fl A
GREAT BRITAIN (Wales & Monmouthshire)		2016 March 22 (Type of 2003) (<i>Plants on Stamps</i> Vol. V, p.68)			
46	£1.05	Daffodil, <i>Narcissus pseudonarcissus</i>		Amaryllidaceae	Fl A
ICELAND		2016 September 16 (Wild Icelandic Vegetation) (MS/10)			
1416	(180k)	Moss Campion, <i>Silene acaulis</i>		Caryophyllaceae	Fl A
1417	(275k)	Sea Campion, <i>Silene uniflora</i>		Caryophyllaceae	Fl A
IRAQ		2016 July 13 (Flower Arrangements) (Set/5)			
1999	250d	Various flowers			Fl A U
2000	500d	Various flowers			Fl A U
2001	750d	Various flowers			Fl A U
2002	1000d	Various flowers			Fl A U
2003	1500d	Various flowers			Fl A U
LATVIA		2016 July 12 (Flowers Type of 2014) (inscribed “2016”)			
868b	4c	Hepatica, <i>Hepatica nobilis</i>		Ranunculaceae	Fl A
		2016 March 4			
930	50c	Water Lily, <i>Nymphaea caerulea</i>		Nymphaeaceae	Fl A
MALAYSIA		2016 March 7 (Scented Flowers) (3ea Pairs & SS/1)			
1593a–b	70c	Bread Flowers, <i>Vallaris glabra</i>		Apocynaceae	Fl A
1594a–b	80c	Yellow Saraca, <i>Saraca declinata</i> (=cauliflora)		Fabaceae	Fl A
1595a–b	80c	Cannonball Flower, <i>Couroupita guianensis</i>		Lecythidaceae	Fl A
1596	\$5	Cape Jasmine, <i>Gardenia jasminoides</i>		Rubiaceae	Fl A SS
MALAYSIA (Johore)		2002 (Agriculture & Arms Type of 1986) (denom in “Sen”)			
196D	30sen	Rice, <i>Oryza sativa</i>		Poaceae	Fr A

MALAYSIA (Johore) (continued) 2016 February 25 (Flower & Arms definitives) (Set/6 & SS/6)				
207	10c	Lotus, <i>Nelumbium nelumbo</i>	Nelumbonaceae	Fl A
208	20c	Hydrangea, <i>Hydrangea macrophylla</i>	Hydrangeaceae	Fl A
209	30c	Amaryllis, <i>Hippeastrum reticulatum</i>	Amaryllidaceae	Fl A
210	40c	Bougainvillea, <i>Bougainvillea spectabilis</i>	Nyctaginaceae	Fl A
211	50c	Morning Glory, <i>Ipomoea indica</i>	Convolvulaceae	Fl A
212	60c	Chinese Hibiscus, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A
212a		SS/6 (Sc#207–12)		
MALAYSIA (Kedah) 1986? (Agriculture & Arms Type of 1986 w/ Sultan Abdul Halim)				
136c	20c	Oil Palm, <i>Elaeis guineensis</i>	Arecaceae	Fr A
MALAYSIA (Kelantan) 1986? (Agriculture & Arms Type of 1986 w/ Sultan Ismael Petra)				
121b	30c	Rice, <i>Oryza sativa</i>	Poaceae	Fr A
MALAYSIA (Negri Sembilan) 1986? (Agriculture & Arms Type of Johore 1986)				
104b	20c	Oil Palm, <i>Elaeis guineensis</i>	Arecaceae	Fr A
MALAYSIA (Pahang) 1986? (Agriculture & Arms Type of 1986 w/ Sultan Haji Ahmad Shah)				
113a	5c	Cacao, <i>Theobroma cacao</i>	Malvaceae	Fr A
117b	20c	Oil Palm, <i>Elaeis guineensis</i>	Arecaceae	Fr A
MALAYSIA (Perak) 2016 March 21 (Flower & Arms definitives) (SS/6)				
180	10c	Lotus, <i>Nelumbium nelumbo</i>	Nelumbonaceae	Fl A
181	20c	Hydrangea, <i>Hydrangea macrophylla</i>	Hydrangeaceae	Fl A
182	30c	Amaryllis, <i>Hippeastrum reticulatum</i>	Amaryllidaceae	Fl A
183	40c	Bougainvillea, <i>Bougainvillea spectabilis</i>	Nyctaginaceae	Fl A
184	50c	Morning Glory, <i>Ipomoea indica</i>	Convolvulaceae	Fl A
185	60c	Chinese Hibiscus, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A
185a		SS/6 (Sc#180–85) (imperf)		
MALAYSIA (Sabah) 1986? (Agriculture & Arms Type of Johore 1986)				
42a	10c	Pepper, <i>Piper nigrum</i>	Piperaceae	Fr A
MALAYSIA (Selangor) 1986? (Agriculture & Arms Type w/ Sultan Salahuddin Abdul Aziz Shah)				
147b	20c	Oil Palm, <i>Elaeis guineensis</i>	Arecaceae	Fr A
MALAYSIA (Trengganu) 1986? (Agriculture & Arms Type w/ Sultan Mahmud Al Marhum)				
116b	30c	Rice, <i>Oryza sativa</i>	Poaceae	Fr A
MALAYSIA (Wilayah Persekutuan) 1986? (Agriculture & Arms Type of Johore 1986)				
8b	20c	Oil Palm, <i>Elaeis guineensis</i>	Arecaceae	Fr A
2002? (Agriculture & Arms Type of 1986 w/ denom in “Sen”)				
11a	10sen	Pepper, <i>Piper nigrum</i>	Piperaceae	Fr A
13a	20sen	Oil Palm, <i>Elaeis guineensis</i>	Arecaceae	Fr A
MEXICO 2016 April 28 (World Intellectual Property Day)				
2999	13.50p	Stylized Agave, <i>Agave</i> sp.	Asparagaceae	V A S
MOLDOVA 2016 April 15 (Flowers) (Set/6 & SS/6)				
904	10b	Imortelle, <i>Xeranthemum annuum</i>	Asteraceae	Fl A
905	25b	Chamomile, <i>Matricaria chamomilla</i> (=recutita)	Asteraceae	Fl A
906	11	Chicory, <i>Cichorium intybus</i>	Asteraceae	Fl A
907	21	Dandelion, <i>Taraxacum campylodes</i> (=officinale)	Asteraceae	Fl A
908	31	Yarrow, <i>Achillea millefolium</i>	Asteraceae	Fl A
909	51	Woodland Sage, <i>Salvia nemorosa</i>	Lamiaceae	Fl A
909a		SS/6+3 labels (Sc#904–09)		

MOLDOVA (continued)		2016 April 24 (Palm Sunday) (see Sc#912 & Sc#918)		
910	1.75l	Willow, <i>Salix</i> sp. U/I Palm	Salicaceae Arecaceae	Fl V B Fl V B U
		2016 May 27 (WWF Protected Flora) (Block/4)		
911a–d	11l	<i>Gladiolus imbricatus</i>	Iridaceae	Fl A
		2016 June 19 (Pentecost) (see Sc#910 & Sc#918)		
912	1.75l	Woodland Sage, <i>Salvia nemorosa</i> Walnut, Linden, <i>Juglans regia</i> Linden, <i>Tilia</i> sp.	Lamiaceae Juglandaceae Malvaceae	Fl V B Fl V B Fl V B
		2016 July 7 (Birth of John the Baptist) (see Sc#910 & Sc#912)		
918	1.75l	Bedstraw, <i>Galium verum</i> Wheat, <i>Triticum aestivum</i>	Rubiaceae Poaceae	Fl Fr B Fl Fr B
NEW CALEDONIA		2016 March 14 (Endemic Conifers & Palm Trees)		
1206	120fr	<i>Cyphophoenix nucele</i> Sapin de Comboui, <i>Callitris sulcata</i> <i>Clinosperma macrocarpa</i> Coast Araucaria, <i>Araucaria luxurians</i> <i>Agathis moorei</i>	Arecaceae Cupressaceae Arecaceae Araucariaceae Araucariaceae	T B T B T B T B T B
PANAMA		2015 December 1 (Sc#923a & b surch in silver)		
949a	1b on 30c	<i>Sterculia apetala</i>	Malvaceae	Fr T A
949b	1b on 30c	<i>Peristeria elata</i>	Orchidaceae	Fl A
952a	4b on 30c	<i>Sterculia apetala</i>	Malvaceae	Fr T A
952b	4b on 30c	<i>Peristeria elata</i>	Orchidaceae	Fl A
PAPUA NEW GUINEA		2014 (Sc#1356 & 1358 with sans-serif surch like Sc#1732H)		
1732V	40k	<i>Calophyllum inophyllum</i> (Sc#1358 surch)	Calophyllaceae	Fl A
1732W	45k	<i>Bixa orellana</i> (Sc#1356 surch)	Bixaceae	Fl A
PITCAIRN ISLAND		2016 October 19 (Ferns) (Set/4 & SS/2)		
821	20c	<i>Dicranopteris linearis</i>	Gleicheniaceae	V A
822	\$1	<i>Loxoscaphe gibberosum</i>	Aspleniaceae	V A
823	\$3	<i>Ctenitis cumingii</i>	Dryopteridaceae	V A
824	\$3.40	<i>Angiopteris chauliodonta</i>	Marattiaceae	V A
824a		SS/2 (Sc#823–24)		
POLAND		2016 (Fruit & Flowers Type of 2009) (Set/2)		
4235	2z	Iris, <i>Iris</i> sp.	Iridaceae	Fl A
4236	6z	Lily, <i>Lilium</i> sp.	Liliaceae	Fl A
SERBIA		2016 May 26 (European Nature Protection) (Set/2)		
743	50d	<i>Leucojum aestivum</i> (Kucaj-Beljanica Mountain Massif)	Amaryllidaceae	Fl B
SPAIN		2016 June 9 (Spanish Gastronomy) (SS/2)		
4127b	\$1.30	Saffron & Crocus from La Mancha, <i>Crocus sativus</i>	Amaryllidaceae	Fl A MS
SURINAM		2016 July 13 (Flowers) (Block/12)		
1497a	\$1.50	Pheasant's Eye, <i>Adonis annua</i>	Ranunculaceae	Fl A MS
1497b	\$1.75	Caper, <i>Capparis spinosa</i>	Capparaceae	Fl A MS
1497c	\$2.50	Lily-of-the Valley, <i>Convallaria majalis</i>	Asparagaceae	Fl A MS
1497d	\$2.75	Dogtooth Violet, <i>Erythronium dens-canis</i>	Liliaceae	Fl A MS
1497e	\$3.50	Bluebells, <i>Hyacinthoides</i> sp.	Asparagaceae	Fl A MS
1497f	\$3.75	English Iris, <i>Iris latifolia</i>	Iridaceae	Fl A MS
1497g	\$4.50	<i>Iris persica</i>	Iridaceae	Fl A MS

SURINAM (continued)

1497h	\$4.75	Grape Hyacinth, <i>Muscari latifolium</i>	Asparagaceae	Fl A MS
1497i	\$5.50	Opium Poppy, <i>Papaver somniferum</i>	Papaveraceae	Fl A MS
1497j	\$5.75	Tuberose, <i>Polianthes tuberosa</i>	Asparagaceae	Fl A MS
1497k	\$6.50	Spanish Broom, <i>Spartium junceum</i>	Fabaceae	Fl A MS
1497l	\$7.25	Nasturtium, <i>Tropaeolum majus</i>	Tropaeolaceae	Fl A MS

SWEDEN**2016 August 25** (Trees in Autumn) (Coil, Strip/5 & Bklt/10)

2784	(6.50k)	Yellow Birch, <i>Betula pendula</i> (coil) (s/a)	Betulaceae	T A
2785a	(6.50k)	U/I trees (external forest view)		T A U
2785b	(6.50k)	Mountain Ash or Rowan, <i>Sorbus</i> sp.	Rosaceae	T A
2785c	(6.50k)	U/I trees (with lake)		T A U
2785d	(6.50k)	U/I tree (single tree in field)		T A U
2785e	(6.50k)	U/I trees (internal forest view)		T A U
2785f		Bklt/10 (2ea Sc#2785a–e)		
2785		Vert Strip/5 (Sc#2785a–e)		

SWITZERLAND**2016 September 8** (Poppies)

Surtax was for Emergency Aid Fund for Victims of Compulsory Social Measures and Forced Fostering.

B782	100c+50c	Poppies, <i>Papaver rhoeas</i>	Papaveraceae	Fl B
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TANZANIA**1997** (Flower Type of 1997–2004)

1571A	350sh	Zinnia, <i>Zinnia elegans</i>	Asteraceae	Fl A
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2004 (Sc#1571 surch)

2337A	400sh	Canna, <i>Canna indica</i>	Cannaceae	Fl A
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TOKELAU**2016 October 5** (Tokelau Language Week) (Set/4 & SS/4)

461	40c	Coconut, <i>Cocos nucifera</i>	Arecaceae	Fr A
464	\$3	Breadfruit, <i>Artocarpus altilis</i>	Moraceae	Fr A
464a		SS/4 (Sc#461–64)		

TRISTAN DA CUNHA**2016** (Biodiversity) (Set/12)

1089	25p	Bog Fern, <i>Blechnum palmiforme</i>	Blechnaceae	V A
1090	25p	Devil's Fingers, <i>Lycopodium diaphanum</i>	Lycopodiaceae	V A
1094	45p	Gough Brass Button, <i>Cotula goughensis</i>	Asteraceae	Fl A

TURKEY**2016 April 23** (Expo 2016 Antalya) (Set/3)

3495	2.80l	Peony, <i>Paeonia kesrouanensis</i> (= <i>turcica</i>) (with emblem)	Paeoniaceae	Fl B
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UNITED NATIONS (New York)**2016 September 24** (World Wildlife Conference, Johannesburg) (MS/4)

1145d	\$1.15	<i>Disa uniflora</i>	Orchidaceae	Fl A
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UNITED NATIONS (Geneva)**2016 September 24** (World Wildlife Conference, Johannesburg) (MS/4)

628d	2fr	<i>Anacampseros</i> (= <i>Avonia</i>) <i>quinaraia</i>	Anacampserotaceae	Fl A
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UNITED NATIONS (Vienna)**2016 September 24** (World Wildlife Conference, Johannesburg) (MS/4)

596d	€1.70	<i>Mystacidium capense</i>	Orchidaceae	Fl A
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UZBEKISTAN**2016 May 23** (Flowers) (Set/2 & SS/1)

805	1300s	Caper, <i>Capparis spinosa</i>	Capparaceae	Fl A
806	1500s	Devil's Trumpet or Metel, <i>Datura metel</i>	Solanaceae	Fl A
807	2500s	Fernleaf Peony, <i>Paeonia tenuifolia</i>	Paeoniaceae	Fl A SS

STAMPED POSTAL CARD

The US Postal Service has announced that it plans to issue a new non-denominated (34c) stamped postal card as part of its 2017 stamp program. It will be the first postal card issued by the USPS in about two years. No issue date has yet been set.



The new postal card features an illustration of a Chilean Blue Crocus (*Tecophilaea cyanocrocus*) from pre-existing artwork by illustrator and designer Dugald Stermer (1936–2011). His penciled calligraphy under the flower indicates one of its common names Azulillo—loosely translated from Spanish, it means “little blue thing”—with its botanical name above.

The Chilean Blue Crocus has brilliant blue flowers and is hardy in seven of nine U.S. Department of Agriculture zones. It generally flowers in February or March in North America. Despite its common name, it is not a true crocus at all. Instead, it belongs to the family Tecophilaeaceae.

It grows on stems up to four inches (10 cm) tall, with one to three linear fleshy leaves. The single flowers are approximately one inch (2.5 cm) across, goblet shaped, and are an unusual deep gentian blue color, with a whitish center. The root is a nearly sphere-shaped corm with a fibrous cover.

The flower is native to central Chile and was only known to grow in the range of hills around Santiago at about 3,000 meters above sea level. It was thought to be extinct in the wild due to over-collecting, over-grazing, and habitat destruction. However, in the spring of 2001, a large population was discovered on private land south of Santiago.



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

2016 May 5 (Mushrooms) (MS/4 & SS/1) (DJB16302a&b)

954a	280fr	Yellowfoot or Funnel Chanterelle, <i>Craterellus tubaeformis</i>	Cantharellaceae	A
954b	280fr	Matsutake or Pine Mushroom, <i>Tricholoma matsutake</i>	Tricholomataceae	A
954c	280fr	Chanterelle or Girolle, <i>Cantharellus cibarius</i>	Cantharellaceae	A
954d	280fr	Wine Cap Stropharia, <i>Stropharia rugosoannulata</i>	Strophariaceae	A
		(Cap: <i>Stropharia rugoso</i>)	Strophariaceae	A
974	SS 960fr	Penny Bun, Cep, Porcino or Porcini; <i>Boletus edulis</i>	Boletaceae	A
	Margin	LL: Same species		

DJIBOUTI

2016 September 26 (Mushrooms) (MS/4 & SS/1)

1037a	260fr	Netted Rhodotus or Rosy Veinca, <i>Rhodotus palmatus</i>	Physalacriaceae	A
1037b	260fr	Bamboo Fungus or Veiled Lady, <i>Phallus indusiatus</i>	Phallaceae	A
1037c	260fr	Saffron Milk Cap or Red Pine Mushroom, <i>Lactarius deliciosus</i>	Russulaceae	A
1037d	260fr	Rough-stemmed Bolete or Birch Bolete, <i>Leccinum scabrum</i>	Boletaceae	A
1056	SS 960fr	Morel or Sponge Morel, <i>Morchella esculenta</i>	Morchellaceae	A
	Margin	UL: Fleecy Milk-cap, <i>Lactifluus vellereus</i>	Russulaceae	Z
		UR: Porcelain Fungus, <i>Oudemansiella mucida</i>	Physalacriaceae	Z
		Bot: Orange Peel Fungus, <i>Aleuria aurantia</i>	Pyronemataceae	Z

ESTONIA

2016 September 8 (Mushroom)

824	65c	Fly Agaric or Fly Amanita, <i>Amanita muscaria</i> (☠)	Amanitaceae	A
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MACEDONIA

2016 May 10 (Europa: Flora & Fauna) (SS/1)

713	Margin	LL: U/I Boletes (with bear)	Boletaceae	U Z
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IMPORTANCE OF FUNGI IN HUMAN LIFE

Although we often think of fungi as organisms that cause disease and rot food, fungi are important to human life on many levels. They influence the well-being of human populations on a large scale because they are part of the nutrient cycle in ecosystems. They also have other ecosystem uses, such as pesticides.

Biological Insecticides

As animal pathogens, fungi help to control the population of damaging pests. These fungi are very specific to the insects they attack. They do not infect other animals or plants. Fungi are currently under investigation as potential microbial insecticides, with several already on the market. For example, the fungus *Beauveria bassiana* is being tested as a possible biological control agent for the recent spread of Emerald Ash Borer (*Agilus planipennis*).

Farming

The mycorrhizal relationship between fungi and plant roots is essential for the productivity of farm land. Without the fungal partner in root systems, 80–90 percent of trees and grasses would not survive. Mycorrhizal fungal inoculants are available as soil additives from gardening supply stores and supporters of organic agriculture.

Food

Fungi figure prominently in the human diet. Morels, shiitake mushrooms, chanterelles, and truffles are considered delicacies. The Meadow Mushroom (*Agaricus campestris*) appears in many dishes. Molds of the genus *Penicillium* ripen many cheeses. They originate in the natural environment such as the caves of Roquefort, France, where wheels of sheep milk cheese are stacked to capture the molds responsible for the blue veins and pungent taste of the cheese.

Fermentation of grains to produce beer and of fruits to produce wine is an ancient art that humans in most cultures have practiced for millennia. Ancient humans acquired wild yeasts from the environment and used them to ferment sugars into carbon dioxide and ethanol under anaerobic conditions.

It is now possible to purchase isolated strains of wild yeasts from different wine-making regions. Louis Pasteur was instrumental in developing a reliable strain of Brewer's Yeast (*Saccharomyces cerevisiae*) for the French brewing industry in the late 1850s.

Saccharomyces cerevisiae, also known as baker's yeast, is an important ingredient in bread, a food that has been considered a staple of human life for thousands of years. Before isolated yeast became available in modern times, humans simply let the dough collect yeast from the air and rise over a period of hours or days. A small piece of this leavened dough was saved and used as a starter (source of the same yeast) for the next batch, much in the same way sourdough bread is made today.

Medicine

Many secondary metabolites of fungi are of great commercial importance. Fungi naturally produce antibiotics to kill or inhibit the growth of bacteria, limiting their competition in the natural environment. Important antibiotics, such as penicillin and the cephalosporins, can be isolated from fungi.

Valuable drugs isolated from fungi include the immunosuppressant drug cyclosporine (which reduces the risk of rejection after organ transplant), the precursors of steroid hormones, and ergot alkaloids used to stop bleeding.

Psilocybin is a compound found in fungi such as *Psilocybe semilanceata* and *Gymnopilus junonius*, which have been used for their hallucinogenic properties by various cultures for thousands of years.

As simple eukaryotic organisms, fungi are important model research organisms. Many advances in modern genetics were achieved by the use of the Red Bread Mold *Neurospora crassa*. Additionally, many important genes originally discovered in *S. cerevisiae* served as a starting point in discovering analogous human genes. As a eukaryotic organism, the yeast cell produces and modifies proteins in a manner similar to human cells. This makes yeast a much better organism for use in recombinant DNA technology experiments.

Source: "Importance of Fungi in Human Life." *Boundless Biology*. Boundless, 20 Sep 2016. Retrieved 17 Feb 2017, from <https://www.boundless.com/biology/textbooks/boundless-biology-textbook/fungi-24/importance-of-fungi-in-human-life-153/importance-of-fungi-in-human-life-601-12945/>.



MAMMALIA

Editor

Michael Prince, LM68



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AUSTRALIA 2016 September 20 (Endangered Animals) (SS/7 & Strip/4)				
4538	50c	Northern Quoll, <i>Dasyurus hallucatus</i>	Dasyuridae	(new) A
4539	\$1	Snow Leopard, <i>Panthera uncia</i>	Felidae	A
4541	\$1	Western Gorilla, <i>Gorilla gorilla</i>	Hominidae	A
4542	\$1	Asiatic Elephant, <i>Elephas maximus</i>	Elephantidae	A
4543a		SS/7 (Sc#4537–43) (perf 14×14¾, 13¾×14)		
4544	\$1	Snow Leopard, <i>Panthera uncia</i>	Felidae	A
4546	\$1	Western Gorilla, <i>Gorilla gorilla</i>	Hominidae	A
4547	\$1	Asiatic Elephant, <i>Elephas maximus</i>	Elephantidae	A
4547a		Horiz coil strip/4 (Sc#4544–47) (s/a) (die cut 11¼)		
4547b		Bklt/20 (6ea Sc#4544–45 & 4ea Sc#4546–47) (s/a) (die cut 11¼)		
2016 September 26 (Monotremes Silhouettes) (SS/2 & 2ea Bklt/5)				
4549	\$2.10	Platypus, <i>Ornithorhynchus anatinus</i>	Ornithorhynchidae	G A
4550	\$2.95	Short-beaked Echidna, <i>Tachyglossus aculeatus</i>	Tachyglossidae	G A
4550a		SS/2 (Sc#4549–50) (perf 14¼×14)		
4551	\$2.10	Platypus, <i>Ornithorhynchus anatinus</i>	Ornithorhynchidae	G A
4551a		Bklt/5 (Sc#4551) (die cut 11¼ syncopated) (s/a)		
4552	\$2.95	Short-beaked Echidna, <i>Tachyglossus aculeatus</i>	Tachyglossidae	G A
4552a		Bklt/5 (Sc#4552) (die cut 11¼ syncopated) (s/a)		
4553	\$2.10	Platypus, <i>O. anatinus</i> (die cut 11½×11¼ w/ personalized tab)	Ornithorhynchidae	G A
4554	\$2.95	Short-beaked Echidna, <i>T. aculeatus</i> (die cut 11½×11¼ w/ tab)	Tachyglossidae	G A
AUSTRIA 2016 October 22 (Badger)				
2639	160c	Eurasian Badger, <i>Meles meles</i>	Mustelidae	A
AZERBAIJAN 2016 September 5 (WWF) (Block/4 & SS/4)				
1117a	50g	Pallas's Cat, <i>Felis manul</i> (one facing left)	Felidae	A
1117b	50g	Same species (one facing right)		A
1117c	50g	Same species (two cats)		A
1117d	50g	Same species (three cats)		A
1117e		SS/4 (Sc#117a–d)		
BELGIUM 2016 August 22 (Endangered Animals) (MS/5)				
2798a	(€1.13)	White Rhinoceros, <i>Ceratotherium simum</i>	Rhinocerotidae	A
2798b	(€1.13)	Western Gorilla, <i>Gorilla gorilla</i>	Hominidae	A
2798c	(€1.13)	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A
2798d	(€1.13)	Polar Bear, <i>Ursus maritimus</i>	Ursidae	A
2798e	(€1.13)	Tiger, <i>Panthera tigris</i>	Felidae	A
BHUTAN 2015 November 11 (WWF) (MS/8 & SS/1)				
1538a	30nu	Wild Water Buffalo, <i>Bubalus arnee</i>	Bovidae	A
1538b	30nu	Red Panda, <i>Ailurus fulgens</i>	Ailuridae	A
1538c	30nu	Snow Leopard, <i>Panthera uncia</i>	Felidae	A
1538e	30nu	Asiatic Elephant, <i>Elephas maximus</i>	Elephantidae	A

BHUTAN (continued)

1538g	30nu	Gee's Golden Langur, <i>Trachypithecus geei</i>	Cercopithecidae	A
1538h	30nu	Tiger, <i>Panthera tigris</i>	Felidae	A
1539	SS 50nu	Bharal, <i>Pseudois nayaur</i>	Bovidae	A

BOSNIA & HERZEGOVINA (Serb) 2016 October 14 (River Fauna) (Set/5)

550	10pf	Eurasian Beaver, <i>Castor fiber</i>	Castoridae	A
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BOTSWANA**2015 July 15** (Buffalos) (Set/4 & SS/4)

979	4p	African Buffalo, <i>Syncerus caffer</i> (head) (perf 13¾×13¼)	Bovidae	A
980	5.90p	African Buffalo, <i>Syncerus caffer</i> (two bulls) (perf 13¾×13¼)	Bovidae	A
981	7.80p	African Buffalo, <i>Syncerus caffer</i> (herd) (perf 13¾×13¼)	Bovidae	B
		Lion, <i>Panthera leo</i>	Felidae	B
982	10p	African Buffalo, <i>Syncerus caffer</i> (with calf) (perf 13¾×13¾)	Bovidae	A
982a		SS/4 (Sc#979–82) (perf 14)		

2015 November 20 (Vervet Monkeys) (Set/4 & 2ea SS/4)

988	4p	Vervet Monkey, <i>Chlorocebus pygerythrus</i>	Cercopithecidae	A
989	5.90p	Same species		A
990	7.80p	Same species		A
991	10p	Same species		A
991a		SS/4 (Sc#988–91)		
991b		SS/4 (Sc#988–91) (ovpt Thailand 2016 emblem)		

CUBA**2015 April 15** (Wild Cats) (Set/6 & SS/1)

5664	15c	Jaguar, <i>Panthera onca</i>	Felidae	A
5665	35c	Puma, <i>Puma concolor</i>	Felidae	A
5666	50c	Tiger, <i>Panthera tigris</i>	Felidae	A
5667	65c	Lion, <i>Panthera leo</i>	Felidae	A
5668	75c	Cheetah, <i>Acinonyx jubatus</i>	Felidae	A
5669	85c	Leopard, <i>Panthera pardus</i>	Felidae	A
5670	SS 1p	Wild Cat, <i>Felis silvestris</i>	Felidae	A

2016 March 10 (Fauna) (Set/4)

5777	90c	American Bison, <i>Bison bison</i>	Bovidae	A
5778	90c	Ocelot, <i>Leopardus pardalis</i>	Felidae	A
5780	90c	West Indian Manatee, <i>Trichechus manatus</i>	Trichechidae	A

2016 May 23 (Extinct & Endangered Hutias) (Set/6 & SS/1)

5806	5c	San Felipe Hutia, <i>Mesocapromys sanfelipensis</i>	Capromyidae	A
5807	15c	Dwarf Hutia, <i>Mesocapromys nanus</i>	Capromyidae	A
5808	35c	Cabrera's Hutia, <i>Mesocapromys angelcabrerai</i>	Capromyidae	(new) A
5809	45c	Eared Hutia, <i>Mesocapromys auritus</i>	Capromyidae	(new) A
5810	75c	Black-tailed Hutia, <i>Mysateles melanurus</i>	Capromyidae	A
5811	85c	Prehensile-tailed Hutia, <i>Mysateles prehensilis</i>	Capromyidae	A
5812	SS 1p	Desmarest's Hutia, <i>Capromys pilorides</i>	Capromyidae	A

CZECH REPUBLIC**2016 September 7** (Animals in Czech Republic Zoos) (MS/4+2 labels)

3685a	16k	Snow Leopard, <i>Panthera uncia</i>	Felidae	A
3685b	20k	Gemsbok, <i>Oryx gazella</i>	Bovidae	A
		Lion, <i>Panthera leo</i>	Felidae	A
3685c	24k	Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae	A
		African Wild Dog, <i>Lycaon pictus</i>	Canidae	A
3685d	27k	Przewalski's Horse, <i>Equus ferus przewalskii</i>	Equidae	A
3685	L label	Cheetah, <i>Acinonyx jubatus</i>	Felidae	Z
3685	R label	Buff-cheeked Gibbon, <i>Nomascus gabriellae</i>	Hylobatidae	Z

