

BIOPHILATELY

OFFICIAL JOURNAL OF THE BIOLOGY UNIT OF ATA

JUNE 2017

VOLUME 66, NUMBER 2

“Whilst travelling through the mountains of Paraguay, I chanced upon the Yack’wee Indians drinking the Juice of the Cacti, the only real cure for hoarseness known to medical science....Who’ll be the first to buy a bottle?”—The Great McGonigle



Vic Eichler

Amphibians in Medical Research

More Inside >>



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

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

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

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.

NOTE: Please provide a self-addressed envelope with the necessary return postage (or International Reply Coupons, if available) for all enquiries requiring an answer.

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

FROM THE EDITOR'S DESK

The National Topical Stamp Show, a World Series of Philately exhibition put on by our parent organization the American Topical Association, will be held 23-25 June in Milwaukee, Wisconsin. The Biology Unit will be meeting there on Saturday morning at 10:00 AM. I hope to see as many of you as possible at the show.

President Alan Hanks has decided he will step down from his office and with the vacancy in the Vice President position, it is essential that we hold an election of officers as soon as possible. You will find a ballot with the printed copy of this edition. Please fill it out and return it to the Secretary no later than 15 July 2017.

For those of you who receive the electronic edition of the journal, you can download a copy of the ballot at the Unit website.

The Treasurer's Report on page 93 shows that our expenses continue to outpace our income. Obviously, this is a condition that cannot continue if we want to remain a viable organization. The major portion of our expenses involve the production and distribution of this journal. It is possible to reduce this expense by reducing the size of the journal, or by converting print subscribers to electronic subscribers.

However, reduction in the quantity of pages would adversely affect the quality of the publication that we have tried so hard to achieve. And this would not reduce the printing and mailing costs by an adequate amount anyway. Converting delivery to electronic editions would further reduce our income because of the lower dues rate. Another factor affecting our income is that we have 27 Life Members on our rolls who do not pay annual dues. I encourage them to consider making a donation to the Unit to help defray our expenses.

We greatly appreciate our members who have kept up their dues and those who have also added donations to their payments. As the Treasurer notes, if you are in arrears, you need to get your payment in as soon as possible. We cannot afford to print and send out "gratis" copies to you.

I expect that, absent donations and income from other sources, the Unit Board will be considering an increase in the annual dues rate sometime this year. If any members have comments or suggestions on ways to address this issue, please write to me.

I continue to look for an Associate Editor to take over the Ichthyology column. You will notice that I included that column in this edition. Frankly, however, it is not an area I collect and I do not have time to give it the attention it ought to have. I know we have fish collectors out there. Time for one of you to step up.

Also, as I mentioned in the last issue, we are looking to expand our columns to more subjects. One area that is most absent is Microbiology. Please contact me if you have any listings pertaining to this topic. In addition, we would like to add a column on "New Mammals" making their philatelic debut and similar columns for other biota.

I hope all of you have a terrific summer, but be careful out there.

Jack R. Congrove



DUES RATES (US\$)

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

ADVERTISING RATES

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

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

PRESIDENT'S MESSAGE

(Continued from Vol. 66, No. 1) The geological formations in Zion are all oriented north/south, rising to great heights and making one feel pretty small. We took a swim in the pool to cool down and then walked along the river up to “The Narrows,” where the river disappears up a large fissure to the north.

We saw some interesting birds and several white butterflies that resembled the usual “Cabbage White,” but with no black markings on the upper wing surfaces. Supper in the motel, which was very good, but followed in the morning by a not-so-good breakfast.

We took Highway 9 through Zion to the east, climbing a zig-zag road up the side of a canyon and then into a mile long tunnel that was completed in 1930 with wonderful views on the other side. We parked and walked around to take photos of the views.

Hwy 9 at last joined up with Hwy 89 and took us into Arizona, where we began climbing again and ended up on the North rim of the Grand Canyon, where we booked into Grand Canyon Lodge and made reservations for dinner. Then we drove to Cape Royal, found a picnic spot where we had some snacks from our “Koola-tron,” accompanied by a Raven who was looking for handouts.

Then on to Point Imperial, which gave us terrific views and on a twisty road to Cape Royal, where we got a view of the Colorado River far below us and marvelled at the vast panorama. After supper, we took a walk along the rim to Bright Angel Point and wondered at the colorful names assigned to all the beauty spots around the Canyon.

We stopped for a while to look at a herd of 8–10 Mule Deer, along with some other folks until a Park Ranger came along and told everyone to move. Then on our way again and the road started to descend and we came off the Kaibab Plateau to a vista of desert with the bright red Vermilion Cliffs to the west of us.

We passed balancing rocks and arrived at Marble Canyon where the highway bridge crosses the Colorado and we stopped for pictures, including two rafts full of people. We turned South after this and came to a sign that read “Fasten your seatbelts—it is Navajo Nation Law.” We turned west when we left Navajo Territory, back through the Kaibab Forest and into Grand Canyon National Park and found that our Hotel was out of the park.

Dinner was very good and I ventured to try a Mexican dish—Pollo Verde, which was quite hot, but cooled down with a carafe of Zinfandel. Monday was July 1st (Happy Birthday, Canada!) and loony Alan (as my wife put it) got up at 5 AM. to watch the sun rise over the canyon and it was unbelievably beautiful (Barbara wished she had joined me when she saw the photos.) Unfortunately, we had to leave but promised ourselves that we would return and spend more time getting to know about such a wonderful place.

We had planned to head up through the Coconino Forest to the Mogollon Plateau and Flagstaff, which is a great town with lots of interesting stores where one can buy Indian pottery (which we did). We stayed in a motel that was near the railroad tracks and spent a restless night with plenty of trains.

We had to start heading east towards home and made a vow that we would return as soon as we could. Found our way to Albuquerque and had supper in a Japanese restaurant with a very funny chef who cooked all the meals over an open fire—our first experience of this. We continued heading east and July 4th arrived (Happy Birthday, America!) as we crossed into Texas and turned north to start heading for home.

We have really enjoyed this and some of our other trips that have been made possible by the fact that the ATA moves their show locations around the country, which enables us to meet our friends and discover America in the process. We have tried to convince some of our Canadian friends to do the same thing, but many seem to prefer travelling in the “farther North.”

Until next time...

Alan J. Hanks



SECRETARY-TREASURER'S CORNER

NEW MEMBERS

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

1882 Donald Lobmeyer, Wichita, Kansas
1883 Tim Hodge, Virginia

rhinos
birds of prey, tea

TREASURER'S REPORT

As of May 2017, there are 144 members of the Biology Unit.

There are still many members who have not paid their 2017 dues. The following are in arrears for two or more years: **Bratlie, Braun, Burch, Byrnes, Crane, Das, Davis, Holland, Mahaffey, Matveev, Miguelgorry, Moravec, Norman, Samford, Schoen, Vassuer, Vaughn, and Zimmerman**. I will soon be removing members who are two years or more in arrears in payment of dues. There have been three new members in the last 12 months. Two life members and one regular member have resigned. One of our life members died during the year.

The table below summarizes income and expenses over the past year.

Assets: (as of 1 May 2017)	
Checking	\$10,252.58
Total	\$10,252.58
Expenses:	
Credit card fees to ATA	\$3.50
PayPal charges	\$5.61
Domain name	\$14.95
Website charges	\$101.49
Post office box rental	\$0.00
Postage Canada	\$173.52
Postage Foreign	\$498.78
Postage U.S.	\$856.57
Printing	\$1,811.85
Supplies	\$109.08
Sales tax	\$101.65
NTSS Sponsorship	\$350.00
Advertising in NTSS program	\$35.00
Total	\$4,062.00
Income:	
Dues	\$1,226.16
Donations	\$363.92
Total	\$1,590.08

Expenses are about the same overall as last year \$4,062 this year and \$4,070 last year. However, printing and postage costs are higher. This may reflect larger issues of *Biophilately*.

Income from both dues and donations is lower than last year. We appreciate donations from the following members: **Bono, Brunt, Hoppe, Herzog, Jones, Kavalecs, Law, Mauney, Noyce, Nystuen, Phipps, Setterberg, Shore, Stansfield, White, Wongpakdee, and Wright**. We thank you all.

BIOLOGY UNIT MEETING

The Biology Unit will hold its annual meeting at the National Topical Stamp Show (NTSS) in Milwaukee, Wisconsin, at 10:00 AM on Saturday, 24 June 2017. Ordinarily this is a social meeting and we do not discuss detailed business matters. The NTSS show runs 23–25 June at the Crowne Plaza Milwaukee Airport Hotel. See page 95 for more information about the show.

BIOLOGY UNIT ELECTIONS

Alan Hanks has decided to step down from the President position. Because the Vice President position has been vacant for some months, he will remain in office until we elect new officers to fill those positions.

The By-laws say that the term of office will conform to the fiscal year, which is 1 January through 31 December. The Constitution says that the Board members can appoint replacements in the event that neither the President nor Vice President is able to serve.

Therefore, in accordance with both documents, the Board will appoint the election winners to fill out the remaining terms of these offices and they will start their official terms on 1 January 2018.

The Board has received the following nominations for officer positions:

President: Laurie J. Ryan, Cincinnati, Ohio

Vice President: Glenn G. Mertz, Allentown, Pennsylvania

Secretary-Treasurer: Christopher E. Dahle, Cedar Rapids, Iowa

Laurie J. Ryan has been a member of the Biology Unit since 1999, and was the Unit Treasurer from 2004 until 2010. She is currently serving as Secretary of the American Topical Association. She collects the following topics: hedgehogs, ermine, fish, and endangered species.

Glenn G. Mertz has been a member of the Biology Unit since 1987. He is currently the Associate Editor for Ornithology, a position he has held since 2006. He collects the following topics: birds and insects.

Christopher E. Dahle has been a member of the Biology Unit since 1982 and was the Unit Secretary from 1998 to 2010. In 2010, he took over the combined position of Secretary-Treasurer and has served in that role since then. He is currently the Associate Editor for Botany, a position he has held since 1995. He is also a Director on the Board of the American Topical Association. He collects botanical topics.

A ballot is attached at the last page of this edition.

The Unit Constitution says we must give 30 days after the announcement in *Biophilately* for balloting by mail. Please submit your completed ballots no later than 15 July 2017, to the Secretary-Treasurer, Chris Dahle at 1401 Linmar Dr. NE, Cedar Rapids, IA 52402.

You can e-mail a copy of the completed ballot to: chris-dahle@biophilately.org

NEWS OF NOTE

NATIONAL TOPICAL STAMP SHOW

Our parent organization, the American Topical Association (ATA), 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 NTSS is an American Philatelic Society sponsored World Series of Philately (WSP) national-level exhibition. The special show room rate at the show hotel is \$99 plus taxes.

The show will feature an all-thematic philatelic exhibition and a 30-dealer bourse. Several cachet makers will also be present. The show includes not only topical material, but a wide range of other stamps, covers, and philatelic items. There will be meetings, seminars, youth activities and other events.

Six speakers will offer noteworthy presentations. Barry Stagg will talk about “Thematics in Great Britain.” Jack André Denys will speak about the life of pioneering topical exhibitor Mary Ann Owens in “Mary Ann Owens Lives.” Noted philatelic judge Ed Andrews will explain the newest competitive exhibit type, “Topical Exhibits.”

You will be able to get helpful tips on aspects of collecting. Jack Congrove will instruct you on the steps to “Make Your Own Album Pages by Computer.” Dale Smith will describe “Removing Self-Adhesive Stamps from Paper.” And Norma Nielsen will explain “Using Genealogy Resources for Philatelic Research.”

Parking is free and there will be experts available to evaluate stamp collections and philatelic items.

On Thursday, 22 June, the ATA will conduct a half-day tour of historic Cedarburg, Wisconsin. The tour will include visits at the Wisconsin Museum of Quilts and Fiber Arts, Cedarburg Cultural Center, and the Cedarburg Art Museum. The cost of the tour is \$55 and includes a buffet lunch and driver gratuities.

On Monday following the show, the ATA will offer a full-day tour of New Glarus, Wisconsin. This tour will include visits to the Swiss Historical Village and Museum and the Chalet of the Golden Fleece Museum. The cost of this tour is \$77 and includes lunch at the New Glarus Hotel Restaurant and gratuities.

Register for the show and the tours by visiting the ATA website at: <http://www.americantopicalassn.org>.

DISTINGUISHED TOPICAL PHILATELIST

For her wide-ranging contributions to philately, Vera Felts has been selected to receive the American Topical Association’s highest award at the NTSS awards banquet on 24 June in Milwaukee. Vera is also a member of the **Biology Unit**.

As the ATA Executive Director since 2009, Ms. Felts has brought innovation and a positive attitude to the office and many of the organization’s programs. She spearheaded the highly successful ambassador program that has resulted in hundreds of new members, and managed the transition to a new topical checklist database, which has made ATA’s signature checklists better than ever.

For the past 18 years, she has served as registration chair and managed the show cachets for the St. Louis Stamp Expo. She edited the APS gold award-winning newsletter of the Southern Illinois Stamp Club for 15 years, and co-founded its SIRPEX local show.

A life member of APS, she served eight years as coordinator of its newsletter exchange. At the Science Center in Carbondale, Illinois, in 1999 she founded a long-running youth stamp group.

Ms. Felts is revered throughout philately for her devotion to helping people advance and enjoy topical collecting.

The Distinguished Topical Philatelist award has been presented by the ATA each year since 1952. Donald Smith served as chair of the selection committee. You can view the scrolls signed by all 119 of the Distinguished Topical Philatelists at <http://www.americantopicalassn.org/awardsdtp>.



ATA BOARD ELECTIONS

Our parent organization, the American Topical Association, recently held elections for its Board of Directors. Three members of the Biology Unit were elected (or re-elected) to the Board. Beth Collins from Cottonwood, Minnesota, was a serving member of the Board and was elected to the position of Secretary. Laurie J. Ryan from Cincinnati, Ohio, who is the current Secretary, was elected as a Director.

Chris Dahle from Cedar Rapids, Iowa, was appointed to the Board right after the election last year because of the resignation of Tony Wawrukiewicz. According to ATA bylaws, he needed to be elected to fulfill the remaining two years of that term. His term will expire in 2019.

The other persons elected to the Board were Igor Grigorian from Los Angeles, California, and Kim E. Kellerman from Westmont, Illinois. Grigorian is President of the Armenian Philatelic Association. Kellerman is the senior US describer at Rasdale Stamp Company.

Long-time Board members Larry Davidson from Stratford, Ontario, and Robert Lamb from State College, Pennsylvania, are leaving the Board, but plan to remain active with the ATA.

All newly elected members will take office officially at the National Topical Stamp Show in Milwaukee, Wisconsin, 23–25 June 2017.

SEAPEX 2017 ACCEPTING EXHIBITS

The Seattle Philatelic Exhibition (SEAPEX) will hold their annual World Series of Philately (WSP) exhibition on 8–10 September 2017, at the Tukwila Community Center just north of SeaTac International Airport. SEAPEX this year is celebrating the 100th anniversary of the establishment of Camp Lewis, now Joint Base Lewis-McChord.

The show will have more than 30 dealers offering a wide variety of philatelic and other material. The China Stamp Society, Society for Hungarian Philately, and Society of Australasian Specialists/Oceania will all be holding their annual conventions at the show.

SEAPEX is accepting philatelic exhibit applications until 21 July 2017. Winners of the Grand awards will be eligible to compete for the American Philatelic Society (APS) Champion of Champions award at the APS StampShow and AmeriStamp Expo. See the show website at <http://seapexshow.org> for more details and to download the exhibit applications and prospectus.

**ANIMALS; DOGS & CATS; HORSES; INSECTS; BUGS
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AMERISTAMP EXPO 2017

Jack R. Congrove, BU1424

The American Philatelic Society (APS) held its 60th annual winter meeting and stamp show, AmeriStamp Expo (ASE), at the Reno-Sparks Convention Center in Reno, Nevada, on 3–5 March 2017. This show was originally planned to be held in Las Vegas. However, the venue that the APS had arranged became unavailable, so they were forced to relocate to Reno.

This change affected the show adversely in some ways. There were only 37 dealers at the show, which usually attracts a much higher quantity. One dealer told me that several dealers decided not to attend because of concerns about the likelihood of bad weather that would prevent many collectors from California from attending.

The APS offered added incentives to attract more dealers, but this appeared to have limited success. The weather concern turned out to be valid as there was obviously low attendance compared to similar shows and some of this could have been attributed to the weather since it did snow on Saturday and some routes were closed because of it.

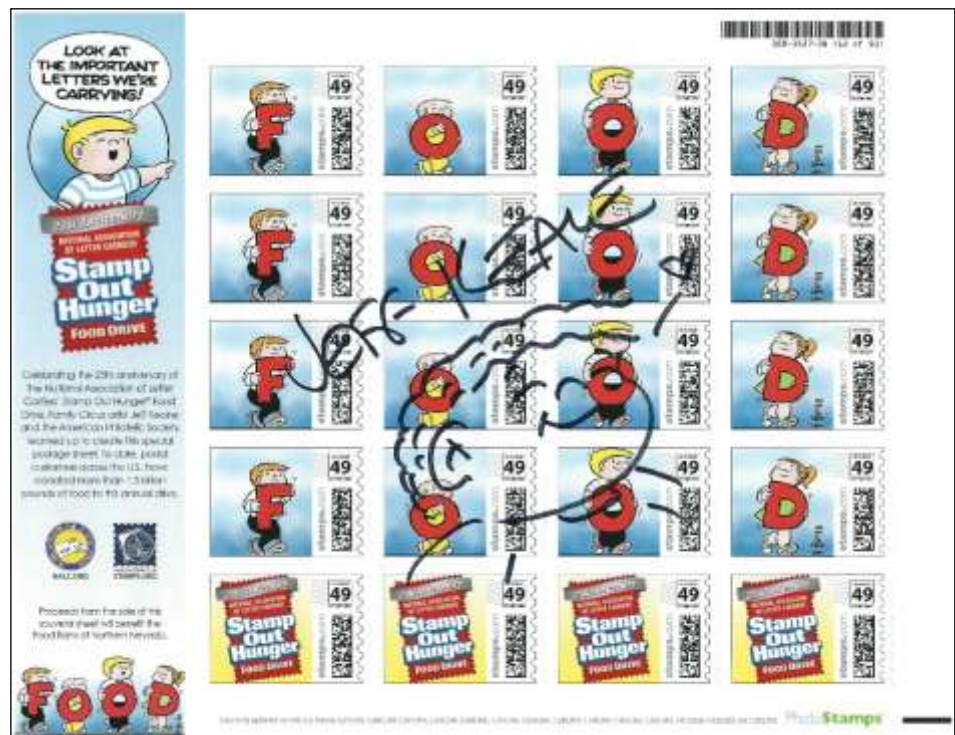
In any case, the low attendance did not seem to harm the bourse sales. Several dealers I spoke with on Sunday indicated that they had good results. So apparently the collectors who did attend came to spend money and did so.