CZECH REPUBLIC (continued)

3685	Margin	UR: Golden Lion Tamarin, <i>Leontopithecus rosalia</i>	Callitrichidae	Z
		UL: Asiatic Elephant, <i>Elephas maximus</i>	Elephantidae	Z
		MR: Geoffrey's Marmoset, <i>Callithrix geoffroyi</i>	Callitrichidae	Z
		ML: South African Fur Seal, <i>Arctocephalus pusillus</i>	Otariidae	Z
		ML: Okapi, <i>Okapia johnstoni</i>	Giraffidae	Z
		LR: Ring-tailed Lemur, <i>Lemur catta</i>	Lemuridae	Z
		LL: Meerkat, <i>Suricata suricatta</i>	Herpestidae	Z

DJIBOUTI

2016 January 25 (Fauna) (MS/4 & SS/1)

858a	260fr	Ring-tailed Lemur, <i>Lemur catta</i>	Lemuridae	A
858b	260fr	Golden Lion Tamarin, <i>Leontopithecus rosalia</i>	Callitrichidae	A
858c	260fr	Japanese Macaque, <i>Macaca fuscata</i>	Cercopithecidae	A
858d	260fr	Mandrill, <i>Mandrillus sphinx</i>	Cercopithecidae	A
877	SS 960fr	White-faced Capuchin, <i>Cebus capucinus</i>	Cebidae	A
	Margin	R: Philippine Tarsier, <i>Carlito syrichta</i>	Tarsiidae	Z
859a	260fr	Brown Big-eared Bat, <i>Plecotus auritus</i>	Vespertilionidae	A
859b	260fr	Buffy Flower Bat, <i>Erophylla sezekorni</i>	Phyllostomidae	A
859c	260fr	Little Yellow-shouldered Bat, <i>Sturnira lilium</i>	Phyllostomidae	A
859d	260fr	Vampire Bat, <i>Desmodus rotundus</i>	Phyllostomidae	A
878	SS 960fr	Golden Capped Fruit Bat, <i>Acerodon jubatus</i>	Pteropodidae	(new) A
	Margin	Top: Vampire Bat, <i>Desmodus rotundus</i>	Phyllostomidae	Z
		R: Large Flying Fox, <i>Pteropus vampyrus</i>	Pteropodidae	Z
860a	260fr	Tiger, <i>Panthera tigris</i>	Felidae	A
860b	260fr	Leopard, <i>Panthera pardus</i>	Felidae	A
860c	260fr	Jaguar, <i>Panthera onca</i>	Felidae	A
860d	260fr	Lion, <i>Panthera leo</i>	Felidae	A
879	SS 960fr	Puma, <i>Puma concolor</i>	Felidae	A
	Margin	UR: Snow Leopard, <i>Panthera uncia</i>	Felidae	Z
861a	260fr	Masai Lion, <i>Panthera leo nubica</i>	Felidae	A
861b	260fr	Southwest African Lion, <i>Panthera leo bleyenberghi</i>	Felidae	A
861c	260fr	Lion, <i>Panthera leo</i>	Felidae	A
861d	260fr	Congo Lion, <i>Panthera leo azandica</i>	Felidae	A
880	SS 960fr	West African Lion, <i>Panthera leo senegalensis</i>	Felidae	A
	Margin	LR: Transvaal Lion, <i>Panthera leo krugeri</i>	Felidae	Z
862a	260fr	Dugong, <i>Dugong dugon</i> (swimming to right)	Dugongidae	A
862b	260fr	Same species (two w/ calf)		A
862c	260fr	Same species (facing forward)		A
862d	260fr	Same species (feeding)		A
881	SS 960fr	Dugong, <i>Dugong dugon</i>	Dugongidae	A
	Margin	UR & LR: Same species (4ea)		Z
863a	260fr	Long-beaked Common Dolphin, <i>Delphinus capensis</i>	Delphinidae	A
863b	260fr	Dusky Dolphin, <i>Lagenorhynchus obscurus</i>	Delphinidae	A
863c	260fr	Atlantic Spotted Dolphin, <i>Stenella frontalis</i>	Delphinidae	A
863d	260fr	Short-beaked Common Dolphin, <i>Delphinus delphis</i>	Delphinidae	A
882	SS 960fr	Striped Dolphin, <i>Stenella coeruleoalba</i>	Delphinidae	A
	Margin	UR: Beluga, <i>Delphinapterus leucas</i>	Monodontidae	Z
		LR: Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	Z
864a	260fr	Beluga, <i>Delphinapterus leucas</i>	Monodontidae	A
864b	260fr	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	A
864c	260fr	Southern Right Whale, <i>Eubalaena australis</i>	Balaenidae	A
864d	260fr	Sperm Whale, <i>Physeter catodon</i>	Physteridae	A

DJIBOUTI (continued)

883	SS 960fr	Sperm Whale, <i>Physeter catodon</i>	Physeteridae	A
	Margin	Top & R: Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	Z

2016 July 28 (Dolphins)

999a	260fr	Spinner Dolphin, <i>Stenella longirostris</i>	Delphinidae	A
999b	260fr	Common Bottlenose Dolphin, <i>Tursiops truncatus</i> (one)	Delphinidae	A
999c	260fr	Striped Dolphin, <i>Stenella coeruleoalba</i>	Delphinidae	A
999d	260fr	Common Bottlenose Dolphin, <i>Tursiops truncatus</i> (two)	Delphinidae	A
	Margin	UL: Spinner Dolphin, <i>Stenella longirostris</i>	Delphinidae	Z
1018	SS 960fr	Pink River Dolphin, <i>Inia geoffrensis</i> (also in margin)	Iniidae	A Z

2016 September 26 (Fauna)

1021a	260fr	Polar Bear, <i>Ursus maritimus</i> (jaws open)	Ursidae	A
1021b	260fr	Same species (one facing right)		A
1021c	260fr	Same species (three bears)		A
1021d	260fr	Same species (one facing left)		A
1040	SS 960fr	Polar Bear, <i>Ursus maritimus</i> (also in Top & R margin)	Ursidae	A Z
1022a	260fr	Hippopotamus, <i>Hippopotamus amphibious</i> (facing left)	Hippopotamidae	A
1022b	260fr	Same species (jaws open facing right)		A
1022c	260fr	Same species (with calf)		A
1022d	260fr	Same species (jaws open facing left)		A
1041	SS 960fr	Hippopotamus, <i>Hippopotamus amphibious</i> (also in margin)	Hippopotamidae	A Z
1023a	260fr	Giant Panda, <i>Ailuropoda melanoleuca</i> (eating)	Ursidae	A
1023b	260fr	Red Panda, <i>Ailurus fulgens</i> (facing left)	Ailuridae	A
1023c	260fr	Red Panda, <i>Ailurus fulgens</i> (facing right)	Ailuridae	A
1023d	260fr	Giant Panda, <i>Ailuropoda melanoleuca</i> (with cub)	Ursidae	A
1042	SS 960fr	Giant Panda, <i>Ailuropoda melanoleuca</i>	Ursidae	A
	Margin	R: Red Panda, <i>Ailurus fulgens</i> (4ea)	Ailuridae	Z
1024a	260fr	Siberian Tiger, <i>Panthera tigris altaica</i> (head)	Felidae	A
1024b	260fr	Tiger, <i>Panthera tigris tigris</i> (jaws open)	Felidae	A
1024c	260fr	Tiger, <i>Panthera tigris tigris</i> (facing right)	Felidae	A
1024d	260fr	Siberian Tiger, <i>Panthera tigris altaica</i> (walking left)	Felidae	A
1043	SS 960fr	Siberian Tiger, <i>Panthera tigris altaica</i> (also in R margin)	Felidae	A Z
1026a	260fr	African Bush Elephant, <i>Loxodonta africana</i> (rubbing tree)	Elephantidae	A
1026b	260fr	Same species (two animals)		A
1026c	260fr	Same species (with handler)		A
1026d	260fr	African Forest Elephant, <i>Loxodonta cyclotis</i>	Elephantidae	A
1045	SS 960fr	Asiatic Elephant, <i>Elephas maximus</i> (also in R margin)	Elephantidae	A Z

ESTONIA**2016 August 25** (Mouse)

823	85c	Northern Birch Mouse, <i>Sicista betulina</i>	Muridae	A
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FALKLAND ISLANDS**2016 August 1** (Dolphins & Whales Type of 2012)

1172	31p	Southern Right Whale, <i>Eubalaena australis</i>	Balaenidae	A
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FIJI**2016 March 30** (New Year 2016: Year of the Monkey) (Strip/4 + label)

1348a	38c	Stump-tailed Macaque, <i>Macaca arctoides</i>	Cercopithecidae	A
1348b	47c	Tonkin Snub-nosed Monkey, <i>Rhinopithecus avunculus</i>	Cercopithecidae	A
1348c	85c	Rhesus Macaque, <i>Macaca mulatta</i>	Cercopithecidae	A
1348d	\$10	White-headed Langur, <i>Trachypithecus poliocephalus</i>	Cercopithecidae	A

FRANCE (UNESCO)**2016 September 9** (Florida Panther)

2077	€1	Puma, <i>Puma concolor</i>	Felidae	A
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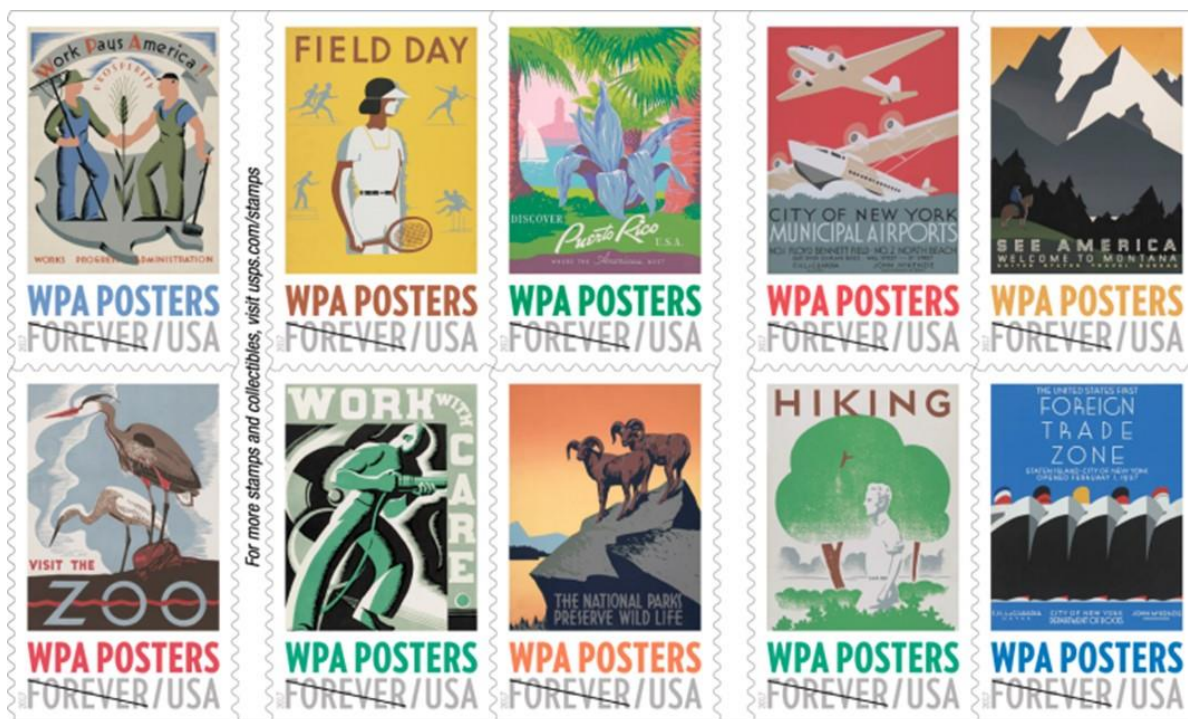
MACEDONIA		2016 April 26 (Hamster)			
706	81d	Golden Hamster, <i>Mesocricetus auratus</i>	Muridae	(new)	A
		2016 May 10 (Europa) (Set/2 & SS/1)			
710	50d	Red Fox, <i>Vulpes vulpes</i>	Canidae		C
713	SS 144d	Brown Bear, <i>Ursus arctos</i>	Ursidae		A
	Margin	Bot: Eurasian Badger, <i>Meles meles</i>	Mustelidae		Z
MALAYSIA		2016 January 26 (Primates) (Set/3 & SS/2)			
1583	60s	Pigtail Macaque, <i>Macaca nemestrina</i>	Cercopithecidae		A
1584	70s	Silvered Leaf Monkey, <i>Trachypithecus cristatus</i>	Cercopithecidae		A
1585	80s	White-handed Gibbon, <i>Hylobates lar</i>	Hylobatidae		A
a	\$3	Agile Gibbon, <i>Hylobates agilis</i> (one animals)	Hylobatidae		A
b	\$3	Agile Gibbon, <i>Hylobates agilis</i> (three animals)	Hylobatidae		A
1587	SS/2				
		2016 August 23 (Flora & Fauna) (SS/1 & MS/7)			
1611	SS \$2	Giant Panda, <i>Ailuropoda melanoleuca</i>	Ursidae		A
1612	30c	Lesser Mouse-deer, <i>Tragulus kanchil</i> (also in margin)	Cervidae	(new)	A
NEVIS		2016 January 28 (Dolphins) (MS/6 & SS/1)			
1898a	\$4	Rough-toothed Dolphin, <i>Steno bredanensis</i>	Delphinidae		A
1898b	\$4	Atlantic Spotted Dolphin, <i>Stenella frontalis</i>	Delphinidae		A
1898c	\$4	Striped Dolphin, <i>Stenella coeruleoalba</i>	Delphinidae		A
1898d	\$4	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae		A
1898e	\$4	Risso's Dolphin, <i>Grampus griseus</i>	Delphinidae		A
1898f	\$4	Fraser's Dolphin, <i>Lagenodelphis hosei</i>	Delphinidae		A
1899	SS \$10	Short-beaked Common Dolphin, <i>Delphinus delphis</i>	Delphinidae		A
NEW CALEDONIA		2016 February 8 (New Year 2016: Year of the Monkey)			
1205	110fr	Agile Gibbon, <i>Hylobates agilis</i>	Hylobatidae		A
NIUE		2016 May 4 (Humpback Whales) (Set/ & SS/4)			
935	30c	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae		A
936	\$1.40	Same species			A
937	\$2	Same species			A
938	\$4	Same species			A
938a	SS/4	(Sc#935–38)			
SERBIA		2016 April 27 (Fauna) (Horiz strip/4 + label)			
740a	23d	Eurasian Beaver, <i>Castor fiber</i>	Castoridae		A
740d	70d	European Otter, <i>Lutra lutra</i>	Mustelidae		A
TANZANIA		2013 August 1 (Surcharges)			
2713	500sh	Blue Wildebeest, <i>Connochaetes taurinus</i> (Sc#2511 surch)	Bovidae		B
		Common Zebra, <i>Equus quagga</i>	Equidae		B
2714	500sh	Common Chimpanzee, <i>Pan troglodytes</i> (Sc#2580 surch)	Hominidae		A
TRISTAN DA CUNHA		2016 November 30 (Biodiversity) (Set/12)			
1099	£2	Sub-Antarctic Fur Seal, <i>Arctocephalus tropicalis</i>	Otariidae		A
VIETNAM		2016 September 1 (WWF) (Set/4 & SS/8)			
3553	3000d	Oriental Small-clawed Otter, <i>Aonyx cinerea</i> (two in water)	Mustelidae		A
3554	3000d	Same species (eating fish)			A
3555	4500d	Same species (two on shore)			A
3556	8500d	Same species (two on rocks)			A
3556a	SS/8	(2ea Sc#3553–56)			

WPA POSTERS

The U.S. Postal Service will celebrate posters of the Work Projects Administration (WPA), striking and utilitarian artworks created by the Poster Division of the WPA Federal Art Project, with a self-adhesive booklet pane of 20 stamps containing ten different designs. The stamps will be issued on 7 March 2017, at the Franklin D. Roosevelt Presidential Library and Museum in Hyde Park, New York. The stamps will be on sale nationwide the same day. Each stamp pays the First Class “Forever” rate, currently 49 cents.

The USPS will also produce ten different Digital Color Postmarks for First Day Covers.

Each stamp features a vibrant example of the posters conceived and printed in workshops across the nation under the WPA, a broad-reaching program that provided millions of jobs during the Great Depression. Formed in 1935 as the Works Progress Administration and renamed the Work Projects Administration in 1939, the WPA operated until 1943.



The poster images used are from the Library of Congress, Prints & Photographs Division, WPA Poster Collection. The Library of Congress says that 2,000 different WPA posters are known to exist.

Antonio Alcalá served as the art director and designed the stamps with Maribel O. Gray. The stamps are produced using the Offset process by Ashton Potter, Ltd., at Williamsville, New York. The print run is 100 million stamps.

Half of the ten stamps show designs relating to the **Biology** topic. One poster created by Vera Bock shows a farmer and a factory worker with a stylized stalk of corn. Another promotes tourism in Puerto Rico with a colorful plant and palm trees and the Morro Fortress in the background.

A poster encouraging people to visit the zoo is decorated with a pair of herons, and two bighorn sheep are shown on another poster designed by J. Hirt publicizing the national parks. A poster promoting the benefits of hiking shows some stylized trees and shrubs.

Reproduction prints of these and other attractive WPA posters can be found offered by several on-line art sites.



ORNITHOLOGY

Editor

Glenn G. Mertz, BU1455

Corrections/Updates



DJIBOUTI – Vol. 65(2), p.109

Correction: Under listing for Sunbirds, fourth listing stamp, 260fr value, two birds are shown on the stamp. I listed the bird on left, Plain-throated Sunbird, but missed the bird on the right side of the stamp. It is a Tacazze Sunbird (*Nectarinia tacazze*).

INDIA

Correction: A definitive bird stamp issued by India on 15 July 1975, a 50p value (Sc#679) that was originally listed as a Demoiselle Crane (*Anthropoides virgo*) by Chris Gibbons, and was also listed as a Common Crane (*Grus grus*) in the American Topical Association (ATA) Handbook #106, *Birds of the World in Philately*, by Beverly S. Ridgely and Gustavs E. Eglajs, published in 1984. Chris Gibbons, author of the website, *Birds of the World*, has now changed this to an Intermediate Egret, based on information he obtained from photographer, Peter Jackson, who stated it was an egret he took the photo at Bharatpur in India. Therefore, for those collectors out there that have this stamp in your collection, change the bird name to an Intermediate Egret (*Mesophoyx intermedia*). The *Scott Catalogue* has this stamp listed as a “flying crane.”

NEW CALEDONIA – Vol. 63(3), p.183

Correction: Correct value for Horned Parakeet to 120fr.

NIGER – Vol. 65(2), p.141

Correction: Standard-winged Nightjar genus name should be *Caprimulgus*.

NIGER – Vol. 65(2), p.117

Update: Sc#1283b, 750fr, add Vol. 63(1) after both listings. Both currently list **new** after the family names.

SOLOMON ISLANDS – Vol. 64(4), p.259

Update: SS, Sc#1395, add Vol. 63(1) after the listing.

SURINAME – Vol. 63(3), p.187

Correction: Sc#1461b was incorrectly listed as Plumbeous Euphonia (*Euphonia plumbea*). Correct to Finsch's Euphonia (*Euphonia finschi*) and add Vol. 63(2) after listing, and correct family of Fringillidae. On page 121, of Vol. 63(2), in the *New Birds in the Philatelic Aviary* listing, change family name to Fringillidae, because Thraupidae is incorrect.

URUGUAY – Vol. 65(3), p.216

Update: Update Sc#2514e with Vol. 64(3) as part of the listing.

New Issues

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ARUBA				
2016 August 31 (Birds) (Set/8)				
506	50c	Tricolored Heron, <i>Egretta tricolor</i>	Ardeidae	A
507	85c	Snowy Egret, <i>Egretta thula</i>	Ardeidae	
508	90c	Roseate Spoonbill, <i>Platalea ajaja</i>	Threskiornithidae	
509	100c	Blue-winged Teal, <i>Anas discors</i>	Anatidae	
510	130c	Scarlet Ibis, <i>Threskiornis aethiopicus</i>	Threskiornithidae	
511	220c	Black Skimmer, <i>Rynchops niger</i>	Laridae	
512	250c	Ruby-topaz Hummingbird, <i>Chrysolampis mosquitus</i>	Trochilidae	
513	325c	Whistling Heron, <i>Syrigma sibilatrix</i>	Ardeidae	

- AUSTRALIA** **2016 September 20** (Endangered Animals) (Pair & SS/7) **A**
- 4537 50c Orange-bellied Parrot, *Neophema chrysogaster* Psittaculidae
 4538a 100c Horiz pair (Sc#4537–38)
 4543a SS/7 (Sc#4537–43)
- BANGLADESH** **2016 May 28** (Striking Color Birds of Bangladesh) (MS/8) **A**
 Issued for World Stamp Show New York 2016. Each bird depicted within a circle.
- 852a 10t Nutmeg Mannikin, *Lonchura punctulata* Estrildidae
 852b 10t Coppersmith Barbet, *Psilopogon haemacephala* Megalaimidae
 (Cap: *Megalaima haemacephala*)
 852c 10t Green Bee-eater, *Merops orientalis* Meropidae
 852d 10t Eastern Crimson Sunbird, *Aethopyga siparaja* Nectariniidae
 852e 10t Scarlet-backed Flowerpecker, *Dicaeum cruentatum* Dicaeidae
 852f 10t Asian Emerald Dove, *Chalcophaps indica* Columbidae
 852g 10t Orange Minivet, *Pericrocotus flammeus* Campephagidae
 852h 10t Black-hooded Oriole, *Oriolus xanthornus* Oriolidae
- BELARUS** **2015 December 15** (Paintings) (SS/6) **A**
 SS/6 se-tenant stamps with two featuring birds, for nature motifs in paintings by Belarussian and Chinese artists.
- 968b (9300r) Red-crowned Crane, *Grus japonensis* (denom “N”) Gruidae
 968f (14400r) Same species (denom “P”)
- 2016 March 17** (Bird of the Year) **A**
- 979 (12600r) Common Goldeneye, *Bucephala clangula* (denom “H”) Anatidae
- 2016 May 12** (Eagles) (Pair) **A**
 Joint issue with Azerbaijan. Denominated with the letter “H.” See Azerbaijan (Sc#112a–b) in Vol. 65(4), p.283.
- 984a (12600r) Steppe Eagle, *Aquila nipalensis* Accipitridae
 984b (12600r) Golden Eagle, *Aquila chrysaetos* Accipitridae
- BELGIUM** **2016 June 13** (Birds & Flowers of Zwin Nature Park) (MS/10) **A**
 MS/10 with five stamps featuring birds in the top half of the sheet. Each stamp denominated with a “1” in a circle.
- 2793a (74c) Common Shelduck, *Tadorna tadorna* Anatidae
 2793b (74c) Common Tern, *Sterna hirundo* Laridae
 2793c (74c) Barn Swallow, *Hirundo rustica* Hirundinidae
 2793d (74c) Pied Avocet, *Recurvirostra avosetta* Recurvirostridae
 2793e (74c) Eurasian Spoonbill, *Platalea leucorodia* Threskiornithidae
- BHUTAN** **2014 May 10** (Flora & Fauna) (SS/1) **A**
- 1493 SS 50nu White-bellied Heron, *Ardea insignis* Ardeidae Vol. 63(4)
- 2015 November 11** (Bird Conservation) (MS/8 & SS/2) **A**
 One stamp with emblem for “Royal Society for Protection of Nature” and one with dancers in crane costumes.
- 1536a 15nu Black-necked Crane, *Grus nigricollis* (four cranes) Gruidae
 1536b 15nu Same species (two on ground)
 1536d 15nu Same species (two in flight)
 1536e 15nu White-bellied Heron, *Ardea insignis* Ardeidae
 1536f 15nu Black-necked Crane, *Grus nigricollis* Gruidae
 1536h 15nu Same species (two with people of Phobji Gewog)
 1537a SS 50nu Black-necked Crane, *Grus nigricollis* (three in flight) Gruidae
 1537b SS 50nu White-bellied Heron, *Ardea insignis* Ardeidae
- 2015 November 11** (WWF) (MS/8) **A**
- 1538f 30nu White-bellied Heron, *Ardea insignis* Ardeidae

BOSNIA & HERZEGOVINA (Serb) 2016 May 16 (Nature Protection) (Pair) **A**
 Printed in sheets of four each (Sc#544a–b) plus two labels. Only one shows a bird.

544a 90pf Black Stork, *Ciconia nigra* Ciconiidae

BOTSWANA 2015 September 28 (Vultures) (Set/5 & SS/5) **A**

983 4p Lappet-faced Vulture, *Torgos tracheliotos* Accipitridae

984 5p White-headed Vulture, *Trigonoceps occipitalis* Accipitridae

985 5.90p White-backed Vulture, *Gyps africanus* Accipitridae

986 7.80p Hooded Vulture, *Necrosyrtes monachus* Accipitridae

987 10p Cape Vulture, *Gyps coprotheres* Accipitridae

987a SS/5 (Sc#983–87) (perf 14)

BULGARIA 2016 September 13 (Storks) **A**

Joint issue with Israel for migrating birds. See Israel (Sc#2115) below.

4772 2.20l White Stork, *Ciconia ciconia* Ciconiidae

BURUNDI 2014 May 19 (Birds) **A**

Four MS/4 se-tenant stamps with title “*Republique du Burundi*” and four SS/4 with title “*Oiseaux du Burundi*.” In addition, a total of 16 SS exist, one for each of the 16 individual bird stamps shown on the sheets. None of these stamps have been assigned Scott numbers. Each MS has silhouettes of the four species on the sheet in the margins.

a 1140fr Helmeted Guineafowl, *Numida meleagris* Phasianidae

b 1140fr Glossy Ibis, *Plegadis falcinellus* Threskiornithidae

c 1140fr Gray Crowned-Crane, *Balearica regulorum* Gruidae

d 1140fr Hamerkop, *Scopus umbretta* Scopidae

N/A MS/4 (a–d) *Republique du Burundi*

N/A SS/4 (a–d) *Oiseaux du Burundi*

Margin UR: Marabou Stork, *Leptoptilos crumenifer* Ciconiidae
 LR: Ruff, *Philomachus pugnax* Scolopacidae

a 3090fr Crowned Hawk-Eagle, *Stephanoaetus coronatus* Accipitridae

b 3090fr African Fish-Eagle, *Haliaeetus vocifer* Accipitridae

c 3090fr Black-breasted Snake-Eagle, *Circaetus pectoralis* Accipitridae

d 3090fr Gray Kestrel, *Falco ardosiaceus* Falconidae

N/A MS/4 (a–d) *Republique du Burundi*

N/A SS/4 (a–d) *Oiseaux du Burundi*

Margin UR: Palm-nut Vulture, *Gypohierax angolensis* Accipitridae
 LR: African harrier-Hawk, *Polyboroides typus* Accipitridae

a 3190fr R: Red-chested Owlet, *Glaucidium tephronotum* Strigidae

L: Pearl-spotted Owlet, *Glaucidium perlatum* Strigidae

b 3190fr Southern White-faced Owl, *Ptilopsis granti* Strigidae

c 3190fr Spotted Eagle-Owl, *Bubo africanus* Strigidae

d 3190fr Marsh Owl, *Asio capensis* Strigidae

N/A MS/4 (a–d) *Republique du Burundi*

N/A SS/4 (a–d) *Oiseaux du Burundi*

Margin UR: African Barred Owllet, *Glaucidium capense* Strigidae
 LR: Pharaoh Eagle-owl, *Bubo ascalaphus* Strigidae

a 3690fr Double-toothed Barbet, *Lybius bidentatus* Capitonidae

b 3690fr Red-billed Firefinch, *Lagonosticta senegala* Estrildidae

c 3690fr Black-fronted Bushshrike, *Telophorus nigrifrons* Malaconotidae
 (Cap: *Chlorophoneus sulfureopectus*)

d 3690fr Little Bee-eater, *Merops pusillus* Meropidae
 (Cap: *Merops variegatus*)

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BURUNDI (continued)

N/A	MS/4 (a–d)	<i>Republique du Burundi</i>	
N/A	SS/4 (a–d)	<i>Oiseaux du Burundi</i>	
	Margin	UR: Blue-breasted Kingfisher, <i>Halcyon malimbica</i>	Alcedinidae
		MR: Red-headed Bluebill, <i>Spermophaga ruficapilla</i>	Estrildidae
		LR: Southern Red Bishop, <i>Euplectes orix</i>	Ploceidae

CENTRAL AFRICAN REPUBLIC 2016 February 11 (Bee-eaters) (MS/4 & SS/1) **A**

a	750fr	European Bee-eater, <i>Merops apiaster</i> (in flight)	Meropidae
b	750fr	Same species (two facing left)	
c	750fr	Same species (two with insect in beaks)	
d	750fr	Same species (one with insect in beak)	
	Margin	LR: Same species (with wings spread)	
N/A	SS 2650fr	European Bee-eater, <i>Merops apiaster</i>	Meropidae
	Margin	R: Same species (on branch)	

2016 February 11 (Pigeons) (MS/4 & SS/1)

a	900fr	Nicobar Pigeon, <i>Caloenas nicobarica</i>	Columbidae
b	900fr	European Turtle-Dove, <i>Streptopelia turtur</i>	Columbidae
c	900fr	Metallic Pigeon, <i>Columba vitiensis</i>	Columbidae
d	900fr	Common Wood-Pigeon, <i>Columba palumbus</i>	Columbidae
	Margin	Bot: U/I pigeon species	
N/A	SS 3000fr	Thick-billed Pigeon, <i>Treron curvirostra</i>	Columbidae
	Margin	R: U/I pigeon species	

2016 February 11 (Kites) (MS/4 & SS/1)

a	900fr	Black Kite, <i>Milvus migrans</i> (flying to right)	Accipitridae
b	900fr	Same species (flying to left)	
c	900fr	Same species (two birds)	
d	900fr	Brahminy Kite, <i>Haliastur indus</i>	Accipitridae
	Margin	Bot: Black Kite, <i>Milvus migrans</i>	Accipitridae
N/A	SS 3000fr	Brahminy Kite, <i>Haliastur indus</i>	Accipitridae
	Margin	LR: Same species	

2016 May 16 (Cruise Ships) (MS/4)

a	750fr	Black-headed Gull, <i>Chroicocephalus ridibundus</i>	Laridae
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2016 June 20 (175th anniv. Alexander Wilson) (MS/4 & SS/1)

N/A	750fr	L: Blue Grosbeak, <i>Passerina caerulea</i>	Cardinalidae
		R: Chipping Sparrow, <i>Spizella passerina</i> (Cap: <i>Fringilla</i>)	Emberizidae
N/A	750fr	R: Ruby-crowned Kinglet, <i>Regulus calendula</i>	Regulidae
		L: Red-tailed Hawk, <i>Buteo jamaicensis</i>	Accipitridae
N/A	750fr	L: Lewis's Woodpecker, <i>Melanerpes lewis</i>	Picidae
		R: Western Tanager, <i>Piranga ludoviciana</i>	Cardinalidae
N/A	750fr	Brown Creeper, <i>Certhia americana</i>	Certhiidae
N/A	SS 2650fr	L: Painted Bunting, <i>Passerina ciris</i>	Cardinalidae
		R: Prothonotary Warbler, <i>Protonotaria citrea</i>	Parulidae
	Margin	UR: Long-eared Owl, <i>Asio otus</i>	Strigidae
		UL: Seaside Sparrow, <i>Ammodramus maritimus</i>	Emberizidae
		(Cap: <i>Fringilla maritima</i>)	
		ML: Saltmarsh Sparrow, <i>Ammodramus caudacutus</i>	Emberizidae
		(Cap: <i>Fringilla caudacuta</i>)	
		LL: Hen Harrier, <i>Circus cyaneus</i>	Accipitridae

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CENTRAL AFRICAN REPUBLIC			2016 July 18 (PhilaTaipei 2016) (MS/4)	A
b	500fr	Formosan Magpie, <i>Urocissa caerulea</i>	Corvidae	
			2016 July 18 (Owls) (MS/4 & SS/1)	A
a	900fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
b	900fr	Barn Owl, <i>Tyto alba</i>	Tytonidae	
c	900fr	Little Owl, <i>Athene noctua</i>	Strigidae	
d	900fr	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
	Margin	UR: Boreal Owl, <i>Aegolius funereus</i>	Strigidae	
		LR: Bare-legged Owl, <i>Gymnoglaux lawrencii</i>	Strigidae	
		(Cap: <i>Margarobyas lawrencii</i>)		
N/A	SS 3000fr	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
	Margin	Top: Boreal Owl, <i>Aegolius funereus</i>	Strigidae	
		L: Great Horned Owl, <i>Bubo virginianus</i>	Strigidae	
			2016 July 18 (Parrots) (MS/4 & SS/1)	A
a	750fr	Scarlet Macaw, <i>Ara macao</i>	Psittacidae	
b	750fr	Eastern Rosella, <i>Platycercus eximius</i>	Psittaculidae	
c	750fr	Rose-ringed Parakeet, <i>Psittacula krameri</i>	Psittaculidae	
d	750fr	Blue-throated Macaw, <i>Ara glaucogularis</i>	Psittacidae	
	Margin	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
N/A	SS 2650fr	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
	Margin	L: Scarlet Macaw, <i>Ara macao</i>	Psittacidae	
		UR: Rosey-faced Lovebird, <i>Agapornis roseicollis</i>	Psittaculidae	
			2016 July 18 (Waterbirds) (MS/4 & SS/1)	A
a	900fr	Azure Kingfisher, <i>Ceyx azureus</i>	Alcedinidae	
b	900fr	Greater Painted Snipe, <i>Rostratula benghalensis</i>	Rostratulidae	
c	900fr	Saddle-billed Stork, <i>Ephippiorhynchus senegalensis</i>	Ciconiidae	
d	900fr	White-tufted Grebe, <i>Rollandia rolland</i>	Podicipedidae	
	Margin	R: Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	
N/A	SS 3000fr	Northern Gannet, <i>Morus bassanus</i>	Sulidae	
	Margin	L: Sacred Ibis, <i>Threskiornis aethiopicus</i>	Threskiornithidae	
		UR: White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae	
COLOMBIA			2015 December 14 (Departments Type of 2003) (MS/12)	A
1430k	100p	Buffy Helmetcrest, <i>Oxyopogon stubelii</i>	Trochilidae	Vol. 65(1)
CUBA			2015 October 4 (Marine Life) (Set/6)	A
5573	75c	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae	
			2015 April 10 (Endangered Birds) (Set/6 & SS/1)	A
5642	5c	Painted Bunting, <i>Passerina ciris</i>	Cardinalidae	
5643	15c	Swallow-tailed Manakin, <i>Chiroxiphia caudata</i>	Pipridae	
5644	20c	Cut-throat, <i>Amadina fasciata</i>	Estrildidae	
5645	75c	European Goldfinch, <i>Spinus carduelis</i>	Fringillidae	
		(Cap: <i>Carduelis carduelis</i>)		
5646	85c	Gouldian Finch, <i>Erythrura gouldiae</i> (Cap: <i>Chloebia gouldiae</i>)	Estrildidae	
5647	90c	Silver-eared Mesia, <i>Leiothrix argentauris</i>	Leiothrichidae	
5648	SS 1p	Zapata Wren, <i>Ferminia cerverai</i> (imperf)	Troglodytidae	
	Margin	R: Tricolored Munia, <i>Lonchura malacca</i>	Estrildidae	
			2016 January 15 (Waterbirds) (Set/6 & SS/1)	A
5744	10c	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
5745	15c	White-tailed Tropicbird, <i>Phaethon lepturus</i>	Phaethontidae	
		(Cap: <i>Phaethon rubricauda</i>)		

CUBA (continued)

5746	45c	Canada Goose, <i>Branta canadensis</i>	Anatidae
5747	75c	Sacred Ibis, <i>Threskiornis aethiopicus</i>	Threskiornithidae
5748	85c	Mallard, <i>Anas platyrhynchos</i>	Anatidae
5749	90c	Wood Stork, <i>Mycteria americana</i> (Cap: <i>Branta canadensis</i>)	Ciconiidae
5750	SS 1p	Atlantic Puffin, <i>Fratercula arctica</i> (imperf)	Alcidae

2016 March 10 (Fauna) (Set/4)**B**

5778	90c	Toco Toucan, <i>Ramphastos toco</i> (with <i>Leopardus pardalis</i>)	Ramphastidae
5777	90c	Ferruginous Hawk, <i>Buteo regalis</i> (with <i>Bison bison</i>)	Accipitridae

CZECH REPUBLIC**2016 October 12 (Bee-eaters) (Single)****A**

3688	20k	European Bee-eater, <i>Merops apiaster</i>	Meropidae
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DENMARK**2016 June 23 (Danish Porcelain Designs) (Bklt/10)****A**

1754	8k	Herring Gull, <i>Larus argentatus</i>	Laridae
1758a		Bklt/10 (2ea Sc#1754–58)	

DJIBOUTI**2016 May 5 (Raptors) (MS/4 & SS/1)****A**

a	280fr	Eastern Chanting Goshawk, <i>Melierax poliopterus</i>	Accipitridae	Vol. 65(3)
b	280fr	Lappet-faced Vulture, <i>Torgos tracheliotos</i>	Accipitridae	
c	280fr	Eurasian Pygmy-Owl, <i>Glaucidium passerinum</i>	Strigidae	
d	280fr	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae	
N/A	SS 960fr	Lesser Spotted Eagle, <i>Clanga pomarina</i>	Accipitridae	
	Margin	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
		Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae	

ECUADOR**2015 November 11 (Tourism) (SS/1 & 2ea Bklt/8)****A**

The imperf SS shows four scenes within a circle with a condor in one scene.

2170	SS \$5	Andean Condor, <i>Vultur gryphus</i> (imperf)	Cathartidae
2171g	\$1	Collared Inca, <i>Coeligena torquata</i>	Trochilidae
2172d	50c	Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae
2172e	75c	Galapagos Penguin, <i>Spheniscus mendiculus</i>	Spheniscidae

FINLAND**2016 September 9 (WWF) (Vert strip/3+3 etiquettes) (s/a)****C/A**

1519a	(€1.20)	Black-headed Gull, <i>Chroicocephalus ridibundus</i> (in bkgrd)	Laridae
1519c	(€1.20)	Lesser White-fronted Goose, <i>Anser erythropus</i>	Anatidae

2016 September 9 (People Enjoying Nature) (Bklt/6+6 etiquettes)**C**

1521d	(€1.20)	Mute Swan, <i>Cygnus olor</i> (with people in row boat)	Anatidae
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FRANCE**2015 November 6 (70th anniv. UNESCO) (Official)****C**

2075	95c	Cattle Egret, <i>Bubulcus ibis</i> (with African Gnu)	Ardeidae
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2015 November 13 (Roosters) (Single, MS/4, & 2ea SS/2)**A**

4916	(68c)	Red Junglefowl, <i>Gallus gallus</i> (Cap: Coq gaulois)	Phasianidae
4917a	(68c)	Same species (Cap: Coq de Houdan)	Phasianidae
4917b	(68c)	Same species (Cap: Coq meusien)	Phasianidae
4917c	(68c)	Same species (Cap: Coq de Marans)	Phasianidae
4917		MS/4 (Sc#4916 & Sc#4917a–c)	
Note	(136c)	SS/2 (Sc#4916 & Sc#4917b)	
Note	(136c)	SS/2 (Sc#4917a & Sc#4917c)	

2016 February 27 (Roosters) (Bklt/12)**A**

4989	(70c)	Red Junglefowl, <i>Gallus gallus</i>	Phasianidae
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GUINEA

This country, located on the coast of West Africa between Guinea-Bissau and Sierra Leone, is the former French overseas territory of French West Africa. It proclaimed itself an independent republic on 2 October 1958. It has issued large quantities of stamps. The Scott Publishing Company last listed issues from Guinea in 2004.

Between 2006 and 18 July 2016, it has issued one sheet of two stamps, 32 sheets of three stamps each, 40 sheets of four stamps each, four sheets of five stamps each, 13 sheets of six stamps each, and 70 SS—another country looking to pick the pockets of collectors. The following issues have been released since my last listing in Vol. 64(1).

2014 October 1 (Prehistoric Humans & Animals) (MS/4) B

The name on the stamp is more grammatically correct, as amended by Florentino Ameghino in 1889, but the earlier genus name *Phorusrhacos*, given by him in 1887, has priority. The bird was known as the “Terrible Bird.”

c 15000fr Phororhacos, *Phorusrhacos longissimus* Phorusrhacidae

2014 October 27 (Stamps of the World) (WWF) (SS/1) A

N/A SS 40000fr Common Redstart, *Phoenicurus phoenicurus* Muscicapidae
Margin UR: U/I owl

2014 October 27 (Birds of Prey) (MS/4 & SS/1) A

a 10000fr Griffon Vulture, *Gyps fulvus* Accipitridae
b 10000fr Secretary-bird, *Sagittarius serpentarius* Sagittariidae
c 15000fr Osprey, *Pandion haliaetus* Pandionidae
d 15000fr Mountain Caracara, *Phalco boenus megalopterus* Falconidae Vol. 64(2)
Margin LL: U/I eagle
N/A SS 40000fr Northern Goshawk, *Accipiter gentilis* Accipitridae
Margin UR: Bateleur, *Terathopius ecaudatus* Accipitridae
LR: U/I owl

2015 March 20 (Lighthouses) (MS/4 & SS/1) B

a 10000fr Black-headed Gull, *Chroicocephalus ridibundus* Laridae
b 15000fr Same species (with Kōpu lighthouse)
c 15000fr Same species (with Diamond Head lighthouse)
d 10000fr Same species (with Yokohama Marine Tower)
N/A SS 40000fr Same species (with Jeddah lighthouse) (also in margin)

2015 March 20 (Owls) (MS/4 & SS/1) A

a 10000fr Barn Owl, *Tyto alba* Tytonidae
b 15000fr Boreal Owl, *Aegolius funereus* Strigidae
c 15000fr R: Blakiston’s Fish-Owl, *Bubo blakistoni* Strigidae
L: Crested Owl, *Lophotrix cristata* Strigidae
d 10000fr Little Owl, *Athene noctua* Strigidae
Margin LL & LR: Rock Eagle-Owl, *Bubo bengalensis* Strigidae
N/A SS 40000fr R: Striped Owl, *Pseudoscops clamator* Strigidae
L: Marsh Owl, *Asio capensis* Strigidae
Margin Bkgrd: Snowy Owl, *Bubo scandiacus* Strigidae

2015 March 20 (Hummingbirds) (MS/4 & SS/1) A

a 10000fr Speckled Hummingbird, *Adelomyia melanogenys* Trochilidae Vol. 64(2)
b 15000fr Amethyst Woodstar, *Calliphlox amethystine* Trochilidae
c 15000fr Antillean Crested Hummingbird, *Orthorhyncus cristatus* Trochilidae
d 10000fr White-throated Mountain-gem, *Lampornis castaneiventris* Trochilidae Vol. 65(4)
Margin UL & LR: Ruby-throated Hummingbird, *Archilochus colubris* Trochilidae
UR: Streamertail, *Trochilus scitulus* Trochilidae
(Now a ssp. of *Trochilus polytmus*)
LL: Coppery-headed Emerald, *Elvira cupreiceps* Trochilidae

GUINEA (continued)

N/A	SS 40000fr	Sparkling Violetear, <i>Colibri coruscans</i>	Trochilidae	
	Margin	UL & LR: White-vented Violetear, <i>Colibri serrirostris</i>	Trochilidae	
		LL & MR: Brown Violetear, <i>Colibri delphinae</i>	Trochilidae	
2015 March 20 (Buffalos) (MS/4)				C
c	15000fr	Cattle Egret, <i>Bubulcus ibis</i> (on back of buffalo)	Ardeidae	
2015 June 22 (Birds of Prey) (MS/4 & SS/1)				A
a	10000fr	Eurasian Buzzard, <i>Buteo buteo</i>	Accipitridae	
b	10000fr	White-backed Vulture, <i>Gyps africanus</i>	Accipitridae	
c	10000fr	Lesser Kestrel, <i>Falco naumanni</i>	Falconidae	
d	10000fr	Red-footed Falcon, <i>Falco vespertinus</i>	Falconidae	
	Margin	UR: Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae	
		ML: Osprey, <i>Pandion haliaetus</i>	Pandionidae	
		MR: Eurasian Sparrowhawk, <i>Accipiter nisus</i>	Accipitridae	
		LL: Black Kite, <i>Milvus migrans</i>	Accipitridae	
N/A	SS 35000fr	African Fish-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae	
	Margin	LL: Egyptian Vulture, <i>Neophron percnopterus</i>	Accipitridae	
		Bot: Eurasian Marsh-Harrier, <i>Circus aeruginosus</i>	Accipitridae	
		UR: California Condor, <i>Gymnogyps californianus</i>	Cathartidae	
		LR: Collared Owlet, <i>Glaucidium brodiei</i>	Strigidae	
2015 August 20 (Waterbirds) (MS/4 & SS/1)				A
a	10000fr	Red-crowned Crane, <i>Grus japonensis</i>	Gruidae	
b	10000fr	Tufted Puffin, <i>Fratercula cirrhata</i>	Alcidae	
c	10000fr	Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae	
d	10000fr	Black-browed Albatross, <i>Thalassarche melanophris</i>	Diomededidae	
	Margin	UR: Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae	
N/A	SS 35000fr	White-naped Crane, <i>Grus vipio</i>	Gruidae	
	Margin	LR: Double-crested Cormorant, <i>Phalacrocorax auritus</i>	Phalacrocoracidae	
		Top: Northern Pintail, <i>Anas acuta</i>	Anatidae	
		UR: Siberian Crane, <i>Grus leucogeranus</i>	Gruidae	
2015 August 20 (Owls) (MS/4 & SS/1)				A
a	10000fr	Eastern Screech-Owl, <i>Megascops asio</i>	Strigidae	
b	10000fr	Striped Owl, <i>Pseudoscops clamator</i>	Strigidae	
c	10000fr	Burrowing Owl, <i>Athene cunicularia</i>	Strigidae	
d	10000fr	Brown Fish-Owl, <i>Ketupa zeylonensis</i> (Cap: <i>Bubo zeylonensis</i>)	Strigidae	
	Margin	R: Ural Owl, <i>Strix uralensis</i>	Strigidae	
N/A	SS 35000fr	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
	Margin	LR: Spotted Wood-Owl, <i>Strix seloputo</i>	Strigidae	
		UR: Eastern Screech-Owl, <i>Megascops asio</i>	Strigidae	
2015 August 20 (Lighthouses) (MS/4 & SS/1)				B
a	10000fr	Black-headed Gull, <i>Chroicocephalus ridibundus</i>	Laridae	
b	10000fr	Same species (with Brunsbüttel Mole lighthouse)		
c	10000fr	Same species (with Stavoren lighthouse)		
d	10000fr	Same species (with Cape Reinga lighthouse)		
N/A	SS 35000fr	Same species (with Portland lighthouse) (also in R margin)		
2015 September 3 (Endangered Species) (MS/4)				A
b	10000fr	Sokoke Scops-Owl, <i>Otus ireneae</i>	Strigidae	

GUINEA (continued)		2015 November 6 (African Skimmer) (WWF) (MS/4 & SS/1)	A
a	10000fr	African Skimmer, <i>Rynchops flavirostris</i> (two with chick)	Rynchopidae
b	10000fr	Same species (in flight to left)	
c	10000fr	Same species (in flight to right)	
d	10000fr	Same species (one with chick & egg)	
N/A	SS 40000fr	African Skimmer, <i>Rynchops flavirostris</i>	Rynchopidae
	Margin	Bot: Same species (in flight)	
		2015 November 25 (Parrots) (MS/4 & SS/1)	A
a	10000fr	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae
b	10000fr	Scarlet Macaw, <i>Ara macao</i>	Psittacidae
c	10000fr	Galah, <i>Eolophus roseicapilla</i>	Cacatuidae
d	10000fr	Alexandrine Parakeet, <i>Psittacula eupatria</i>	Psittaculidae
N/A	SS 40000fr	Derbyan Parakeet, <i>Psittacula derbiana</i>	Psittaculidae
	Margin	UR: Gray Parrot, <i>Psittacus erithacus</i>	Psittacidae
		Bot & LR: Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae
		2015 November 25 (Bustards) (MS/4 & SS/1)	A
a	10000fr	Houbara Bustard, <i>Chlamydotis undulata</i>	Otididae
b	10000fr	White-quilled Bustard, <i>Eupodotis afraoides</i> (Cap: <i>Afrotis afraoides</i>)	Otididae
c	10000fr	Kori Bustard, <i>Ardeotis kori</i>	Otididae
d	10000fr	Lesser Florican, <i>Sypheotides indicus</i>	Otididae
N/A	SS 40000fr	Hartlaub's Bustard, <i>Lissotis hartlaubii</i>	Otididae
	Margin	LR: Kori Bustard, <i>Ardeotis kori</i>	Otididae
		LL: Houbara Bustard, <i>Chlamydotis undulata</i>	Otididae
		2015 November 25 (Birds of Prey) (MS/4 & SS/1)	A
a	10000fr	Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae
b	10000fr	Eurasian Marsh-Harrier, <i>Circus aeruginosus</i>	Accipitridae
c	10000fr	Whistling Kite, <i>Haliastur sphenurus</i>	Accipitridae
d	10000fr	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae
N/A	SS 40000fr	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae
	Margin	MR: Eurasian Kestrel, <i>Falco tinnunculus</i>	Falconidae
		LR: Osprey, <i>Pandion haliaetus</i>	Pandionidae
		2016 March 18 (In Memory of 11 September 2001) (MS/3)	A
b	10000fr	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae
		2016 June 3 (Chiang Kai-shek/PhilaTaipei 2016) (MS/4)	A
b	10000fr	Formosan Magpie, <i>Urocissa caerulea</i>	Corvidae
		2016 June 3 (Owls) (MS/4 & SS/1)	A
a	10000fr	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae
b	10000fr	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae
c	10000fr	Northern Saw-Whet Owl, <i>Aegolius acadicus</i>	Strigidae
d	10000fr	Northern White-faced Owl, <i>Ptilopsis leucotis</i>	Strigidae
N/A	SS 40000fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae
	Margin	UL: Great Gray Owl, <i>Strix nebulosa</i>	Strigidae
		LR: Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae
		2016 June 3 (Dogs) (MS/4)	B
a	10000fr	U/I waterfowl (in mouth of hunting dog)	
b	10000fr	Ring-necked Pheasant, <i>Phasianus colchicus</i>	Phasianidae
c	10000fr	Mallard, <i>Anas platyrhynchos</i>	Anatidae

GUINEA (continued)		2016 July 18 (Fauna) (MS/4) (s-o-s)	A
b	10000fr	Golden-capped Parakeet, <i>Aratinga auricapilla</i> (Brazil Sc#2799b)	Psittacidae
	Margin	Chinstrap Penguin, <i>Pygoscelis antarcticus</i> (S. Georgia Sc#369)	Spheniscidae
		2016 July 18 (Seabirds) (MS/4 & SS/1)	A
a	10000fr	Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae
b	10000fr	Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae
c	10000fr	Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae
d	10000fr	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae
	Margin	Bot: Jackass Penguin, <i>Spheniscus demersus</i>	Spheniscidae
N/A	SS 40000fr	Northern Gannet, <i>Morus bassanus</i>	Sulidae
	Margin	MR: Northern Gannet, <i>Morus bassanus</i>	Sulidae
		UR: Great Skua, <i>Stercorarius skua</i>	Stercorariidae
		LR: Great Cormorant, <i>Phalacrocorax carbo</i>	Phalacrocoracidae
		2016 July 18 (Dinosaurs) (MS/4)	A
d	10000fr	Archaeopteryx, <i>Archaeopteryx lithographica</i>	Archaeopterygidae
		2016 July 18 (Kingfishers) (MS/4 & SS/1)	A
a	10000fr	Amazon Kingfisher, <i>Chloroceryle amazona</i>	Alcedinidae
b	10000fr	Brown-headed Paradise-Kingfisher, <i>Tanysiptera danae</i>	Alcedinidae
c	10000fr	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae
d	10000fr	Woodland Kingfisher, <i>Halcyon senegalensis</i>	Alcedinidae
	Margin	LL: Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae
N/A	SS 40000fr	Azure Kingfisher, <i>Ceyx azureus</i>	Alcedinidae
	Margin	LL: Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae
		R: Laughing Kookaburra, <i>Dacelo novaeguineae</i>	Alcedinidae
		2016 July 18 (Hummingbirds) (MS/4 & SS/1)	A
a	10000fr	Tufted Coquette, <i>Lophornis ornatus</i>	Trochilidae
b	10000fr	Ruby-topaz Hummingbird, <i>Chrysolampis mosquitus</i>	Trochilidae
c	10000fr	White-necked Jacobin, <i>Florisuga mellivora</i>	Trochilidae
d	10000fr	Puerto Rican Emerald, <i>Chlorostilbon maugaeus</i>	Trochilidae
	Margin	LL: Rufous-crested Coquette, <i>Lophornis delattrei</i>	Trochilidae
		Bot: Reddish Hermit, <i>Phaethornis ruber</i>	Trochilidae
		LR: Fawn-breasted Brilliant, <i>Heliodoxa rubinoides</i>	Trochilidae
N/A	SS 40000fr	Marvelous Spatuletail, <i>Loddigesia mirabilis</i>	Trochilidae
	Margin	UR: Sparkling Violetear, <i>Colibri coruscans</i>	Trochilidae
		Bot: Crimson Topaz, <i>Topaza pella</i>	Trochilidae
		LL: Horned Sungem, <i>Heliactin bilophus</i>	Trochilidae
		2016 July 18 (Hornbills) (MS/4 & SS/1)	A
a	10000fr	Wreathed Hornbill, <i>Aceros undulates</i> (Cap: <i>Rhyticeros undulates</i>)	Bucerotidae
b	10000fr	Palawan Hornbill, <i>Anthracoceros marchei</i>	Bucerotidae
c	10000fr	Rhinoceros Hornbill, <i>Buceros rhinoceros</i>	Bucerotidae
d	10000fr	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae
	Margin	Bot: Knobbed Hornbill, <i>Aceros cassidix</i>	Bucerotidae
N/A	SS 40000fr	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae
	Margin	UR: Rhinoceros Hornbill, <i>Buceros rhinoceros</i>	Bucerotidae
		Bot: Rufous Hornbill, <i>Buceros hydrocorax</i>	Bucerotidae
		2016 July 18 (Extinct Animals) (MS/4)	A
a	10000fr	Great Auk, <i>Pinguinus impennis</i>	Alcidae
d	10000fr	Dodo, <i>Raphus cucullatus</i>	Alcidae

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			2016 July 18 (Endangered Animals) (MS/4 & SS/1)	A
a	10000fr	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae	
	Margin	Bot: Same species		
N/A	SS 40000fr	Blue-throated Macaw, <i>Ara glaucogularis</i>	Psittacidae	
			2016 July 18 (Birds of Prey) (MS/4 & SS/1)	A
a	10000fr	Rough-legged Hawk, <i>Buteo lagopus</i>	Accipitridae	
b	10000fr	Northern Harrier, <i>Circus cyaneus</i>	Accipitridae	
c	10000fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
d	10000fr	Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae	
	Margin	LL: Rough-legged Hawk, <i>Buteo lagopus</i>	Accipitridae	
N/A	SS 40000fr	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
	Margin	UR: Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
		LL: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
			2016 July 18 (Bee-eaters) (MS/4 & SS/1)	A
a	10000fr	European Bee-eater, <i>Merops apiaster</i>	Meropidae	
b	10000fr	European Bee-eater, <i>Merops apiaster</i>	Meropidae	
c	10000fr	Green Bee-eater, <i>Merops orientalis</i>	Meropidae	
d	10000fr	White-fronted Bee-eater, <i>Merops bullockoides</i>	Meropidae	
	Margin	LR: Green Bee-eater, <i>Merops orientalis</i>	Meropidae	
N/A	SS 40000fr	Green Bee-eater, <i>Merops orientalis</i>	Meropidae	
	Margin	Top: Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	
		MR: White-fronted Bee-eater, <i>Merops bullockoides</i>	Meropidae	
		LR & LL: European Bee-eater, <i>Merops apiaster</i>	Meropidae	
			2016 September 26 (Lighthouses) (MS/4 & SS/1)	A
a	10000fr	Dalmation Pelican, <i>Pelecanus crispus</i>	Pelecanidae	
d	10000fr	Steller's Sea-Eagle, <i>Haliaeetus pelagicus</i>	Accipitridae	
	SS 40000fr	Bot: U/I gulls		
			2016 September 26 (Owls) (MS/4 & SS/1)	A
a	10000fr	Striped Owl, <i>Pseudoscops clamator</i>	Strigidae	
b	10000fr	Long-eared Owl, <i>Asio otus</i>	Strigidae	
c	10000fr	Spotted Wood-Owl, <i>Strix seloputo</i>	Strigidae	
d	10000fr	Tawny Fish-Owl, <i>Ketupa flavipes</i>	Strigidae	
N/A	SS 40000fr	Collared Scops-Owl, <i>Otus lettia</i>	Strigidae	
	Margin	UR: Long-eared Owl, <i>Asio otus</i>	Strigidae	
		Bot: Northern Saw-whet Owl, <i>Aegolius acadicus</i>	Strigidae	
GUYANA			2016 February 20 (Capybaras) (MS/4)	C
a	\$250	Cattle Tyrant, <i>Machetornis rixosa</i> (on back of capybara)	Tyrannidae	
ICELAND			2016 September 16 (80th anniv. Wreck of <i>Pourquoi-Pas?</i>) (SS/1)	C
1418	(480k)	Herring Gull, <i>Larus argentatus</i> (in flight over ship)	Laridae	
ISRAEL			2016 September 13 (Bird Migration) (Single)	A
Joint issue with Bulgaria with the flags of both nations.				
2115	5s	White Stork, <i>Ciconia ciconia</i>	Ciconiidae	
LATVIA			2016 May 20 (Birds) (Set/2)	A
935	71c	Eurasian Pygmy-Owl, <i>Glaucidium passerinum</i>	Strigidae	
936	€1.71	Great Spotted Woodpecker, <i>Dendrocopos major</i>	Picidae	