The APS partnered with the National Association of Letter Carriers (NALC) to help kick off their 25th annual Stamp Out Hunger® Food Drive. To mark this event, the NALC produced a PhotoStamps.com personalized postage souvenir sheet that was dedicated at a ceremony on Saturday morning.

Also participating was artist Jeff Keane. Keane's father Bil Keane, created the syndicated comic strip *The Family Circus* that has been part of the fight-hunger campaign from the beginning. Bil Keane passed away in 2011 at age 89, and Jeff now carries on the legacy in helping create the strip. Keane attended several autograph sessions during the show.

In addition to the ceremony, NALC had a booth at the show where they accepted food and monetary donations. The proceeds for the sale of the souvenir sheets will directly benefit the Food Bank of Northern Nevada.

A vintage 1929 Ford mail truck was on display by the NALC booth courtesy of the National Automobile Museum—The Harrah Collection.



Personalized postage souvenir sheet with *Family Circus* images
Autographed by artist Jeff Keane

Both the United States Postal Service (USPS) and the Marshall Islands issued new postal items and held first day ceremonies at the show. The USPS issued a Barn Swallow forever stamped envelope in multiple sizes and configurations at an 11:00 AM ceremony on Friday, 3 March [see *Biophilately*, Vol. 66(1), p.60].

The stamped envelopes were produced in three sizes: No. 6¾, No. 9, and No. 10. Each size comes either with or without an address label. In addition, each comes with either a moisture-activated seal or self-adhesive flap. The USPS booth had packets of six for sale containing the self-adhesive versions in each size and window configuration.

The USPS also conducted a raffle to give away the barn swallow unveiling poster. Yours truly was the lucky winner. Fortunately, a friend from home who drove to the show agreed to transport it home for me since it was much too large to be allowed as a carry-on item.

An added first day ceremony took place on Saturday for another biologically themed issue when the Marshall Islands released a miniature sheet of ten 49-cent Flora stamps [see *Biophilately*, Vol. 66(1), p.63].



Barn Swallow First Day Ceremony

Scott English, APS; Sommer DeRudder, YPLF; Michelle, USFWS; Karen Little, USPS

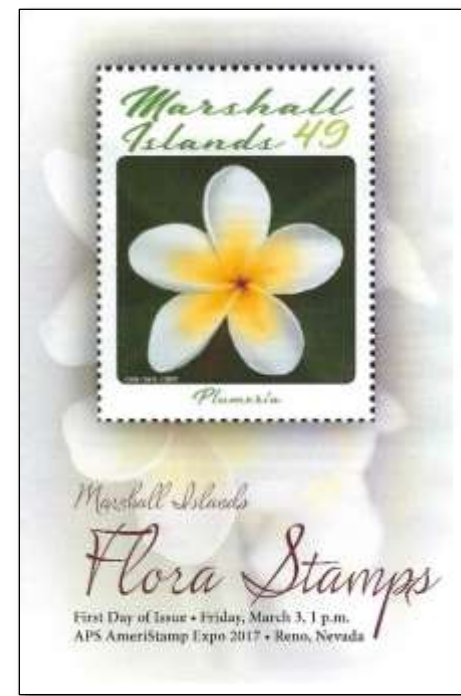
The ASE is the venue for the annual Single Frame Champion of Champions (CoC) philatelic competition. This event pits the winners of the Single Frame Grand award at each of the 30+ World Series of Philately (WSP) national shows that took place across the country throughout the previous year.

Michael T. Mahler won the championship this year with his revenue exhibit “Big Rug, Small Rug, Baby Rug: U.S. Civil War Era \$200 and \$500 Revenues.” This exhibit was the Grand winner at SESCAL 2016.

In addition to the CoC competition, the ASE holds its own regular philatelic exhibition that names a Single Frame Grand Award exhibit that is eligible for the CoC competition next year in Birmingham, Alabama, 23–25 February.

The Grand Award winner was Anthony F. Dewey for his exhibit “The War Rate: 1815–1816.”

The show had the following biology themed exhibits: Larry Fillion won a Large Gold and Best Themed Multiframe exhibit for “The W.H.O.’s The World United Against Malaria Stamp Campaign.”



Michael Bloom won a Large Gold and the AAPE Novice Award for “Guatemala: The UPU Resplendent Quetzals 1881–1886.” Michael T. Mahler won a Large Gold for “Thar She Blows! U.S. Whaling Fiscal History 1862–72.”

Anthony F. Dewey received a Gold and the APS Medal of Excellence for “The 1991 F Tulip Stamps and Their First Day Covers.” Rick Gibson won a Gold for “Smokey Bear Issue of 1984.” Sam G. Chiu received a Vermeil for “Frogs & Toads, Their Relevance to Humans.”

The Vernon and Pam Morris Best Youth and Grand Award was awarded to Alex Fillion for her exhibit “Dairy Products of the Cow.”



ATA Members Dave Kent, Dawn Hamman, and John Hamman

STAMP STORIES

Jack R. Congrove, BU1424

On the cover is a quote from the 1934 movie, *The Old Fashioned Way*, starring W.C. Fields. The picture was produced by Paramount Pictures and based on a story written by Fields himself. In the film, Fields plays the manager of a traveling theater troupe one step ahead of its creditors. He ends up working as a “snake oil” salesman peddling “The Juice of the Cacti,” supposedly a great medicinal cure for hoarseness.

Of course, his magic elixer was 98 percent alcohol and certainly nowhere in the remaining two percent was there any trace of cactus juice.

Ironically, if his bottles had actually contained cactus juice, they would have provided the buyers with some genuine health benefits. Few people know the advantages of consuming cactus juice. Some nutritionists recommend that it be part of everyone’s diet because of its anti-inflammatory and nutritional properties.

There are about 127 genera of cacti, all in the family Cactaceae, with some 1,760 known species. The most prevalent culinary cactus species belong to the *Opuntia* genus and are commonly called “prickly pears.”

Like all true cactus species, prickly pears are native only to the Americas, but they have been introduced to other parts of the world. Prickly pear species are abundant in Mexico, especially in the central and western regions, and also in the West Indies.

In the United States, prickly pears are native to many arid areas of the western United States, including the lower elevations of the Rocky Mountains, where species such as *Opuntia phaeacantha* and *Opuntia polyacantha* are dominant, and to the desert southwest, where several types are endemic.



Opuntia basilaris
USA, 1981, Sc#1944

Opuntia humifusa is native to coastal beach scrub environments and low open areas of the East Coast from Florida to Connecticut.

Opuntia species are the most cold-tolerant of the lowland cacti, extending into western and southern Canada.

Prickly pears also produce a fruit, commonly eaten in Mexico and in the Mediterranean region, known as tuna.

Tuna also are used to make *aguas frescas*, a popular and refreshing drink. The fruit can be red, wine-red, green, or yellow-orange.



Opuntia wentiana
Aruba, 1999, Sc#170

Cactus juice is very common in hot climates where cacti are the most common vegetation. In fact, Central America and Mexico are two places where they are staple parts of everyday diets.



Opuntia sp.
Bernera Local, 1981

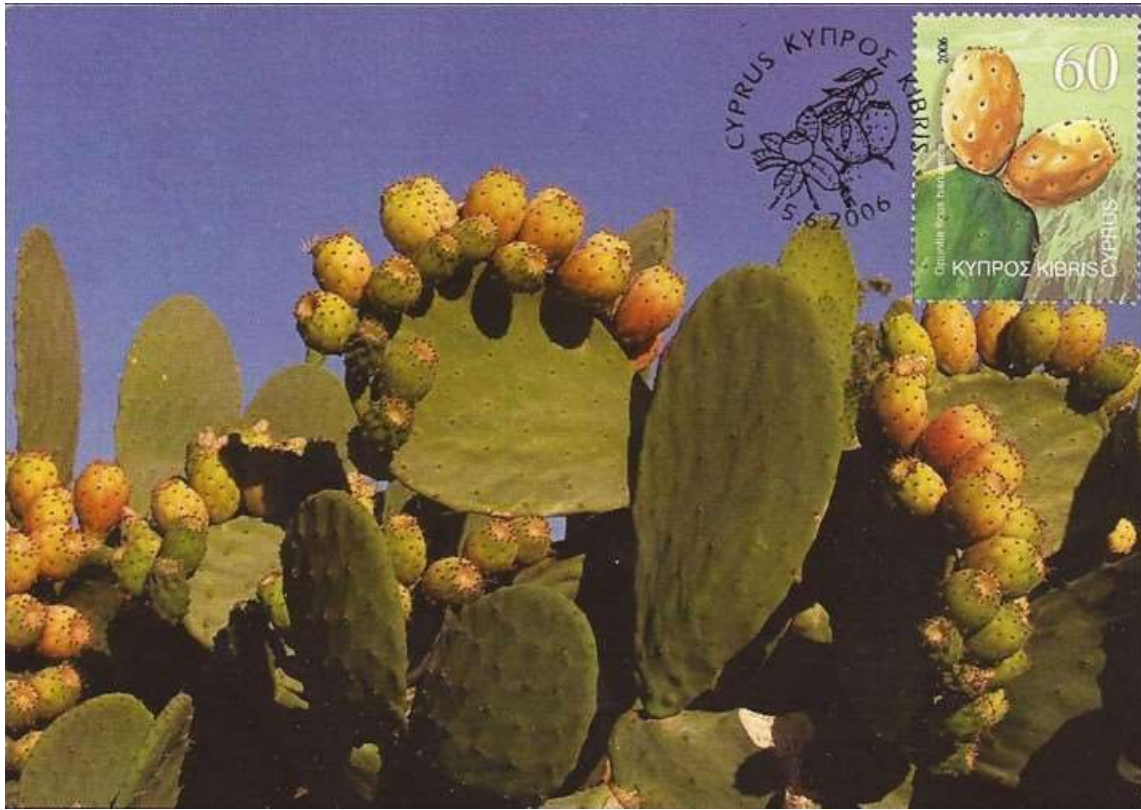


Opuntia phaeacantha
Congo P.R., 1989, Sc#832



Opuntia ovata flowers & fruit
Montserrat, 2012, Sc#1288a&b

Nowadays, cactus fruits are turning out to be popular in other places because of their far-ranging benefits and are becoming gourmet delicacies because of their flavor and flexibility.



Maximum card, *Opuntia ficus-indica*
Cyprus, 2006, Sc#1058



Opuntia rhodantha
Hungary, 1965, Sc#1710

The cactus offers both vegetables and fruits out of which you can make juice. The cactus's pad (*nopal*) is edible, and it is the vegetable part of the cacti. The pear is the fruit, and it is this fruit that is one of the best anti-inflammatory foods. Cactus juice possesses nutrients such as: Vitamin C, calcium, magnesium, potassium, amino acids (taurine), antioxidants, and fiber.

Because inflammation is responsible for diseases like arthritis, cactus is part of many natural arthritis remedies. It can also help other parts of the body such as: bone, gastrointestinal tract, arteries, muscle, and the cardiovascular system.

Regular consumption of cactus juice will help your body stay free from diseases affecting these systems.

The nutrients in cactus fruit are also powerful antioxidants and help flush your body of harmful toxins. As an anti-inflammatory food, it can help control blood pressure, balance cholesterol levels, and lower blood sugar levels. In addition, the fiber can also help you lose weight.

So this food actually does sound like an elixir you would expect to hear touted by a flim-flam artist such as the one played by Fields.



Opuntia ficus-indica
Monaco, 1992, Sc#1804c



Opuntia ficus-indica
Algeria, 1969, Sc#411



Opuntia megacantha
Grenada, 1985, Sc#1292



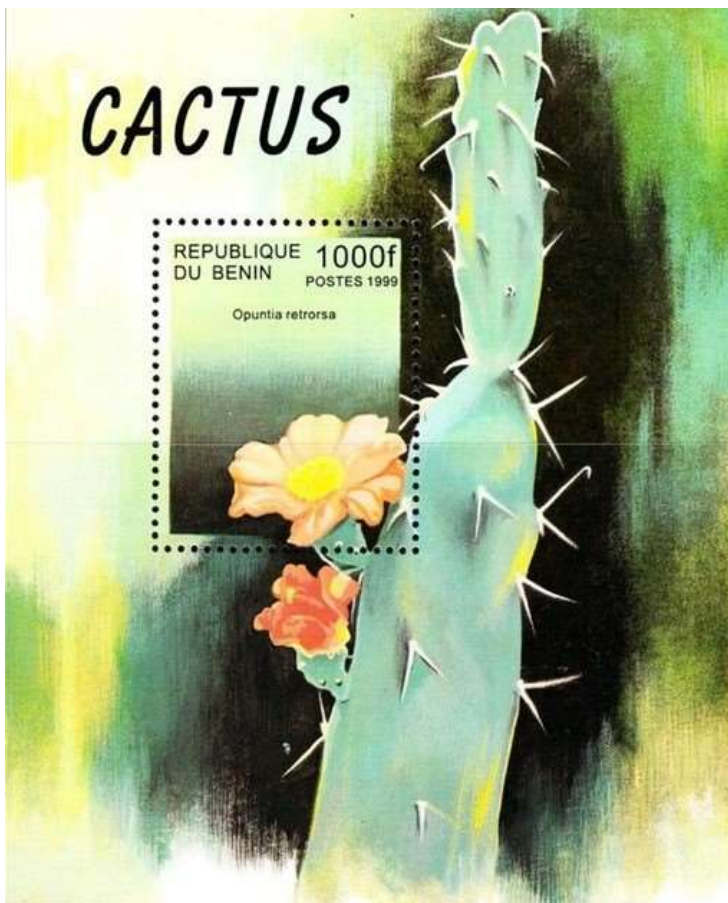
Opuntia anacantha
Bulgaria, 1980, Sc#2726d



Opuntia ficus-indica
Surinam, 1985, Sc#700

Cactus juice is a popular beverage in Mexico, South America, India, the Middle East, and parts of Europe. This beverage has recently caught on in popularity in the United States.

The fleshy oval leaves of the cactus plant have a sticky liquid that is similar to asparagus, green beans, or green peppers. The nectar of this plant is composed of water, sugar and minerals.



Opuntia anacantha var. *retrorsa*
Benin, 1999, Sc#1203



Agua fresca
from juice of cactus fruit

Cactus juice has a laxative effect and has shown to effectively treat constipation. In addition to easing constipation, cactus juice can reduce inflammation in the urethra and bladder. This has shown to help reduce pain experienced by individuals with bladder infections and gallstones.

Cactus juice has shown to be an effective remedy for non-insulin diabetes. Research shows that cactus juice can help decrease and stabilize blood glucose and insulin levels. You can find cactus juice for sale on the Internet, or find it at many local health food stores.

You can consume cactus juice straight, mixed with additional juices like grapefruit juice, or used in preparations like jellies or candies.

Prickly pears (mostly *Opuntia stricta*) were originally imported into Australia in the 18th century for gardens, and were later used as a natural agricultural fencing and in an attempt to establish a cochineal dye industry.

Because they spread in clonal colonies, they quickly became a widespread invasive weed, eventually converting 101,000 square miles of farming land into a green jungle of prickly pear, in places 20 feet high. Scores of farmers were driven off their land by what they called the “green hell.” Their abandoned homes were crushed under the cactus growth that advanced at a rate of one million acres per year.



Opuntia infested area in Australia prior to *Cactoblastis* introduction

In 1919, the Australian federal government established the Commonwealth Prickly Pear Board to coordinate efforts with state governments to eradicate the weed. Early attempts at mechanical removal and poisonous chemicals failed, so in a last resort, biological control was attempted.

In 1925, the authorities introduced the Cactus Moth (*Cactoblastis cactorum*) from South America, the larvae of which eat the prickly pear pads, and they rapidly reduced the cactus infestation.



Opuntia stricta
Guinea, 2013, Mi#9720



Cactoblastis cactorum
Ascension, 1998, Sc#692



Coat of Arms
Mexico, 1916, Sc#576

The coat of arms of Mexico depicts a Mexican golden eagle holding a rattlesnake while perched upon an *Opuntia* cactus.

By the way, before I get letters informing me that it is actually the “Yaqui Indians” and not the “Yack’wee Indians,” I refer you to the banner actually shown in the film.



AMPHIBIANS IN MEDICAL RESEARCH

Dr. Vic Eichler, BU1850

In a previous article published in the June 2015 issue of *Biophilately* (Vol. 64, no. 2), I noted the importance of amphibians in biomedical research. The use of frogs in basic research is so notable that almost ten percent of all research that earned the Nobel Prizes in Medicine or Physiology have utilized frogs.

The island country of Palau has issued a stamp (Sc#560) noting the early contributions of frogs to what became the Human Genome Project. The stamp is one of five issued on a 2000 miniature sheet commemorating advances in science and medicine in the 20th Century.

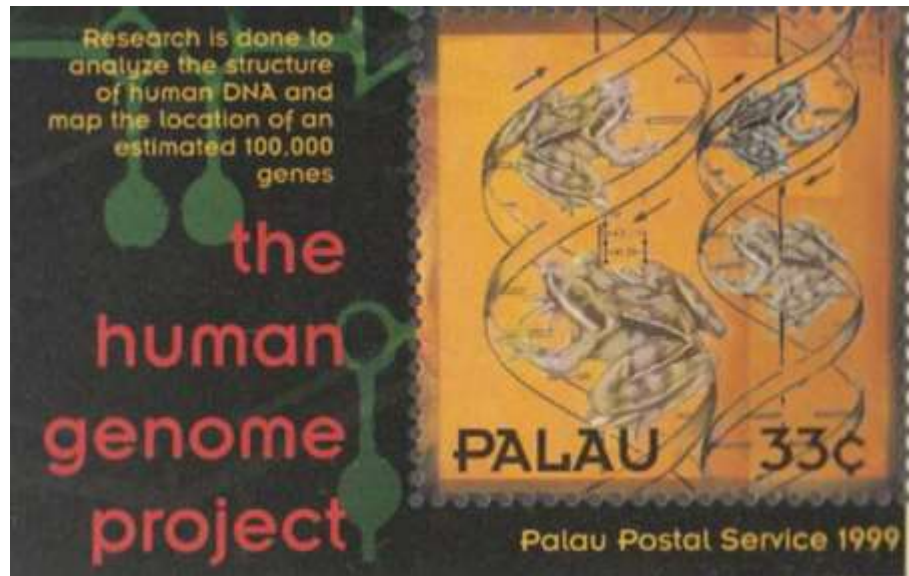
The Human Genome Project was initiated in 1990 by the international scientific community to identify and map all of the genes on human chromosomes.

The map so created has opened up the field of “molecular medicine” useful in treating many diseases in humans, and also with applications in agriculture, animal husbandry, applied forensic science, anthropology and other fields.

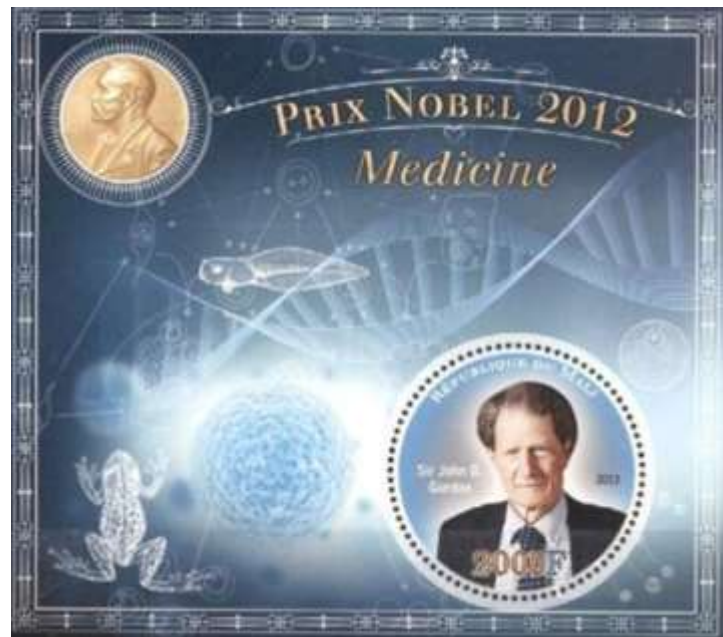
A 2013 souvenir sheet issued by the Republic of Mali pictures Sir John Gurdon, a researcher who shared the 2012 Nobel Prize in Medicine or Physiology “for the discovery that mature cells (of frogs) can be reprogrammed to become pluripotent.” This research is an important step toward discovering the nature of stem cells.

Stem cells have the potential of replacing or repairing damaged tissues. Use of these embryonic-type cells have replaced neurons in damaged spinal cords, allowed people with diabetes to produce their own insulin, repaired damage to the heart following a heart attack, and show promise in treating neurological problems such as Alzheimer’s or Parkinson’s disease.

Of special interest to collectors focused on amphibian development are the many illustrations in the margin of this sheet that depict the egg, blastula, larval, and adult stages of frog development as well as a superimposed image of the DNA double helix from the cell nucleus that controls development of animal tissues and organs.



Human Genome Project
Palau, 2000, Sc#560e



Sir John Gurdon
Mali, 2013, not yet cataloged

DOLPHIN RESEARCH JOINT ISSUE

The subject of Dolphin Research was chosen to represent 40 years of diplomatic relations with Portugal on the Israel-Portugal Joint Issue. Both countries undertake advance research into dolphins and they are extremely communicative mammals symbolizing good relations.

According to Tzipora Rimon, Israeli Ambassador to Portugal, the diplomatic relations between Israel and the Portuguese Republic developed in stages.

An Israeli consulate was first opened in Lisbon in the late 1950s. After the Carnation Revolution in Portugal in April 1974, this was upgraded to a general consulate and in 1977, to an embassy, the highest indication of full diplomatic relations. Since then the two countries have benefitted from friendly and collaborative relations in many fields.

The Jewish people have ancient ties to Portugal, but the Portuguese Jewish community experienced dramatic changes beginning in the early 15th century: expulsion, forced conversion, and the Inquisition. In 1989, a formal apology from the Portuguese people was issued to the Jews and in 1996, the Decree of Expulsion was nullified on the 500th anniversary of its issuance.

During WWII, many Jews passed through Portugal, mostly immigrating to other countries and later also to Israel.

Israel recognized four Portuguese “Righteous Gentiles.” The most well-known is Aristides de Sousa Mendes, who issued visas to thousands of Jews while serving as the Portuguese consul-general in Bordeaux, France during the Holocaust. An Israeli stamp was issued in his honor in 1998.

Dolphin Research

The study of coastal dolphins is a relatively young field of research that has developed in both Portugal and Israel in recent decades. In both countries, the coastal dolphin population exists alongside fishing activity and at times dolphins are caught by fishing equipment, causing them injury and even death.

Bottlenose dolphins are top predators of the coastal marine environment in both countries. They are considered to be a sentinel species for a healthy sea, both in the broad sense of the health of the system as well as in the narrow sense of human health, as consumers of food products from the sea.

The Common Bottlenose Dolphin (*Tursiops truncatus*) belongs to the family Delphinidae and is most commonly found in tropical to temperate oceans, mainly in the shallow waters of the continental shelf, where water depths are up to 200 meters. Mature dolphins range from 2-4 meters in length and weigh between 150–650 kgs. Dolphins tend to live in groups of up to 12 members, although a number of groups may join together to create a larger super-group of 100 or more dolphins. The two main factors that contribute to group size are food availability and danger from predators.

Dr. Aviad Scheinin, PhD. Dolphin & Sea Center Manager, Israeli Marine Mammals Research & Assistance Center The Morris Kahn Marine Research Center - Top Predators Project manager, University of Haifa, Israel.

The stamps were issued on 4 April 2017, in sheets of ten with five tabs. They were printed using the offset method by Cartor Security Printing of France.



ALEXANDER von HUMBOLDT: THE FIRST ENVIRONMENTALIST

Dr. Lyman R. Caswell, Washington

[Ed. Note: This is the final installment of a four-part article on the life of Alexander von Humboldt. See Vol. 65 (3), Vol. 65 (4), and Vol. 66 (1) for first three parts 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.]

México

The travelers climbed the hills surrounding Acapulco and collected botanical specimens. Four days later they began the trip to Mexico City. Along the way, at Tasco, they visited the oldest silver mine in México, which had been opened in 1522. On 11 April 1803, they arrived in México City.

In Mexico City, Humboldt met with the Viceroy, who gave him access to the archives of the Viceroyalty. He renewed his acquaintance with chemist Manuel Andrés del Río (Fig. 46), who had been a fellow student with him at the Freiberg Mining Academy. Del Río was now professor of oryctognosy (an old name for mineralogy) at the Royal College of Mines, the first technical college in the Western Hemisphere. Humboldt wrote a preface for del Río's textbook of oryctognosy, lectured at the college, and participated in the oral examinations of senior students.

From 15 May to 9 September 1803, Humboldt traveled about México, investigating the mining industry, visiting Toltec and Aztec ruins (Fig. 47), and climbing Mexican volcanoes. When this expedition was completed, he decided that his explorations were finished, and he sold his collection of scientific instruments to the College of Mines.



Fig. 47. Teotihuacan Ruins
Mexico, 2010, Sc#2699a

On 3 January 1804, he presented to the Viceroy, José Iturrigaray, a summary of his observations, *Tablas geográficas políticas del Reino de la Nueva España*. These tables were later incorporated into Humboldt's comprehensive study of México, *Essai politique sur la Royaume de la Nouvelle Espagne* ("Political Essay on the Kingdom of New Spain"). The word "political" in the title of this book and Humboldt's book on Cuba should be read as "economic" as a modern interpretation. He did not discuss the "politics" of either country.

On 20 January 1804, Humboldt, Bonpland, and Montúfar left México City for Veracruz. Along the way Humboldt measured the altitudes of the volcanoes Iztaccíhuatl and Popocatepetl (Fig. 48), and climbed the volcano Cofre de Perote (Nauhcampatépetl). The travelers entered Veracruz and sought passage to Cuba. They sailed from Veracruz on 7 March aboard the frigate *La O*.

Second Visit to Cuba

After a month of difficult navigation, the travelers arrived in Havana, where they received a cordial reception. Humboldt made a detailed study of the Cuban sugar industry, which he described in his *Essai politique sur l'île de Cuba*. ("Political Essay on the Island of Cuba.") (Fig. 49). Observation of the use of slave labor in sugar production led Humboldt to become an outspoken enemy of the institution of slavery.

From Havana, Humboldt shipped several cases of specimens, and reports of his explorations to Paris, where the specimens were examined by French scientists, and the reports were published in scientific journals.



Fig. 46. del Río
Mexico, 1965, Sc#961



Fig. 48. Iztaccíhuatl & Popocatepetl
Mexico, 1934, Sc#C57



Fig. 49. Humboldt Bicentenary (with Surinam Eel, Night Ape, & Condor)
Cuba, 1969, Sc#1433–35

United States

Humboldt and his companions sailed from Havana on 29 April 1804, and arrived at Philadelphia on 19 May after a stormy passage. In Philadelphia, they were the guests of artist Charles Willson Peale (Fig. 50). Humboldt visited Peale's Museum of Natural History, and admired the unique exhibits. Peale painted Humboldt's portrait, (Fig. 51), which now hangs in the Mutter Museum of the College of Physicians in Philadelphia.

Peale and the travelers left Philadelphia on 26 May, and arrived in Washington on 29 May. Peale introduced Humboldt to President Jefferson (Fig. 52) in the hope of using Humboldt's influence to persuade Jefferson to obtain public funding for his museum. Jefferson was not persuaded.



Fig. 50. C.W. Peale
USA, 1955, Sc#1064



Fig. 51. Humboldt Portrait
(C.W. Peale, 1804)



Fig. 52. Jefferson (imperforate coil)
USA, 1968, Sc#1299b

Jefferson invited Humboldt and his companions to an informal dinner at the White House. Jefferson had a clever way of obtaining information from guests. He entertained them with excellent food and wine, and got them to talk about things in which he was interested. It was Jefferson's expectation that Spanish territories to the west would someday be acquired by the United States and he wanted to know all about them.

Jefferson's Corps of Discovery (the Lewis and Clark expedition) had started off from Missouri a few days earlier, on 14 May. Jefferson got Humboldt to tell him all he knew about Mexico. By the time Humboldt was finished talking, Jefferson probably knew more about the resources of Mexico than the Spanish did.

Humboldt, who loved to talk and tell everything he knew, never realized that he had been pumped. But he did scold Jefferson for keeping slaves. Otherwise, he was a great admirer of Jefferson's political ideals. Humboldt and Jefferson corresponded for the remainder of Jefferson's life.

On the next day, Humboldt and his companions visited Mount Vernon, which, only five years after George Washington's death, was already a tourist attraction. They had an exciting return trip to Washington. Their coachmen had spent the time of the visit in a nearby tavern, and, encouraged by their libations, decided to race each other to see who could get back to Washington first. Everyone got back safely, though a bit shaken.

A day later, Humboldt was a guest at the home of Treasury Secretary Albert Gallatin (Fig. 53). He gave Gallatin copies of his maps and other documents about the Spanish territories. Gallatin was very impressed by Humboldt's knowledge. He wrote, "I was really delighted, and swallowed more information of various kinds in less than two hours than I had for two years in all I had heard and read."



Fig. 53. Gallatin
USA, 1967, Sc#1279

In June, the travelers met with Secretary of State James Madison and visited artist Gilbert Charles Stuart. They also met with Dr. Benjamin Rush, professor of chemistry at the College of Philadelphia, and a signer of the Declaration of Independence.

Following his meetings with famous Americans, Humboldt concluded his exploration of the Americas. On 9 July 1804, Humboldt, Bonpland, and Montúfar sailed from Philadelphia for Europe aboard the frigate *La Favorite*.

Return to Europe

Humboldt, Bonpland, and Montúfar arrived at Bordeaux on 8 August 1804. Humboldt and Montúfar went directly to Paris. In Paris, Humboldt discovered that he was already famous. The specimens that he had sent ahead had been studied by French scientists, and his letters describing his explorations had been published.

During the fall of 1804, Humboldt collaborated with French chemist Joseph-Louis Gay-Lussac in research in the behavior of gases, resulting in the discovery of the relationship now known as Gay-Lussac's Law of Combining Volumes. (Fig. 54).

In Paris, Humboldt became acquainted with the future "Liberator" of South America, Simón Bolívar. (Fig. 55).



Fig. 54. Gay-Lussac First Day Cover
France, 1951, Sc#B260



Fig. 55. Humboldt & Bolívar
DDR, 1983, Sc#2363

Humboldt preferred to live in Paris, rather than his native Berlin, because Paris was the scientific and intellectual capital of Europe. He preferred to write his books in French because he felt it would give him a wider audience, and better sales.

Montúfar's goal in Paris was completion of his education. When the South American Spanish colonies declared independence and rebelled against Spain, Montúfar returned to

He presented the results of his explorations in lectures at the Institut de France and exhibited a collection of his sketches at the Jardin des Plantes. In December, Humboldt attended the coronation of Napoléon as Emperor. Figure 56 shows the painting of the coronation by Jacques-Louis David. Humboldt is the short man on the left of the man under the cross.



Fig. 56. "Coronation of Napoleon"
by Jacques-Louis David, 1805–07

South America to join the rebellion. The Spanish captured and executed him.

Bonpland left the other two at Bordeaux to go to La Rochelle to visit his sister. After his visit, he also returned to Paris. He presented a collection of specimens to the Museum of Natural History. The Empress Josephine appointed him superintendent of the gardens at Malmaison. At Malmaison, he planted seeds that he had brought from America.

Humboldt's Accomplishments as an Environmentalist

One of Humboldt's most extensive accomplishments was the correlation of species of plants with the environment in which they grow. Humboldt's close study of plants in each environment resulted in the discovery of previously undescribed species. He is the father of **phytogeography**, or the study of the geography of plants. His book, *The Geography of Plants in Tropic Lands*, is the first work in this field.

Humboldt's recording of air temperature and pressure, and of weather during his travels led to the development of the sciences of **meteorology** and **climatology**. He was the first to draw isobars on a map, thereby inventing the first weather map.

Humboldt observed the relationship between forests and climate, noting that forests enhanced the humidity and produced more rainfall than unforested land. He noticed that forests enhance the stability of hillsides.

He discovered the cold Antarctic current that rises off the coast of Peru, now known as the **Humboldt Current**. He showed that this nutrient-rich current supports a rich sea life, which in turn supports a major fishing industry, and the fish that feed the guano bird. The Humboldt Current is interrupted during an El Niño event, to the detriment of the Peruvian fishing industry.

Everywhere he went, Humboldt was careful to measure latitude, longitude, and altitude. His measurements resulted in more accurate maps, especially of the course of the Orinoco River.

Humboldt's books describing his explorations in Spanish America exerted a strong influence on later naturalists. Charles Darwin took a copy of the *Personal Narrative* with him on the voyage of the HMS *Beagle*. Darwin wrote, "If you would understand the Tropics, study Humboldt." The emphasis is Darwin's.

Humboldt's work influenced Henry David Thoreau (Fig. 57) in his observations of nature during his life at Walden Pond.

Humboldt's ecological observations were a strong influence on the work of the great American environmentalist John Muir (Fig. 58).



Fig. 57. Thoreau
USA, 1967, Sc#1327



Fig. 58. Muir
USA, 1964, Sc#1245

The American landscape artist Frederic Edwin Church, strongly influenced by Humboldt, went to Ecuador in 1853 and again in 1857, and lived in Quito. He painted four great pictures of scenes in the Andes, and of Ecuadorean volcanoes that were described by Humboldt (Fig. 59).

Humboldt's prolific written works assured that his findings and his views were publicized and understood by his scientific colleagues. He was the first to point out that, as John Muir said, "Everything is connected to everything else."

Other Accomplishments

At the time when Humboldt studied geology at the *Freiburg Bergakademie*, there were two competing hypotheses concerning the origin of the earth's geological formations. Abraham Werner, director of the Bergakademie, taught the **Neptunian hypothesis**, which held the the earth's rocks were sedimentary, that they were laid down by water. The Neptunian hypothesis was accepted by most geologists in continental Europe.

James Hutton, the Scottish "father of geology," had proposed the **Plutonian hypothesis**, which held that most of earth's rocks were igneous, that is, of volcanic origin. This hypothesis was accepted by most British geologists. Humboldt's study of volcanoes in South America and Mexico led him to conclude that the Neptunian hypothesis was erroneous.

Humboldt's American experiences also led to his political views. His study of the Cuban sugar industry led him to a lifelong condemnation of the institution of slavery. His interaction with Thomas Jefferson and other Americans made him a lifelong believer in democracy, as opposed to monarchy.

Humboldt has been honored by more stamps than any other scientists except Albert Einstein and Marie Curie. His iconic portrait, *Humboldt auf Orinoko*, was painted by Friederich Georg Weitsch in 1806 (Fig. 60). His face from this portrait has been used on many stamps. The flower in the picture is a cinchona, which does not grow on the Orinoco.

The Liberator of South America, Simón Bolívar, wrote that Humboldt was the "true discoverer of South America." Humboldt remains a hero in South America and in his native Germany, with many streets, parks, and organizations named for him. To Germans, Humboldt's travels are *Die Wiederentdeckung der Neuen Welt* ("The Rediscovery of the New World").

In recognition of him as a scientist, there is the Humboldt Planetarium in Caracas. The Alexander von Humboldt Stiftung (Foundation) in Bonn, Germany provides fellowships for foreign scientists to study in Germany.



Fig. 61. Humboldt Statues
DDR. 1960. Sc#522

Humboldt University had been founded as Berlin University in 1810 by Alexander's brother, Wilhelm von Humboldt, when he was Prussian minister of education. In 1947, it was renamed Humboldt University in honor of both Humboldt brothers. Statues of both Humboldt brothers stand before the University (Fig. 61).

The University in Berlin maintains a famous natural history museum (Fig. 62).

King Frederick William IV of Prussia founded the Order "Pour le Mérite" (Fig. 63) and named Humboldt its First Chancellor of the Peace Class. Among the first members of the order appointed by Humboldt were the Brothers Grimm (Fig. 64), well known for their collection of fairy tales.

In the autumn of 1834, Humboldt began his final, major opus *Kosmos: Entwurf einer physischen Weltbeschreibung* ("Cosmos: Sketch of a Physical Description of the Universe"), in which he attempted to integrate all the sciences in one major work. Figure 65 reproduces a portrait of Humboldt by Joseph Stieler, "Humboldt and his Kosmos," painted in 1843. The first volume of the *Kosmos* was published in 1845, and in the next two years, editions in English, Dutch, Danish, Italian, French, and Russian appeared.