MACEDONIA		2016 May 10 (Europa) (Set/2 & MS/4)		B
710	50d	UL: Rock Partridge, <i>Alectoris graeca</i>	Phasianidae	
		UR: Griffon Vulture, <i>Gyps fulvus</i>	Accipitridae	
		LR: Egyptian Vulture, <i>Neophron percnopterus</i>	Accipitridae	
712a	50d	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae	
712d	50d	Dalmatian Pelican, <i>Pelecanus crispus</i>	Pelecanidae	
MARSHALL ISLANDS		2016 July 20 (Art of Howard Koslow) (MS/20)		A
1141d	49c	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae	
MOZAMBIQUE		2013 June 25 (Elephants) (MS/4 & SS/1)		B
2903a	16m	Cattle Egret, <i>Bubulcus ibis</i> (with elephant)	Ardeidae	
2903b	16m	Same species (with one elephant)		
2903c	92m	Same species (on head of elephant)		
2903d	92m	Same species (with two elephants)		
2903	Margin	UL: Same species (in flight)		
2933	SS 175m	Same species (on elephant)		
	Margin	UL & LR: Same species		
		2015 April 15 (Taiwan Blue Magpie) (MS/4 & SS/1)		A
a	16m	Formosan Magpie, <i>Urocissa caerulea</i> (facing left)	Corvidae	
b	16m	Same species (two birds)		
c	16m	Same species (facing front)		
d	16m	Same species (facing down)		
	Margin	Top: Same species		
N/A	SS 66m	Formosan Magpie, <i>Urocissa caerulea</i>	Corvidae	
	Margin	UR: Same species		
		2015 June 15 (Seabirds) (MS/4 & SS/1)		A
a	46m	Great White Pelican, <i>Pelecanus onocrotalus</i>	Pelecanidae	
b	46m	African Skimmer, <i>Rynchops flavirostris</i>	Rynchopidae	
c	46m	Great Cormorant, <i>Phalacrocorax carbo</i>	Phalacrocoracidae	
d	46m	Cape Gannet, <i>Morus capensis</i>	Sulidae	
	Margin	LR: African Skimmer, <i>Rynchops flavirostris</i>	Rynchopidae	
N/A	SS 175m	African Penguin, <i>Spheniscus demersus</i>	Spheniscidae	
	Margin	LR: Cape Gannet, <i>Morus capensis</i>	Sulidae	
		LL: Black-browed Albatross, <i>Thalassarche melanophris</i>	Diomedidae	
		2015 June 15 (Pigeons & Doves) (MS/4 & SS/1)		A
a	46m	Ring-necked Dove, <i>Streptopelia capicola</i>	Columbidae	
b	46m	Zebra Dove, <i>Geopelia striata</i>	Columbidae	
c	46m	Common Bronzewing, <i>Phaps chalcoptera</i>	Columbidae	Vol. 64(4)
d	46m	Mourning Collared-Dove, <i>Streptopelia decipiens</i>	Columbidae	Vol. 64(4)
	Margin	LR: White-winged Collared Dove, <i>Streptopelia reichenowi</i>	Columbidae	new
N/A	SS 175m	Madagascar Blue-Pigeon, <i>Alectroenas madagascariensis</i>	Columbidae	
	Margin	UR: Common Bronzewing, <i>Phaps chalcoptera</i>	Columbidae	
		UL: African Collared-Dove, <i>Streptopelia roseogrisea</i>	Columbidae	
		ML & LR: Zebra Dove, <i>Geopelia striata</i>	Columbidae	
		MR: European Turtle-Dove, <i>Streptopelia turtur</i>	Columbidae	
		LL: Ringed-necked Dove, <i>Streptopelia capicola</i>	Columbidae	
		2015 June 15 (Parrots) (MS/4 & SS/1)		A
a	46m	Brown-necked Parrot, <i>Poicephalus robustus</i>	Psittacidae	
b	46m	Yellow-collared Lovebird, <i>Agapornis personatus</i>	Psittaculidae	
c	46m	Fischer's Lovebird, <i>Agapornis fischeri</i>	Psittaculidae	

MOZAMBIQUE (continued)

d	46m	Rose-ringed Parakeet, <i>Psittacula krameri</i>	Psittaculidae	
	Margin	LL & LR: Gray Parrot, <i>Psittacus erithacus</i>	Psittacidae	
N/A	SS 175m	Gray Parrot, <i>Psittacus erithacus</i>	Psittacidae	
	Margin	LL: Gray Parrot, <i>Psittacus erithacus</i>	Psittacidae	
		LR: Rose-ringed Parakeet, <i>Psittacula krameri</i>	Psittaculidae	
		ML: Brown-necked Parrot, <i>Poicephalus robustus</i>	Psittacidae	
2015 June 15 (Owls) (MS/4 & SS/1)				A
a	46m	African Grass-Owl, <i>Tyto capensis</i>	Tytonidae	
b	46m	Barn Owl, <i>Tyto alba</i>	Tytonidae	
c	46m	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
d	46m	Northern White-faced Owl, <i>Ptilopsis leucotis</i>	Strigidae	
	Margin	LL: Barn Owl, <i>Tyto alba</i>	Tytonidae	
N/A	SS 175m	Barn Owl, <i>Tyto alba</i>	Tytonidae	
	Margin	Bot: Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
		UR: Sokoke Scops-Owl, <i>Otus ireneae</i>	Strigidae	
		UL: Northern White-faced Owl, <i>Ptilopsis leucotis</i>	Strigidae	
2015 June 15 (Raptors) (MS/4 & SS/1)				A
a	46m	White-headed Vulture, <i>Trionoceph occipitalis</i>	Accipitridae	
b	46m	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae	
c	46m	Egyptian Vulture, <i>Neophron percnopterus</i>	Accipitridae	
d	46m	Jackal Buzzard, <i>Buteo rufofuscus</i>	Accipitridae	
	Margin	LR: Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae	
		LL: Lappet-faced Vulture, <i>Torgos tracheliotus</i> (Cap: <i>Torgos tracheliotus</i>)	Accipitridae	
N/A	SS 175m	African Fish-Eagle, <i>Haliaeetus vocifer</i> (also in Bot margin)	Accipitridae	
2015 June 15 (Bee-eaters) (MS/4 & SS/1)				A
a	46m	Little Bee-eater, <i>Merops pusillus</i>	Meropidae	
b	46m	Blue-breasted Bee-eater, <i>Merops variegatus</i>	Meropidae	
c	46m	Green Bee-eater, <i>Merops orientalis</i>	Meropidae	
d	46m	Northern Carmine Bee-eater, <i>Merops nubicus</i>	Meropidae	
	Margin	LL: European Bee-eater, <i>Merops apiaster</i>	Meropidae	
N/A	SS 175m	Red-throated Bee-eater, <i>Merops bulocki</i>	Meropidae	
	Margin	LL: Blue-breasted Bee-eater, <i>Merops variegatus</i>	Meropidae	
		LR: Northern Carmine Bee-eater, <i>Merops nubicus</i>	Meropidae	
2015 August 15 (s-o-s) (MS/4)				A
b	66m	North Island Brown Kiwi, <i>Apteryx mantelli</i> (Laos Sc#978)	Apterygidae	
2015 October 15 (Jacanas) (MS/4 & SS/1)				A
a	66m	Pheasant-tailed Jacana, <i>Hydrophasianus chirurgus</i>	Jacanidae	
b	66m	Comb-crested Jacana, <i>Irediparra gallinacea</i>	Jacanidae	
c	66m	African Jacana, <i>Actophilornis africanus</i>	Jacanidae	
d	66m	Wattled Jacana, <i>Jacana jacana</i>	Jacanidae	
N/A	SS 175m	Bronze-winged Jacana, <i>Metopidius indicus</i>	Jacanidae	
	Margin	UR: Lesser Jacana, <i>Microparra capensis</i>	Jacanidae	Vol. 65(2)
		LL: Northern Jacana, <i>Jacana spinosa</i>	Jacanidae	
2015 October 15 (Cormorants) (MS/4 & SS/1)				A
a	66m	Red-faced Cormorant, <i>Phalacrocorax urile</i>	Phalacrocoracidae	
b	66m	Little Cormorant, <i>Phalacrocorax niger</i>	Phalacrocoracidae	
c	66m	Great Cormorant, <i>Phalacrocorax carbo</i>	Phalacrocoracidae	

MOZAMBIQUE (continued)

d	66m	Red-legged Cormorant, <i>Phalacrocorax gaimardi</i>	Phalacrocoracidae
N/A	SS 175m	Double-crested Cormorant, <i>Phalacrocorax auritus</i>	Phalacrocoracidae
	Margin	UR: Great Cormorant, <i>Phalacrocorax carbo</i>	Phalacrocoracidae
		UL: Double-crested Cormorant, <i>Phalacrocorax auritus</i>	Phalacrocoracidae
		LL: Red-legged Cormorant, <i>Phalacrocorax gaimardi</i>	Phalacrocoracidae
		Bot: Little Cormorant, <i>Phalacrocorax niger</i>	Phalacrocoracidae

2015 October 15 (Albatrosses) (MS/4 & SS/1)**A**

a	66m	Short-tailed Albatross, <i>Phoebastria albatrus</i>	Diomedidae
b	66m	Black-billed Albatross, <i>Thalassarche melanophris</i>	Diomedidae
c	66m	Royal Albatross, <i>Diomedea epomophora</i>	Diomedidae
d	66m	Black-footed Albatross, <i>Phoebastria nigripes</i>	Diomedidae
N/A	SS 175m	Gray-headed Albatross, <i>Thalassarche chrysostoma</i>	Diomedidae
	Margin	UL: Laysan Albatross, <i>Phoebastria immutabilis</i>	Diomedidae
		ML: Royal Albatross, <i>Diomedea epomophora</i> ssp. <i>sanfordi</i>	Diomedidae
		LL: Waved Albatross, <i>Phoebastria irrorata</i>	Diomedidae
		UR: Black-footed Albatross, <i>Phoebastria nigripes</i>	Diomedidae
		MR: Sooty Albatross, <i>Phoebastria fusca</i>	Diomedidae

2015 October 15 (Owls) (MS/4 & SS/1)**A**

a	66m	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae
b	66m	Barn Owl, <i>Tyto alba</i>	Tytonidae
c	66m	Boreal Owl, <i>Aegolius funereus</i>	Strigidae
d	66m	Eastern Screech-Owl, <i>Megascops asio</i>	Strigidae
N/A	SS 175m	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae
	Margin	LL: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae
		UR: Ural Owl, <i>Strix uralensis</i>	Strigidae

2016 January 15 (Warblers) (MS/4 & SS/1)**A**

a	66m	Blackburian Warbler, <i>Setophaga fusca</i>	Parulidae
b	66m	Blackcap, <i>Sylvia atricapilla</i>	Sylviidae
c	66m	Yellow-rumped Warbler, <i>Setophaga coronata</i>	Parulidae
d	66m	Chestnut-sided Warbler, <i>Setophaga pensylvanica</i>	Parulidae
	Margin	UL: Great Reed-Warbler, <i>Acrocephalus arundinaceus</i>	Acrocephalidae
N/A	SS 175m	Prothonotary Warbler, <i>Protonotaria citrea</i>	Parulidae
	Margin	Top: Yellow-rumped Warbler, <i>Setophaga coronata</i>	Parulidae

2016 January 15 (Parrots) (MS/4 & SS/1)**A**

a	66m	Gray Parrot, <i>Psittacus erithacus</i>	Psittacidae
b	66m	Sulphur-crested Cockatoo, <i>Cacatua galerita</i>	Cacatuidae
c	66m	Hyacinth Macaw, <i>Anodorhynchus hyacinthinus</i>	Psittacidae
d	66m	L: Red-and-green Macaw, <i>Ara chloroptera</i>	Psittacidae
		R: Scarlet Macaw, <i>Ara macao</i>	Psittacidae
	Margin	UR: Rainbow Lorikeet, <i>Trichoglossus haematodus moluccanus</i>	Psittaculidae
N/A	SS 175m	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae
	Margin	UL: Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae
		UR: Scarlet Macaw, <i>Ara macao</i>	Psittacidae

2016 January 15 (Swallows) (MS/4 & SS/1)**A**

a	66m	Bank Swallow, <i>Riparia riparia</i>	Hirundinidae
b	66m	L: Banded Martin, <i>Riparia cincta</i>	Hirundinidae
		R: Lesser Striped-Swallow, <i>Cecropis abyssinica</i>	Hirundinidae

MOZAMBIQUE (continued)

c	66m	R: Lesser Striped-Swallow, <i>Cecropis abyssinica</i> L: Barn Swallow, <i>Hirundo rustica</i>	Hirundinidae Hirundinidae	
d	66m	Barn Swallow, <i>Hirundo rustica</i>	Hirundinidae	
	Margin	UL: Barn Swallow, <i>Hirundo rustica</i>	Hirundinidae	
N/A	SS 175m	Tree Swallow, <i>Tachycineta bicolor</i>	Hirundinidae	
	Margin	Top: Barn Swallow, <i>Hirundo rustica</i>	Hirundinidae	
2016 January 15 (Vultures) (MS/4 & SS/1)				A
a	66m	Eurasian Griffon, <i>Gyps fulvus</i>	Accipitridae	
b	66m	White-backed Vulture, <i>Gyps africanus</i>	Accipitridae	
c	66m	Cape Griffon, <i>Gyps coprotheres</i>	Accipitridae	
d	66m	Eurasian Griffon, <i>Gyps fulvus</i>	Accipitridae	
N/A	SS 175m	Eurasian Griffon, <i>Gyps fulvus</i>	Accipitridae	
	Margin	Top: Eurasian Griffon, <i>Gyps fulvus</i> LL: White-backed Vulture, <i>Gyps africanus</i>	Accipitridae Accipitridae	
2016 January 15 (Owls) (MS/4 & SS/1)				A
a	66m	Tawny Owl, <i>Strix aluco</i>	Strigidae	
b	66m	Barn Owl, <i>Tyto alba</i>	Tytonidae	
c	66m	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
d	66m	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
	Margin	UL: Eurasian Eagle-Owl, <i>Bubo bubo</i> UR: Northern Saw-whet Owl, <i>Aegolius acadicus</i>	Strigidae Strigidae	
N/A	SS 175m	Little Owl, <i>Athene noctua</i>	Strigidae	
	Margin	Top: Barn Owl, <i>Tyto alba</i>	Tytonidae	
2016 January 15 (Penguins) (MS/4 & SS/1)				A
a	66m	Gentoo Penguin, <i>Pygoscelis papua</i>	Spheniscidae	
b	66m	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae	
c	66m	Rockhopper Penguin, <i>Eudyptes chrysocome</i>	Spheniscidae	
d	66m	Magellanic Penguin, <i>Spheniscus magellanicus</i>	Spheniscidae	
	Margin	Bkgrd: Multiple U/I penguins		
N/A	SS 175m	Emperor Penguin, <i>Aptenodytes forsteri</i> (Cap: <i>A. patagonicus</i>)	Spheniscidae	
	Margin	Top: Adélie Penguin, <i>Pygoscelis adeliae</i>	Spheniscidae	
2016 January 15 (Desert Birds) (MS/4 & SS/1)				A
a	66m	Curve-billed Thrasher, <i>Toxostoma curvirostre</i>	Mimidae	
b	66m	House Finch, <i>Haemorhous mexicanus</i>	Fringillidae	
c	66m	Gilded Flicker, <i>Colaptes chrysoides</i>	Picidae	Vol. 65(3)
d	66m	Gambel's Quail, <i>Callipepla gambelii</i>	Odontophoridae	
	Margin	UL & UR: Cactus Wren, <i>Campylorhynchus brunneicapillus</i>	Troglodytidae	
N/A	SS 175m	White-winged Dove, <i>Zenaida asiatica</i>	Columbidae	
	Margin	Top: Cactus Wren, <i>Campylorhynchus brunneicapillus</i> UL: Gila Woodpecker, <i>Melanerpes uropygialis</i>	Troglodytidae Picidae	
2016 January 15 (Cave Drawings) (MS/4 & SS/1)				A
a	66m	†Giant Moa, <i>Dinornis maximus</i>	Dinornithidae	
d	66m	†Great Auk, <i>Pinguinus impennis</i>	Alcidae	
N/A	SS 175m	†Dodo, <i>Raphus cucullatus</i>	Columbidae	
2016 May 10 (Year of Pulses) (MS/4 & SS/1)				A
a	66m	Eurasian Tree Sparrow, <i>Passer montanus</i>	Passeridae	
N/A	SS 175m	LL: White-crowned Parrot, <i>Pionus senilis</i>	Psittacidae	

MOZAMBIQUE (continued)		2016 May 10 (Waterbirds) (MS/4 & SS/1)	A
N/A	66m	Top: Greater Flamingo, <i>Phoenicopterus roseus</i> Bot: Roseate Spoonbill, <i>Platalea ajaja</i>	Phoenicopteridae Threskiornithidae
N/A	66m	Belted Kingfisher, <i>Ceryle alcyon</i>	Alcedinidae
N/A	66m	Great Blue Heron, <i>Ardea herodias</i>	Ardeidae
N/A	66m	Horned Grebe, <i>Podiceps auritus</i>	Podicipedidae
	Margin	L: Sandhill Crane, <i>Grus canadensis</i>	Gruidae
N/A	SS 175m	Long-billed Curlew, <i>Numenius americanus</i>	Scolopacidae
	Margin	Ctr: Mallard, <i>Anas platyrhynchos</i> LR: Saddle-billed Stork, <i>Ephippiorhynchus senegalensis</i> LL: Pacific Loon, <i>Gavia pacifica</i> ML: Black-crowned Night-Heron, <i>Nycticorax nycticorax</i>	Anatidae Ciconiidae Gaviidae Ardeidae
NEW CALEDONIA		2016 (Kagu Type of 2009) (Bklt/10) (s/a)	A
1076f	(75fr)	Kagu, <i>Rhynochetos jubatus</i> (like Sc#1076b, dated "2016")	Rhynochetidae
1076g		Bklt/10 (Sc#1076f) (die cut 6¾ vert)	
		2016 May 12 (Marriage) (Single)	B
1208	75fr	Horned Parakeet, <i>Eunymphicus cornutus</i> (with wedding bands)	Psittaculidae
		2016 June 10 (Natural Park of the Coral Sea) (Single)	C
1212	110fr	Roseate Tern, <i>Sterna dougallii</i>	Laridae
PAPUA NEW GUINEA		2016 January 4 (Papuan Hornbills) (Set/4, MS/4, & SS/1)	A
All stamps captioned <i>Rhyticeros plicatus</i> .			
1817	1.45k	Blyth's Hornbill, <i>Aceros plicatus</i> (org-pink bkgrd)	Bucerotidae
1818	6.60k	Same species (lilac bkgrd)	
1819	15k	Same species (lt green bkgrd)	
1820	25k	Same species (gray bkgrd)	
1821a	1.45k	Same species (pink bkgrd)	
1821b	6.60k	Same species (pink bkgrd)	
1821c	15k	Same species (pink bkgrd)	
1821d	25k	Same species (pink bkgrd)	
1822	SS 10k	Blyth's Hornbill, <i>Aceros plicatus</i>	Bucerotidae
	Margin	L & R: Same species	
PITCAIRN ISLANDS		2016 July 6 (WWF) (Strip/4 & SS/8)	A
SS denom L to R: top row highest to lowest, bottom row lowest to highest.			
818a	20c	Phoenix Petrel, <i>Pterodroma alba</i> (one in nest)	Procellariidae
818b	\$1	Same species (two in nest)	
818c	\$2.10	Same species (two in flight)	
818d	\$3	Same species (one in flight)	
818e		SS/8 (2ea Sc#818a-d)	
ST. THOMAS & PRINCE ISLANDS 2015 (Biodiversity) (2ea MS/9)			A
d	1000d	Principe Golden-Weaver, <i>Ploceus princeps</i>	Ploceidae
g	1000d	Gray Parrot, <i>Psittacus erithacus</i>	Psittacidae
b	2000d	African Green-Pigeon, <i>Treron calvus</i>	Columbidae
		2016 January 26 (11 September 2001 Memorial) (MS/4)	B
c	19000d	Bald Eagle, <i>Haliaeetus leucocephalus</i> (with US flag)	Accipitridae
		2016 March 30 (Year of Pulses) (SS/1)	B
N/A	SS 96000d	Lilac-breasted Roller, <i>Coracias caudatus</i>	Coraciidae

ST. THOMAS & PRINCE (cont)			2016 March 30 (Owls) (MS/4 & SS/1)	A
a	31000d	Indian Eagle-Owl, <i>Bubo benghalensis</i>	Strigidae	
b	31000d	Boreal Owl, <i>Aegolius funereus</i>	Strigidae	
c	31000d	African Barred Owlet, <i>Glauclidium capense</i>	Strigidae	
d	31000d	Brown Wood-Owl, <i>Strix leptogrammica</i>	Strigidae	
	Margin	U/I owls		
N/A	SS 96000d	Bot: Little Owl, <i>Athene noctua</i>	Strigidae	
		Top: Barn Owl, <i>Tyto alba</i>	Tytonidae	
	Margin	U/I owls		
			2016 March 30 (PhilaTaipei 2016) (MS/4)	A
b	31000d	Formosan Magpie, <i>Urocissa caerulea</i> (also in LR margin)	Corvidae	
			2016 July 20 (PhilaTaipei 2016–Genghis Khan) (MS/4)	B
c	19000d	Gyr Falcon, <i>Falco rusticolus</i>	Falconidae	
			2016 July 20 (Owls) (MS/4 & SS/1)	A
a	31000d	Ural Owl, <i>Strix uralensis</i>	Strigidae	
b	31000d	Boreal Owl, <i>Aegolius funereus</i>	Strigidae	
c	31000d	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
d	31000d	European Scops-Owl, <i>Otus scops</i>	Strigidae	
	Margin	R: Barn Owl, <i>Tyto alba</i>	Tytonidae	
N/A	SS 96000d	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
	Margin	LL & R: Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
			2016 July 20 (Asian Fauna) (MS/4 & SS/1)	A
a	31000d	Glossy Ibis, <i>Plegadis falcinellus</i>	Threskiornithidae	
b	31000d	Indian Roller, <i>Coracias benghalensis</i>	Coraciidae	
c	31000d	Collared Kingfisher, <i>Todiramphus chloris</i>	Alcedinidae	
d	31000d	Egyptian Vulture, <i>Neophron percnopterus</i>	Accipitridae	
	Margin	R: Gray Heron, <i>Ardea cinerea</i>	Ardeidae	
N/A	SS 96000d	Chinese Pond Heron, <i>Ardeola bacchus</i>	Ardeidae	
	Margin	LR: Great White Pelican, <i>Pelecanus onocrotalus</i>	Pelecanidae	
		UR: Rainbow Lorikeet, <i>Trichoglossus haematodus moluccanus</i>	Psittaculidae	
		LL: Tibetan Snowcock, <i>Tetraogallus tibetanus</i>	Phasianidae	
			2016 July 20 (American Fauna) (MS/4 & SS/1)	A
a	31000d	American Kestrel, <i>Falco sparverius</i>	Falconidae	
b	31000d	Common Eider, <i>Somateria mollissima</i>	Anatidae	
c	31000d	Wild Turkey, <i>Meleagris gallopavo</i>	Phasianidae	
d	31000d	American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae	
	Margin	UR: Turkey Vulture, <i>Cathartes aura</i>	Cathartidae	
		LR: American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae	
N/A	SS 96000d	Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae	
	Margin	UR: Turkey Vulture, <i>Cathartes aura</i>	Cathartidae	
		LR: American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae	
			2016 July 20 (African Fauna) (MS/4 & SS/1)	A
a	31000d	Great Cormorant, <i>Phalacrocorax carbo</i>	Phalacrocoracidae	
b	31000d	Arctic Loon, <i>Gavia arctica</i>	Gaviidae	
c	31000d	Black-browed Albatross, <i>Thalassarche melanophris</i>	Diomedidae	
d	31000d	Dalmatian Pelican, <i>Pelecanus crispus</i>	Pelecanidae	
	Margin	UR: Gray Heron, <i>Ardea cinerea</i>	Ardeidae	
N/A	SS 96000d	Emu, <i>Dromaius novaehollandiae</i>	Casuariidae	
	Margin	LL & R: Same species		

ST. THOMAS & PRINCE (cont)			2016 July 20 (Antarctic Fauna) (MS/4 & SS/1)	A
a	31000d	Arctic Loon, <i>Gavia arctica</i>	Gaviidae	
b	31000d	Razorbill, <i>Alca torda</i>	Alcidae	
c	31000d	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae	
d	31000d	King Eider, <i>Somateria spectabilis</i>	Anatidae	
	Margin	UR & R: Gyrfalcon, <i>Falco rusticolus</i>	Falconidae	
N/A	SS 96000d	Northern Pintail, <i>Anas acuta</i>	Anatidae	
	Margin	LL & R: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
			2016 September 12 (Bee-eaters) (MS/4 & SS/1)	A
a	31000d	Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	
b	31000d	European Bee-eater, <i>Merops apiaster</i> (two with flower)	Meropidae	
c	31000d	Same species (one in flight)		
d	31000d	Same species (two on branch)		
	Margin	UL: Rainbow Bee-eater, <i>Merops ornatus</i>	Meropidae	
N/A	SS 96000d	Rainbow Bee-eater, <i>Merops ornatus</i>	Meropidae	
	Margin	UL & LL: Same species		
			2016 September 12 (PhilaTaipei 2016–Dalai Lama) (MS/4 & SS/1)	A
c	15000d	Formosan Magpie, <i>Urocissa caerulea</i>	Corvidae	
	Margin	Bot: Same species		
N/A	SS 76000d	Formosan Magpie, <i>Urocissa caerulea</i>	Corvidae	
	Margin	Bot: Same species		
			2016 September 12 (Raptors) (MS/4 & SS/1)	A
a	31000d	Australian Kite, <i>Elanus axillaries</i>	Accipitridae	Vol. 65(4)
b	31000d	Bonelli's Eagle, <i>Aquila fasciatus</i>	Accipitridae	
c	31000d	Gray Hawk, <i>Buteo plagiatus</i>	Accipitridae	new*
d	31000d	Egyptian Vulture, <i>Neophron percnopterus</i>	Accipitridae	
	Margin	UL: Osprey, <i>Pandion haliaetus</i>	Pandionidae	
		UR: Black Baza, <i>Aviceda leuphotes</i>	Accipitridae	
N/A	SS 96000d	Osprey, <i>Pandion haliaetus</i>	Pandionidae	
	Margin	UR: Brahminy Kite, <i>Haliastur indus</i>	Accipitridae	
		UL: Short-toed Eagle, <i>Circaetus gallicus</i>	Accipitridae	
*This species previously appeared on various Conservation issues, but this is the first time on a postal issue.				
			2016 September 12 (s-o-s) (MS/4)	C
c	31000d	UR: Oriental Turtle-Dove, <i>Streptopelia orientalis</i> (Japan #1480)	Columbidae	
		ML: Indian Peafowl, <i>Pavo cristatus</i> (Hungary Sc#2471)	Phasianidae	
		LR: Eurasian Jay, <i>Garrulus glandarius</i> (U/I stamp)	Corvidae	
			2016 September 12 (Dinosaurs) (MS/4)	A
b	31000d	Confuciusornis, <i>Confuciusornis</i> sp.	†Confuciusornithidae	
			2016 September 12 (Mushrooms) (SS/1)	B
N/A	SS 96000d	European Shag, <i>Phalacrocorax aristotelis</i>	Phalacrocoracidae	
SERBIA			2016 April 27 (Fauna) (Horiz Strip/4 + label)	A
740b	46d	Imperial Eagle, <i>Aquila heliaca</i>	Accipitridae	
740c	50d	Eurasian Griffon, <i>Gyps fulvus</i>	Accipitridae	
SIERRA LEONE			2016 January 28 (Hippopotamus) (MS/4)	C
a	6000le	Yellow-billed Oxpecker, <i>Buphagus africanus</i> (on hippo back)	Buphagidae	
			2016 March 25 (Marine Life: Terns) (MS/4 & SS/1)	A
a	6000le	Whiskered Tern, <i>Chlidonias hybrida</i>	Laridae	
b	6000le	Black Tern, <i>Chlidonias niger</i>	Laridae	

SIERRA LEONE (continued)

c	6000le	Sooty Tern, <i>Onychoprion fuscatus</i>	Laridae
d	6000le	Common Tern, <i>Sterna hirundo</i>	Laridae
	Margin	Bot: Sooty Tern, <i>Onychoprion fuscatus</i>	Laridae
		LL: Common Tern, <i>Sterna hirundo</i>	Laridae
N/A	SS 24000le	L: Greater Crested Tern, <i>Thalasseus bergii</i>	Laridae
		R: Sooty Tern, <i>Onychoprion fuscatus</i>	Laridae
	Margin	Multiple U/I species	

2016 March 25 (Marine Life: Penguins) (MS/4 & SS/1)**A**

a	6000le	Fiordland Penguin, <i>Eudyptes pachyrhynchus</i>	Spheniscidae
b	6000le	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae
c	6000le	Adelie Penguin, <i>Pygoscelis adeliae</i>	Spheniscidae
d	6000le	Jackass Penguin, <i>Spheniscus demersus</i>	Spheniscidae
	Margin	LL: U/I penguin species	
N/A	SS 24000le	L: Fiordland Penguin, <i>Eudyptes pachyrhynchus</i>	Spheniscidae
		R: Adelie Penguin, <i>Pygoscelis adeliae</i>	Spheniscidae
	Margin	L: King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae
		LR: U/I penguin species	

2016 March 25 (Marine Life: Kingfishers) (MS/4 & SS/1)**A**

a	6000le	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae
b	6000le	Gray-headed Kingfisher, <i>Halcyon leucocephala</i>	Alcedinidae
c	6000le	White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae
d	6000le	Rufous-backed Dwarf-Kingfisher, <i>Ceyx rufidorsa</i>	Alcedinidae
N/A	SS 24000le	Yellow-billed Kingfisher, <i>Syma torotoro</i>	Alcedinidae
	Margin	L: Belted Kingfisher, <i>Megaceryle alcyon</i>	Alcedinidae
		Ctr: Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae

2016 March 25 (Marine Life: Waterbirds) (MS/4 & SS/1)**A**

a	6000le	Great Crested Grebe, <i>Podiceps cristatus</i>	Podicipedidae
b	6000le	Swan Goose, <i>Anser cygnoides</i>	Anatidae
c	6000le	Pacific Loon, <i>Gavia pacifica</i>	Gaviidae
d	6000le	L: White-tufted Grebe, <i>Rollandia rolland</i>	Podicipedidae
		R: Horned Grebe, <i>Podiceps auritus</i>	Podicipedidae
	Margin	Top: Cape Barren Goose, <i>Cereopsis novaehollandiae</i>	Anatidae
N/A	SS 24000le	Baikal Teal, <i>Anas formosa</i>	Anatidae
	Margin	ML: Eurasian Wigeon, <i>Anas penelope</i>	Anatidae
		UR & Bot: Sacred Ibis, <i>Threskiornis aethiopicus</i>	Threskiornithidae
		UL & MR: Roseate Spoonbill, <i>Platalea ajaja</i>	Threskiornithidae
		LR: Black-crowned Night-Heron, <i>Nycticorax nycticorax</i>	Ardeidae

2016 April 29 (500th anniv. Conrad Gessner) (MS/4)**B**

b	6000le	Ostrich, <i>Struthio camelus</i>	Struthionidae
c	6000le	Barn Owl, <i>Tyto alba</i>	Tytonidae

2016 May 27 (National Parks of Africa) (MS/4 & SS/1)**A**

These depict fauna in these parks on an outline of the African continent with the name of the park or reserve.