Fig. 59. "View of Cotopaxi"
by Frederic Edwin Church, 1857



Fig. 60. "Humboldt auf Orinoko"
by Friederich Georg Weitsch, 1806



Fig. 63. Merit Order
Germanv. 1992. Sc#1746

In nineteenth century America, Humboldt was famous, and was regarded as a kind of hero-scientist. Eleven towns in the United States are named for him, as well as one each in Canada and Mexico.



Fig. 64. Brothers Grimm Germany. 1985. Sc#1434

He was especially popular with the settlers of Nevada and northern California, each of which has a Humboldt County. Humboldt State University is located near Humboldt Bay in California.

The longest stream in Nevada is the Humboldt River. When the state of Nevada was organized, there was a strong push to call it “Humboldt.”

Humboldt’s Legacy

Humboldt died in Berlin on 6 May 1859, at the age of 89 (Fig. 66). A Prussian day of mourning was held on the day of his funeral. He was interred at Tegel beside his brother and sister-in-law. When the news of his death reached the United States, the *New York Times* devoted its entire first page to his obituary.

In all of his travels, in Europe, in the Americas, and in the Russian Empire, Humboldt recorded his observations on the plants and animals, the latitude and longitude, the altitude, the air temperature and pressure, and the weather, and he discovered the interrelationships of these observations, making him the world’s first environmentalist. He deserves to be remembered as the founder of environmental science.

Endnote: The sequence of events in Humboldt’s life presented in this article is based upon “Cronologia Humboldtiana. Datos de la Vida de Alejandro de Humboldt.” Anexo I, *Ensayo Político sobre el Reino de la Nueva España*, Fifth Edition, Juan A. Ortega y Medina, editor, Editorial Porrúa S. A., Mexico DF, 1966.



Fig. 62. Natural History Museum 100th Anniversary First Day Cover DDR, 1990, Sc#2812–16

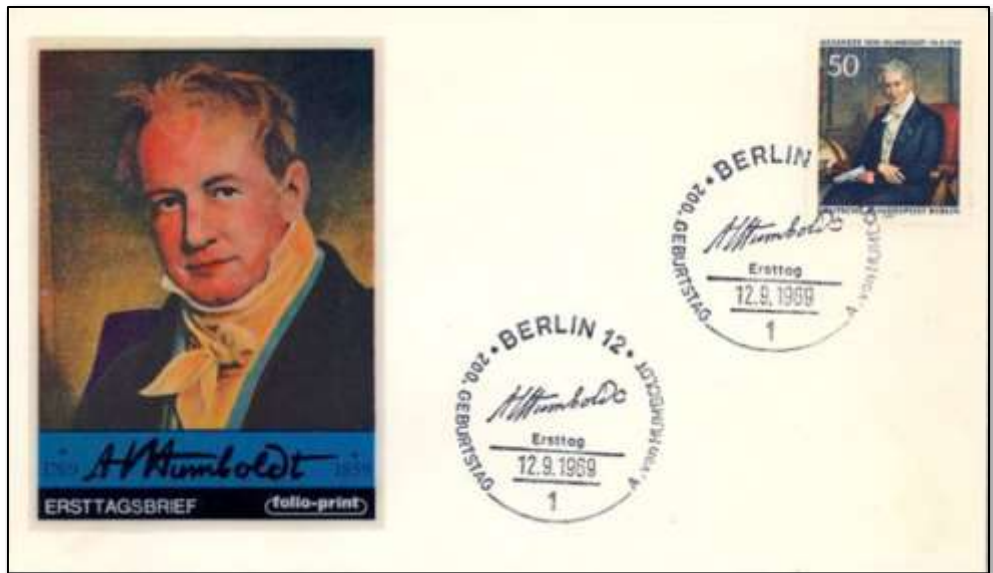


Fig. 65. “Humboldt and His Kosmos” First Day Cover Berlin, 1969, Sc#9N281



Fig. 66. Humboldt DDR. 1959. Sc#430

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Checklist of Humboldt-Related Stamps

Scott#	Denom	Subject/Description
ARGENTINA		
2008 May 24		
2483	1p	Aimé Bonpland (1773-1858) portrait
CAMBODIA		
2001 August 5 (Penguins)		
2116	900r	Humboldt Penguin, <i>Spheniscus humboldti</i>
CHILE		
1999 July 16 (Bicentennial Scientific Research in Latin America)		
1291	300p	Humboldt bust (with South American animals, mountains)
1292	360p	Humboldt portrait (with penguins, sea)
2009 July 15 (Protected Birds)		
1532	100p	Humboldt Penguin, <i>Spheniscus humboldti</i>
COLOMBIA		
1937		
444	12c	Tequendama Falls (surcharges exist)
1954 January 15 (Colombian Scenes)		
C239	5c	Galeras Volcano
C244	30c	Galeras Volcano
1958 May 12 (Intl. Geophysical Year, 1957–1958)		
680	10c	Francisco José de Caldas, “Discoverer of Hypsometry” (with hypsometer)
C309	25c	Francisco José de Caldas portrait
C310	1p	Francisco José de Caldas portrait
1960 February 12 (Centenary of Humboldt’s Death)		
713	5c	Two-toed Sloth, <i>Choloepus didactylus</i>
714	10c	Humboldt portrait
715	20c	Spider Monkey, <i>Ateles</i> sp.
C357	35c	Giant Anteater, <i>Myrmecophaga tridactyla</i>
C358	1.30p	Armadillo, <i>Dasypus</i> sp.
C359	1.45p	Parrot Fish, <i>Scarus rubroviolaceus</i>
1961 September (ovpt & surch)		
C411	5c	Sc#713 (ovpt “Aereo”)
C413	10c	Sc#715 (surch & ovpt “Aereo”)
1969 May 3 (Bicentennial of Humboldt’s Birth)		
C513	1p	Humboldt & Quindío Pass in the Andes
1976 November 10		
841	1.50p	Puracé Indians.
1982 October 21		
C730	30p	Magdalena River
1983 August 18 (Bicentennial of Royal Botanical Expedition)		
923	9p	Cinchona flowers, <i>Cinchona lancifolia</i> (Cap: <i>C. lanceifolia</i>)
924	9p	Water Lemon, <i>Passiflora laurifolia</i>
925	60p	Red Cinchona, <i>Cinchona pubescens</i> (Cap: <i>C. cordiflora</i>)
C738	12p	<i>Begonia guaduensis</i>
C739	12p	<i>Ladenbergia microcarpa</i> (Cap/Syn: <i>Cinchona ovaliflora</i>)
C740	40p	<i>Begonia urticae</i>

- CUBA** **1969 September 14** (Bicentennial of Humboldt's Birth)
- 1433 3c Humboldt portrait & animals described by him (with Surinam Eel)
 1434 13c Humboldt portrait & animals described by him (with Night Ape)
 1435 30c Humboldt portrait & animals described by him (with Spider Monkey)
- 2000 December 19** (Bicentennial of Humboldt's Visit to Cuba)
- 4118 15c Humboldt portrait & house where he stayed in Trinidad
 4119 65c Humboldt portrait & house where he stayed in Havana
- 2007 September 27** (Tourism: Fauna in A. v. Humboldt National Park)
- 4784a 75c Monte Iberia Eleuth Frog, *Eleutherodactylus iberia*
 4784b 75c Cuban Solenodon, *Solenodon cubanus*
- 2010 September 27** (Tourism: Alexander von Humboldt National Park)
- 5168 75c West Indian Manatee, *Trichechus manatus*
- DOMINICA** **1998 August 4** (Sea Birds)
- 2065 65c Humboldt Penguin, *Spheniscus humboldti*
- ECUADOR** **1909 August 10**
- 185 10c Juan Pio de Montúfar, Marqués de Selva Alegre (Humboldt's host in Quito)
 186 20c Carlos Montúfar (accompanied Humboldt back to Europe)
- 1956 January 2** (Ecuadoran Landmarks)
- C291 1.50s Mount Cotopaxi
 C295 2.50s Ruins of Ingapirca
- 1959 May 6** (Centenary of Humboldt's Death)
- C341 2s Humboldt portrait
- 1993 August 20** (250th anniv. Maldonado-La Condamine Expeditions)
- 1320 150s Red Cinchona, *Cinchona pubescens* (Cap: *C. cordiflora*)
- 2000 April 13** (Bicentennial of Relocation of Riobamba)
- 1513 8000s Mount Chimborazo
- 2002 June 14** (Bicentennial of Humboldt's Visit to Ecuador)
- 1571 84c Humboldt portrait
- 2012 September 26** (125th anniv. Ecuador-Germany Friendship)
- 2078 50c Humboldt portrait
 2079 \$2 Humboldt portrait
- FRANCE** **1939 April 24** (Centenary Invention of Photography)
- 374 2.25fr Niepce & Daguerre (Arago, Biot, & Humboldt report on invention to Academy of Science)
- 1951 June 2** (Famous Persons)
- B260 10fr+3fr Joseph-Louis Gay-Lussac (Humboldt's colleague in chemical research)
- GERMANY D. R.** **1950 July 10** (250th anniv. Berlin Academy of Science)
- 59 5pf Alexander von Humboldt portrait
 61 8pf Wilhelm von Humboldt portrait
- 1959 May 6** (Centenary of Humboldt's Death)
- 430 10pf Humboldt portrait (with Central American view)
 431 20pf Humboldt portrait (with Siberian view)
- 1960 November 4** (150th anniv. of Humboldt University, Berlin)
- 522 20pf Humboldt University & statues of Humboldt brothers
 523 25pf Wilhelm & Alexander von Humboldt Medal

MEXICO**1934 September 1** (National University Issue)

C57 75c Iztaccíhuatl & Popocatepetl (volcanoes studied by Humboldt)

1960 March 16 (Centenary of Humboldt's Death)

908 40c Humboldt Statue at the Biblioteca Nacional

1965 February 18 (del Río Birth Bicentennial)

961 30c Manuel Andrés del Río portrait (friend of Humboldt)

1992 January 15 (Bicentennial of Engineering Education in Mexico)

1717 1300p Façade of the Royal College of Mines

1999 December 1 (Bicentennial of Humboldt's arrival in the Americas)

2176 3p Humboldt self-portrait

MICRONESIA**2007 August 7** (Intl. Polar Year) (MS/6)748d 75c Humboldt Penguin, *Spheniscus humboldti***MOZAMBIQUE****2009 November 30** (150th anniv. of Humboldt's Death) (MS/6 & SS/1)

Each stamp shows a portrait of Humboldt with flora or fauna he described.

1897a 33m Golden-backed Uakari, *Cacajao melanocephalus* (Cap: *Simia melanocephala*)1897b 33m *Meriania speciosa* (Cap/Syn: *Rhexia speciosa*)1897c 33m Brown-mantled Tamarin, *Saguinus fuscicollis* (Cap/Syn: *Simia leonina*)1897d 33m *Hibiscus* sp.1897e 33m Birdweed, *Convolvulus* sp.Brown Howler Monkey, *Alouatta guariba* (Cap/Syn: *Simia ursina*)1897f 33m *Melastoma* sp.

1925 SS 175m Humboldt with flora & fauna specimens

Margin UL: Humboldt portrait sketch

ML: *Cephalanthus occidentalis*LL: Butterflyweed, *Asclepias tuberosa*UR: Sweet Orange, *Citrus × sinensis*

LR: Humboldt statue

Bkgrd: "Travelers in the Andes" painting

NETHERLANDS**2001 August 21** (Sail 2000 Amsterdam Harbor) (MS/10)1054g 80c *Alexander von Humboldt* sailing ship (with green sail)**PARAGUAY****1976 August 20** (German Sailing Ships)1689 5g *Humboldt* sailing ship (1851–66)**PERU****1936–37** (Riches of Guano)356 2c Peruvian Cormorant, *Phalacrocorax bougainvillii* (the guano bird) (lt brown)

357 2c Same species (green)

360 10c Same species (crimson)

361 10c Same species (vermillion)

1970 August 6 (Tourism)

C294 3s Ruins of pre-Inca city of Chan-Chan.

1970 April 30 (Food of the Guano Bird)532 2.50s Anchovy, *Engraulis ringens***1971 July 5** (150th anniv. Independence)

C318 4s Hipólito Unanue (Humboldt's host in Lima)

1985 December 20 (Fauna)853 1500s Humboldt Penguin, *Spheniscus humboldti*

- PERU** (continued) **1986 April 5** (Restoration of Chan-Chan Ruins)
866 50c Bas-relief in pre-Inca city of Chan-Chan.
- 1988 June 2** (1st Peruvian Scientific Expedition to the Antarctic)
935 7i B.I.C. *Humboldt* Antarctic research vessel
- 2002 November 20** (Bicentennial Humboldt's Visit to Peru) (Strip/2)
1349 3.20s Humboldt portrait & B.I.C. *Humboldt* Antarctic research vessel
- 2008 February 22** (1st Peruvian Antarctic Scientific Exp., 20th anniv.)
1614a 10s B.I.C. *Humboldt* Antarctic research vessel
1614b 10s Expedition members
- ROMANIA** **1983 May 16** (Inter-European Cultural & Economic Cooperation)(MS/4)
3135b 3L Humboldt portrait
- RUSSIA** **1959 May 6** (Centenary of Humboldt's Death)
2196 40k Humboldt portrait
- SAAR** **1959 May 6** (Centenary of Humboldt's Death)
322 15fr Humboldt portrait (last stamp issued by Saar)
- SPAIN** **1973 March 21** (Flora of Canary Islands)
1747 1p Canary Laurel, *Apollonias barbujana* (Syn: *A. canariensis*)
1748 2p Firetree, *Myrica faya*
1749 4p Palms
1750 5p Holly
1751 15p Canary Islands Dragon Tree, *Dracaena draco*
- 1993 September 20** (Explorers)
2748 65p José Celestino Mutis and cinchona flower (Humboldt's host in Bogotá)
- UNITED NATIONS (Vienna)** **1993 March 2** (Endangered Species)
144 7s Humboldt Penguin, *Spheniscus humboldti*
- UNITED STATES** **1955 January 15** (150th anniv. Pennsylvania Academy of Fine Arts)
1064 3c Charles Wilson Peale and his natural history museum
- 1863**
86L1 25c Local stamp, Humboldt Express, Carson City, Nevada
- URUGUAY** **1981 February 19**
1097 2p Humboldt's self-portrait (reversed)
- VENEZUELA** **1960 February 9** (Centenary of Humboldt's Death)
743-45 var Humboldt portrait
C709-11 var Humboldt portrait
- 1969 January 24** (Tourism) (SS/2)
C1007 30c Hotel Humboldt, Federal District
- 1969 September 12** (Bicentennial of Humboldt's Birth)
C1012 50c Humboldt portrait by Stieler
- 1970 July 29** (Flora)
964 20c Pink Princess (triana), *Monochaetum humboldtianum*
- 1973** (10th anniv. Humboldt Planetarium) (Set/15)
1016-30 var Sun & Solar System planets

- VENEZUELA** (continued) **1982 January 21** (50th anniv. Venezuelan Natural Science Society)
- 1257 2b Guácharo Cave
- 1982 October 14** (Flora & Fauna)
- 1267 1.05b Aloe (maguey), *Fourcroya humboldtiana*
- 1270 3b Guácharo bird (oilbird), *Steatornis caripensis*
- 1992 June 12** (Nature Protection: Turtles) (WWF) (Block/4)
- 1471 12b Endangered turtle species
- 1996 October 11** (Native Aborigines) (MS/10)
- 1541 80b Native peoples of Venezuela
- 2000 September 26** (2nd OPEC Head of State Summit) (MS/10)
- 1616g 400b Humboldt Peak

WHAT TO DO WITH EXTRA STAMPS

ATA member Jim VanderPlaat from Cottage Grove, Oregon, recently provided a document with examples of several ideas for using all those extra stamps that we collectors seem to accumulate. These include donating them to various charities and schools and using them for craft and other projects.

Jim's club, the Greater Eugene Stamp Society, prepares boxes of donations to "Stamps for the Wounded," a service activity of Lions Clubs (SFTW, P.O. Box 297, Dunn Loring, VA 22041). They want unsorted on-paper stamps, but will also accept mint stamps, collecting supplies, and cash donations.

There are other groups that also accept donated extra stamps. Many large stamp shows have a Youth Activities program that can use stamps for their projects. Often these organizations are non-profit and can provide the donor with a receipt for tax deduction purposes.

One interesting project that Jim came up with is to use those extra stamps to make bookmarks. These make nice gifts for holidays, birthdays, anniversaries, and other occasions. You can pick a theme that fits the occasion or the recipient. You could also use them for prizes at your club, show, or other event.



The initial investment is a laminator and pouches that enable you to laminate whatever you want. Here is a list of the materials needed, all of which you can find at craft stores, or retailers such as Walmart: Laminator (8½×11) (\$19.95), Pouches (50ea 8½×11) (\$22.50). Pouches also come in packages with various other sizes.

You can make 12–14 bookmarks with one 8½×11 sheet depending on the stamp sizes you use. You will also need colored paper, glue or hinges, and scissors.

Arrange and attach the selected stamps in rows on both sides of the paper. Place the paper inside the pouch and run it through the laminator. Then cut the laminated paper into strips of the desired size. These bookmarks easily lend themselves to topical designs. The example above shows one using Fruit as its theme.

CANADIAN STAMP ISSUED TO HONOR A FARM TRACTOR?

Stan Cronwell, Nevada Stamp Study Society

[Ed. Note: The following article is reprinted with permission from Post Boy, Vol. 50, Issue 3, March 2017, the monthly newsletter of the Nevada Stamp Study Society. (www.RenoStamp.org).]

Well, did you ever? Shur-nuff...aye. Back in 1995, Canada Post issued a souvenir pane of six showing historic land vehicles that included a Canadian-built farm tractor.

How come you say? Seems as though a Canadian farm equipment manufacturer was the first to introduce a LPTO system for farm tractors. (LPTO = Live Power Take-Off).

PTOs had been around for some time dating back to the late 1890s when one was initially cobbled together by a French farmer/mechanic and introduced commercially in the U.S. by International Harvester (IHC) on their farm tractors Model 8-16 in 1918.

These worked directly off the tractor transmission to power pieces of equipment like balers, manure spreaders, mowers, and pull-type combines. These early PTOs gave IHC a real advantage in the 1920s. Later, these were adapted for most farm tractor brands, as well as trucks.

PTOs were extremely dangerous and responsible for many injuries and even deaths. In 1997, the U.S. National Safety Council reported six percent of tractor PTO/LPTO injuries resulted in death.

A piece as small as a single thread caught up in a PTO was enough to cause serious injury, or as in the case of ex-Detroit Tigers Major League Baseball pitcher Mark Fidrych, death. In 2009, while working underneath his ten-wheeler construction truck, a piece of his clothing was caught in the truck's PTO and he was suffocated.

The Canadian equipment manufacturer that introduced the LPTO was Cockshutt Farm Equipment, Ltd. located in Brantford, Ontario. In order for a PTO to have power, the tractor had to be "in gear" or moving. When the tractor slowed or stopped, so did the operation of the trailing piece of equipment.



The advantage of the LPTO was that the tractor could slow down or even stop but the trailing piece of equipment could continue to operate. The Cockshutt Model 30 introduced in 1946 was the first production farm tractor to have the LPTO.

Canada Post honored the introduction of this Model fifty years later in 1995 with a 43-cent stamp (Sc#1552a) that was part of the souvenir pane. The actual Cockshutt Model 30 shown on the stamp was from 1950.



Stan Cronwell's collecting interests include Germany: Third Reich 1933-45 and the areas it occupied (stamps covers & cards). He also collects U.S. World War II Patriotic Covers and Cards; Civil War Patriotic Covers (both U.S. and CSA); U.S. Naval Covers; DDR stamps; and Post WW II Soviet Zone Hitler Head Obliteration stamps, covers, & cards.

LUTHER BURBANK

Mystic Stamp Company

[Ed. Note: The following article is reprinted with permission from "This Day in History" for 7 March 2017, a daily on-line feature published by Mystic Stamp Company of Camden, New York. (www.mysticstamp.com/info/category/thisdayinhistory/).]

Luther A. Burbank was born on March 7, 1849, in Lancaster, Massachusetts.

The thirteenth of eighteen children, Burbank spent his childhood on his family farm enjoying his mother's large garden. He only received a high school education, but would go on to become a pioneer in agricultural science.



Sc#1100 pictures a figure representing the bountiful earth

Following his father's death, Burbank used his inheritance to buy 17 acres of land near Lundenburg. There he developed the Burbank potato (*Solanum tuberosum* "Russet Burbank") and sold the rights to it for \$150. He then used that money to travel to Santa Rosa, California, in 1875. The Burbank potato was later renamed the Russet Burbank potato and became one of the most widely used potatoes for food processing, such as for French fries.

After moving to California, Burbank bought four acres of land and set up a greenhouse, nursery, and experimental fields. He used these fields to experiment with cross-breeding after reading Charles Darwin's *The Variation of Animals and Plants under Domestication*. He later expanded his plot by another 18 acres.

In the coming years Burbank began producing popular plant catalogs, most notably his 1893 "New Creations in Fruits and Flowers." Around this same time, Burbank met Clarence McDowell Stark, of Stark Bro's Nurseries & Orchards.

At the time, Burbank was running a small seed and nursery business to make ends meet, distracting him from his brilliant work in hybridizing. Stark believed he was wasting his time with the nursery business, so he offered him \$9,000 for three varieties of fruits.

Burbank also had fans, The Luther Burbank Society, which worked to publish his discoveries and manage his business dealings to help him out financially. Additionally, from 1904 through 1909, the Carnegie Institution gave Burbank several grants to fund his research. Andrew Carnegie was a strong supporter of Burbank.



Sc#4731-34 Burbank created at least ten different types of apples



Sc#876 issued in Santa Rosa, California



Sc#3298-3301 Burbank created 29 varieties of blackberries and raspberries

Over the course of his life, Burbank developed hundreds of new varieties of fruits, vegetables, grasses, and flowers. Some of the most notable include the Shasta Daisy (*Leucanthemum × superbum*), the Fire Poppy (*Papaver californicum*), the July Elberta Peach (*Prunus persica* "Elberta"), the Santa Rosa Plum (*Prunus salicina* "Santa Rosa"), the Flaming Gold Nectarine (*Prunus persica nucipersica* "Flaming Gold"), the Wickson Plum (*Prunus salicina* "Wickson"), the Freestone Peach (*Prunus persica* var.), and the White Blackberry (*Rubus* sp.).



Sc#876 1940 Burbank First Day Cover

After several weeks of health issues, Burbank died on 11 April 1926. He was buried in an unmarked grave at the Luther Burbank Home and Gardens in Santa Rosa, California. Burbank left everything to his wife, who then continued the partnership with the Stark brothers. After Burbank's death they discovered hundreds of fruit and flower varieties that he had developed, but never marketed and began to sell them in their catalog.



Sc#1942–45 Burbank created a type of spineless cactus for grazing cows, though it didn't do well in the cold and required frequent watering

Burbank was not a traditionally trained scientist and did not keep detailed notes of his experiments. He believed his time was better spent in the garden. He also may not have wanted to share too much information because there was no way to protect his discoveries from being duplicated by someone else.

However, four years after his death Congress passed the 1930 Plant Patent Act, which allowed for the patenting of new plant varieties. Thomas Edison testified in favor of the bill claiming that it would "give us many Burbanks." Once it was passed, Burbank was posthumously awarded 16 patents.



BOTANY

Editor

Christopher E. Dahle, BU1269



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ANDORRA (French) 2016 November 5 (Set/2)				
766	80c	Lavender, <i>Lavandula latifolia</i>	Lamiaceae	Fl A
ANGUILLA 2016 October 10 (National Symbols) (Set/8)				
1241	75c	White Cedar flowers, <i>Tabebuia heterophylla</i>	Bignoniaceae	Fl A
1246	\$5	White Cedar tree, <i>Tabebuia heterophylla</i>	Bignoniaceae	T A
ARMENIA 2016 December 1 (Europa) (Pair)				
1082a	350d	U/I dead & live trees		T A U
BOTSWANA 2014 November 27 (National Flora) (Set/4)				
967	3.50p	Morula tree, <i>Sclerocarya birrea</i>	Anacardiaceae	T B
		Motshikiri grass, <i>Eragrostis pallens</i>	Poaceae	V B
		Devil's Claw flowers, <i>Harpagophytum procumbens</i>	Pedaliaceae	Fl B
968	5.40p	Morula tree, <i>Sclerocarya birrea</i> (with people)	Anacardiaceae	T A
969	7.30p	Motshikiri grass, <i>Eragrostis pallens</i> (with harvesters)	Poaceae	V A
970	8p	Devil's Claw flowers, seeds, <i>Harpagophytum procumbens</i>	Pedaliaceae	Fl Fr A
CHINA (Taiwan) 2016 October 22 (PhilaTaipei World Stamp Exhibition) (SS/2)				
4328	SS	Stylized tree (with animal silhouettes)		T S A SS Z
DENMARK 2017 January 2 (Frederiksborg Castle) (SS/2)				
1764a	25k	Aerial view of Baroque garden		V A U
DOMINICAN REPUBLIC 2016 October 27 (National Botanical Garden) (MS/12)				
1600a	10p	Yellow Poinciana, <i>Peltophorum dubium</i> var. <i>berteroanum</i> (Syn: <i>P. berteroanum</i>)	Fabaceae	Fl A MS
1600b	10p	Baitoa, <i>Phyllostylon rhamnoides</i>	Ulmaceae	V A MS
1600c	10p	American Muskwood, <i>Guarea guidonia</i>	Meliaceae	Fr A MS
1600d	10p	Bloodwood Tree, <i>Haematoxylum (=Haematoxylon) campechianum</i>	Fabaceae	Fl A MS
1600e	10p	Ébano Verde, <i>Magnolia pallescens</i>	Magnoliaceae	Fl A MS
1600f	10p	Jamaican Caper, <i>Quadrella (=Capparis) cynophallophora</i>	Capparaceae	Fr A MS
1600g	10p	Lignum-vitae, <i>Guaiacum officinale</i>	Zygophyllaceae	Fl A MS
1600h	10p	Grandleaf Seagrape, <i>Coccoloba pubescens</i>	Polygonaceae	Fl A MS
1600i	10p	Santa-María or False-Mamey, <i>Calophyllum calaba</i>	Clusiaceae	Fr A MS
1600j	10p	Black Ironwood or Leadwood, <i>Krugiodendron ferreum</i>	Rhamnaceae	V A MS
1600k	10p	Roble de Puerto Rico, <i>Ekmanianthe longiflora</i>	Bignoniaceae	Fl A MS
1600l	10p	Sabina, <i>Juniperus gracilior</i>	Cupressaceae	Fr A MS
ECUADOR 2016 November 12 (Indigenous Flowers of Azay) (Horiz strip/5)				
2186a	\$1	<i>Cyrtocaucaea</i> sp.	Orchidaceae	Fl A
2186b	\$1	<i>Masdevallia</i> sp.	Orchidaceae	Fl A
2186c	\$1	Flower of November, <i>Hippeastrum</i> sp.	Amaryllidaceae	Fl A
2186d	\$1	<i>Gentianella hirculus</i>	Gentianaceae	Fl A
2186e	\$1	<i>Bomarea multiflora (=caldasii)</i>	Alstroemeriaceae	Fl A

ECUADOR (continued)		2016 December 29 (Inst. Promotion of Export & Investment) (Strip/5)		
2192d	\$1	Cacao pods, <i>Theobroma cacao</i>	Malvaceae	Fr A
2191e	\$1	Onions, <i>Allium cepa</i>	Amaryllidaceae	V B
		Bananas, <i>Musa x paradisiaca</i>	Musaceae	Fr B
		U/I Herbs	Lamiaceae	V U

EQUATORIAL GUINEA		2016 (Flora and Fauna) (Horiz strip/4)		
320a	600fr	Hibiscus, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A
320b	650fr	Jungle Geranium, <i>Ixora coccinea</i>	Rubiaceae	Fl A

GAMBIA		2015 August 3 (Fruits of Singapore) (MS/6 & SS/1)		
3654a	45d	Guavas, <i>Psidium guajava</i>	Myrtaceae	Fr A
3654b	45d	Custard Apples, <i>Annona reticulata</i>	Annonaceae	Fr A
3654c	45d	Chikus or Sapodillas, <i>Manilkara zapota</i>	Sapotaceae	Fr A
3654d	45d	Rose Apples, <i>Syzygium jambos</i>	Myrtaceae	Fr A
3654e	45d	Pomegranates, <i>Punica granatum</i>	Punicaceae	Fr A
3654f	45d	Soursops, <i>Annona muricata</i>	Annonaceae	Fr A
3655	SS 150d	Durians, <i>Durio zibethinus</i>	Malvaceae	Fr A SS

		2015 September 8 (Orchids) (MS/4)		
3660a	45d	Leopard Orchid, <i>Ansellia africana</i>	Orchidaceae	Fl A MS
3660b	45d	<i>Polystachya paniculata</i>	Orchidaceae	Fl A MS
3660c	45d	<i>Polystachya galeata</i>	Orchidaceae	Fl A MS
3660d	45d	<i>Ancistrochilus rothschildianus</i>	Orchidaceae	Fl A MS

2015 December 7 (Orchids) (2ea MS/4 & 2ea SS/2)

Each of the listed sheets has a different unidentified and somewhat stylized image of an orchid in the margin.

3679a	50d	<i>Orchipedum plantaginifolium</i>	Orchidaceae	Fl A MS
3679b	50d	<i>Satyrium coriifolium</i>	Orchidaceae	Fl A MS
3679c	50d	<i>Cattleya guttata</i>	Orchidaceae	Fl A MS
3679d	50d	<i>Cattleya granulosa</i>	Orchidaceae	Fl A MS
3680a	50d	<i>Aganisia cyanea</i>	Orchidaceae	Fl A MS
3680b	50d	<i>Disa cernua</i>	Orchidaceae	Fl A MS
3680c	50d	Fringed Star Orchid, <i>Epidendrum ciliare</i> (= <i>Coilostylis ciliaris</i>)	Orchidaceae	Fl A MS
3680d	50d	<i>Masdevallia coccinea</i>	Orchidaceae	Fl A MS
3681a	SS 75d	Red Disa, <i>Disa uniflora</i>	Orchidaceae	Fl A SS
3681b	SS 75d	<i>Ancistrochilus rothschildianus</i>	Orchidaceae	Fl A SS
3682a	SS 75d	<i>Satyrium erectum</i>	Orchidaceae	Fl A SS
3682b	SS 75d	<i>Liparis nervosa</i>	Orchidaceae	Fl A SS

		2016 February 20 (Flowers of The Gambia) (MS/6, MS/4, & SS/1)		
3698a	45d	Bougainvillea, <i>Bougainvillea spectabilis</i> (red) (also UR margin)	Nyctaginaceae	Fl A MS
3698b	45d	Bougainvillea, <i>Bougainvillea spectabilis</i> (dark pink)	Nyctaginaceae	Fl A MS
3698c	45d	Bougainvillea, <i>Bougainvillea spectabilis</i> (peach)	Nyctaginaceae	Fl A MS
3698d	45d	Bougainvillea, <i>Bougainvillea spectabilis</i> (light pink)	Nyctaginaceae	Fl A MS
3698e	45d	Bougainvillea, <i>Bougainvillea spectabilis</i> (purple)	Nyctaginaceae	Fl A MS
3698f	45d	Bougainvillea, <i>Bougainvillea spectabilis</i> (white)	Nyctaginaceae	Fl A MS
3699a	50d	Oleander, <i>Nerium oleander</i> (light pink) (♀)	Apocynaceae	Fl A MS
3699b	50d	Oleander, <i>Nerium oleander</i> (white) (♀)	Apocynaceae	Fl A MS
3699c	50d	Oleander, <i>Nerium oleander</i> (pink) (also UR margin)	Apocynaceae	Fl A MS
3699d	50d	Desert Rose, <i>Adenium obesum</i>	Apocynaceae	Fl A MS
3700	SS 150d	Yellow Cassia, <i>Senna siamea</i> (also UR margin)	Fabaceae	Fl A SS

GHANA**2016 May 30** (Flowers of Africa) (MS/4 & SS/1)

2905a	4ce	Arum Lily, <i>Zantedeschia aethiopica</i>	Araceae	Fl A MS
2905b	4ce	Blue Water Lily, <i>Nymphaea caerulea</i>	Nymphaeaceae	Fl A MS
2905c	4ce	African Violet, <i>Saintpaulia ionantha</i>	Gesneriaceae	Fl A MS
2905d	4ce	Impala Lily, Desert Rose, <i>Adenium obesum</i>	Apocynaceae	Fl A MS
2906	SS 9ce	Cape Daisy, <i>Osteospermum</i> sp.	Asteraceae	Fl A SS

2016 September 13 (Poisonous Plants of Ghana) (MS/4, SS/2, & SS/1)

2911a	8ce	Belladonna, <i>Atropa belladonna</i> (☞)	Solanaceae	Fr A MS
2911b	8ce	Rosary Pea Plant, <i>Abrus precatorius</i> (☞)	Fabaceae	Fr A MS
2911c	8ce	Wolfsbane, <i>Aconitum napellus</i> (☞)	Ranunculaceae	Fl A MS
2911d	8ce	Strychnine Tree, <i>Strychnos nux-vomica</i> (☞)	Loganiaceae	Fr A MS
2912a	SS 12ce	Castor Oil Plant, <i>Ricinus communis</i> (☞)	Euphorbiaceae	Fr A SS
2912b	SS 12ce	Angel's Trumpet, <i>Brugmansia suaveolens</i> (☞) (also bot margin)	Solanaceae	Fl A SS
2913	SS 16ce	Yew Tree, <i>Taxus baccata</i> (☞) (also top margin)	Taxaceae	Fr A SS

GREAT BRITAIN (Alderney)**2016 November 8** (Christmas) (Set/7)

558	38p	Holly, <i>Ilex aquifolium</i>	Aquifoliaceae	V A
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GREAT BRITAIN (Guernsey)**2016 November 8** (Christmas) (Set/7)

1360	38p	Holly, <i>Ilex aquifolium</i>	Aquifoliaceae	V A
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GREECE**2015 November 4** (Maritime Cooperation with China P.R.) (SS/1)

2713	SS €3	U/I tree (margin)		T B U SS Z
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2016 December 15 (Blooming Herbs of the Greek Islands) (Set/6)

2763	20c	Pink Rock-Rose, <i>Cistus creticus</i>	Cistaceae	Fl A
2764	40c	Cretan Dittany, <i>Origanum dictamnus</i>	Lamiaceae	Fl A
2765	50c	St John's Wort, <i>Hypericum empetrifolium</i>	Hypericaceae	Fl A
2766	72c	Ironwort, <i>Sideritis clandestina</i>	Lamiaceae	Fl A
2767	€1	Oregano, <i>Origanum vulgare</i>	Lamiaceae	Fl A
2768	€2.62	Greek Sage, <i>Salvia fruticosa</i>	Lamiaceae	Fl A

GRENADA GRENADINES**2016 September 9** (Flowers of Grenada Carriacou) (MS/6 & SS/2)

2968a	\$3.25	Royal Poinciana, <i>Delonix regia</i>	Fabaceae	Fl A MS
2968b	\$3.25	Golden Trumpet, <i>Allamanda cathartica</i>	Apocynaceae	Fl A MS
2968c	\$3.25	Painted Brasiliorchis, <i>Brasiliorchis picta</i>	Orchidaceae	Fl A MS
2968d	\$3.25	Flamingo Flower, <i>Anthurium andreaeanum</i>	Araceae	Fl A MS
2968e	\$3.25	Barbados Lily, <i>Hippeastrum puniceum</i>	Amaryllidaceae	Fl A MS
2968f	\$3.25	Great Bougainvillea, <i>Bougainvillea spectabilis</i>	Nyctaginaceae	Fl A MS
2969a	SS \$7	<i>Charianthus granadensis</i> (also in R margin)	Melastomataceae	Fl A SS

GUYANA**2015 December 30** (Fruit Trees) (MS/4, MS/6, & SS/1)

Each of the listed sheets has a background image showing strawberries, blackberries, oranges, and lemons.