Chobe National Park–Botswana (MS/4 & SS/1)

d	6000le	L: Marabou Stork, <i>Leptoptilos crumenifer</i>	Ciconiidae
		R: Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae
N/A	SS 24000le	Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae
	Margin	MR: Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae
		Bot: Helmeted Guineafowl, <i>Numida meleagris</i>	Phasianidae

SIERRA LEONE (continued)**Moremi Game Reserve in Okovango Delta–Botswana** (MS/4)

c 6000le Cape Griffon, *Gyps coprotheres* Accipitridae

Amboseli National Park–Kenya (MS/4)

c 6000le Yellow-billed Stork, *Mycteria ibis* Ciconiidae

Etosha National Park–Namibia (MS/4 & SS/1)

a 6000le Ostrich, *Struthio camelus* Struthionidae
 N/A SS 24000le Lesser Flamingo, *Phoenicopterus minor* Phoenicopteridae
 Margin UR: Rufus-crowned Roller, *Coracias naevius* Coraciidae

Mudumu National Park–Namibia (MS/4)

b 6000le African Skimmer, *Rynchops flavirostris* Laridae

Gola Rainforest National Park–Sierra Leone (MS/4)

a 6000le Ballman's Malimbe, *Malimbus ballmanni* Ploceidae Vol. 65(3)
 c 6000le Rufous Fishing-Owl, *Scotopelia ussheri* Strigidae

Outamba-Kilimi National Park–Sierra Leone (MS/4)

a 6000le Blue-bellied Roller, *Coracias cyanogaster* Coraciidae

Western Area Peninsula National Park–Sierra Leone (SS/1)

N/A SS 24000le White-necked Rockfowl, *Picathartes gymnocephalus* Picathartidae

Ruaha National Park–Tanzania (SS/1)

N/A SS 24000le Secretary-bird, *Sagittarius serpentarius* Sagittariidae
 Margin UR & Bot: Yellow-collared Lovebird, *Agapornis personatus* Psittaculidae
 Ctr: Collared Sunbird, *Hedydipna collaris* Nectariniidae

Selous Game Reserve–Tanzania (MS/4 & SS/1)

b 6000le African Fish-Eagle, *Haliaeetus vocifer* Accipitridae
 N/A SS 24000le African Spoonbill, *Platalea alba* Threskiornithidae
 Margin Ctr: White-fronted Bee-eater, *Merops bullockoides* Meropidae

Bwindi Impenetrable National Park–Uganda (MS/4 & SS/1)

a 6000le Handsome Francolin, *Francolinus nobilis* Phasianidae Vol. 65(4)
 c 6000le Shoebill, *Balaeniceps rex* Balaenicipitidae
 N/A SS 24000le African Emerald Cuckoo, *Chrysococcyx cupreus* Cuculidae
 Margin UR: Jackson's Hornbill, *Tockus jacksoni* Bucerotidae **new**
 LR: Red-headed Bluebill, *Spermophaga ruficapilla* Estrildidae

South Luangwa National Park–Zambia (MS/4)

d 6000le Hooded Vulture, *Necrosyrtes monachus* Accipitridae

Mana Pools National Park–Zimbabwe (MS/4)

c 6000le Cardinal Woodpecker, *Dendropicos fuscescens* Picidae

2016 August 29 (Birds of Prey) (MS/4 & SS/1)

a 6000le Yellow-headed Caracara, *Milvago chimachima* Falconidae **A**
 b 6000le Bald Eagle, *Haliaeetus leucocephalus* Accipitridae
 c 6000le Osprey, *Pandion haliaetus* Pandionidae
 d 6000le Eurasian Griffon, *Gyps fulvus* Accipitridae
 N/A SS 24000le African Goshawk, *Accipiter tachiro* Accipitridae
 Margin UL: Eurasian Griffon, *Gyps fulvus* Accipitridae
 UR: Osprey, *Pandion haliaetus* Pandionidae
 Bot: Golden Eagle, *Aquila chrysaetos* Accipitridae

SIERRA LEONE (continued)		2016 August 29 (Owls) (MS/4 & SS/1)		A
a	6000le	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
b	6000le	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae	
c	6000le	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
d	6000le	Short-eared Owl, <i>Asio flammeus</i>	Strigidae	
N/A	SS 24000le	Barn Owl, <i>Tyto alba</i>	Tytonidae	
	Margin	UL: Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
		UR: Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
		Bot: Spotted Owlet, <i>Athene brama</i>	Strigidae	
		2016 August 29 (Extinct Animals) (MS/4)		A
d	6000le	Dodo, <i>Raphus cucullatus</i>	Columbidae	
N/A	SS 24000le	UR: Dodo, <i>Raphus cucullatus</i>	Columbidae	
		2016 August 29 (Hummingbirds) (MS/4 & SS/1)		A
a	6000le	Rufous-tailed Hummingbird, <i>Amazilia tzacatl</i>	Trochilidae	
b	6000le	Anna's Hummingbird, <i>Calypte anna</i>	Trochilidae	
c	6000le	Ruby-throated Hummingbird, <i>Archilochus colubris</i>	Trochilidae	
d	6000le	Booted Racket-tail, <i>Ocreatus underwoodii</i>	Trochilidae	
N/A	SS 24000le	Booted Racket-tail, <i>Ocreatus underwoodii</i>	Trochilidae	
	Margin	UR: Anna's Hummingbird, <i>Calypte anna</i>	Trochilidae	
		UL: Booted Racket-tail, <i>Ocreatus underwoodii</i>	Trochilidae	
		Bot: Rufous Hummingbird, <i>Selasphorus rufus</i>	Trochilidae	
		2016 August 29 (Sunbirds) (MS/4 & SS/1)		A
a	6000le	Purple-throated Sunbird, <i>Leptocoma sperata</i>	Nectariniidae	
b	6000le	Variable Sunbird, <i>Cinnyris venustus</i>	Nectariniidae	
c	6000le	Long-billed Sunbird, <i>Cinnyris lotenius</i>	Nectariniidae	new
d	6000le	Greater Double-collared Sunbird, <i>Cinnyris afer</i>	Nectariniidae	
N/A	SS 24000le	Purple-throated Sunbird, <i>Leptocoma sperata</i>	Nectariniidae	
	Margin	UL: Greater Double-collared Sunbird, <i>Cinnyris afer</i>	Nectariniidae	
		UR: Purple-throated Sunbird, <i>Leptocoma sperata</i>	Nectariniidae	
		Bot: Green-tailed Sunbird, <i>Aethopyga nipalensis</i>	Nectariniidae	
		2016 August 29 (Parrots) (MS/4 & SS/1)		A
a	6000le	Sun Parakeet, <i>Aratinga solstitialis</i>	Psittacidae	
b	6000le	Budgerigar, <i>Melopsittacus undulates</i>	Psittaculidae	
c	6000le	Kea, <i>Nestor notabilis</i>	Psittaculidae	
s	6000le	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
N/A	SS 24000le	White Cockatoo, <i>Cacatua alba</i>	Cacatuidae	new
	Margin	UR: Sun Parakeet, <i>Aratinga solstitialis</i>	Psittacidae	
		UL: Budgerigar, <i>Melopsittacus undulates</i>	Psittaculidae	
		Bot: Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
SWEDEN		2016 August 25 (Birds) (Set/2) (coil) (s/a)		A
2780	30k	Common Redpoll, <i>Acanthis flammea</i>	Fringillidae	
2781	40k	Eurasian Hoopoe, <i>Upupa epops</i>	Upupidae	
TANZANIA		2011 September 8 (Surcharges) (Set/2)		A
2627A	900sh	Scarlet-chested Sunbird, <i>Chalcomitra senegalensis</i> (on Sc#611)	Nectariniidae	
2627B	900sh	Afep Pigeon, <i>Columba unicincta</i> (on Sc#611B)	Columbidae	

TOGO

In *Biophilately* Vol. 65(4), I gave a look at the stamp issuing policy of Togo that I considered obscene and outrageous for a small nation of just over five million in population. I also stated that I have ended the collecting of Togo stamps featuring birds because of their greedy looting of the pockets of collectors. I know that many collectors like to have completeness as far as their hobby, and that is their right and prerogative as a collector.

Listed below is more insanity by Togo. On 16 November 2016, several MS/4 se-tenant stamps and SS/1 were released under the theme of "National Fauna." Each of the stamps feature birds or other fauna, and each has the country name and country flag featured in the lower left corner of the stamp. This list includes the country flag for those stamps featuring birds.

2016 November 16 (TG16401a&b)				A
a	900fr	Oriental Magpie-Robin, <i>Copsychus saularis</i>	Muscicapidae	Bangladesh
d	900fr	White Wagtail, <i>Motacilla alba</i>	Motacillidae	Latvia
N/A	SS 3300fr	Rufous Hornero, <i>Furnarius rufus</i>	Furnariidae	Argentina
	Margin	LR & Bot: Same species		
2016 November 16 (TG16402a)				A
a	900fr	Cuban Trogon, <i>Priotelus temnurus</i>	Trogonidae	Cuba
d	900fr	Southern Lapwing, <i>Vanellus chilensis</i>	Charadriidae	Uruguay
2016 November 16 (TG16403a&b)				A
a	900fr	Andean Condor, <i>Vultur gryphus</i>	Cathartidae	Columbia
b	900fr	Gyr Falcon, <i>Falco rusticolus</i>	Falconidae	Iceland
d	900fr	Formosan Magpie, <i>Urocissa caerulea</i>	Corvidae	Taiwan
N/A	SS 3300fr	Eurasian Kestrel, <i>Falco tinnunculus</i>	Falconidae	Belgium
	Margin	LR & Bot: Same species		
2016 November 16 (TG16404a&b)				A
c	900fr	White Stork, <i>Ciconia ciconia</i>	Ciconiidae	Lithuania
N/A	SS 3300fr	Rufous-bellied Thrush, <i>Turdus rufiventris</i>	Turdidae	Brazil
	Margin	UR & LR: Same species		
2016 November 16 (TG16405a)				A
b	900fr	Chukar, <i>Alectoris chukar</i>	Phasianidae	Iraq
c	900fr	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	Egypt
d	900fr	Raggiana Bird-of-Paradise, <i>Paradisaea raggiana</i>	Paradisaeidae	Papua N. G.
2016 November 16 (TG16406a&b)				A
b	900fr	Wire-tailed Swallow, <i>Hirundo smithii</i>	Hirundinidae	Estonia
c	900fr	Cuban Parrot, <i>Amazona leucocephala</i>	Psittacidae	Cayman Islands
d	900fr	Black-tailed Godwit, <i>Limosa limosa</i>	Scolopacidae	Netherlands
N/A	SS 3300fr	Red-crowned Crane, <i>Grus japonensis</i>	Gruidae	China P.R.
	Margin	R: Same species LL: Eurasian Tree Sparrow, <i>Passer montanus</i>	Passeridae	
2016 November 16 (TG16407a)				A
a	900fr	Eurasian Hoopoe, <i>Upupa epops</i>	Upupidae	Israel
b	900fr	Dodo, <i>Raphus cucullatus</i>	Columbidae	Mauritania
d	900fr	Hispaniolan Trogon, <i>Priotelus roseigaster</i>	Trogonidae	Haiti
2016 November 16 (TG16408a)				A
b	900fr	Andean Condor, <i>Vultur gryphus</i>	Cathartidae	Chile
c	900fr	African Fish-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae	Zimbabwe

TOGO (continued)		2016 November 16 (TG16409a)		A
a	900fr	Giant Ibis, <i>Pseudibis gigantea</i>	Threskiornithidae	Cambodia
c	900fr	Italian Sparrow, <i>Passer italiae</i>	Passeridae	Italy
d	900fr	Lilac-breasted Roller, <i>Coracias caudatus</i>	Coraciidae	Kenya
		2016 November 16 (TG16410a&b)		A
c	900fr	Harpy Eagle, <i>Harpia harpyja</i>	Accipitridae	Panama
d	900fr	Great Philippine Eagle, <i>Pithecophaga jefferyi</i>	Accipitridae	Philippines
N/A	SS 3300fr	Red Junglefowl, <i>Gallus gallus</i>	Phasianidae	France
	Margin	LR: Same species		
		2016 November 16 (TG16411a&b)		A
a	900fr	Streamertail, <i>Trochilus polytmus</i>	Trochilidae	Jamaica
b	900fr	Venezuelan Troupial, <i>Icterus icterus</i>	Icteridae	Venezuela
d	900fr	Andean Condor, <i>Vultur gryphus</i>	Cathartidae	Bolivia
N/A	SS 3300fr	UR & Bot: Little Owl, <i>Athene noctua</i>	Strigidae	Greece
		2016 November 16 (TG16412a&b)		A
a	900fr	Resplendent Quetzal, <i>Pharomachrus mocinno</i>	Trogonidae	Guatemala
d	900fr	Goldcrest, <i>Regulus regulus</i>	Regulidae	Luxembourg
N/A	SS 3300fr	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	Germany
	Margin	R & Bot: Same species		
		2016 November 16 (TG16413a&b)		A
a	900fr	Eurasian Blackbird, <i>Turdus merula</i>	Turdidae	Sweden
b	900fr	Gray Crowned-Crane, <i>Balearica regulorum</i>	Gruidae	Uganda
d	900fr	Saker Falcon, <i>Falco cherrug</i>	Falconidae	Hungary
N/A	SS 3300fr	Indian Peafowl, <i>Pavo cristatus</i>	Phasianidae	India
		2016 November 16 (TG16414a&b)		A
a	900fr	Ceylon Junglefowl, <i>Gallus lafayettii</i>	Phasianidae	Sri Lanka
b	900fr	Lammergeier, <i>Gypaetus barbatus</i>	Accipitridae	Andorra
d	900fr	Eurasian Oystercatcher, <i>Haematopus ostralegus</i>	Haematopodidae	Faroe Is.
N/A	SS 3300fr	White-throated Dipper, <i>Cinclus cinclus</i>	Cinclidae	Norway
		2016 November 16 (TG16415a&b)		A
a	900fr	Grenada Dove, <i>Leptotila wellsi</i>	Columbidae	Grenada
b	900fr	Barbary Partridge, <i>Alectoris barbara</i>	Phasianidae	Gibraltar
c	900fr	White-cheeked Turaco, <i>Tauraco leucotis</i>	Musophagidae	Ivory Coast
d	900fr	Sinai Rosefinch, <i>Carpodacus synoicus</i>	Fringillidae	Jordan
N/A	SS 3300fr	Green Pheasant, <i>Phasianus versicolor</i>	Phasianidae	Japan
	Margin	R & Bot: Same species		
		2016 November 16 (TG16416a)		A
a	900fr	Palestine Sunbird, <i>Cinnyris osea</i>	Nectariniidae	Palestine
b	900fr	American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae	Bahamas
c	900fr	Red-crested Turaco, <i>Tauraco erythrolophus</i>	Musophagidae	Angola
d	900fr	Rhinoceros Hornbill, <i>Buceros rhinoceros</i>	Bucerotidae	Malaysia
		2016 November 16 (TG16417a&b)		A
a	900fr	Common Bulbul, <i>Pycnonotus barbatus</i>	Pycnonotidae	Liberia
b	900fr	White-breasted Waterhen, <i>Amaurornis phoenicurus</i>	Rallidae	Maldives
c	900fr	African Fish-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae	Namibia
d	900fr	Northern Goshawk, <i>Accipiter gentilis</i>	Accipitridae	N. Korea
N/A	SS 3300fr	North Island Brown Kiwi, <i>Apteryx mantelli</i>	Apterygidae	N. Zealand
	Margin	UR & Bot: Same species		

TOGO (continued)		2016 November 16 (TG16418a&b)		A
a	900fr	Turquoise-browed Motmot, <i>Eumomota superciliosa</i>	Momotidae	Nicaragua
b	900fr	Black Crowned-Crane, <i>Balearica pavonina</i>	Gruidae	Nigeria
c	900fr	Puerto Rican Spindalis, <i>Spindalis portoricensis</i>	Thraupidae	new Puerto Rico
d	900fr	Barn Swallow, <i>Hirundo rustica</i>	Hirundinidae	Austria
N/A	SS 3300fr	Tundra Swan, <i>Cygnus columbianus</i>	Anatidae	Russia
	Margin	R & Bot: Same species		
		2016 November 16 (TG16419a&b)		A
a	900fr	Keel-billed Toucan, <i>Ramphastos sulfuratus</i>	Ramphastidae	Belize
b	900fr	Bermuda Petrel, <i>Pterodroma cahow</i>	Procellariidae	Bermuda
c	900fr	Palmchat, <i>Dulus dominicus</i>	Dulidae	Dominican Rep.
d	900fr	Andean Condor, <i>Vultur gryphus</i>	Cathartidae	Ecuador
N/A	SS 3300fr	Blue Crane, <i>Anthropoides paradiseus</i>	Gruidae	Central Africa
	Margin	UR: Same species		
		2016 November 16 (TG16420a&b)		A
a	900fr	Bare-throated Bellbird, <i>Procnias nudicollis</i>	Cotingidae	Paraguay
b	900fr	Scarlet Ibis, <i>Eudocimus ruber</i>	Threskiornithidae	Trinidad
c	900fr	African Fish-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae	Zambia
d	900fr	Saker Falcon, <i>Falco cherrug</i>	Falconidae	Mongolia
N/A	SS 3300fr	Redwing, <i>Turdus iliacus</i>	Turdidae	Turkey
		2016 November 16 (TG16421a&b)		A
a	900fr	Crimson Sunbird, <i>Aethopyga siparaja</i>	Nectariniidae	Singapore
d	900fr	Turquoise-browed Motmot, <i>Eumomota superciliosa</i>	Momotidae	Salvador
N/A	SS 3300fr	Red Kite, <i>Milvus milvus</i>	Accipitridae	UK
		2016 November 16 (TG16422a&b)		A
b	900fr	Kori Bustard, <i>Ardeotis kori</i>	Otididae	Botswana
d	900fr	Gray Peacock-Pheasant, <i>Polyplectron bicalcaratum</i>	Phasianidae	Myanmar
N/A	SS 3300fr	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae	US
	Margin	R & Bot: Same species		
TONGA		2016 April 25 (400th anniv. Dutch Explorers in Tonga) (MS/4)		C
1295a	1.20pa	White Tern, <i>Gygis alba</i> (in bkgrd)	Laridae	
1295b	2.25pa	Same species		
1295c	2.70pa	Same species		
1295d	5pa	Same species		
UNITED NATIONS (Geneva)		2016 September 24 (World Wildlife Conference) (MS/4)		A
628a	2fr	Gray Crowned-Crane, <i>Balearic regulorum</i>	Gruidae	
UNITED NATIONS (Vienna)		2016 September 24 (World Wildlife Conference) (MS/4)		A
596b	€1.70	Cape Vulture, <i>Gyps coprotheres</i>	Accipitridae	

NEW BIRDS IN THE PHILATELIC AVIARY

Charles E. Braun, BU1364

Corrections

In Vol. 65(4), p.303, the correct name of the Guinea bird is **BROWN-HEADED PARADISE-KINGFISHER**, and on p.306, the correct name is **SALTMARSH SPARROW**.

In Vol. 64(3), p.103, the bird on Bolivia, 2011, 5.50b has been identified as a Giant Coot. Horned Coot is removed from the Aviary.

New Birds



BARE-FACED IBIS, *Phimosus infuscatus* Threskiornithidae
St. Martin, 2017 January 20, not yet cataloged, 125c

Length: 18 to 22 inches. Sexes alike, resident. Black with a red face, bill, and legs.

Habitat: Open wet areas.

Range: Eastern Colombia to eastern Bolivia and Uruguay.

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



GRAY HAWK, *Buteo plagiatus* Accipitridae

St. Thomas & Prince, 2016 September 12, not yet cataloged, 31000d
(Surinam, 2015, Sc#14831, \$7.55 shows a Gray-lined Hawk, *Buteo nitidus*)

Length; 15 to 17 inches, sexes alike, migratory. Gray above and whitish below with a white-barred black tail.

Habitat: Tropical and subtropical zones.

Range: Breeds from southern Texas and New Mexico to northwestern Costa Rica.

Winters from Mexico to northwestern Costa Rica,

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



LARGE-BILLED TERN, *Phaetusa simplex* Laridae

St. Martin, 2017 January 20, not yet cataloged, 100c

Length: 15 inches, sexes alike, migratory. Gray above and white below with a black crown, ear coverts, and tail and a yellow bill.

Habitat: Inland lakes and rivers. Winters on the coast.

Range: Eastern Colombia to Trinidad and north-central Argentina and coastal Ecuador. Winters along the Atlantic coast.

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

of the World, Volume 3.



WHITE-WINGED COLLARED-DOVE, *Streptopelia reichenowi* Columbidae.

Mozambique, 2015 June 15, not yet cataloged, MS/4 LR margin

Length: 10 inches, resident. The male (shown) is brown above and creamy white below with a dark bluish-gray head and a black hind collar. The female is grayish-brown above.

Habitat: Broad-leaved trees and fan palms.

Range: Southeastern Ethiopia and southwestern Somalia.

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



PAPUAN MOUNTAIN-PIGEON, *Gymnophaps albertsii* Columbidae

Djibouti, 2016 September 26, not yet cataloged, 260fr

Length: 13 to 14 inches, resident. The male (shown) is dark gray above and pinkish cream below with red eyes. The female is gray below.

Habitat: Primary forest.

Range: New Guinea, New Britain, New Ireland, and Bacan (Moluccas).

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



WHITE-THROATED HUMMINGBIRD, *Leucochloris albicollis* Trochilidae

Mozambique, 2016 July 10, not yet cataloged, 100m

Length: 4 to 5 inches, sexes similar, resident. Golden to bronze-green above and white below with a green breast.

Habitat: Forest edges, scrub, and marshes.

Range: Eastern Bolivia to southeastern Brazil and northern Argentina.

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



GLOSSY BLACK-COCKATOO, *Calyptorhynchus lathami* Cacatuidae

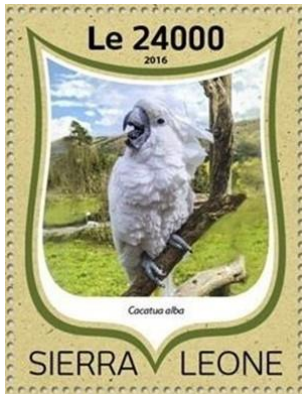
Guinea, 2014 May 15, not yet cataloged, 15000fr

Length: 18 to 20 inches, resident. The male (shown) is black with a red panel across the tail. The female has yellow patches on the head.

Habitat: Coastal forest and woodland.

Range: Eastern Australia

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



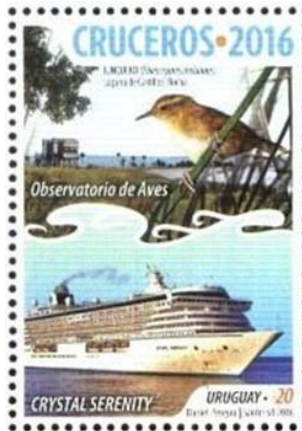
WHITE COCKATOO, *Cacatua alba* Cacatuidae
Sierra Leone, 2016 August 29, not yet cataloged, SS 24000Le

Length: 19 inches, resident. The male (shown) is white with a gray-black bill, gray feet and a black eyes. The female has red-brown eyes.

Habitat: Primary and logged lowland forest.

Range: Southern Moluccas, Indonesia.

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



WREN-LIKE RUSHBIRD, *Phleocryptes melanops* Furnariidae
Uruguay, 2016 December 1, not yet cataloged, 20p

Length: 5 inches, sexes similar, mainly resident. Brown-streaked black above and whitish buff below with a dark-brown head and white superciliary, and throat.

Habitat: Marshes and lake edges.

Range: Western Peru to southern Chile and southeastern Brazil

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



SOUTHERN MARQUESAN REED-WARBLER, *Acrocephalus mandanae*
Acrocephalidae

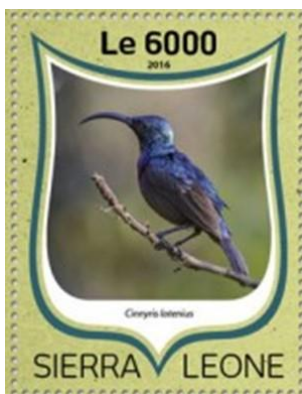
French Polynesia, 2016 December 9, not yet cataloged, 100fr

Length: 7 inches, sexes similar, resident. Yellowish-olive and greenish-olive above and bright yellow below with a yellow supercilium.

Habitat: Plantations, bushy hillsides, and wet upland forest.

Range: Marquesas, French Polynesia.

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



LONG-BILLED SUNBIRD, *Cinnyris lotenius*
Sierra Leone. 2016 August 29, not yet cataloged, 6000Le

Length: 5 inches, resident. The male (shown) is dark glossed blue-green and purple above and metallic purple below. The female is brownish-olive above and yellow below.

Habitat: Deciduous woodland, farms, and gardens.

Range: Southwestern and southern India and Sri Lanka.

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



PUERTO RICAN SPINDALIS, *Spindalis portoricensis* Thraupidae
Togo, 2016 November 16, not yet cataloged, 900fr

Length: 7 inches, resident. The male (shown) is olive green above and yellow below with a white-striped black head and an orange collar. The female is olive-brown above and pale sandy buff below with a whitish supercilium and a yellowish collar.

Habitat: Woodland and forest.

Range: Puerto Rico.

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

BARN SWALLOW

The U.S. Postal Service will issue a new postal stationery item on Friday, 3 March 2017, at the American Philatelic Society (APS) AmeriStamp Expo at the Reno Sparks Convention Center in Reno, Nevada.

The first day ceremony will take place at 11:00 AM on the show floor.

The design shows a Barn Swallow (*Hirundo rustica*) perched on a branch with another swallow in flight behind it.

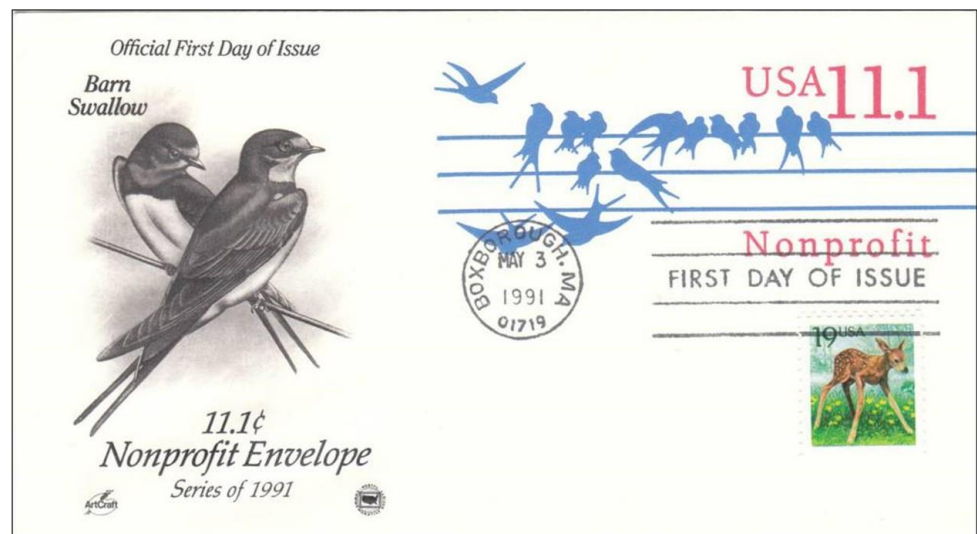
The format is still to be determined. However, the new stamped envelope continues a series depicting wild birds that began in 2012 with the Purple Martin envelope (Sc#U677–78) and continued in 2013 with the Bank Swallow envelope (Sc#U680–81). So, it is likely that the envelopes will be issued in two standard sizes. Art director William J. Gicker designed the stamp based on original art by Matthew Frey.

The USPS previously issued a non-profit embossed envelope in 1991 depicting silhouettes of barn swallows perched on lines (Sc#U620).

The Barn Swallow is the most widespread swallow species in the world. They breed across the Northern Hemisphere and winter in the Southern Hemisphere.

These birds originally nested in caves or on cliff faces, but adapted to using man-made structures by building their mud nests under the eaves of barns, houses, and bridges.

Barn swallows are acrobatic flyers, and a single bird can catch and consume thousands of insects in one day.