4433a	\$250	Acerola or Barbados Cherry, <i>Malpighia emarginata</i>	Malpighiaceae	Fr A MS
4433b	\$250	Cacao, <i>Theobroma cacao</i>	Malvaceae	Fr A MS
4433c	\$250	Pomelo, <i>Citrus maxima</i>	Rutaceae	Fr A MS
4433d	\$250	Pomegranate, <i>Punica granatum</i>	Punicaceae	Fr A MS
4434a	\$250	Camu Camu, <i>Myrciaria dubia</i>	Myrtaceae	Fr A MS
4434b	\$250	Starfruit, <i>Averrhoa carambola</i>	Oxalidaceae	Fr A MS
4434c	\$250	Genipapo, <i>Genipa americana</i>	Rubiaceae	Fr A MS
4434d	\$250	Green Lemons, <i>Citrus limon</i>	Rutaceae	Fr A MS
4434e	\$250	Papaya, <i>Carica papaya</i>	Caricaceae	Fr A MS
4434f	\$250	Common Guava, <i>Psidium guajava</i>	Myrtaceae	Fr A MS
4435	SS \$800	Banana, <i>Musa x paradisiaca</i>	Musaceae	Fr A SS

GUYANA (continued)		2016 February 20 (Paintings by Vincent van Gogh) (MS/5)		
4454a	\$250	“Doctor Gachet’s Garden in Auvers”		FL B U MS
4454b	\$250	“Edge of a Wheatfield with Poppies,” <i>Triticum aestivum</i>	Poaceae	Fl B MS
		<i>Papaver rhoeas</i>	Papaveraceae	V B MS
4454c	\$250	“The Olive Trees,” <i>Olea europaea</i>	Oleaceae	T A MS
4454d	\$250	“View of Arles with Irises,” <i>Iris</i> sp.	Iridaceae	Fl A MS
4454e	\$250	“Green Ears of Wheat,” <i>Triticum aestivum</i>	Poaceae	Fr A SS
		2016 February 20 (Plants & Flowers) (MS/4, MS/6, & SS/1)		
4458a	\$250	Yerba Maté, <i>Ilex paraguariensis</i>	Aquifoliaceae	V A MS
4458b	\$250	Torch Ginger, <i>Etilingera elatior</i> (= <i>Phaenomeria magnifica</i>)	Zingiberaceae	Fl A MS
4458c	\$250	Zebra Plant, <i>Aphelandra squarrosa</i>	Acanthaceae	Fl A MS
4458d	\$250	Queen Victoria’s Water Lily, <i>Victoria amazonica</i>	Nymphaeaceae	Fl A MS
4458	Margin	Bkgrd: U/I Fan Palm	Arecaceae	V Z MS
4459a	\$250	Bravo Blue Vein Petunia, <i>Petunia hybrida</i> ‘Bravo 153 Blue Vein’	Solanaceae	Fl A MS
4459b	\$250	Cannonball Tree, <i>Couroupita guianensis</i>	Lecythidaceae	Fl A MS
4459c	\$250	False Bird-of-Paradise, <i>Heliconia</i> sp. (also bkgrd margin)	Heliconiaceae	Fl A MS
4459d	\$250	Pride of India, <i>Lagerstroemia indica</i>	Lythraceae	Fl A MS
4459e	\$250	Pink Banana flower, <i>Musa ornata</i>	Musaceae	Fl A MS
4459f	\$250	Red-flowering Currant, <i>Ribes sanguineum</i>	Grossulariaceae	Fl A MS
4460	SS \$800	Red Pineapple Flower, <i>Ananas bracteatus</i> (also bkgrd margin)	Bromeliaceae	Fl A SS
		2016 April 7 (Flowers: Independence 50th anniv.) (Set/5)		
4461	\$80	Madagascar Periwinkle, <i>Catharanthus roseus</i>	Apocynaceae	Fl A
4462	\$130	Hibiscus, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A
4463	\$150	Bougainvillea, <i>Bougainvillea spectabilis</i>	Nyctaginaceae	Fl A
4464	\$160	Queen Victoria’s Water Lily, <i>Victoria amazonica</i>	Nymphaeaceae	Fl A
4465	\$200	Cannonball Tree, <i>Couroupita guianensis</i>	Lecythidaceae	Fl A
HONDURAS		2016 June 28 (Tourism) (Set/12)		
C1373	5L	Cacao pods, <i>Theobroma cacao</i>	Malvaceae	Fr A
C1374	5L	Coffee berries, <i>Coffea arabica</i>	Rubiaceae	Fr A
HUNGARY		2016 September 8 (Single)		
4404	115fo	Field Elm, <i>Ulmus minor</i>	Ulmaceae	Fr T A
INDIA		2016 August 8 (Orchids) (Set/6 & SS/6)		
2832	5r	Cathcart’s Arachnanthe, <i>Esmeralda cathcartii</i>	Orchidaceae	Fl A
2833	5r	Hirsute Paphiopedilum, <i>Paphiopedilum vilosum</i>	Orchidaceae	Fl A
2834	15r	Gibson’s Dendrobium, <i>Dendrobium gibsonii</i>	Orchidaceae	Fl A
2835	15r	Clark’s Arachnanthe, <i>Esmeralda clarkei</i>	Orchidaceae	Fl A
2836	25r	Himalayan Cypripedium, <i>Cypripedium himalaicum</i>	Orchidaceae	Fl A
2837	25r	Falconer’s Dendrobium, <i>Dendrobium falconeri</i>	Orchidaceae	Fl A
2837a		SS/6 (Sc#2832–37)		
	Margin	Bkgrd: U/I orchid	Orchidaceae	Fl Z
INDONESIA		2015 November 5 (Flora & Fauna) (Pair)		
2438b	3000r	Elephant Foot Yam, <i>Amorphophallus paeoniifolius</i>	Araceae	Fl A
IRAN		2015–2016 (Flowers) (Set/3)		
3140	1000r	Johnny-Jump-up, <i>Viola tricolor</i> (issued 5 July 2015)	Violaceae	Fl A
3145	5000r	Chamomile, <i>Matricaria chamomilla</i> (issued 5 October 2015)	Asteraceae	Fl A
3152	30000r	Saffron Crocus, <i>Crocus sativus</i> (issued 5 January 2016)	Iridaceae	Fl A
		2015 August 23 (Expo 2015, Milan) (MS/4)		
3154c	9000r	Saffron & Crocus, <i>Crocus sativus</i>	Iridaceae	Fl A

ISRAEL**2017 February 7 (Aromatic Plants) (Set/3)**

2132	4.10s	Frankincense, <i>Boswellia sacra</i>	Burseraceae	Fl A
2133	4.10s	Myrrh, <i>Commiphora myrrha</i>	Burseraceae	V A
2134	4.10s	Balsam, <i>Commiphora gileadensis</i>	Burseraceae	Fr A

JAPAN**2016 January 29 (Children) (MS/10)**

3974c	82¥	Stylized Tulips, <i>Tulipa</i> sp. (with girl)	Liliaceae	Fl S MS
3974d	82¥	Stylized Pea plant, <i>Pisum</i> sp. (with girl)	Fabaceae	Fl S MS
3974e	82¥	Stylized Irises, <i>Iris</i> sp. (with girl)	Iridaceae	Fl S MS
3974	Margin	UR: Stylized Poppies, <i>Papaver</i> sp.	Papaveraceae	Fl S MS Z

2016 March 3 (Spring Greetings) (2ea MS/10)

3978a	52¥	Cherry blossom shaped stamp, <i>Prunus mume</i>	Rosaceae	Fl A
3978c	52¥	Blackberries, <i>Rubus plicatus</i>	Rosaceae; Ericaceae	Fr B
		Blueberries, <i>Vaccinium myrtilus</i>	Rosaceae; Ericaceae	Fr B
3978d	52¥	Blueberries, <i>Vaccinium myrtilus</i>	Ericaceae; Rosaceae	Fr B
		Raspberries, <i>Rubus idaeus</i>	Ericaceae; Rosaceae	Fr B
3978		MS/10 (2ea Sc#3978a-e) (s/a)		
3979a	82¥	Cherry blossom shaped stamp, <i>Prunus mume</i>	Rosaceae	Fl A
3979b	82¥	Peach blossom shaped stamp, <i>Prunus persica</i>	Rosaceae	Fl A
3979d	82¥	Strawberries, <i>Fragaria ananassa</i>	Rosaceae	Fr A
3979		MS/10 (2ea Sc#3979a-e) (s/a)		

2016 March 25 (Opening of Hokkaido Shinkansen Line) (MS/10)

3980h	82¥	Tree-lined road		T A U
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2016 April 1 (Hospitality Flowers Series 5) (2ea MS/10)

3981a	52¥	Columbine, <i>Aquilegia</i> sp.	Ranunculaceae	Fl A
3981b	52¥	Scabiosa or Pincushion Flower, <i>Scabiosa</i> sp.	Caprifoliaceae	Fl A
3981c	52¥	Moss Phlox, <i>Phlox subulata</i>	Polemoniaceae	Fl A
3981d	52¥	Cymbidium, <i>Cymbidium</i> sp.	Orchidaceae	Fl A
3981e	52¥	Japanese Iris, <i>Iris japonica</i>	Iridaceae	Fl A
3981		MS/10 (2ea Sc#3981a-e) (s/a)		
3982a	82¥	Agapanthus or Lily of the Nile, <i>Agapanthus africanus</i>	Amaryllidaceae	Fl A
3982b	82¥	Carnation, <i>Dianthus caryophyllus</i>	Caryophyllaceae	Fl A
3982c	82¥	Reeve's Spiraea, <i>Spiraea cantoniensis</i>	Rosaceae	Fl A
3982d	82¥	Peruvian Lily, <i>Alstroemeria</i> sp.	Alstroemeriaceae	Fl A
3982e	82¥	Clematis, <i>Clematis</i> sp.	Ranunculaceae	Fl A
3982		MS/10 (2ea Sc#3982a-e) (s/a)		

2016 April 26 (G-7 Summit Ise-Shima) (MS/10)

3988f	82¥	Japanese Iris, <i>Iris japonica</i>	Iridaceae	Fl A MS
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2016 May 20 (Vegetable & Fruits Series 6) (2ea MS/10)

3993a	52¥	Tangerine, <i>Citrus reticulata</i>	Rutaceae	Fr A
3993b	52¥	Japanese Ginger, <i>Zingiber mioga</i>	Zingiberaceae	V A
3993c	52¥	Perilla leaf, <i>Perilla frutescens</i>	Lamiaceae	V A
3993d	52¥	Ginkgo nuts, <i>Ginkgo biloba</i>	Ginkgoaceae	Fr A
3993e	52¥	Potato, <i>Solanum tuberosum</i>	Solanaceae	V A
3994a	82¥	Kabocha Squash, <i>Cucurbita maxima</i>	Cucurbitaceae	Fr A
3994b	82¥	Bell Peppers, <i>Capsicum frutescens</i>	Solanaceae	Fr A
3994c	82¥	Fava Beans, <i>Vicia faba</i>	Fabaceae	Fr A
3994d	82¥	Kumquats, <i>Citrus japonica</i>	Rutaceae	Fr A
3994e	82¥	Blueberries, <i>Vaccinium myrtilus</i>	Ericaceae	Fr A

JAPAN (continued)**2016 June 3** (National Afforestation Nagano) (MS/10)

3997a	52¥	Takato Winter-flowering Cherry, <i>Prunus serrulata</i>	Rosaceae	Fl A
3997b	52¥	Nikko Fir, <i>Abies homolepis</i>	Pinaceae	Fr A
3997c	52¥	Chestnut, <i>Castanea crenata</i>	Fagaceae	Fl A
3997d	52¥	Gentian, <i>Gentiana scabra</i>	Gentianaceae	Fl A
3997e	52¥	Eustoma, <i>Eustoma grandiflorum</i>	Gentianaceae	Fr A
3997f	52¥	Japanese Rowan, <i>Sorbus commixta</i>	Rosaceae	Fr A
3997g	52¥	Japanese Larch, <i>Larix kaempferi</i>	Pinaceae	V A
3997h	52¥	White Birch, <i>Betula alba</i>	Betulaceae	T A
3997i	52¥	Rape blossom, <i>Brassica napus</i>	Brassicaceae	Fl A
3997j	52¥	Apple blossom, <i>Malus sp.</i>	Rosaceae	Fl A

2016 June 7 (60th anniv. Tokyo Local Autonomy Law) (MS/5)

3998d	82¥	Camellia, <i>Camellia japonica</i>	Theaceae	Fl B
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2016 June 10 (Summer Greetings) (2ea MS/10)

4000a	52¥	White Frangipani, <i>Plumeria alba</i>	Apocynaceae	Fl A MS
4000b	52¥	Red Frangipani, <i>Plumeria rubra</i>	Apocynaceae	Fl A MS
4000d	52¥	U/I Palm trees	Arecaceae	T A U MS
4000e	52¥	Hibiscus, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A MS
4000f	52¥	Sunflower, <i>Helianthus annuus</i>	Asteraceae	Fl A MS
4000		MS/10 (2ea Sc#4000a–d & 1ea Sc#4000e–f)		
4001d	82¥	U/I Palm trees	Arecaceae	T A U MS
4001e	82¥	Hibiscus, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A MS
4001		MS/10 (1ea Sc#4001a–b & 2ea Sc#4001c–f)		

2016 July 15 (Hospitality Flowers Series 6) (2ea MS/10)

4007a	52¥	Amaryllis, <i>Hippeastrum sp.</i>	Amaryllidaceae	Fl A
4007b	52¥	Narcissus, <i>Narcissus tazetta</i>	Amaryllidaceae	Fl A
4007c	52¥	Pine tree, <i>Pinus sp.</i>	Pinaceae	T B
		Sarcandra, <i>Sarcandra glabra</i>	Chloranthaceae	Fl B
		Ornamental Kale, <i>Brassica napus</i>	Brassicaceae	V B
4007d	52¥	Statice, <i>Limonium sp.</i>	Plumbaginaceae	Fl B
		Dendrobium, <i>Dendrobium sp.</i>	Orchidaceae	Fl B
4007e	52¥	Dahlias, <i>Dahlia x hybrida</i>	Asteraceae	Fl A
4008a	82¥	Roses, <i>Rosa x hybrida</i>	Rosaceae	Fl A
4008b	82¥	Cockscomb, <i>Celosia cristata</i>	Amaranthaceae	Fl A
4008c	82¥	Hyacinth, <i>Hyacinthus orientalis</i>	Asparagaceae	Fl A
4008d	82¥	Chrysanthemums, <i>Chrysanthemum sp.</i>	Asteraceae	Fl A
4008e	82¥	Nerine, <i>Nerine bowdenii</i>	Amaryllidaceae	Fl A

2016 August 1 (150th anniv. Diplomatic Relations w/ Belgium) (MS/10)

4020d	82¥	Tuberous Begonia, <i>Begonia x tuberhybrida</i>	Begoniaceae	Fl A MS
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2016 August 5 (Greetings: Colors in Daily Life) (2ea MS/10)

4021a	52¥	Rabbit-ear Iris, <i>Iris laevigata</i>	Iridaceae	Fl A MS
4021b	52¥	Eggplants, <i>Solanum melongena</i>	Solanaceae	Fr A MS
4021c	52¥	Wisteria, <i>Wisteria floribunda</i>	Fabaceae	Fl A MS
4021i	52¥	Asiatic Dayflower, <i>Commelina communis</i>	Commelinaceae	Fl A MS
4022b	82¥	Green Onions, <i>Allium cepa</i>	Amaryllidaceae	V A MS
4022d	82¥	Wasabi, <i>Eutrema japonicum</i>	Brassicaceae	V A MS
4022e	82¥	U/I Bamboo	Poaceae	V U MS
4022f	82¥	U/I Willow tree, <i>Salix sp.</i> (with bird silhouette)	Salicaceae	V U MS
4022g	82¥	Green Tea, <i>Camellia sinensis</i>	Theaceae	V A MS

JAPAN (continued)

4022i	82¥	Dandelions, <i>Taraxacum campyloides</i>	Asteraceae	V B MS
		U/I Fiddleheads		V U MS
		Horsetails, <i>Equisetum</i> sp.	Equisetaceae	V B MS
4022j	82¥	Pine tree, <i>Pinus</i> sp.	Pinaceae	T U MS
2016 August 10 (Mountain Day) (MS/10)				
4023d	82¥	Komakusa, <i>Dicentra peregrina</i>	Papaveraceae	Fl A MS
4023h	82¥	Daisen Yellow Violet, <i>Viola brevistipulata</i>	Violaceae	Fl A MS
2016 August 25 (150th anniv. Diplomatic Relations w/ Italy) (MS/10)				
4026a	82¥	Mulberry leaves, <i>Morus alba</i> (with silk cocoon)	Moraceae	V A MS
4026e	82¥	Basil leaves, <i>Ocimum basilicum</i> (with cheese)	Lamiaceae	V A MS
4026f	82¥	Tomato, <i>Lycopersicon esculentum</i> (with cheese)	Solanaceae	Fr A MS
2016 August 26 (Happy Greetings) (MS/10)				
4030a	92¥	Rose, <i>Rosa x hybrida</i>	Rosaceae	Fl A MS
4030		MS/10 (4ea Sc#4030a & 2ea Sc#4030b-d)		
2016 September 9 (Greetings: Flowers in Daily Life) (MS/10)				
4033a	82¥	Roses, <i>Rosa x hybrida</i> (with tea & pastry)	Rosaceae	Fl A MS
4033b	82¥	Roses, <i>Rosa x hybrida</i> (hanging basket)	Rosaceae	Fl A MS
4033c	82¥	Roses, <i>Rosa x hybrida</i> (in garden)	Rosaceae	Fl A MS
4033d	82¥	Roses, <i>Rosa x hybrida</i> (on trellis)	Rosaceae	Fl A MS
4033e	82¥	Roses, <i>Rosa x hybrida</i> (in pot)	Rosaceae	Fl A MS
4033		MS/10 (2ea Sc#4033a-e)		
2016 September 23 (Kamikochi Natural Monument) (MS/10)				
4036e	82¥	Kurumayuri, <i>Lilium medeoloides</i>	Liliaceae	Fl A MS
4036f	82¥	Shinanokinbai, <i>Trollius riederianus</i> var. <i>japonicus</i>	Ranunculaceae	Fl A MS
4036g	82¥	Chickweed-Wintergreen, <i>Trientalis europaea</i>	Primulaceae	Fl A MS
2016 October 3 (Greetings: Autumn) (2ea MS/10)				
4038b	52¥	Purple Grapes <i>Vitis vinifera</i>	Vitaceae	Fr A MS
4038d	52¥	Akebia or Chocolate Vine, <i>Akebia quinata</i>	Fabaceae	Fl A MS
4038		MS/10 (2ea Sc#4038a-e)		
4039b	82¥	Snake Gourds, <i>Trichosanthes pilosa</i>	Cucurbitaceae	Fr A MS
4039d	82¥	White Grapes, <i>Vitis vinifera</i>	Vitaceae	Fr A MS
4039		MS/10 (2ea Sc#4039a-e)		
2016 November 29 (50th anniv. Dipl. Relations w/ Singapore) (MS/10)				
4065i	82¥	U/I Orchid	Orchidaceae	Fl U MS
2016 December 9 (Greetings: Flowers in Daily Life) (2ea MS/10)				
4068a-j	52¥	Stylized flowers		Fl S A MS
4069a-e	82¥	Stylized Roses, <i>Rosa x hybrida</i>	Rosaceae	Fl S A MS
2017 January 10 (Traditional Japanese Designs) (2ea MS/10)				
4072a	52¥	Stylized Pine pattern, <i>Pinus</i> sp. (lilac bkgrd)	Pinaceae	V S MS
4072b	52¥	Same design (buff bkgrd)	Pinaceae	V S MS
4072c	52¥	Stylized Pomegranate pattern, <i>Punica granatum</i> (green bkgrd)	Punicaceae	Fr S MS
4072d	52¥	Same design (rose bkgrd)	Punicaceae	Fr S MS
4072e	52¥	Stylized Gourd pattern, <i>Trichosanthes pilosa</i> (blue box)	Cucurbitaceae	Fr S MS
4072f	52¥	Same design (red box)	Cucurbitaceae	Fr S MS
4072g	52¥	Anten pattern, <i>Nandina domestica</i> (pink bkgrd)	Berberidaceae	Fr A MS
4072h	52¥	Same design (yellow bkgrd)	Berberidaceae	Fr A MS

JAPAN (continued)

4072i	52¥	Leaf & pine needle pattern, <i>Ilex latifolia</i> (green bkgrd)	Aquifoliaceae	V S MS
		Leaf & pine needle pattern, <i>Pinus</i> sp.	Pinaceae	V S MS
4072j	52¥	Same design (yellow bkgrd)		V S MS
4073a	82¥	Peony pattern, <i>Paeonia officinalis</i> (pink bkgrd)	Paeoniaceae	Fl S MS
4073b	82¥	Peony pattern, <i>Paeonia officinalis</i> (yellow bkgrd)	Paeoniaceae	Fl S MS
4073i	82¥	Mallow pattern, <i>Alcea</i> sp. (blue-green bkgrd)	Malvaceae	V S MS
4073j	82¥	Mallow pattern, <i>Alcea</i> sp. (lilac bkgrd)	Malvaceae	V S MS

JORDAN**2015 December 28** (Four Seasons) (MS/4)

2256a	30pi	Part of stylized tree in spring (yellow bkgrd)		T S MS
2256b	30pi	Part of stylized tree in summer (green bkgrd)		T S MS
2256c	30pi	Part of stylized tree in autumn (red-brown bkgrd)		T S MS
2256d	30pi	Part of stylized tree in winter (blue bkgrd)		T S MS

KYRGYZ EXPRESS POST**2016 July 29** (Flowers) (Set/4, SS/4, & SS/1)

27	50s	<i>Iris orchoides</i>	Iridaceae	Fl A
28	50s	<i>Leontopodium ochroleucum</i>	Asteraceae	Fl A
29	100s	<i>Primula nivalis</i> var. <i>farinosa</i> (=turkestanica)	Primulaceae	Fl A
30	100s	<i>Tulipa greigii</i>	Liliaceae	Fl A
30a		SS/4 (Sc#27–30)		Fl A SS
31	SS 200s	<i>Papaver rhoeas</i>	Papaveraceae	Fl A SS

LATVIA**2017 January 13** (Flowers Type of 2014) [see Vols. 63(3) p.163; 64(3) p.157]

867c	1c	Daisies, <i>Bellis</i> sp. (inscribed "2017")	Asteraceae	Fl A
868c	4c	Hepatica, <i>Hepatica nobilis</i> (inscribed "2017")	Ranunculaceae	Fl A
869b	7c	Marigolds, <i>Tagetes erecta</i> (inscribed "2017")	Asteraceae	Fl A
895a	10c	Crocuses, <i>Crocus longiflorus</i> (inscribed "2017")	Iridaceae	Fl A

LIBYA**2015 November 1** (Flowers) (MS/6)

1804a	500d	Narcissus, <i>Narcissus pseudonarcissus</i>	Amaryllidaceae	Fl A MS
1804b	500d	Late Spider-orchid, <i>Ophrys fuciflora</i>	Orchidaceae	Fl A MS
1804c	500d	Calla Lily, <i>Zantedeschia aethiopica</i>	Araceae	Fl A MS
1804d	500d	Night-blooming Jasmine, <i>Cestrum nocturnum</i>	Solanaceae	Fl A MS
1804e	500d	Bird-of-Paradise, <i>Strelitzia reginae</i>	Strelitziaceae	Fl A MS
1804f	500d	Jasmine, <i>Jasminum officinale</i>	Oleaceae	Fl A MS

2015 December 31 (Dates) (Set/5)

1811	500d	Dates, <i>Phoenix dactylifera</i>	Arecaceae	Fr A
1812	1000d	Dates, <i>Phoenix dactylifera</i>	Arecaceae	Fr A
1813	2000d	Dates, <i>Phoenix dactylifera</i>	Arecaceae	Fr A
1814	5000d	Dates, <i>Phoenix dactylifera</i>	Arecaceae	Fr A
1815	10000d	Dates, <i>Phoenix dactylifera</i>	Arecaceae	Fr A

LIECHTENSTEIN**2017 March 6** (Grain Crops) (Set/4)

1716	85rp	Oats, <i>Avena sativa</i>	Poaceae	Fr A
1717	100rp	Barley, <i>Hordeum vulgare</i>	Poaceae	Fr A
1718	150rp	Corn or Maize, <i>Zea mays</i>	Poaceae	Fr A
1719	200rp	Millet, <i>Panicum miliaceum</i>	Poaceae	Fr A

LUXEMBOURG**2016 September 13** (Vegetables Type of 2014) (Set/3) [see Vol. 63(4) p.234]

1437	95c	Cucumber, <i>Cucumis sativa</i>	Cucurbitaceae	Fr A
1438	€1.30	String Bean, <i>Phaseolus vulgaris</i>	Fabaceae	Fr A
1439	€2	Tree Onion, <i>Allium x proliferum</i> (=A. cepa var. <i>proliferum</i>)	Amaryllidaceae	V A

MACEDONIA		2016 May 13 (Vegetables Type of 2014) (Set/3) [see Vol. 65(2) p. 67]		
715	3d	Garlic, <i>Allium sativum</i>	Amaryllidaceae	V A
716	6d	Beets, <i>Beta vulgaris</i>	Amaranthaceae	V A
717	13d	Peppers, <i>Capsicum annuum</i>	Solanaceae	Fr A
MALAWI		2016 July 6 (Wild Fruits) (MS/6 & 6ea SS/1)		
819a	200k	Large Sourplum, <i>Ximenia caffra</i>	Olacaceae	Fr A
819b	400k	Spiny Monkey Orange, <i>Strychnos spinosa</i>	Loganiaceae	Fr A
819c	500k	Snot Apple, <i>Azanza garckeana</i>	Malvaceae	Fr A
819d	700k	Ramontchi or Indian Plum, <i>Flacourtia indica</i>	Salicaceae	Fr A
819e	730k	Jujube, <i>Ziziphus jujuba</i> (=mauritiana)	Rhamnaceae	Fr A
819f	870k	Black Plum, <i>Vitex doniana</i>	Lamiaceae	Fr A
820	SS 350k	Maboque Fruta, <i>Strychnos spinosa</i>	Loganiaceae	Fr A SS
821	SS 350k	Black Plum, <i>Vitex doniana</i>	Lamiaceae	Fr A SS
822	SS 350k	Baobab, <i>Adansonia digitata</i>	Malvaceae	Fr A SS
823	SS 350k	Indian Jujubes, <i>Ziziphus jujuba</i> (=mauritiana)	Rhamnaceae	Fr A SS
824	SS 350k	Ramontchi or Indian Plum, <i>Flacourtia indica</i>	Salicaceae	Fr A SS
825	SS 350k	Masuku or Mahobohobo, <i>Uapaca kirkiana</i>	Phyllanthaceae	Fr A SS
		2016 October 9 (Herbs of Malawi) (MS/7 & 5ea SS/1)		
834a	100k	Roselle, <i>Hibiscus sabdariffa</i>	Malvaceae	Fr A
834b	200k	Neem Tree, <i>Azadirachta indica</i>	Meliaceae	T A
834c	400k	Bird's Eye Chilis, <i>Capsicum frutescens</i>	Solanaceae	Fr A
834d	500k	Hairy Beggar-ticks or Blackjack, <i>Bidens pilosa</i>	Asteraceae	Fl A
834e	500k	Aloe, <i>Aloe vera</i>	Xanthorrhoeaceae	V A
834f	730k	Wormwood, <i>Artemisia annua</i>	Asteraceae	Fl A
834g	870k	Amaranthus, <i>Amaranthus</i> sp.	Amaranthaceae	Fl A
835	SS 350k	Hairy Beggar-ticks or Blackjack, <i>Bidens pilosa</i>	Asteraceae	Fl A SS
836	SS 350k	Silver Artemisia, <i>Artemisia</i> sp. (Cap: Silver Artemisia)	Asteraceae	V A SS
837	SS 350k	Moringa, <i>Moringa oleifera</i>	Moringaceae	V A SS
838	SS 350k	Bird's Eye Chilis, <i>Capsicum frutescens</i>	Solanaceae	Fr A SS
839	SS 730k	Amaranthus, <i>Amaranthus</i> sp.	Amaranthaceae	Fl A SS
MALTA		2017 February 24 (Flowers Type of 2014)(Set/3) [see Vol. 63(4) p. 234]		
1583	26c	<i>Anacamptis</i> (=Orchis) <i>collina</i>	Orchidaceae	Fl A
1584	42c	Yellow Bee-orchid, <i>Ophrys lutea</i>	Orchidaceae	Fl A
1585	€1.25	Small-flowered Tongue-orchid, <i>Serapias parviflora</i>	Orchidaceae	Fl A
MARSHALL ISLANDS		2016 November 3 (Christmas) (MS/10)		
1145j	49c	Poinsettia, <i>Euphorbia pulcherrima</i>	Euphorbiaceae	Fl A MS
MAURITIUS		2016 October 18 (Freshwater Flora) (Set/4)		
1157	11r	Waterhyssop, <i>Bacopa monnieri</i>	Plantaginaceae	Fl A
1158	13r	Mexican Primrose-willow, <i>Ludwigia octovalvis</i>	Onagraceae	Fl A
1159	16r	Lotus, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl A
1160	31r	Lotus, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl A
MICRONESIA		2015 September 8 (Orchids) (MS/4 & SS/1)		
1185a	\$1	<i>Phalaenopsis violacea</i>	Orchidaceae	Fl A MS
1185b	\$1	Pigeon Orchid, <i>Dendrobium crumenatum</i>	Orchidaceae	Fl A MS
1185c	\$1	Christmas Orchid, <i>Calanthe triplicata</i>	Orchidaceae	Fl A MS
1185d	\$1	<i>Phalaenopsis venosa</i>	Orchidaceae	Fl A MS
1185	Margin	R: Moth Orchids, <i>Phalaenopsis</i> sp.	Orchidaceae	Fl Z MS
1186	SS \$3.50	Moth Orchid, <i>Phalaenopsis</i> sp. (also in Top margin)	Orchidaceae	Fl A SS

MICRONESIA (continued)		2015 September 8 (Plants & Flowers) (MS/6 & SS/1)		
1187a	\$1	Spider Lily, <i>Crinum asiaticum</i>	Amaryllidaceae	Fl A MS
1187b	\$1	Garden Croton, <i>Codiaeum</i> sp.	Euphorbiaceae	Fl A MS
1187c	\$1	Sea Hibiscus, <i>Hibiscus tiliaceus</i>	Malvaceae	Fl A MS
1187d	\$1	Frangipani, <i>Plumeria alba</i>	Apocynaceae	Fl A MS
1187e	\$1	Wild Ginger, <i>Etilingera elatior</i>	Zingiberaceae	Fl A MS
1187f	\$1	Dauerleng, <i>Amyema artensis</i>	Loranthaceae	Fl A MS
1188	SS \$3.50	Frangipani, <i>Plumeria rubra</i>	Apocynaceae	Fl A SS
MOLDOVA		2016 September 27 (Intl. Year of Pulses) (Block/4)		
923a	1.20L	Chickpeas or Garbanzos, <i>Cicer arietinum</i>	Fabaceae	Fr A
923b	1.75L	String Beans, <i>Phaseolus vulgaris</i>	Fabaceae	Fr A
923c	5.75L	Fava Beans, <i>Vicia faba</i>	Fabaceae	Fr A
923d	9.50L	Peas, <i>Pisum sativum</i>	Fabaceae	Fr A
NEW CALEDONIA		2016 November 3 (Items with Spirals) (MS/4)		
1218c	110fr	Tree Fern, <i>Cyathea intermedia</i>	Cyatheaceae	V A MS
PITCAIRN ISLANDS		2016 December 7 (Pitcairn Language) (MS/8 + 13 labels)		
825d	\$1	Coconut Seedling, <i>Cocos nucifera</i>	Arecaceae	V A MS
825f	\$2	Melon, <i>Citrullus lanatus</i>	Cucurbitaceae	Fr A MS
825h	\$2	Orange, <i>Citrus sinensis</i>	Rutaceae	Fr A MS
TUNISIA		2016 September 20 (Conifers) (Set/4 & SS/4)		
1620	50m	Pin de Pignon or Pinion Pine, <i>Pinus pinea</i>	Pinaceae	Fr V A
1621	900m	Pin d'Alep or Aleppo Pine, <i>Pinus halepensis</i>	Pinaceae	Fr T A
1622	1000m	Pin d'Alep or Aleppo Pine, <i>Pinus halepensis</i>	Pinaceae	Fr V A
1622a	1000m	w/o "Pin d'Alep" inscription		
1623	2000m	Pin de Pignon or Pinion Pine, <i>Pinus pinea</i>	Pinaceae	Fr T A
1623a		SS/4 (Sc#1620–21, Sc#1622a, & Sc#1623)		
UNITED STATES		2017 February 24 (Fruit Type of 2016) [see Vol. 65(2)]		
5177	5c	Pinot Noir Grapes, <i>Vitis vinifera</i>	Vitaceae	Fr A



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.]

GHANA

2015 November 2 (Mushrooms) (MS/6 & SS/1)

2864a	350ce	Shitake mushroom, <i>Lentinula edodes</i>	Marasmiaceae	A
2864b	350ce	Chanterelle mushroom, <i>Cantharellus cibarius</i>	Cantharellaceae	A
2864c	350ce	Russula mushroom, <i>Russula fellea</i>	Russulaceae	A
2864d	350ce	Button mushroom, <i>Agaricus bisporus</i>	Agaricaceae	A
2864e	350ce	Oyster mushroom, <i>Pleurotus ostreatus</i>	Pleurotaceae	A
2864f	350ce	Porcini mushroom, <i>Boletus edulis</i>	Boletaceae	A
2865	SS 9ce	Morel, <i>Morchella esculenta</i>	Morchellaceae	A

JAPAN

2016 May 27 (Children's Books) (MS/10)

3996d	82¥	U/I mushroom (child poking mushrooms with a stick)		C U
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KOSOVO

2016 July 4 (Mushrooms) (MS/4)

307a	60c	Porcini or Penny Bun, <i>Boletus edulis</i>	Boletaceae	A
307b	80c	Morel, <i>Morchella vulgaris</i>	Morchellaceae	A
307c	90c	Fly Agaric, <i>Amanita muscaria</i> (☠)	Amanitaceae	A
307d	€1.30	Birch Bolete, <i>Leccinum scabrum</i>	Boletaceae	A

Flora & Fauna



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TWO NEW US STAMPS

(from *Linn's Stamp News*) In March, the U.S. Postal Service revealed details of two new stamps that it planned to issue in the spring. The 3-cent Strawberries coil stamp and the non-denominated (\$1.15) Succulent global forever stamp were previously unannounced.

The Succulent global forever stamp was issued in a pane of 10 on 28 April. The design shows an overhead view of an *Echeveria* species photographed by Erika Kirkpatrick. William J. Gicker was the art director, and Greg Breeding designed the stamp.

The stamp was issued at the 2017 WESTPEX stamp show that took place 28–30 April at the San Francisco Airport Marriott Waterfront hotel.

The 3-cent Strawberries stamp was issued in a coil of 10,000 on 5 May at the annual Philatelic Show sponsored by the Northeastern Federation of Stamp Clubs in Acton, Massachusetts, 5–7 May at the Boxborough Regency hotel.

The Strawberries coil stamp features an illustration by John Burgoyne, whose artwork has been featured previously on recent lower-denomination definitive stamps: the 10-cent Red Pears coil issued 17 January 2016 (Sc#5039), the 5-cent Pinot Noir Grapes coil issued 19 February 2016 (Sc#5038), the 1-cent Albemarle Pippin Apples coil issued 12 August 2016 (Sc#5037), the 5-cent Pinot Noir Grapes sheet stamp issued 24 February, and the 10-cent Red Pears sheet stamp issued 23 March.

The two most recent issues have not yet been assigned Scott catalog numbers.

The Succulent global forever stamp, which pays the postage on international letter mail weighing one ounce or less, will presumably replace the Moon global forever stamp that was issued 22 February 2016 (Sc#5058).



Echeveria sp.