HERPETOLOGY

Associate Editor

Dick Roman, LM83

New Listings



[Ed. Note: Occasionally in this section and also in the Fungi section, we will note a species that is known to be poisonous 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.]

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AUSTRALIA				
2016 August 16 (Items Starting with Same Letter) (Set/5 & Coil strip/5)				
4521	\$1	Crocodile, <i>Crocodylus</i> sp. (perf 14¾×14)	Crocodylidae	B
4522	\$1	Lace Monitor, <i>Varanus varius</i> (perf 14¾×14)	Varanidae, Platynota	B
4526	\$1	Crocodile, <i>Crocodylus</i> sp. (s/a) (die cut 11¼)	Crocodylidae	B
4526a		Bklt/10 (Sc#4526)		
4527	\$1	Lace Monitor, <i>Varanus varius</i> (die cut 11¼)	Varanidae, Platynota	B
4527a		Bklt/10 (Sc#4527)		
4529b		Vert coil strip/5 (Sc#4525–29)		
2016 September 20 (Endangered Animals) (Set/7, SS/7, & Bklt)				
4540	\$1	Western Swamp Turtle, <i>Pseudemydura umbrina</i>	Mantellidae, Mantellinae	A
4543	\$1	Carroboree Frog, <i>Pseudophryne corroboree</i>	Myobatrachidae, Limnodynastinae	A
4543a		SS/7 (Sc#4537–43) (perf 14×14¾, 13¾×14)		
4545	\$1	Western Swamp Turtle, <i>Pseudemydura umbrina</i> (s/a)	Mantellidae, Mantellinae	A
4547a		Horiz coil strip/4 (Sc#4544–47) (s/a) (die cut 11¼)		
4547b		Bklt/20 (6ea Sc#4544–45 & 4ea Sc#4546–47) (s/a) (die cut 11¼)		
4548	\$1	Carroboree Frog, <i>Pseudophryne corroboree</i>	Myobatrachidae, Limnodynastinae	A
4548a		Bklt/10 (Sc#4548) (s/a) (10¾×11)		
CAYMAN ISLANDS				
2015 December 2 (Children's Christmas stamps winning designs)(Set/4)				
1163	75c	Stylized turtle (by Zara Garofolo)		S
CHRISTMAS ISLAND				
2016 February 3 (New Year Types of 2008–15) (MS/14)				
545j	50c	Stylized snake		S
545o		Bklt/4 (Sc#545f, Sc#545j, 2ea Sc#543) (perf 14¾×14)		
545		MS/14 (Sc#543–44, Sc#545a–l)		
546i	60c	Stylized snake		S
546		MS/13 (Sc#546a–m) (s/a) (die cut 12¼)		
CZECH REPUBLIC				
2016 September 7 (Tree Frog)				
3681	(16k)	European Tree Frog, <i>Hyla arborea</i>	Hylidae	A
2016 September 7 (Animals in Czech Republic Zoos) (MS/4)				
3685	Margin	UL: Gharial, <i>Gavialis gangeticus</i>	Gavialidae	Z
DOMINICA				
2015 December 1 (Morne Trois Pitons N.P.) (MS/6)				
2808c	\$3.50	Lesser Antillean Iguana, <i>Iguana delicatissima</i>	Iguanidae, Iguania	A
DOMINICAN REPUBLIC				
2016 June 15 (Anoles) (Block/4)				
1595a	50p	<i>Anolis divius</i> Köhler & Hedges	Polychrotidae	(new) A
1595b	50p	<i>Anolis prasinorius</i> Köhler & Hedges	Polychrotidae	(new) A
1595c	50p	<i>Anolis viridius</i> Köhler & Hedges	Polychrotidae	(new) A
1595d	50p	<i>Anolis eladioi</i> Köhler & Hedges	Polychrotidae	(new) A

ECUADOR		2015 November 11 (Tourism) (Strip/5, SS, & 2ea Bklt/8)		
2169a	\$1	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A
2169c	\$1	Smooth-fronted Caiman, <i>Paleosuchus trigonatus</i>	Alligatoridae	(new) A
2169e	\$1	Marine Iguana, <i>Amblyrhynchus cristatus</i>	Iguanidae, Iguania	A
2170	\$5	UL: Galápagos Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	B
		UR: U/I Caiman	Alligatoridae	B
2171a	25c	Amazon Basin Emerald Tree Boa, <i>Corallus batesii</i>	Boidae, Boinae	A
2171e	75c	Pacific Horned Frog, <i>Ceratophrys stolzmanni</i>	Ceratophryidae	A
2171		Bklt/8 (Sc#2171a–h) (s/a) (die cut)		
2172b	25c	Marine Iguana, <i>Amblyrhynchus cristatus</i>	Iguanidae, Iguania	A
2172		Bklt/8 (Sc#2172a–h) (s/a) (die cut)		
		2016 March 31 (Amphibians) (Bklt/8) (s/a)		
2177a	25c	Anthony's Poison Arrow Frog, <i>Epipedobates anthonyi</i> (♂)	Dendrobatidae, Colostethinae	A
2177b	25c	Prince Charles Stream Tree Frog, <i>Hyloscirtus princecharlesi</i>	Hylidae	A
2177c	50c	<i>Oophaga sylvatica</i> (♂)	Dendrobatidae	A
2177d	50c	Pacific Horned Frog, <i>Ceratophrys stolzmanni</i>	Ceratophryidae	A
2177e	75c	Andean Marsupial Tree Frog, <i>Gastrotheca riobambae</i>	Hemiphractidae	A
2177f	75c	<i>Hyalinobatrachium aureoguttatum</i>	Centrolenidae, Hyalinobatrachinae	A
2177g	\$1	Imbabura Tree Frog, <i>Hypsiboas picturatus</i>	Hylidae, Hyalinae	A
2177h	\$1	Rio Pescado Stubfoot Toad, <i>Atelopus balius</i>	Bufoidea	A
FRANCE		2016 January 29 (Year of the Monkey) (MS/4)		
4971a	80c	Stylized snake (like Sc#4315)		S
MEXICO		2015 May 24 (25th anniv. University of Quintana Roo)		
3007	11.50p	Stylized snake on Mexican coat of arms (tiny)		S C
NEW CALEDONIA		2016 June 10 (Natural Park of the Coral Sea)		
1212	1.10fr	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	C
SRI LANKA		2016 May 27 (50th anniv. Sri Lanka Tourism)		
2025	15r	Stylized sea turtle & lizard silhouettes (tiny)		S C
TONGA		2016 March 14 (WWF) (Set/4 & Strip/4)		
1290	1.20pa	Fiji Banded Iguana, <i>Brachylophus fasciatus</i> (with white frame)	Iguanidae, Iguania	A
1291	2pa	Same species		A
1292	2.25pa	Same species		A
1293	2.70pa	Same species		A
1294a	1.20pa	Fiji Banded Iguana, <i>Brachylophus fasciatus</i>	Iguanidae, Iguania	A
1294b	2pa	Same species		A
1294c	2.25pa	Same species		A
1294d	2.70pa	Same species		A
1294		Strip/4 (Sc#1294a–d) (without white frame)		
UNITED NATIONS		2016 October 24 (Sustainable Development Goals) (MS/17)		
1147	Margin	LL: Stylized bullfrog silhouette		S C
UNITED NATIONS (Geneva)		2016 September 24 (World Wildlife Conference Johannesburg) (MS/4)		
628b	2fr	Malagasy Painted Mantella, <i>Mantella madagascariensis</i>	Mantellidae, Mantellinae	A
		2016 October 24 (Sustainable Development Goals) (MS/17)		
629	Margin	LL: Stylized bullfrog silhouette		S C
UNITED NATIONS (Vienna)		2016 September 24 (World Wildlife Conference Johannesburg) (MS/4)		
596a	€1.70	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	A

UNITED NATIONS (Vienna) (cont) **2016 October 24** (Sustainable Development Goals) (MS/17)
597 Margin LL: Stylized bullfrog silhouette

S C

UZBEKISTAN **2016 May 23** (Fauna) (Set/2)

809 1900s Horsfield's Tortoise, *Testudo horsfieldii*

Testudinidae

A

FLORA STAMPS

The Marshall Islands will issue a pane of ten 49c flora stamps at a first day ceremony during the American Philatelic Society AmeriStamp Expo in Reno, Nevada. The show will take place 3-5 March 2017, at the Reno-Sparks Convention Center, 4590 South Virginia Street.

The first day ceremony is set for 1:00 PM on Friday, 3 March. See the show website (<http://stamps.org/AmeriStamp-Expo-ASE>) for information about the ceremony and other scheduled events.



The Flowers depicted are (top row, from left): Plumeria (*Plumeria rubra*), Hibiscus (*Hibiscus rosa-sinensis*), Primrose Willow (*Ludwigia peruviana*), Soursop (*Annona muricata*), and Globe Amaranth (*Gomphrena globosa*); (bottom row, from left) Arrowleaf Elephant's Ear (*Xanthosoma sagittifolium*), Field Pumpkin (*Cucurbita pepo*), Asiatic Pennywort (*Centella asiatica*), Fire-on-the-Mountain (*Euphorbia cyathophora*), and Polynesian Arrowroot (*Tacca leontopetaloides*).

The stamps were designed by Uncover artist D.Z. Seemel.

ICE WORMS

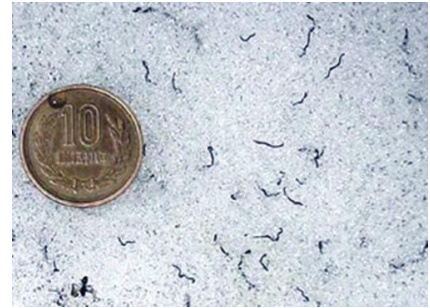
We are continually discovering that life can exist in conditions once thought impossible. In the 1970s, scientists discovered thriving communities living around hydrothermal vents at great depths along the mid-ocean ridges. These organisms exist in the complete absence of sunlight, which was once thought to be the sole source of energy for all forms of life.

The species in these ecosystems depend on bacteria that synthesize organic material from the vent chemicals. In addition, they live in temperatures that would cook most other creatures.

According to Heraclitus of Ephesus in his Theory of Opposites, everything has an opposite and therefore, if there are organisms that survive in great heat, there must be others that survive in great cold.

Thus, we present the ice worm. Ice worms are annelids (segmented worms) belonging to the genus *Mesenchytraeus*. This genus contains 77 species, the majority of which live in gravel beds, or in riverine habitats. However, the best known members are found living in glacial ice.

Mesenchytraeus solifugus spends its entire life in coastal glaciers from Alaska to northern Washington state. They tunnel through the ice eating snow algae and pollen. Counts reveal between 30 and 300 worms per square meter. This makes the total quantity of worms in all the coastal glaciers greater than Earth's entire human population. They are dark brown and measure only 15 mm (0.6 in) in length. Scientists believe their life span is five to ten years.



Ice worms are the only worms known to spend their entire life in temperatures near the freezing point of water. They have a very narrow acceptable temperature range. They will freeze at about -6.8 C (19.8°F) and their bodies literally melt at temperatures above 5 C (41°F).

Researchers are now investigating what prevents the worm from freezing at 0 C (32°F). Understanding the ice worm's secret could help preserve vital organs for transplant, and could aid in understanding possible life forms on cold planets. Unfortunately, there is yet to be a stamp depicting these creatures.

**ANIMALS; DOGS & CATS; HORSES; INSECTS; BUGS
BUTTERFLIES; MALARIA; FLOWERS & PLANTS; ORCHIDS
MUSHROOMS; MARINE LIFE; FISH; TURTLES; REPTILES
SHELLS; WHALES & SEALS; BIRDS; MINERALS
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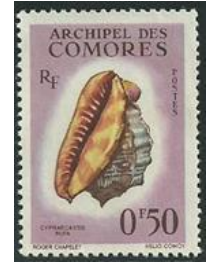
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MARINE INVERTEBRATES

Editor

Ian Hunter, BU1619

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ALBANIA 2015 December 23 (Underwater Fauna) (Horiz pair & SS/1)				
2980a	5l	Mediterranean Fan Worm, <i>Sabella spallanzanii</i>	Sabellidae	A
2980b	150l	Mediterranean Feather Star, <i>Antedon mediterranea</i>	Antedonidae	A
2981	SS 250l	Mediterranean Jelly Fish, <i>Cotylorhiza tuberculata</i>	Cepheidae	A
AUSTRALIA 2016 March 1 (Items Starting with Same Letter) (Horiz strip/5 & Bklt)				
4454	\$1	Surf, surfboard, sand castle, starfish, sausage, shark, toy, shell, snail, map		S C
4459	\$1	Like Sc#4454 (die cut 1 1/4 syncopated) (s/a)		S C
4459a		Bklt/10 (Sc#4459)		
BOSNIA & HERZEGOVINA 2016 August 5 (Summer Sports & Recreation)				
768	2.50m	Stylized starfish, shell, crab, dolphins, and fish in beach scene		S C
BOSNIA & HERZEGOVINA (Serb) 2016 October 14 (River Fauna) (Set/5)				
552	1m	European Crayfish, <i>Astacus astacus</i>	Astacidae	A
BHUTAN 2016 (Auspicious Symbols) (MS/8)				
1546g	30nu	Indian Chank Shell, <i>Turbinella pyrum</i>	Turbinellidae	A
CHRISTMAS ISLAND 2016 October 31 (Christmas) (SS/2)				
553a	Margin	Bot: Stylized Crabs		S Z
DJIBOUTI 2016 June 6 (Shells)				
1034a	260fr	Red Helmet Shell, <i>Cypraeassis rufa</i>	Cassidae	A
1034b	260fr	Triton's Trumpet, <i>Charonia tritonis</i>	Ranellidae	A
1034c	260fr	a Top Shell, <i>Trochus nodulosus</i>	Trochidae	A
1034d	260fr	Ermine Cone, <i>Conus mustelinus</i>	Conidae	A
1053	SS 960fr	Spider Conch, <i>Lambis lambis</i>	Strombidae	A
	Margin	Top: Beaded Prickly Winkle, <i>Tectarius coronatus</i>	Littorinidae	Z
		Ctr & R: Common Periwinkle, <i>Littorina littorea</i>	Littorinidae	Z
		R: Triton's Trumpet, <i>Charonia tritonis</i>	Ranellidae	Z
FAROE ISLANDS 2016 September 26 (Life of Jesus Woodcarvings) (MS/10)				
671d	9k	Stylized Shell at Baptism of Jesus		S C
FRANCE 2016 July 2 (Summer Vacation) (Bklt/12)				
5057	(70c)	Stylized Crab (biting swimmer)		S B
5061	(70c)	Stylized Marine Life (on plate of food)		S B
5064a		Bklt/12 (Sc#5053-64)		
2016 July 9 (Mediterranean Sea Fish)				
5065	€1	Stylized Jellyfish (with fish)		S C
2016 September 3 (Animal Proverbs & Idioms) (Bklt/12)				
5081	(70c)	<i>Avoir des oursins dans le porte-monnaie</i> (Having sea urchins in the purse)		S B
5090a		Bklt/12 (Sc#5079-90)		

ICELAND**2016 April 28** (Europa) (Set/2 & Bklt/10)

1410	(240k)	Stylized Lobster, Shrimp, & Starfish silhouettes (perf 13¼)		S C
1412	(240k)	Stylized Lobster, Shrimp, & Starfish silhouettes (die cut 15½×15) (s/a)		S C
1412a		Bklt/10 (Sc#1412)		

2016 September 16 (Basket Star) (s/a)

1414	(160k)	a Basket Star, <i>Gorgonocephalus</i> sp.	Gorgonocephalidae	U A
1415	(200c)	a Basket Star, <i>Gorgonocephalus</i> sp.	Gorgonocephalidae	U A

LIECHENSTEIN**2016 June 6** (17th Century Gold & Silver Items) (Set/3)

1688	2fr	Turbo Shell cup design		S
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MALAYSIA**2015 November 17** (Islands) (2ea Horiz Pair & SS/1)

1571a	70c	Coral reef (with sea turtle & beach) (Palau Tenggol)		U B
1571b	70c	Numerous U/I Corals in reef (Palau Tinggi)		U B
1572a	80c	Numerous U/I Corals in reef (Palau Sembilang)		U B
1572b	80c	Coral reef (with reef fish) (Palau Satang)		U B
1573	SS \$3	Numerous U/I Corals in reef		U B

MALDIVE ISLANDS**2014 April 1** (Octopi) (MS/4 & SS/1)

3143a	20r	Big Blue Octopus, <i>Octopus cyanea</i>	Octopodidae	A
3143b	20r	Common Octopus, <i>Octopus vulgaris</i>	Octopodidae	A
3143c	20r	Ornate Octopus, <i>Octopus ornatus</i>	Octopodidae	A
3143d	20r	Southern Sand Octopus, <i>Octopus kaurna</i>	Octopodidae	A
3153	SS 60r	Southern Sand Octopus, <i>Octopus kaurna</i>	Octopodidae	A
Margin		UR: White-spotted Octopus, <i>Callistoctopus macropus</i>	Octopodidae	Z
		LR: Common Octopus, <i>Octopus vulgaris</i>	Octopodidae	Z

2014 April 1 (Crustaceans) (MS/4 & SS/1)

3144a	20r	a Crab, <i>Carpilius convexus</i>	Carpiliidae	A
3144b	20r	Pacific Cleaner Shrimp, <i>Lysmata amboinensis</i>	Hippolytidae	A
3144c	20r	Ornate Rock Lobster, <i>Panulirus ornatus</i>	Palinuridae	A
3144d	20r	Candy Crab, <i>Hoplophrys oatesi</i>	Epiplatidae	A
3154	SS 60r	Emperor Shrimp, <i>Periclimenes imperator</i>	Palaemonidae	A
Margin		UR: Giant Tiger Prawn, <i>Penaeus monodon</i>	Penaeidae	Z
		MR: Japanese Goose Barnacle, <i>Capitulum mitella</i>	Pollicipedidae	Z
		LR: Light-blue Soldier Crab, <i>Mictyris longicarpus</i>	Mictyridae	Z
		LL: a Barnacle, <i>Megabalanus tintinnabulum</i>	Balanidae	Z

2014 April 1 (Deep Water Creatures) (MS/4 & SS/1)

3150a	22r	an Annelid Tube Worm, <i>Serpula</i> sp.	Serpulidae	A
3150d	22r	Giant Isopod, <i>Bathynomus giganteus</i>	Cirolanidae	A
3160	Margin	Ctr: U/I Brittle Star	Ophiuroidea	Z

2014 April 1 (Jellyfish) (MS/4 & SS/1)

3151a	22r	Atolla Jellyfish, <i>Atolla wyvillei</i>	Atollidae	A
3151b	22r	Sea Wasp, <i>Chironex fleckeri</i> (♂)	Chirodropidae	A
3151c	22r	a Box Jellyfish, <i>Copula (=Carybdea) sivickisi</i>	Tripedaliidae	A
3151d	22r	Spotted Jellyfish, <i>Mastigias papua</i>	Mastigiidae	A
3161	SS 70r	Sea Nettle, <i>Chrysaora quinquecirrha</i> (also in LR margin)	Pelagiidae	A Z

2014 December 15 (Water Birds & Corals) (MS/4 & SS/1)

3263a	20r	Stony Cup Coral, <i>Dendrophyllia</i> sp.	Dendrophylliidae	U B
3263b	20r	Bubble Coral, <i>Plerogyra sinuosa</i>	Caryophylliidae	B
3263c	20r	a Staghorn Coral, <i>Acropora robusta</i>	Acroporidae	B
3263d	20r	Open Brain Coral, <i>Trachyphyllia geoffroyi</i>	Trachyphylliidae	B

MALDIVE ISLANDS (continued)

3273	SS 60r	a Staghorn Coral, <i>Acropora</i> sp.	Acroporidae	A
	Margin	Bot: Broad Sea Fan, <i>Eunicella verrucosa</i>	Gorgoniidae	Z
		LL: U/I Coral (in reef)		U Z

2014 December 15 (Seabirds & Shells) (MS/4 & SS/1)

3266a	22r	Crowned Baler, <i>Melo aethiopica</i>	Volutidae	B
3266b	22r	Sharp Toothed Heart Cockle, <i>Acrosterigma dupuchensis</i>	Cardiidae	B
3266c	22r	Heavy Bonnet, <i>Casmaria ponderosa ponderosa</i>	Cassidae	B
3266d	22r	Major Harp, <i>Harpa major</i>	Harpidae	B
3276	SS 70r	Giant Clam, <i>Tridacna gigas</i>	Cardiidae	B
	Margin	LL: Various U/I Shells		U Z

MAURITIUS**2016 June 6** (Freshwater Fauna) (Set/4)

1151	10r	Water Scorpion, <i>Laccotrephes annulipes</i>	Nepidae	A
1153	32r	Freshwater Shrimp, <i>Macrobrachium lar</i>	Palaemonidae	A

MONACO**2015 February 25** (Jellyfish) (SS/2)

2791a	€1	Floating Bell, <i>Phyllorhiza punctata</i> (also in Top margin)	Mastigiidae	A Z
2791b	€1	Mauve Stinger, <i>Pelagia noctiluca</i>	Pelagiidae	A

NEVIS**2016 January 28** (Caribbean Seashells) (MS/4 & SS/1)

1900a	\$4	King Venus, <i>Chione paphia</i>	Veneridae	A
1900b	\$4	Channeled Duck Clam, <i>Raeta plicatella</i>	Mactridae	A
1900c	\$4	Sunrise Tellin, <i>Tellina radiata</i>	Tellinidae	A
1900d	\$4	Calico Clam, <i>Macrocallista maculata</i>	Veneridae	A
1900	Margin	UR: U/I Starfish		U Z
		UL & LR: Various U/I Shells		U Z
1901	SS \$10	Royal Comb Venus, <i>Pitar dione</i>	Veneridae	A
	Margin	UR: U/I Starfish		U Z
		UL & LR: U/I Shells		U Z

NEW CALEDONIA**2016 June 10** (Engraved Shell)

1210	175fr	U/I Shell (engraved by convict)		U A
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2016 June 10 (Natural Park of the Coral Sea)

1212	110fr	U/I Corals (with turtle, whale, & fish)		U B
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PANAMA**2015 December 1** (Surcharges)

953a	5b on 10c	Star Coral, <i>Montastrea annularis</i> (Sc#902a surch)	Faviidae	A
953b	5b on 10c	Lettuce Coral, <i>Pavona chiriquiensis</i> (Sc#902b surch)	Agariciidae	A

ST. THOMAS & PRINCE ISLANDS **2014 September 15** (Shells) (MS/4 & SS/1)

2722a	25000d	Rough Scallop, <i>Lindapecten muscosus</i>	Pectinidae	A
2722b	25000d	U/I Conch	Strombidae	U A
2722c	25000d	U/I Moon Snail	Naticidae	U A
2722d	25000d	Juno's Volute, <i>Scaphella junonia</i>	Volutidae	A
	Margin	Top: Common Periwinkle, <i>Littorina littorea</i>	Littorinidae	Z
2742	SS 96000d	Chambered Nautilus, <i>Nautilus pompilius</i>	Nautilidae	A
	Margin	R: U/I Conch	Strombidae	U Z

2014 October 15 (Corals) (MS/4 & SS/1)

2766a	25000d	Leaf Plate Montipora, <i>Montipora capricornis</i>	Acroporidae	A
2766b	25000d	Pacific Rose Coral, <i>Wellsohyllia radiata</i>	Merulinidae	A
2766c	25000d	Deepwater Sea Fan, <i>Iciligorgia schrammi</i>	Anthothelidae	A
2766d	25000d	a Brain Coral, <i>Anacropora puertogalerae</i>	Acroporidae	A

ST. THOMAS & PRINCE ISLANDS (continued)

2786	SS 96000d	Fox Coral, <i>Nemanzophyllia turbida</i>	Caryophyllidae	A
	Margin	R: Sun Coral, <i>Tubastraea aurea</i>	Dendrophylliidae	Z

2014 November 17 (Venomous Animals) (MS/4 & SS1)

2810d	25000d	Marbled Cone, <i>Conus marmoreus</i> (☞)	Conidae	A
2827	SS 96000d	Greater Blue-ringed Octopus, <i>Hapalochlaena lunulata</i> (☞)	Octopodidae	A
	Margin	UR: Irukandji Jellyfish, <i>Carukia barnesi</i> (☞)	Carukiidae	Z
		LR: Sea Wasp, <i>Chironex fleckeri</i> (☞)	Chirodropidae	Z

2015 September 23 (Painting)

2945	SS 96000d	Stylized Shell in painting "Birth of Venus" by Botticelli		S Z
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2015 November 18 (Shells) (MS/4 & SS/1)

2969a	31000d	Chambered Nautilus, <i>Nautilus pompilius</i>	Nautilidae	A
2969b	31000d	Florida Fighting Conch, <i>Strombus alatus gmelin</i>	Strombidae	A
2969c	31000d	Da Marcoi's Volute, <i>Voluta polypleura</i>	Volutidae	A
2969d	31000d	Chiragra Spider Conch, <i>Lambis chiragra arthritica</i>	Strombidae	A
	Margin	Bot: Spider Conch, <i>Lambis lambis</i>	Strombidae	Z
2988	SS 96000d	Red-lined Bubble Snail, <i>Bullina lineata</i>	Bullinidae	A
	Margin	UL: U/I Octopus		U Z
		UR: U/I Jellyfish		U Z
		MR: Bullmouth, <i>Cypraecassis rufa</i>	Cassidae	Z
		LR: U/I Shell		U Z
		Bot: U/I Sea Urchin shells		U Z

ST. VINCENT**2015 December 31** (Coral Reefs) (MS/6, MS/4, & 2ea SS/1)

4037a	\$3.15	Various U/I Corals (in reef scene)		U A
4037b	\$3.15	Various U/I Corals (in reef scene)		U A
4037c	\$3.15	Various U/I Corals (in reef scene)		U A
4037d	\$3.15	Various U/I Corals (in reef scene)		U A
4037e	\$3.15	Various U/I Corals (in reef scene)		U A
4037f	\$3.15	Various U/I Corals (in reef scene)		U A
4038a	\$3.25	Various U/I Corals (in reef scene)		U A
4038b	\$3.25	Various U/I Corals (in reef scene)		U A
4038c	\$3.25	Various U/I Corals (in reef scene)		U A
4038d	\$3.25	Various U/I Corals (in reef scene)		U A
4039	SS \$10	Various U/I Corals (with yellow reef fish) (also in margin)		U A Z
4040	SS \$10	Various U/I Corals (with small reef fish) (also in margin)		U A Z

SLOVENIA**2016 March 25** (2016 Collecta International Collectors Fair) (SS/1)

1167	SS 64c	U/I Shells (with coins, marbles, books, stamps, etc.)		S C
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SOLOMON ISLANDS**2015 June 26** (Seashells) (MS/4 & SS/1)

1817a	\$12	an Ark Shell, <i>Tegillarca nodifera</i>	Arcidae	A
1817b	\$12	Ventral Harp, <i>Harpa cabriti</i>	Harpidae	A
1817c	\$12	Common Triton Snail, <i>Gyrineum natator</i>	Ranellidae	A
1817d	\$12	Spiral Babylonia Snail, <i>Babylonia spirata</i>	Babyloniidae	A
1837	SS \$40	Tropical Periwinkle, <i>Planaxis sulcatus</i>	Planaxidae	A
	Margin	MR: a Sea Snail, <i>Amalda vernedei herlaari</i>	Olividae	Z
		ML: Spurred Turban, <i>Astraliu calcar</i> (Cap: <i>Astreae calcar</i>)	Turbinidae	Z
		LR: Lathe Acteon, <i>Acteon tornatilis</i>	Acteonidae	Z
		Bot: a Hermit Crab, <i>Dardanus calidus</i>	Diogenidae	Z

SOLOMON ISLANDS (continued) **2016 May 13** (Corals, Jellyfish, Shells)

1990a	\$7	Grooved Brain Coral, <i>Diploria labyrinthiformis</i>	Faviidae	A
1990b	\$7	Elkhorn Coral, <i>Acropora palmata</i>	Acroporidae	A
1990c	\$7	Pillar Coral, <i>Dendrogyra cylindrus</i>	Meandrinidae	A
1990d	\$7	Honeycomb Coral, <i>Diploastrea heliopora</i>	Diploastreidae	A
2015	SS \$35	Candy Cane Coral, <i>Caulastrea furcata</i>	Merulinidae	A
	Margin	Top: Elkhorn Coral, <i>Acropora palmata</i>	Acroporidae	Z
1991a	\$7	Pacific Sea Nettle, <i>Chrysaora fuscescens</i>	Pelagiidae	A
1991b	\$7	Floating Bell, <i>Phyllorhiza punctata</i>	Mastigiidae	A
1991c	\$7	Moon Jellyfish, <i>Aurelia labiata</i>	Ulmaridae	A
1991d	\$7	Barrel Jellyfish, <i>Rhizostoma pulmo</i>	Rhizostomatidae	A
2016	SS \$35	Sea Nettle, <i>Chrysaora furcata</i> (Cap: <i>Chrysaora fuscescens</i>)	Pelagiidae	A
	Margin	Top: Black Sea Nettle, <i>Chrysaora achlyos</i>	Pelagiidae	Z
1992a	\$7	King Helmet, <i>Cassia tuberosa</i>	Cassidae	A
1992b	\$7	Crowned Baler, <i>Melo aethiopica</i>	Volutidae	A
1992c	\$7	Fighting Conch, <i>Strombus pugilis</i>	Strombidae	A
1992d	\$7	Apple Murex, <i>Phyllonotus pomum</i>	Muricidae	A
2017	SS \$35	Chambered Nautilus, <i>Nautilus pompilius</i>	Nautilidae	A
	Margin	Top: Florida horse conch, <i>Triplofusus giganteus</i>	Fascioliariidae	Z

S. GEORGIA & S. SANDWICH IS. **2015 December 21** (Biodiversity) (Set/6)

C8	(70p)	U/I Sea Spider	Class: Pycnogonida	U A
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SPAIN**2016 April 25** (Way of St. James)

4122	(€1.15)	Stylized Shell		S C
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SRI LANKA**2016 May 27** (50th anniv. Sri Lanka Tourism)

2025	15r	Stylized Shell silhouettes (tiny)		S C
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TOKELAU**2016 October 5** (Tokelau Language Week) (Set/4 & SS/4)

462	15r	Coconut Crab, <i>Birgus latro</i>	Coenobitidae	A
464a		SS/4 (Sc#461–64)		

UNITED STATES**2016 August 2** (Pets) (Bklt/20)

5118	47c	U/I Hermit Crab		U A
5125a		Bklt/20 (Sc#5106–25)		

URUGUAY**2014 June 5** (Wetlands Fauna) (MS/10+3 labels)

2514i	15p	a Crab, <i>Neohelice granulata</i>	Varunidae	A
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PREHISTORIC SPIDER

The term “Fake News” is much in the media today. At its extreme, these stories are deliberately published hoaxes, propaganda, and disinformation. However, there are more subtle types of false reporting that may, or may not, be deliberate. It seems that many persons today do not possess a reasonable amount of skepticism, or even common sense, to question the elements of news articles, especially those on the Internet.

This story is an example of the latter type of article. It originally appeared on the Yahoo News website on 8 October 2012 (<http://news.yahoo.com/100-million-old-spider-attack-found-amber-193233281.html>).



Researchers have found trapped in amber a rare dinosaur-age scene of a spider attacking a wasp caught in its web. The piece of amber, which contains 15 intact strands of spider silk, provides the first fossil evidence of such an assault, the researchers said. It was excavated in a Burmese mine and dates back to the Early Cretaceous, between 97 million and 110 million years ago.

“This juvenile spider was going to make a meal out of a tiny parasitic wasp, but never quite got to it,” George Poinar, Jr., a zoology professor at Oregon State University, said in a statement.

“This was a male wasp that suddenly found itself trapped in a spider web. This was the wasp's worst nightmare, and it never ended. The wasp was watching the spider just as it was about to be attacked, when tree resin flowed over and captured both of them.”

Poinar and Ron Buckley, an amber collector from Kentucky, described the find in a paper published in the October issue of the journal *Historical Biology*. They wrote that while there are examples of amber-trapped insects caught in webs, “there is no previous fossil record of a spider attacking its ensnared prey.”

The amber chunk also contains the body of another male spider in the same web, which might make the fossil the oldest known evidence of social behavior in spiders, according to the authors.

Both the spider and wasp species are today extinct. But the type of wasp (*Cascoscelio incassus*) belongs to a group that today is known to parasitize spider eggs, Poinar said. The attack on the wasp by the bristly orb-weaver spider, *Geratonephila burmanica*, might then be considered revenge.

I sent a copy of this article to Dr. Beatrice Vogel, one of our Unit members. Dr. Vogel is a retired arachnologist and the founder and first President of the American Arachnological Society. This is her response:

“Thanks for the info. The object was interesting, but the sensational style of writing is gratuitous, and ‘Attack’ is entirely uncalled for. Spiders in amber are quite common and quite a few people have a small collection of them. I even have one.”

Dr. Vogel also forwarded to me a response she received from one of her colleagues, Dr. Paul Selden. Dr. Selden is the Gulf-Hedberg Distinguished Professor of Invertebrate Paleontology at the University of Kansas and past-President of the International Society of Arachnology.

“In any amber find, the null hypothesis is always that the associations observed are fortuitous, and I don’t find that the authors have made a very convincing case for rejecting that hypothesis. The wasp and the spider could have been caught in the resin hours, days, or even weeks apart, or by separate resin flows from a wound in the tree. The facts that they are close to one another and that there is a lot of silk in the inclusion really proves nothing, nor does the presence of a male spider in the same inclusion show anything about ‘social behavior.’ To me, a classic case of over-interpretation that reviewers should have caught.”



ENTOMOLOGY

Editor

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



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ANGUILLA 2016 August 2 (Summer Festival) (Set/6)				
1237	\$1.80	Stylized (woman in Butterfly costume)	Lepidoptera	S
ARGENTINA 2017 January 23 (Butterflies) (Set/2)				
	11p	<i>Strymon eurytulus</i> Hübner	LYC, Theclinae	A
	55p	Argentine White Morpho, <i>Morpho epistrophus argentinus</i> Fruhst.	NYM, Morphinae	A
AUSTRALIA 2016 August 16 (Items Starting with Same Letter) (Set/5 & Coil strip/5)				
4520	\$1	Stylized ant (A is for...) (perf 14¾×14)	Formicidae	C
4525	\$1	Stylized ant (A is for...)	Formicidae	C
4525a		Bklt/10 (Sc#4525)		
4529b		Vert coil strip/5 (Sc#4525–29) (die cut 11¼) (s/a)		
2016 September 6 (Jewel Beetles) (2ea Horiz pair & Vert coil pair)				
4530	\$1	<i>Stigmodera gratiosa</i> Chevrolat SS/2 (Sc#4530) China 2016 Stamp Expo Day 1 (also in margin)	BUP, Buprestinae	A
4531	\$1	<i>Castiarina klugii</i> Gory & Laporte SS/2 (Sc#4531) China 2016 Stamp Expo Day 2 (also in margin)	BUP, Buprestinae	A
4531a		Horiz pair (Sc#4530–31) (perf 14¾×14)		
4532	\$2	<i>Temognatha alternata</i> Lumholtz SS/2 (Sc#4532) China 2016 Stamp Expo Day 3 (also in margin)	BUP, Buprestinae	A
4533	\$2	<i>Julodimorpha bakewelli</i> White SS/2 (Sc#4533) China 2016 Stamp Expo Day 4 (also in margin)	BUP, Julodinae	A
4533a		Horiz pair (Sc#4532–33) (perf 14¾×14) SS/4 (Sc#4530–33) China 2016 Stamp Expo Day 5 (also in margin)		
4534	\$1	<i>Stigmodera gratiosa</i> Chevrolat	BUP, Buprestinae	A
4535	\$1	<i>Castiarina klugii</i> Gory & Laporte	BUP, Buprestinae	A
4535a		Vert coil pair (Sc#4534–35) (die cut 11¼) (s/a)		
4535b		Bklt/20 (10ea Sc#4534–35) (die cut 11¼) (s/a)		
BRAZIL 2016 November 21 (Geopark Araripe) (Pair)				
a	(1.70r)	Dragonfly fossil, <i>Araripegomphus andreneli</i> Bechly	Araripegomphidae	A
b	(1.70r)	U/I Moth fossil	Eolepidopterigidae	A
CANADA 2016 December 1 (Sc#2237 by new printer)				
	10c	Canada Darner, <i>Aeshna canadensis</i> Walker	AES, Aeshninae	A
CZECH REPUBLIC 2016 June 8 (Flower Arrangement) (MS/9+12 labels)				
	Label	Black-veined White, <i>Aporia crataegi</i> L.	PIE, Pierinae	C Z
DJIBOUTI 2016 September 26 (Bees) (MS/4 & SS/1) (DJB16518a&b)				
Scott Catalogue has assigned numbers to the 2015 & 2016 Stamperija issues of Djibouti				
1031a	260fr	Southern Carpenter Bee, <i>Xylocopa micans</i> Lepeletier	API, Xylocopinae	A
1031b	260fr	Green Orchid Bee, <i>Euglossa dilemma</i> Bembé & Eltz	API, Apinae	A

DJIBOUTI (continued)

1031c	260fr	European Wool-Carder Bee, <i>Anthidium manicatum</i> L.	MEG, Megachilinae	A
1031d	260fr	<i>Augochlorella aurata</i> Smith	HAL, Halictinae	A
	Margin	Top: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	Z
1050	SS 960fr	Ashy or Gray Mining Bee, <i>Andrena cineraria</i> L.	AND, Andreninae	A
	Margin	UL & LR: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	Z
		UR: Neon Cuckoo Bee, <i>Thyreus nitidulus</i> Fabr.	API, Xylocopinae	Z

2016 September 26 (Butterflies) (MS/4 & SS/1) (DJB16514a&b)

1032a	260fr	Meadow Blue, <i>Cupidopsis cissus</i> Godart	LYC, Polyommatae	A
1032b	260fr	Cream-striped Swordtail, <i>Graphium porthaon</i> Hewitson	PAP, Papilioninae	A
1032c	260fr	Figtree Blue, <i>Myrina silenus</i> Fabr.	LYC, Theclinae	A
1032d	260fr	Dotted Blue, <i>Tarucus sybaris</i> Hopffer	LYC, Polyommatae	A
1051	SS 960fr	LR: Figtree Blue, <i>Myrina silenus ficedula</i> Trimen	LYC, Theclinae	B
		UL: Meadow Blue, <i>Cupidopsis cissus</i> Godart	LYC, Polyommatae	B
	Margin	UL: Cream-striped Swordtail, <i>Graphium porthaon</i> Hewitson	PAP, Papilioninae	Z
		Top: African Monarch, <i>Danaus chrysippus</i> L.	NYM, Danainae	Z
		UR: Large Glasswing, <i>Ornipholidotos peucetia</i> Hewitson	LYC, Poritiinae	Z
		LR: Large Vagrant, <i>Nepheronia argia</i> Fabr.	PIE, Pierinae	Z

ESTONIA**2016 September 8** (Mushroom)

65c	U/I ant	(with Fly Agaric mushroom)	Formicidae	U C
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FRANCE**2016 July 2** (Summer Vacation) (Bklt/12)

5064	(70c)	Stylized butterfly (beach scene with feet, sandal, nail polish)	Lepidoptera	S B
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FR. SOUTHERN & ANTARCTIC TERR **2016 January 2** (Wingless Moth)

536	80c	<i>Pringleophaga crozetensis</i> Enderlein	Tineidae, Tineinae	A
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2017 January 2 (Insects)

80c		<i>Telmatogeton amphibius</i> Eaton (Cap: <i>Halirythus a.</i>)	Chironomidae, Telmatogetoninae	A
€1.55		<i>Amalopteryx maritima</i> Eaton	Ephydriidae, Ephydrinae	A

GREAT BRITAIN (Jersey)**2016 October 6** (Myths & Legends) (Set/6)

48p		Fairy with stylized Swallowtail wings	PAP, Papilioninae	S
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HONG KONG**2016 January 16** (Year of the Monkey)

1760	\$50	Printed on Italian silk from Silkworm, <i>Bombyx mori</i> L.	Bombycidae	R
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INDIA**2017 January 25** (Nature: India) (SS/6)

e	5r	Eastern Red Lacewing, <i>Cethosia cydippe</i> L.	NYM, Heliconiinae	A
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KYRGYZSTAN**2016 July 29** (Flora of Kyrgyzstan) (MS/4)

a	50s	Dragonfly	Odonata	U B
b	50s	<i>Bombus</i> sp.	API, Apinae	U B
c	100s	Blue Morpho, <i>Morpho menelaus</i> L., ♀	NYM, Morphinae	B
d	100s	<i>Speyeria</i> sp.	NYM, Heliconiinae	U B

MALAYSIA**2016 March 7** (Flowers) (3ea Vert Pairs & SS/1)

1593b	70s	U/I insects on Bread Flowers	Insecta	
1594a	80s	U/I Swallowtail on Yellow Saraca flowers	PAP, Papilioninae	U B
1594b	80s	Monarch, <i>Danaus plexippus</i>	NYM, Danainae	B
1595a	80s	U/I bees at R on Cannonball Flowers	Apidae	U B
1595b	80s	U/I bees at L on Cannonball Flowers	Apidae	U B
1596	SS \$5	U/I sp. with Jasmine	Lepidoptera	U B

2016 August 23 (Flora & Fauna) (SS/7)

1612	Margin	UR: Red Lacewing, <i>Cethosia cydippe chrysippe</i> Fabr.	NYM, Heliconiinae	Z
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MALAYSIA (continued)		2016 October 1 (International Definitives) (Set/8)		
1620	50s	Rajah Brooke's Birdwing, <i>Troides brookiana</i> Wallace	PAP, Papilioninae	B
MARSHALL ISLANDS		2016 May 24 (Great Seals of US States) (MS/10)		
1136e	49c	Hive of Western Honeybee, <i>Apis mellifera</i> L. (Arkansas seal)	API, Apinae	R C
		2016 September 2 (Great Seals of US States) (MS/10)		
1138e	49c	Western Honeybee, <i>Apis mellifera</i> L. & hive (Utah seal)	API, Apinae	C
NEPAL		2014 December 9 (Moths) (3ea MS/4) (New data)		
Each of these MS shows a small silhouette of the following species in the emblem of the university.				
960-62	Margin	LR: Great Mormon, <i>Papilio memnon</i> L.	PAP, Papilioninae	C Z
		2016 (Beetles) (Set/4)		
Each stamp shows a small silhouette of a Great Mormon in the emblem of the museum.				
	20r	<i>Dorcus nepalensis</i> Hope, ♂	LUC, Lucaninae	A
	20r	Yellow-Banded Blister Beetle, <i>Mylabris phalerata</i> Pallas	MEL, Meloinae	A
	20r	Golden Stag Beetle, <i>Odontolabis cuvera</i> Hope, ♀	LUC, Lucaninae	A
	20r	<i>Therates nepalensis</i> Probst & Wiesner	CAR, Cicindelinae	A
NETHERLANDS		2017 January 30 (ATM Stamps)		
	(78c)	Silver-Studded Blue, <i>Plebejus argus</i> L	LYC, Polyommatae	A
OMAN		2014 May 21 (Omani Philatelic Association) (Set/3)		
550	200b	Various earlier Omani stamps showing Butterflies (s-o-s)	Lepidoptera	C
PITCAIRN ISLAND		2016 (Languages of Pitcairn Island) (MS/8+13 labels)		
	Margin	UR label: U/I Dragonfly	Libellulidae	U Z
POLAND		2016 July 18 (Bees & Honey)		
4239	5z	Western Honeybee, <i>Apis mellifera</i> L. (with jar of honey)	API, Apinae	B
ST. MARTIN		2016		
SS 500c		<i>Ithomia iphianassa</i> Doubleday	NYM, Danainae	A
Margin		UL: Small Emperor, <i>Saturnia pavonia</i> L.	SAT, Saturniinae	Z
		MR: <i>Morpho</i> sp.	NYM, Morphinae	Z
		All: 14 assorted U/I moths, butterflies, & caterpillars	Lepidoptera	Z
SS 500c		<i>Rothschildia cincta</i> Tepper	SAT, Saturniinae	A
Margin		UL: Small Emperor, <i>Saturnia pavonia</i> L.	SAT, Saturniinae	Z
		LL: U/I pupa	Sphingidae	Z
		Top: <i>Morpho</i> sp.	NYM, Morphinae	Z
		All: 9 assorted U/I moths, butterflies, caterpillars, & pupae	Lepidoptera	Z
SS 500c		<i>Pteronymia artena</i> Hewitson	NYM, Danainae	A
Margin		LL: <i>Morpho</i> sp.	NYM, Morphinae	Z
		All: 16 assorted U/I moths, butterflies, caterpillars, & pupae	Lepidoptera	Z
SS 500c		Cecropia, Robin Moth, <i>Hyalophora cecropia</i> L.	SAT, Saturniinae	A
Margin		LL: <i>Morpho</i> sp.	NYM, Morphinae	Z
		All: 10 assorted U/I moths, butterflies, caterpillars & pupae	Lepidoptera	Z
SS 500c		Snowberry Clearwing, <i>Hemaris diffinis</i> Boisduval	SPH, Macroglossinae	A
Margin		UR: Small Emperor, <i>Saturnia pavonia</i> L.	SAT, Saturniinae	Z
		ML: <i>Morpho</i> sp.	NYM, Nymphalinae	Z
		Top: Hawkmoth Pupa	Sphingidae	Z
		All: 5 assorted U/I moths, butterflies, & caterpillars	Lepidoptera	Z
SS 500c		Tailed Jay, <i>Graphium agamemnon</i> L.	PAP, Papilioninae	A

ST. MARTIN (continued)

Margin	LR, MR, Top: <i>Morpho</i> sp.	NYM, Morphinae	Z
	Top: Small Emperor, <i>Saturnia pavonia</i> L.	SAT, Saturniinae	Z
	All: 5 assorted U/I moths, butterflies, & caterpillars	Lepidoptera	Z
SS 500c	Dark Zebra Swallowtail, <i>Protographium philolaus</i> Boisduval	PAP, Papilioninae	A
Margin	UL: Small Emperor, <i>Saturnia pavonia</i> L.,	SAT, Saturniinae	Z
	UR & MR: <i>Morpho</i> sp.	NYM, Morphinae	Z
	LL: U/I Hawkmoth & pupa	Sphingidae	Z
	LR: U/I Moth	SAT, Saturniinae	Z
	All: 5 assorted U/I moths, butterflies, & caterpillars	Lepidoptera	Z
SS 500c	Orange Kite Sw'tail, <i>Protographium thyastes marchandii</i> Bsdv.	PAP, Papilioninae	A
Margin	UL & Bot: <i>Morpho</i> sp.	NYM, Morphinae	Z
	MR: Small Emperor, <i>Saturnia pavonia</i> L.	SAT, Saturniinae	Z
	All: 10 assorted U/I moths, butterflies, & caterpillars	Lepidoptera	Z

SWITZERLAND**2016 May 12** (Europa: Environment) (Horiz Pair) (New data)

1600	100c	Purple Emperor, <i>Apatura iris</i> L.	NYM, Apaturinae	B
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TAJIKISTAN**2014 October 3** (Mushrooms) (Set/3) (New data)

430	2s	Stylized Swallowtail butterfly (with mushroom)	PAP, Papilioninae	S B
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2016 September 1 (Turtles) (Horiz Pair)

a	3.50s	L: U/I Dragonfly	Odonata	U B
		R: Western Honeybees, <i>Apis mellifera</i> L.	API, Apinae	B
b	3.50s	L: Western Honeybees, <i>Apis mellifera</i> L.	API, Apinae	B
		R: U/I Dragonflies	Odonata	U B

TRISTAN DA CUNHA**2016 July 4** (Shakespeare) (Set/4)

1077	35p	Stylized butterfly ("A Midsummer Night's Dream")	Lepidoptera	S C
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2016 December 7 (Biodiversity) (Set/12)

1096	60p	Gough Flightless Moth, <i>Dimorphinotua goughensis</i> Fletcher	NOC, Noctuidae	A
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TURKEY**2016 May 9** (Think Green) (Set/2)

B315	1.40L+10k	7-Spotted Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	C
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TURKISH REP. NORTHERN CYPRUS**2016 November 24** (Bees) (Set/3)

a	1L	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
b	1.50L	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
c	20L	Cyprus Honeybee, <i>Apis mellifera cyprica</i> Pollman	API, Apinae	A

UNITED STATES**2017** (Protect Pollinators) (Strip/5)

a,c&e	(49c)	Monarch, <i>Danaus plexippus</i> L., ♀	NYM, Danainae	A
b&d	(49c)	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A

Beyond the Catalog**CENTRAL AFRICA****2016 November 21** (Orchids & Bees) (MS/4 & SS/1) (CA16801a&b)

a	900fr	<i>Euglossa variabilis</i> Friese	API, Apinae	B
b	900fr	<i>Euglossa cognata</i> Moure	API, Apinae	B
c	900fr	<i>Eulaema meriana</i> Olivier	API, Apinae	B
d	900fr	<i>Euglossa mixta</i> Friese	API, Apinae	B
Margin	LR:	<i>Eulaema meriana</i> Olivier	API, Apinae	Z
SS 3000fr		Long-Horned Mining Bee, <i>Euclera longicornis</i> L.	API, Apinae	B
Margin	LL:	<i>Euglossa asarophora</i> Moure & Sakagami	API, Apinae	
	Top:	<i>Exaerete frontalis</i> Guérin-Ménéville	API, Apinae	
	LR:	<i>Euglossa dilemma</i> Bembé & Eltz	API, Apinae	

CENTRAL AFRICA (continued) **2016 November 21** (Butterflies) (MS/4 & SS/1) (CA16813a&b)

a	900fr	<i>Papilio lorquinianus</i> C&R Felder	PAP, Papilioninae	A
b	900fr	Cream Spot Tiger Moth, <i>Epicallia villica</i> L.	ARC, Arctiinae	A
c	900fr	Common Jezebel, <i>Delias eucharis</i> Drury	PIE, Pierinae	A
d	900fr	Brimstone, <i>Gonepteryx rhamni</i> L.	PIE, Coliadinae	A
	Margin	<i>Eterusia repleta</i> Walker	ZYG, Chalcosiinae	Z
	SS 3000fr	Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	A
	Margin	LL: Apollo, <i>Parnassius apollo</i> L.	PAP, Parnassiinae	Z
		UR: American or Small Copper, <i>Lycaena phlaeas</i> L.	LYC, Lycaeninae	Z

2016 December 19 (Mushrooms) (SS/1) (CA16902b)

	SS 2650fr	MR: <i>Onitis aygulus</i> Fabr. (with mushrooms)	SCA, Scarabaeinae	Z
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GUINEA **2016 September 26** (Zika Virus) (MS/4 & SS/1) (GU16425a&b)

b	10000fr	Yellow Fever Mosquito, <i>Aedes aegypti</i> L. (ultrasound testing)	CUL, Culicinae	C
c	10000fr	Same species (men fogging insecticide)	CUL, Culicinae	C
	Margin	Top: Same species	CUL, Culicinae	Z
	SS 40000fr	Yellow Fever Mosquito, <i>Aedes aegypti</i> L. (also in top margin)	CUL, Culicinae	C

GUINEA-BISSAU **2016 November 29** (Butterflies) (MS/5 & SS/1) (GB16806a&b)

a	600fr	Peacock, <i>Nymphalis io</i> L. (Cap: <i>Aglais io</i>)	NYM, Nymphalinae	A
b	600fr	<i>Jana tantalus</i> Herrich-Schaeffer	Eupterotidae, Janinae	A
c	600fr	Common Emperor, <i>Bunaea alcinoe</i> Stoll	SAT, Saturniinae	A
d	600fr	Red Admiral, <i>Vanessa atalanta</i> L.	NYM, Nymphalinae	A
e	600fr	Schaus's Crow, <i>Euploea blossomae</i> Schaus	NYM, Danainae	A
	Margin	UL: Death's Head Moth, <i>Acherontia atropos</i> L.	SPH, Sphinginae	Z
		UR: Northern Old Lady, <i>Dasypodia cymatodes</i> Guenée	NOC, Catocalinae	Z
	SS 3000fr	Common Blue, <i>Polyommatus icarus</i> Rottemburg	LYC, Polyommatinae	A
	Margin	LL: Monarch, <i>Danaus plexippus</i> L. (with larva)	NYM, Danainae	Z
		LR: <i>Antanartia borbonica</i> Oberthür	NYM, Nymphalinae	Z

2016 December 20 (Scouting) (MS/5 & SS/1) (GB16903a&b)

a	660fr	Golden Ground Beetle, <i>Carabus auratus</i> L.	CAR, Carabinae	B
d	660fr	<i>Euphaedra medon</i> L.	NYM, Limenitidinae	B
	Margin	LL: Blue Morpho, <i>Morpho rhetenor</i> Cramer	NYM, Morphinae	Z
		LR: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	Z
	SS 3300fr	Bird		
	Margin	MR: Blue-banded Egfly, <i>Hypolimnas alimena</i> L.	NYM, Nymphalinae	Z
		Bot: African Giant Swallowtail, <i>Papilio antimachus</i> Drury	PAP, Papilioninae	Z

MOZAMBIQUE **2016 July 10** (Bees) (MS/4 & SS/1) (MOZ16304a&b)

a	100m	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
b	100m	Blue-banded Bee, <i>Amegilla cingulata</i> Fabr.	API, Apinae	A
c	100m	<i>Anthidium florentinum</i> Fabr.	MEG, Megachilinae	A
d	100m	Giant Honeybee, <i>Apis dorsata</i> Fabr.	API, Apinae	A
	SS 350m	Eastern Carpenter Bee, <i>Xylocopa virginica</i> L.	API, Xylocopinae	A
	Margin	R: Blue-banded Bee, <i>Amegilla cingulata</i> Fabr.	API, Apinae	Z

2016 August 10 (Butterflies) (MS/4 & SS/1) (MOZ16404a&b)

a	100m	Brown-Veined White, <i>Belenois aurota</i> Fabr.	PIE, Pierinae	A
b	100m	<i>Belenois aurota</i> Fabr., different	PIE, Pierinae	A
c	100m	Pearl Charaxes, <i>Charaxes varanes</i> Cramer	NYM, Charaxinae	A
d	100m	Grass Blue, <i>Chilades trochylus</i> Freyer	LYC, Polyommatinae	A

MOZAMBIQUE (continued)

	SS 350m	Painted Lady, <i>Vanessa cardui</i> L.		NYM, Nymphalinae	A
	Margin	LL & UR: U/I butterfly		LYC, Polyommatainae	U Z
		MR: U/I larva		NYM, Nymphalinae	U Z
		LR: Green-banded Swallowtail, <i>Papilio nireus</i> L.		PAP, Papilioninae	Z
2016 August 10 (Orchids) (MS/4 & SS/1) (MOZ16417a&b)					
	4×100m	Top: Monarch, <i>Danaus plexippus</i> L. (4ea)		NYM, Danainae	Z
	SS 350m	Top: Monarch, <i>Danaus plexippus</i> L. (4ea)		NYM, Danainae	Z
2016 August 10 (s-o-s) (MS/4 & SS/1) (MOZ16422a&b)					
a	100m	Dark Palm Forester, <i>Bebearia mardania</i> Fabr. (Burundi Sc#616)		NYM, Limenitidinae	B
c	100m	Large Emperor, <i>Saturnia pyri</i> D. & S. (Yugoslavia Sc#728)		SAT, Saturniinae	B
d	100m	Mourning Cloak, <i>Nymphalis antiopa</i> L. (Yugoslavia Sc#725)		NYM, Nymphalinae	B
	Margin	UR: Mourning Cloak, <i>N. antiopa</i> L. (Yugoslavia Sc#725)		NYM, Nymphalinae	Z
		UR: Cecropia Moth, <i>Hyalophora cecropia</i> L. (Canada Sc#2238)		SAT, Saturniinae	Z
		MR: <i>Prosopocera lactator meridionalis</i> Jordan (Mozambique Sc#582)		CER, Lamiinae	Z
	SS 350m	Stamp collector (no insect)			
	Margin	MR: Dark Palm Forester, <i>B. mardania</i> Fabr. (Burundi Sc#616)		NYM, Limenitidinae	Z
		LR: Mourning Cloak, <i>N. antiopa</i> L. (Yugoslavia Sc#725)		NYM, Nymphalinae	Z
		LR: <i>P. lactator meridionalis</i> Jordan (Mozambique Sc#582)		CER, Lamiinae	Z
NIGER					
2016 December 5 (s-o-s) (MS/4) (NIG16502a)					
c	850fr	Sahel Charaxes, <i>Charaxes jasius epijasius</i> Reiche (Gambia Sc#407)		NYM, Charaxinae	A
2016 December 5 (Bee-eaters) (MS/4) (NIG16518a)					
c	850fr	Bee in bird's beak		API, Apinae	C
2016 December 5 (Butterflies) (MS/4 & SS/1) (NIG16521a&b)					
a	850fr	Old World Swallowtail, <i>Papilio machaon</i> L.		PAP, Papilioninae	A
b	850fr	Mustard or Green-Veined White, <i>Pieris napi</i> L.		PIE, Pierinae	A
c	850fr	Orange Tip, <i>Anthocharis cardamines</i> L.		PIE, Pierinae	A
d	850fr	Meadow Brown, <i>Maniola jurtina</i> L.		NYM, Satyrinae	A
	SS 3300fr	Large Blue, <i>Maculinea arion</i> L.		LYC, Polyommatainae	A
	Margin	LL & LR: Painted Lady, <i>Vanessa cardui</i> L.		NYM, Nymphalinae	Z

PETERSPOST (Russia & Finland)

This is a private post and courier service in Russia delivering cards, letters, and packages to the World. It has post offices in St. Petersburg and Moscow in Russia and in Helsinki, Finland. It began issuing a great variety of "stamps" on 16 September 2015. These "stamps" are produced and sold by Stamperija, Ltd. The unit of value is shown as a P with a line across the stem beneath the loop of the P, or in Euros. The numbers below are assigned by the issuer.

2016 October 21 (PhilaTaipei 2016: Baltic Fauna) (SS/6) (Stamperija)

Note: Each of these shows Latvia Sc#425 s-o-s

PP16/9	50P	Augsburg Tiger moth, <i>Pericallia matronula</i> L. (s-o-s)		ARC, Arctiinae	A
		SS/6 (PP16/7-12)			
PP16/15	100P	Same species (s-o-s)			
		SS/6 (PP16/13-18)			
		SS/6+6 labels (PP16/13-18)			
		MS/7+1 label (PP16/15)			
PP16/21	€1	Same species (s-o-s)			
		SS/6 (PP16/19-24)			
PP16/27	€1.50	Same species (s-o-s)			
		SS/6 (PP16/25-30)			

RUSSIA (Adigey)**2016** (Local Labels) (WWF ovpts on Russian stamps)

Produced in strips of five pairs on three different basic stamps

a	300r	<i>Calopteryx mingrelica</i> Selys	CAL, Calopteryginae	B
b	300r	Dark Pincertail, <i>Onychogomphus assimilis</i> Schneider	GOM, Gomphinae	B
c	300r	<i>Anormogomphus kiritschenkoi</i> Bartenev	GOM, Gomphinae	B
d	300r	<i>Haploembia solieri</i> Rambur	Embioptera, Embioidea, Oligotomidae	B
e	300r	<i>Bradyporus multituberculatus</i> Fischer von Waldheim	TET, Bradyporinae	B

RUSSIA (Primorye)**2016** (Local Labels) (WWF ovpts on Russian stamps)

Produced in strips of five pairs on three different basic stamps

a	200r	<i>Forficula vicaria</i> Semenov, ♀	Forficulidae, Forficulinae	B
b	200r	<i>Galloisiana kurentzovi</i> Pravdin & Storozhenko	Grylloblattoidea, Grylloblattidae	B
c	200r	<i>Anatlanticus uvarovi</i> Miram	TET, Tettigoniinae	B
d	200r	<i>Diestrammena unicolor</i> Brunner von Wattenwyl	Rhaphidophoridae, Aemodogryllinae	B
e	200r	<i>Hypsopedes kurentzovi</i> Bei-Bienko	TET, Tettigoniinae	B

ST. THOMAS & PRINCE IS**2016 November 10** (Butterflies) (MS/4 & SS1) (ST16508a&b)

a	31000d	<i>Charaxes thomasius</i> Staudinger	NYM, Charaxinae	A
b	31000d	African Map, <i>Cyrestis camillus</i> Fabr.	NYM, Cyrestinae	A
c	31000d	Blue Diadem, <i>Hypolimnias salmactis</i> Drury	NYM, Nymphalinae	A
d	31000d	Large Spotted Acraea, <i>Acraea zetes</i> L.	NYM, Heliconiinae	A
	Margin	Top & UR: Death's Head Moth, <i>Acherontia atropos</i> L. LR: Same species (larva)	SPH, Sphinginae	Z
	SS 120000d	<i>Acraea jodutta</i> Fabr.	NYM, Heliconiinae	A
	Margin	Top, UR, LR: Death's Head Moth, <i>Acherontia atropos</i> L.	SPH, Sphinginae	Z

SIERRA LEONE**2016 August 29** (Butterflies) (MS/4 & SS/1) (SRL16811a&b)

a	6000Le	Red Anartia, <i>Anartia amathea</i> L.	NYM, Nymphalinae	A
b	6000Le	Blue or Leopard Lacewing, <i>Cethosia cyane</i> Drury	NYM, Heliconiinae	A
c	6000Le	High Brown Fritillary, <i>Fabriciana adippe</i> Schiffermüller	NYM, Heliconiinae	A
d	6000Le	Eastern Black Swallowtail, <i>Papilio polyxenes</i> Fabr.	PAP, Papilioninae	A
	SS 24000Le	Adonis Blue, <i>Polyommatus bellargus</i> Rottemburg	LYC, Polyommatinae	A
	Margin	UL: Blue or Leopard Lacewing, <i>Cethosia cyane</i> Drury UR: High Brown Fritillary, <i>Fabriciana adippe</i> Schiffermüller Bot: Malachite, <i>Siproeta stelenes</i> L.	NYM, Heliconiinae NYM, Heliconiinae NYM, Nymphalinae	Z Z Z

2016 August 29 (Bees) (MS/4 & SS/1) (SRL16812a&b)

a	6000Le	<i>Anthidium florentinum</i> Fabr.	MEG, Megachilinae	A
b	6000Le	Western Honeybee, <i>Apis mellifera</i> L. (on flower)	API, Apinae	A
c	6000Le	Western Honeybee, <i>Apis mellifera</i> L. (on hive comb)	API, Apinae	A
d	6000Le	Blue-Banded Bee, <i>Amegilla cingulata</i> Fabr.	API, Apinae	A
	SS 24000Le	Eastern Carpenter Bee, <i>Xylocopa virginica</i> L.	API, Xylocopinae	A
	Margin	UL: Blue-Banded Bee, <i>Amegilla cingulata</i> Fabr. UR & Bot: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae API, Apinae	Z Z

2016 October 28 (Butterfly Migration) (MS/4 & SS/1)(SRL161017a&b)

a	6000Le	Long-Tailed Skipper, <i>Urbanus proteus</i> L.	HES, Pyrginae	A
b	6000Le	Monarch, <i>Danaus plexippus</i> L., ♂	NYM, Danainae	A
c	6000Le	Pipevine Swallowtail, <i>Battus philenor</i> L.	PAP, Papilioninae	A
d	6000Le	Common Buckeye, <i>Junonia coenia</i> Hübner	NYM, Nymphalinae	A
	SS 24000Le	Question Mark, <i>Nymphalis interrogationis</i> Fabr. (Cap: <i>Polygonia</i>)	NYM, Nymphalinae	A
	Margin	LL: Long-Tailed Skipper, <i>Urbanus proteus</i> L. Top & LR: <i>Danaus plexippus</i> L (~40–50 in migrating flight) MR: Pipevine Swallowtail, <i>Battus philenor</i> L.	HES, Pyrginae NYM, Danainae PAP, Papilioninae	Z Z Z

SIERRA LEONE (continued)		2016 November 28 (Darwin) (MS/4) (SRL161116a)		
b	6000Le	L: Alfalfa Butterfly, <i>Colias eurytheme</i> Boisduval ♀ Bot: U/I beetle	PIE, Pierinae Coleoptera	B U C
		2016 December 29 (Butterflies) (MS/4 & SS/1) (SRL161204a&b)		
a	6000Le	Brown Argus, <i>Aricia agestis</i> Denis & Schiffermüller	LYC, Polyommatae	A
b	6000Le	Short-Tailed Blue, <i>Cupido argiades</i> Pallas	LYC, Polyommatae	A
c	6000Le	Blue Pansy, <i>Junonia orithya</i> L.	NYM, Nymphalinae	A
d	6000Le	Eurasian Comma, <i>Nymphalis c-album</i> L.	NYM, Nymphalinae	A
	Margin	LL: Mourning Cloak, <i>Nymphalis antiopa</i> L.	NYM, Nymphalinae	Z
		UR: Eastern Tailed Blue, <i>Cupido comyntas</i> Godart	LYC, Polyommatae	Z
		MR: Regal Apollo, <i>Parnassius charltonius</i> Gray	PAP, Parnassiinae	Z
	SS 24000Le	Rosita Patch, <i>Chlosyne rosita</i> Hall	NYM, Nymphalinae	A
	Margin	Bot: Red-Spotted Purple, <i>Limenitis arthemis astyanax</i> Fabr.	NYM, Limenitidinae	Z
		2016 December 29 (Bee-eaters) (MS/4 & SS/1) (SRL161214a&b)		
b	6000Le	Bee in bird's beak	Apidae	C
	SS 24000Le	Bot: Western Honeybee, <i>Apis mellifera</i> L. (in bird's beak)	API, Apinae	C
SOLOMON ISLANDS		2016 December 12 (Butterflies) (MS/4 & SS/1) (SLM16501a&b)		
a	\$12	Orange Sulfur, Alfalfa Butterfly, <i>Colias eurytheme</i> Boisduval ♂	PIE, Coliadinae	A
b	\$12	Pipevine Swallowtail, <i>Battus philenor</i> L.	PAP, Papilioninae	A
c	\$12	Queen, Tropic Queen, <i>Danaus gilippus</i> Cramer	NYM, Danainae	A
d	\$12	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L. ♀	PAP, Papilioninae	A
	SS \$40	Olive or Juniper Hairstreak, <i>Callophrys gryneus</i> Hübner	LYC, Theclinae	A
	Margin	UL: Goatweed Leafwing, <i>Anaea troglodyta andria</i> Scudder	NYM, Charaxinae	Z
		LL: Blue Morpho, <i>Morpho rhetenor</i> Cramer	NYM, Morphinae	Z
		Bot: Gray Hairstreak, <i>Strymon melinus</i> Hübner	LYC, Theclinae	Z
		UR: Pearl Crescent, <i>Phyciodes tharos</i> Drury	NYM, Nymphalinae	Z
		MR: Giant Swallowtail, <i>Papilio cresphontes</i> Cramer	PAP, Papilioninae	Z
TOGO		2016 November 16 (World Fauna) (SS/1) (TG16407b)		
	SS 3300fr	Small Tortoiseshell, <i>Nymphalis urticae</i> L.	NYM, Nymphalinae	A
	Margin	LL & UR: Same species (National Insect of Denmark)		
		2016 December 15 (Mushrooms) (MS/4 & SS/1) (TG16502a&b)		
a	900fr	Speckled Wood, <i>Pararge aegeria</i> L.	NYM, Satyrinae	B
	SS 3500fr	Mushroom (no insect)		
	Margin	UL: Meadow Brown, <i>Maniola jurtina</i> L. ♀	NYM, Satyrinae	Z
		2016 December 15 (Butterflies) (MS/4 & SS/1) (TG16503a&b)		
a	900fr	Angolan White Lady, <i>Graphium angolanus</i> Goeze	PAP, Papilioninae	A
b	900fr	Smoky Orange Tip, Red Tip, <i>Colotis euippe</i> L.	PIE, Pierinae	A
c	900fr	Giant Blue Swallowtail, <i>Papilio zalmoxis</i> Hewitson	PAP, Papilioninae	A
d	900fr	Christmas Butterfly, <i>Papilio demodocus</i> Esper	PAP, Papilioninae	A
	SS 3500fr	Large Striped Swordtail, <i>Graphium antheus</i> Cramer	PAP, Papilioninae	A
	Margin	LL: Monarch, <i>Danaus plexippus</i> L. (larva)	NYM, Danainae	Z
		UL & R: African Monarch, <i>Danaus chrysippus</i> L. (4ea)	NYM, Danainae	Z
		2016 December 29 (Bees) (MS/4 & SS/1) (TG16603a&b)		
a	850fr	Blue Banded Bee, <i>Amegilla cingulata</i> Fabr.	API, Apinae	A
b	850fr	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
c	850fr	Violet Carpenter Bee, <i>Xylocopa violacea</i> L.	API, Xylocopinae	A
d	850fr	Eastern Carpenter Bee, <i>Xylocopa virginica</i> L.	API, Xylocopinae	A
	SS 3300fr	<i>Anthidium florentinum</i> Fabr.	MEG, Megachilinae	A
	Margin	R: Western Honeybee, <i>Apis mellifera</i> L. (2ea)	API, Apinae	Z

TOGO (continued)**2016 December 29** (Butterflies) (MS/4 & SS/1) (TG16604a&b)

a	850fr	Amber Phantom, <i>Haetera piera</i> L.	NYM, Satyrinae
b	850fr	Raja Brooke's Birdwing, <i>Troides brookiana</i> Wallace	PAP, Papilioninae
c	850fr	Clipper, <i>Parthenos sylvia</i> Cramer	NYM, Limenitidinae
d	850fr	Golden Kaiser-i-Hind, <i>Teinopalpus aureus</i> Mell	PAP, Papilioninae
	SS 3300fr	Mourning Cloak, <i>Nymphalis antiopa</i> L.	NYM, Nymphalinae
	Margin	Top: Swift Peacock, <i>Papilio peranthus</i> Fabr. (2ea)	PAP, Papilioninae
		Bot: Tailed Jay, <i>Graphium agamemnon</i> L.	PAP, Papilioninae
		LR: Blood-Red Cymothoe, <i>Cymothoe sangaris</i> Godart	NYM, Limenitidinae

EXTINCT BUTTERFLY

The illustrated cover could fit in both our Entomology and our Paleontology sections.

It is a metered philatelic cover advertising the Entomology Committee of the Federation of German Philatelists.

It was sent from Ulm to Böblingen, Germany, and post-marked on 3 November 1992.

The 100pf meter paid the first class letter rate in effect at the time of mailing. The meter style is a Hasler "Mailmaster" type NA17 from 1978.

The illustrated meter shows an image of a unique insect specimen.



†*Prodryas persephone* is an extinct butterfly that is known from a single specimen collected from the shale deposits in the Florissant Fossil Beds in Colorado. It dates from the Late Eocene epoch (38 to 34 million years ago).

The type specimen, now held at the Museum of Comparative Zoology of Harvard University, was the first fossil butterfly to be found in North America, and has been described as "possibly the best fossil butterfly specimen ever found." It is a compression fossil and was described by the naturalist Charlotte Hill (1849-1930) who discovered hundreds of fossil specimens at the fossil beds.

Samuel H. Scudder (1837-1911) described and named the specimen in 1878, placing it in the Nymphalinae subfamily. It is thought to be closely related to the *Hypanartia* and *Antanartia* genera.





PALEONTOLOGY

Editor

Michael Kogan, BU1863

New Listings



Scott#	Denom	Common Name/Scientific Name	Family	Code
BRAZIL				
2016 November 21 (Geopark Araripe) (Pair)				
a	(1.70r)	Dragonfly fossil, <i>Araripegomphus andreneli</i> Bechly	Araripegomphidae	A
b	(1.70r)	U/I Moth fossil	Eolepidopterigidae	A
CENTRAL AFRICA				
2016 December 19 (Dinosaurs) (MS/4 & SS/1) ^[1]				
a	900fr	<i>Ceratosaurus</i>	†Ceratosauridae	A
b	900fr	<i>Dimorphodon</i>	†Dimorphodontidae	A
c	900fr	<i>Dakosaurus maximus</i>	†Metriorhynchidae	A
d	900fr	<i>Shonisaurus popularis</i>	†Shastasauridae	A
	SS 3000fr	<i>Mesosaurus</i>	†Mesosauridae	A
	Margin	R: <i>Elasmosaurus</i>	†Elasmosauridae	Z
		LL: Trilobite	Class: †Trilobita	Z
DJIBOUTI				
2016 September 26 (Extinct Animals) (MS/4 & SS/1) ^[1]				
a	260fr	Columbian Mammoth, <i>Mammuthus columbi</i>	Elephantidae	A
b	260fr	<i>Moropus elatus</i>	†Chalicotheriidae	A
c	260fr	<i>Elasmotherium sibiricum</i>	Rhinocerotidae	A
d	260fr	Saber-toothed Cat, <i>Smilodon populator</i>	Felidae	A
	SS 960fr	<i>Glyptodon clavipes</i>	Chlamyphoridae	A
	Margin	UR: Short-faced Bear, <i>Arctodus pristinus</i>	Ursidae	Z
		LR: <i>Palorchestes azael</i>	†Palorchestidae	Z
2016 September 26 (Prehistoric Aquatic Animals) (MS/4 & SS/1) ^[1]				
a	260fr	<i>Enchodus</i>	†Enchodontidae	A
b	260fr	<i>Mosasaurus hoffmanni</i>	†Mosasauridae	A
c	260fr	Ammonite	Class: Ammonoidea	A
d	260fr	<i>Helicoprion bessonovi</i>	†Helicoprionidae	A
	SS 960fr	<i>Dinichthys terrelli</i>	†Dinichthyidae	A
	Margin	UR; <i>Dearcmhara shawcrossi</i>	Order: †Ichthyosauria	Z
		MR: <i>Mosasaurus hoffmanni</i>	†Mosasauridae	Z
		LR: Anomalocaridid	†Anomalocarididae	Z
NIGER				
2016 October 24 (Prehistoric Marine Creatures) (MS/4 & SS/1) ^[1]				
a	750fr	Palau Nautilus, <i>Nautilus belauensis</i>	Nautilidae	A
b	750fr	<i>Dunkleosteus terrelli</i>	†Dunkleosteidae	A
c	750fr	<i>Shonisaurus popularis</i>	†Shastasauridae	A
d	750fr	Top: <i>Prognathodon saturator</i>	†Mosasauridae	A
		Bot: <i>Brachauchenius lucasi</i>	†Pliosauridae	A
	SS 3000fr	<i>Liopleurodon ferox</i>	†Pliosauridae	A
		UR: <i>Brachauchenius lucasi</i>	†Pliosauridae	Z
		LL: <i>Dunkleosteus terrelli</i>	†Dunkleosteidae	Z
		LR: <i>Mosasaurus hoffmanni</i>	†Mosasauridae	Z

NIGER (continued)**2016 December 5** (Dinosaurs) (MS/4 & SS/1)^[1]

a	850fr	<i>Udanoceratops tshizhovi</i>	†Leptoceratopsidae	A
b	850fr	<i>Pteranodon longiceps</i>	†Pteranodontidae	A
c	850fr	<i>Edmontonia longiceps</i>	†Nodosauridae	A
d	850fr	<i>Afrovenator abakensis</i>	†Megalosauridae	A
	SS 3300fr	Cap: <i>Loremus ipsumus sitdoloricus</i> (this appears to be a made-up name)		A
		LR: Same species		Z
		UR: Pterosaur	Order: †Pterosauria	Z

2016 December 5 (s-o-s) (MS/4 & SS/1)^[1]

a	850fr	<i>Qantassaurus</i> (Australia Sc#3990)	†Hypsilophodontidae	
	SS 3300fr	<i>Tyrannosaurus rex</i> (Germany Sc#B1007c)	†Tyrannosauridae	

2016 December 21 (Prehistoric Water Animals) (MS/4 & SS/1)^[1]

a	825fr	<i>Kronosaurus</i>	†Pliosauridae	A
b	825fr	LR: <i>Deinosuchus</i>	Order: Crocodylia	A
		UL: <i>Albertosaurus</i>	†Tyrannosauridae	A
c	825fr	<i>Dunkleosteus terrelli</i>	†Dunkleosteidae	A
d	825fr	<i>Leedsichthys</i>	†Pachycormidae	A
	SS 3300fr	L: <i>Mosasaurus</i>	†Mosasauridae	A
		R: <i>Cretoxyrhina mantelli</i>	†Cretoxyrhinidae	A
Margin		UR: <i>Elasmosaurus</i>	†Elasmosauridae	Z
		MR: <i>Tylosaurus</i>	†Mosasauridae	Z
		LR: <i>Prognathodon</i>	†Mosasauridae	Z
		Bot: <i>Mosasaurus</i>	†Mosasauridae	Z

MALDIVE ISLANDS**2016 September 8** (Charles Darwin) (MS/4 & SS/1)^[1]

a	22r	<i>Diplodocus</i> (with Charles Darwin)	†Diplodocidae	B
b	22r	<i>Aquilops</i> (with Charles Darwin)	Order: †Ornithischia	B
c	22r	<i>Diceratops</i> (with Charles Darwin)	†Ceratopsidae	B
d	22r	<i>Microraptor</i> (with Charles Darwin)	†Dromaeosauridae	B
	SS 70r	<i>Tyrannosaurus rex</i> (with Charles Darwin)	†Tyrannosauridae	B
Margin		R: <i>Diplodocus</i>	†Diplodocidae	Z
		LL: <i>Diceratops</i>	†Ceratopsidae	Z
		UR: <i>Microraptor</i>	†Dromaeosauridae	Z

MOZAMBIQUE**2016 August 10** (Prehistoric Humans) (MS/4 & SS/1)^[1]

a	100m	<i>Homo erectus</i> (with skull)	Hominidae	B
b	100m	<i>Homo neanderthalensis</i> (with bear)	Hominidae	B
c	100m	<i>Australopithecus africanus</i>	Hominidae	B
d	100m	<i>Homo neanderthalensis</i> (with skull)	Hominidae	B
	SS 350m	L: <i>Homo neanderthalensis</i>	Hominidae	B
		R: Cave Bear, <i>Ursus spelaeus</i>	Ursidae	B
Margin		Ctr & MR: <i>Homo erectus</i>	Hominidae	Z
		LL: Woolly Rhinoceros, <i>Coelodonta antiquitatis</i>	Rhinocerotidae	Z

PERU**2016?** (Prehistoric Animals)

At the end of 2016, Serpost presented several new stamps on their Internet site, unfortunately without any detail (www.serpost.com.pe/SellosPostales2016.html). As far I know most of them are still not on sale at postal desks in Peru. One of these stamps shows a fossil and reconstruction of the largest prehistoric bird.

	\$10	<i>Pelagornis</i> (with fossil)	†Pelagornithidae	A
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SIERRA LEONE**2016 August 29** (Extinct Animals) (MS/4 & SS/1)^[1]

a	6000Le	Thylacine, <i>Thylacinus cynocephalus</i>	†Thylacinidae	A
b	6000Le	Saber-toothed Cat, <i>Smilodon fatalis</i>	Felidae	A

SIERRA LEONE (continued)

c	6000Le	Giant Rhinoceros, <i>Elasmotherium</i>	Rhinocerotidae	A
d	6000Le	Dodo, <i>Raphus cucullatus</i>	Columbidae	A
	SS 24000Le	Woolly Mammoth, <i>Mammuthus primigenius</i>	Elephantidae	A
	Margin	UL: Thylacine, <i>Thylacinus cynocephalus</i>	†Thylacinidae	Z
		UR: Dodo, <i>Raphus cucullatus</i>	Columbidae	Z

2016 August 29 (Dinosaurs & Minerals) (MS/4 & SS/1)^[1]

a	6000Le	<i>Prenocephale</i>	†Pachycephalosauridae	A
d	6000Le	<i>Gasosaurus</i>	Order: Saurischia	A
	SS 24000Le	<i>Mandschurosaurus</i>	†Hadrosauridae	A
	Margin	<i>Einiosaurus</i> (adult & young)	†Ceratopsidae	Z

2016 November 28 (Charles Darwin) (MS/4 & SS/1)^[1]

a	6000Le	Dinosaur skeleton (with Charles Darwin)		B
b	6000Le	Dodo, <i>Raphus cucullatus</i> (with HMS <i>Beagle</i>)	Columbidae	B
c	6000Le	Prehistoric humans	Hominidae	B
d	6000Le	Charles Darwin		B
	SS 24000Le	Charles Darwin		A
	Margin	Prehistoric animals & humans		Z

2016 December 29 (Flying Dinosaurs) (MS/4 & SS/1)^[1]

a	6000Le	<i>Peteinosaurus zambellii</i>	Order: †Pterosauria	A
b	6000Le	<i>Pterodactylus antiquus</i>	†Pterodactylidae	A
c	6000Le	<i>Pterodactylus</i> sp.	†Pterodactylidae	A
d	6000Le	<i>Zhenyuanopterus longirostris</i>	†Boreopteridae	A
	SS 24000Le	<i>Dimorphodon macronyx</i>	†Dimorphodontidae	A
	Margin	L: <i>Quetzalcoatlus northropi</i>	†Azhdarchidae	Z

SOLOMON ISLANDS**2016 December 1** (Dinosaurs) (MS/36)^[1]

a	\$7	<i>Allosaurus fragilis</i>	†Allosauridae	A
b	\$7	<i>Alamosaurus sanjuanensis</i>	†Saltasauridae	A
c	\$7	<i>Apatosaurus ajax</i>	†Diplodocidae	A
d	\$7	<i>Baryonyx walkeri</i>	†Spinosauridae	A
e	\$7	<i>Chasmosaurus</i>	†Ceratopsidae	A
f	\$7	<i>Cryolophosaurus ellioti</i>	Order: Saurischia	A
g	\$7	<i>Deinonychus antirrhopus</i>	†Dromaeosauridae	A
h	\$7	<i>Edmontosaurus regalis</i>	†Hadrosauridae	A
i	\$7	<i>Euoplocephalus tutus</i>	†Ankylosauridae	A
j	\$7	<i>Gastonia burgei</i>	†Nodosauridae	A
k	\$7	<i>Hadrosaurus foulkii</i>	†Hadrosauridae	A
l	\$7	<i>Herrerasaurus ischigualastensis</i>	†Herrerasauridae	A
m	\$7	<i>Irritator</i>	†Spinosauridae	A
n	\$7	<i>Kentrosaurus aethiopicus</i>	†Stegosauridae	A
o	\$7	<i>Majungasaurus crenatissimus</i>	†Abelisauridae	A
p	\$7	<i>Megaraptor namunhuaiquii</i>	Order: Saurischia	A
q	\$7	<i>Muttaborrasaurus langdoni</i> (blue)	†Rhabdodontidae	A
r	\$7	<i>Muttaborrasaurus langdoni</i> (red & green)	†Rhabdodontidae	A
s	\$7	<i>Ornithomimus velox</i>	†Ornithomimidae	A
t	\$7	<i>Pachycephalosaurius wyomingensis</i>	†Pachycephalosauridae	A
u	\$7	<i>Plateosaurus engelhardti</i>	†Plateosauridae	A
v	\$7	<i>Psittacosaurus mongoliensis</i>	†Psittacosauridae	A
w	\$7	<i>Pterodactylus antiquus</i>	†Pterodactylidae	A
x	\$7	<i>Rhamphorhynchus muensteri</i>	†Rhamphorhynchidae	A

SOLOMON ISLANDS (continued)

y	\$7	<i>Saurolophus osborni</i>	†Hadrosauridae	A
z	\$7	<i>Sauroposeidon proteles</i>	Order: Saurischia	A
aa	\$7	<i>Spinosaurus aegyptiacus</i>	†Spinosauridae	A
ab	\$7	<i>Stegosaurus stenops</i>	†Stegosauridae	A
ac	\$7	<i>Struthiomimus altus</i>	†Ornithomimidae	A
ad	\$7	<i>Suchomimus tenerensis</i>	†Spinosauridae	A
ae	\$7	<i>Tenontosaurus</i>	Order: †Ornithischia	A
af	\$7	<i>Triceratops horridus</i>	†Ceratopsidae	A
ag	\$7	<i>Tropeognathus mesembrinus</i>	†Ornithocheiridae	A
ah	\$7	<i>Tsintaosaurus spinorhinus</i>	†Hadrosauridae	A
ai	\$7	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
aj	\$7	<i>Velociraptor mongoliensis</i>	†Dromaeosauridae	A

TOGO**2016 December 15** (Dinosaurs) (MS/4 & SS/1)^[1]

a	900fr	<i>Dimorphodon</i>	†Dimorphodontidae	A
b	900fr	<i>Dimetrodon</i>	†Sphenacodontidae	A
c	900fr	<i>Carnotaurus</i>	†Abelisauridae	A
d	900fr	<i>Alioramus remotus</i>	†Tyrannosauridae	A
	SS 3500fr	<i>Baryonyx</i>	†Spinosauridae	A
	Margin	<i>Quetzalcoatlus</i>	†Azhdarchidae	Z
		<i>Baryonyx</i>	†Spinosauridae	Z

UKRAINE**2017 January 20** (Paleolithic Age) (SS/2)

a	7.50g	Mammoth, <i>Mammuthus</i>	Elephantidae	B
		Prehistoric humans	Hominidae	B
b	7.50g	Prehistoric humans	Hominidae	A
	Margin	L & R: Prehistoric humans	Hominidae	Z

Other Stamps to Consider**CANADA****2017 January 16** (UNESCO Heritage Sites)

Five stamps issued as MS and self-adhesive booklet of 10 and 30 stamps. The first stamp on the MS shows Dinosaur Provincial Park in Alberta (the same design as in 2015). Dinosaur Provincial Park is known for its remarkable fossil specimens that represent every known group of Cretaceous dinosaurs, as well as its impressive area of virtually undisturbed badlands and riparian (riverside) habitat. At Mistaken Point (the second stamp on the MS), the rugged coastal cliffs host the oldest known collection of large fossils in the world, marking the world's first appearance of large, biologically complex organisms.

GREAT BRITAIN**2017 January 17** (Ancient Britain)

The subject of these eight stamps is how people lived in prehistoric times in Ancient Britain. The stamps show famous iconic sites and some of the most exceptional artifacts found across the UK, and overlays illustrations to show how people lived, worked, and used the objects. Overall, the stamps give a timeline across thousands of years of history, from a glimpse of Stone Age ritual of 11,000 years ago, through the Bronze Age and into the Iron Age around 300 BC.

ISRAEL**2017 February 7** (UNESCO World Heritage)

Three stamps showing UNESCO world heritage sites of Israel to be issued on 7 February 2017. One of them depicts a beautiful prehistoric stone tool from Nahal Me'arot Caves in Israel. The caves were used for habitation by hominins and prehistoric humans and contain unique evidence of very early burials.

2.40s Nahal Me'arot Caves and a flint tool found there

Commemorative Postmarks

CROATIA

2016 December 22 (Dragutin Gorjanovic Kramberger)

Dragutin Gorjanovic Kramberger was Croatian geologist, archeologist, and paleontologist who discovered a very rich Neanderthal site of an early man today known as Krapina Man in 1899. A skull of Neanderthal is also shown on the postmark.

ITALY

2016 December 10 (30th anniv. Archaeological Museum of Tolerienze)

Prehistoric elephant shown in the middle of the postmark

Future Issues

2017.03.24: Slovenia: "Mammal Fossils in Slovenia: Cave Lion"

2017.05.19: China P.R.: "Dinosaurs," five stamps and a booklet

2017.???: South Africa: "Homo Naledi" (extinct species of hominin that anthropologists first described in 2015)

Tentative: Some stamps that might be related to Paleontology or Paleoanthropology (clarification needed)

2017.04.11: Great Britain (Jersey): SEPAC–Ancient Artifacts

2017.06.14: Great Britain (Jersey): Durrell and the Darwin Initiative

Notes:

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

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

Images and detailed descriptions of all stamps mentioned above can be viewed on the following website: <http://www.paleophilatelie.eu/year/current.html> and <http://www.paleophilatelie.eu/year/2016.html>.



<http://www.paleophilatelie.eu>

focal point between
Paleontology and Philately

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

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

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

Contact: admin@paleophilatelie.eu

Join us on Facebook: PaleoPhilately group



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

ATA TopicalsOnLine. On-line stamp sales by topic and country. Anyone can be a buyer, but you must be an ATA member in good standing to be a seller. Robust search capability and reasonable prices.

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

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

Entomology Family Abbreviations:

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