Fragaria hybrid



MAMMALIA

Editor

Michael Prince, LM68



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AITUTAKI 2016 May 27 (Marae Moana Marine Park) (Set/9)				
637	30c	Short-finned Pilot Whale, <i>Globicephala macrorhynchus</i>	Delphinidae	A
639	80c	Short-beaked Common Dolphin, <i>Delphinus delphis</i>	Delphinidae	A
642	\$1.40	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	A
644	\$1.70	Spinner Dolphin, <i>Stenella longirostris</i>	Delphinidae	A
645	\$2	Killer Whale, <i>Orcinus orca</i>	Delphinidae	A
BOTSWANA 2015 March 10 (Okavango Delta UNESCO Site) (Set/4 & SS/4)				
971	3.50p	African Hunting Dog, <i>Lycaon pictus</i>	Canidae	B
		Hippopotamus, <i>Hippopotamus amphibious</i>	Hippopotamidae	B
		White Rhinoceros, <i>Ceratotherium simum</i>	Rhinocerotidae	B
972	5.40p	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	B
974	8p	Impala, <i>Aepyceros melampus</i>	Bovidae	B
2015 November 20 (Vervet Monkeys Type of 2015) (SS/4)				
991c		SS/4 (Sc#988–91) (ovpt Hong Kong 2015 emblem)		
2016 March 14 (Elephants) (Set/4 & SS/4)				
992	4p	African Bush Elephant, <i>Loxodonta africana</i> (foraging)	Elephantidae	A
993	5.90p	Same species (mother & calf)		A
994	7.80p	Same species (cooling down)		A
995	10p	Same species (seeking water)		A
995a		SS/4 (Sc#992–95)		
COOK ISLANDS 2016 May 27 (Marae Moana Marine Park) (Set/12)				
1553	30c	Sperm Whale, <i>Physeter catodon</i>	Physeteridae	A
1554	80c	Melon-headed Whale, <i>Peponocephala electra</i>	Delphinidae	A
1556	\$1.10	Spinner Dolphin, <i>Stenella longirostris</i>	Delphinidae	A
1557	\$1.50	Pantropical Spotted Dolphin, <i>Stenella attenuata</i>	Delphinidae	A
CURAÇAO 2016 February 8 (New Year 2016 – Year of the Monkey) (MS/4)				
273a	300c	White-fronted Spider Monkey, <i>Ateles belzebuth</i>	Cebidae	A
273b	400c	Sumatran Orangutan, <i>Pongo abelii</i>	Hominidae	A
273c	500c	Emperor Tamarin, <i>Saguinus imperator</i>	Callitrichidae	A
273d	600c	Red-faced Spider Monkey, <i>Ateles paniscus</i>	Cebidae	A
EQUATORIAL GUINEA 2016 (Flora & Fauna) (Horiz strip/4)				
320c	700fr	Tree Pangolin, <i>Manis tricuspis</i>	Manidae	A
ERITREA 2013 May 27 (20th anniv. Diplomatic Relations with China) (MS/8)				
423f	7n	Dromedary, <i>Camelus dromedarius</i>	Camelidae	A
423h	10n	Tibetan Gazelle (Chiru), <i>Pantholops hodgsonii</i>	Bovidae	A
2016 (25th anniv. Liberation of Eritrea) (SS/3)				
437b	4n	Dromedary, <i>Camelus dromedarius</i> (head & rider)	Camelidae	B
437c	5n	Dromedary, <i>Camelus dromedarius</i> (legs)	Camelidae	B

GAMBIA**2014 October 14** (Endangered Animals) (2ea MS/4 & 2ea SS/2)

3616a	50d	African Wild Dog, <i>Lycaon pictus</i> (one dog)	Canidae	A
3616b	50d	Bornean Orangutan, <i>Pongo pygmaeus</i>	Hominidae	A
3616c	50d	Red-faced Spider Monkey, <i>Ateles paniscus</i>	Cebidae	A
3616d	50d	Tiger, <i>Panthera pardus</i>	Felidae	A
3617a	50d	African Wild Dog, <i>Lycaon pictus</i> (two dogs)	Canidae	A
3617b	50d	Eastern Gorilla, <i>Gorilla beringei</i>	Hominidae	A
3617c	50d	Tiger, <i>Panthera tigris</i>	Felidae	A
3617d	50d	Chimpanzee, <i>Pan troglodytes</i>	Hominidae	A
3618a	SS 75d	Chimpanzee, <i>Pan troglodytes</i>	Hominidae	A
3618b	SS 75d	Western Gorilla, <i>Gorilla gorilla</i>	Hominidae	A
3619a	SS 75d	Sumatran Rhinoceros, <i>Dicerorhinus, sumatrensis</i>	Rhinocerotidae	A
3619b	SS 75d	Leopard, <i>Panthera pardus</i>	Felidae	A

2016 November 14 (WWF) (Block/4 & MS/8)

3725a	85d	Temminck's Red Colobus, <i>Piliocolobus temminckii</i> (tree at left)	Cercopithecidae	new A
3725b	85d	Same species (sitting)		A
3725c	85d	Same species (tree at right)		A
3725d	85d	Same species (head)		A
3725		Block or Horiz strip/4 (Sc#3725a-d)		
3725e		MS/8 (2ea Sc#3725a-d)		

GHANA**2015 September 30** (New Year 2016 – Year of the Monkey) (SS/3)

2863a	4ce	Olive Colobus, <i>Procolobus verus</i> (facing right)	Cercopithecidae	A
2863b	4ce	Same species (facing left)		A
2863c	4ce	Same species (facing left with arm raised)		A

2016 May 16 (African Land Mammals) (MS/6, MS/4, & SS/1)

2900a	3.50ce	Giant Forest Hog, <i>Hylochoerus meinertzhageni</i>	Suidae	A
2900b	3.50ce	Spotted Hyena, <i>Crocuta crocuta</i>	Hyaenidae	A
2900c	3.50ce	Lion, <i>Panthera leo</i>	Felidae	A
2900d	3.50ce	Four-striped Grass Mouse, <i>Rhabdomys pumilio</i>	Muridae	A
2900e	3.50ce	Spotted-necked Otter, <i>Lutra maculicollis</i>	Mustelidae	A
2900f	3.50ce	Crested Porcupine, <i>Hystrix cristata</i>	Hystriidae	A
2900	Margin	Bkgrd: Brindled Wildebeest, <i>Connochaetes taurinus</i>	Bovidae	Z
2901a	4ce	Bat-eared Fox, <i>Otocyon megalotis</i>	Canidae	A
2901b	4ce	Cape Hare, <i>Lepus capensis</i>	Leporidae	A
2901c	4ce	Caracal, <i>Caracal caracal</i>	Felidae	A
2901d	4ce	Desert Hedgehog, <i>Hemiechinus aethiopicus</i>	Erinaceidae	A
2901	Margin	Top: Bontebok, <i>Damaliscus pygargus</i>	Bovidae	Z
2902	SS 9ce	Brindled Wildebeest, <i>Connochaetes taurinus</i>	Bovidae	A

2016 October 24 (Monkeys) (MS/6 & SS/2)

2918a	3ce	Patas Monkey, <i>Erythrocebus patas</i> (eating foliage)	Cercopithecidae	A
2918b	3ce	Same species (facing left mouth open)		A
2918c	3ce	Same species (facing left mouth closed)		A
2918d	3ce	Same species (with food in mouth and hand)		A
2918e	3ce	Same species (facing right mouth closed)		A
2918f	3ce	Same species (holding food in both hands)		A
2918	Margin	Top: Same species (head)		Z
2919a	SS 8ce	Patas Monkey, <i>Erythrocebus patas</i> (on all fours)	Cercopithecidae	A
2919b	SS 8ce	Same species (sitting)		A
2919	Margin	R: Same species		Z

GREAT BRITAIN (Alderney)		2016 February 17 (Longis Nature Reserve) (SS/6)		
545	77p	Greater White-toothed Shrew, <i>Crocidura russula</i>	Soricidae	A
GREENLAND		2016 October 17 (Zackenber Research Station) (MS/9 & Set/2)		
738	11.50k	Stoat (Ermine), <i>Mustela erminea</i>	Mustelidae	B
		Northern Collared Lemming, <i>Dicrostonyx groenlandicus</i>	Muridae	new B
		Arctic Fox, <i>Vulpes lagopus</i>	Canidae	B
738a		MS/9 (Sc#738) (perf 12½)		
740	11.50k	Same species (die cut 13½×13¼) (s/a)		B
GRENADA		2015 December 21 (Manatees) (MS/6 & SS/1)		
4101a	\$3.15	Florida Manatee, <i>Trichechus manatus</i> ssp. <i>latirostris</i> (swim fwd)	Trichechidae	A
4101b	\$3.15	Same species (swim upside down)		A
4101c	\$3.15	Caribbean Manatee, <i>Trichechus manatus</i> ssp. <i>manatus</i> (two)	Trichechidae	A
4101d	\$3.15	Florida Manatee, <i>Trichechus manatus</i> ssp. <i>latirostris</i>	Trichechidae	A
4101e	\$3.15	Same species (head)		A
4101f	\$3.15	Caribbean Manatee, <i>Trichechus manatus</i> ssp. <i>manatus</i> (profile)	Trichechidae	A
4102	SS \$10	Caribbean Manatee, <i>Trichechus manatus</i> ssp. <i>manatus</i>	Trichechidae	A
GUYANA		2015 December 21 (New Year 2016) (2ea Pair & SS/2)		
4430a	\$80	Vervet Monkey, <i>Chlorocebus pygerythrus</i>	Cercopithecidae	A
4430b	\$80	Stylized monkey (possibly Snub-nosed Monkey)		S
4431a	\$100	Vervet Monkey, <i>Chlorocebus pygerythrus</i> (two monkeys)	Cercopithecidae	A
4431b	\$100	Vervet Monkey, <i>Chlorocebus pygerythrus</i> (with fruit)	Cercopithecidae	A
4432a	SS \$200	Vervet Monkey, <i>Chlorocebus pygerythrus</i> (two monkeys)	Cercopithecidae	A
4432b	SS \$200	Vervet Monkey, <i>Chlorocebus pygerythrus</i> (with fruit)	Cercopithecidae	A
		2016 February 20 (Capybaras) (MS/6 & SS/1)		
4452a	\$250	Capybara, <i>Hydrochoerus hydrochaeris</i> (with bird)	Caviidae	A
4452b	\$250	Same species (on grass)		A
4452c	\$250	Same species (in water facing right)		A
4452d	\$250	Same species (in water facing fwd)		A
4452e	\$250	Same species (in tall grass)		A
4452f	\$250	Same species (on hillside)		A
4453	SS \$800	Capybara, <i>Hydrochoerus hydrochaeris</i>	Caviidae	A
		2016 November 17 (WWF) (Block/4 & SS/8)		
4490a	\$400	Giant Armadillo, <i>Priodontes maximus</i> (facing left)	Dasypodidae	A
4490b	\$400	Same species (facing forward)		A
4490c	\$400	Same species (climbing)		A
4490d	\$400	Same species (facing right)		A
4490e		MS/8 (2ea Sc#4490a–d)		
HUNGARY		2016 August 9 (Baby Animals at Budapest Zoo) (MS/12)		
4399a	115fo	African Buffalo, <i>Syncerus caffer</i>	Bovidae	A
4399b	115fo	Javan Langur, <i>Trachypithecus auratus</i>	Cercopithecidae	new A
4399d	115fo	Visayan Warty Pig, <i>Sus cebifrons</i>	Suidae	A
4399f	115fo	Lyle's Flying Fox, <i>Pteropus lylei</i>	Pteropodidae	A
4399h	115fo	Dama Gazelle, <i>Nanger dama</i>	Bovidae	A
4399i	115fo	Three-striped Night Monkey, <i>Aotus trivirgatus</i>	Aotidae	A
4399k	115fo	Dhole, <i>Canis alpinus</i>	Canidae	A
HUNGARY		2016 August 9 (150th anniv. Budapest Zoo) (SS/1)		
4400	1000fo	Red Deer (Elk), <i>Cervus elaphus</i>	Cervidae	B
	Margin	LR: Giraffe, <i>Giraffa camelopardalis</i>	Giraffidae	Z
		LL: Lion, <i>Panthera leo</i>	Felidae	Z

INDIA		2016 July 29 (Tigers Tadoba Andhari National Park) (Set/2 & SS/2)		
2826	5r	Tiger, <i>Panthera tigris</i> (perf 13¾ sync)	Felidae	A
2826a	5r	Tiger, <i>Panthera tigris</i> (perf 13¾×13½)	Felidae	A
2827	25r	Tiger, <i>Panthera tigris</i> (perf 13¾ sync)	Felidae	A
2827a	25r	Tiger, <i>Panthera tigris</i> (perf 13¾×13½)	Felidae	A
2827b		SS/2 (Sc#2826a–27a)		
ISRAEL		2016 November 13 (Jerusalem Tourist Attractions) (Strip/5 & Bklt/10)		
2127a	2.40s	Brown Bear, <i>Ursus arctos</i>	Ursidae	B
		African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	B
		Lion, <i>Panthera leo</i>	Felidae	B
2127		Horiz strip/5 (Sc#2127a–e)		
2127f		Bklt/10 (2ea Sc#2127a–e)		
ITALY		2016 April 22 (50th anniv. Italian WWF) (Single)		
3377	95c	Giant Panda, <i>Ailuropoda melanoleuca</i>	Ursidae	A
JAPAN		2016 August 10 (Mountain Day) (MS/10)		
4023b	82¥	Northern Pika, <i>Ochotona hyperborea</i>	Ochotonidae	A
		2016 September 23 (Kamikochi Natural Monument) (MS/10)		
4036c	82¥	Japanese Dormouse, <i>Glirulus japonicus</i>	Gliridae	new A
4036d	82¥	Japanese Serow, <i>Capricornis crispus</i>	Bovidae	A
		2016 October 3 (Fauna & Flora) (2ea MS/10)		
4038a	52¥	Red Fox, <i>Vulpes vulpes</i>	Canidae	A
4038c	52¥	Japanese Hare, <i>Lepus japonicus</i>	Leporidae	new A
4038e	52¥	Moose (Elk), <i>Alces alces</i>	Cervidae	A
4038		MS/10 (2ea Sc#4038a–e)		
4039a	82¥	Brown Bear, <i>Ursus arctos</i>	Ursidae	A
4039c	82¥	Eurasian Red Squirrel, <i>Sciurus vulgaris</i>	Sciuridae	A
4039e	82¥	Raccoon Dog, <i>Nyctereutes procyonoides</i>	Canidae	A
4039		MS/10 (2ea Sc#4039a–e)		
		2016 November 11 (Animals) (2ea MS/10)		
Sc#4062a, c, & e and Sc#4063 & d are domesticated species of rabbit, hamster, guinea pig, rabbit, and ferret.				
4062b	52¥	Eurasian Flying Squirrel, <i>Pteromys volans</i>	Sciuridae	A
4062d	52¥	Siberian Chipmunk, <i>Tamias sibiricus</i>	Sciuridae	A
4062		MS/10 (Sc#4062a–j)		
4063a	82¥	Amur Hedgehog, <i>Erinaceus amurensis</i>	Erinaceidae	new A
4063b	82¥	Djungarian Hamster, <i>Phodopus sungorus</i>	Muridae	new A
4063c	82¥	Long-tailed Chinchilla, <i>Chinchilla lanigera</i>	Chinchillidae	A
4063		MS/10 (Sc#4063a–j)		
KAZAKHSTAN		2016 December 5 (Endangered Mammals) (Pair)		
799a	200te	European Marten, <i>Martes martes</i>	Mustelidae	A
799b	200te	Beech Marten, <i>Martes foina</i>	Mustelidae	A
KOREA (North)		2013 July 7 (Arctic & Antarctic Animals) (Bklt/2)		
5188	50w	Reindeer (Caribou), <i>Rangifer tarandus</i>	Cervidae	A
5188a		Bklt/2+2 labels (Sc#5187–88)		
KOREA (South)		2016 March 15 (Otters) (Pair & SS/2)		
2461a	300w	European Otter, <i>Lutra lutra</i> (adult & juveniles)	Mustelidae	A
2461b	300w	European Otter, <i>Lutra lutra</i> (head)	Mustelidae	A
2461c		SS/2 (Sc#2461a–b)		

KOSOVO		2015 March 15 (Lynx) (Set/3)		
270	80c	Eurasian Lynx, <i>Lynx lynx</i>	Felidae	A
271	90c	Eurasian Lynx, <i>Lynx lynx</i>	Felidae	A
272	€1	Eurasian Lynx, <i>Lynx lynx</i>	Felidae	A
LUXEMBOURG		2016 September 13 (Biodiversity) (Set/2)		
1445	95c	Grey Wolf, <i>Canis lupus</i> (drawing by Christine Guirsch)	Canidae	A
MALAWI		2016 August 6 (Endangered Animals) (MS/7 & 7ea SS/1)		
826a	100k	African Buffalo, <i>Syncerus caffer</i>	Bovidae	A
826b	200k	Hippopotamus, <i>Hippopotamus amphibious</i>	Hippopotamidae	A
826c	400k	Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae	A
826d	700k	Leopard, <i>Panthera pardus</i> (eyes)	Felidae	A
826e	700k	Leopard, <i>Panthera pardus</i> (head)	Felidae	A
826f	730k	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A
826g	870k	Lion, <i>Panthera leo</i>	Felidae	A
827	SS 350k	African Buffalo, <i>Syncerus caffer</i>	Bovidae	A
828	SS 350k	Hippopotamus, <i>Hippopotamus amphibius</i>	Hippopotamidae	A
829	SS 350k	Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae	A
830	SS 350k	Leopard, <i>Panthera pardus</i>	Felidae	A
831	SS 350k	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A
832	SS 350k	Lion, <i>Panthera leo</i>	Felidae	A
833	SS 350k	Plains Zebra, <i>Equus quagga</i>	Equidae	A
MICRONESIA		2015 September 8 (Marine Mammals) (MS/6 & SS/1)		
1189a	\$1`	Killer Whale, <i>Orcinus orca</i>	Delphinidae	A
1189b	\$1	Bryde's Whale, <i>Balaenoptera edeni</i>	Balaenopteridae	A
1189c	\$1	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	A
1189d	\$1	Spinner Dolphin, <i>Stenella longirostris</i>	Delphinidae	A
1189e	\$1	Risso's Dolphin, <i>Grampus griseus</i>	Delphinidae	A
1189f	\$1	Sperm Whale, <i>Physeter catodon</i>	Physteridae	A
1190	SS \$3.50	Dugong, <i>Dugong dugon</i>	Dugongidae	A
MONGOLIA		2016 October 30 (Mammals) (Set/5)		
Sc#2860–63 are domesticated species of sheep, goat, cow, and horse.				
2864	1000t	Bactrian Camel, <i>Camelus bactrianus</i>	Camelidae	A
		2016 December 11 (Transportation with Animals)		
Sc#2867–68 are domesticated species of horse and ox.				
2866	100t	Reindeer (Caribou), <i>Rangifer tarandus</i>	Cervidae	A
2869	400t	Bactrian Camel, <i>Camelus bactrianus</i>	Camelidae	A
SLOVENIA		2016 September 30 (Cetaceans) (Set/3 & SS/1)		
1190	€1	Common Bottlenose Dolphin, <i>Tursiops truncatus</i>	Delphinidae	A
1191	€1	Fin Whale, <i>Balaenoptera physalus</i>	Balaenopteridae	A
1192	€1.26	Striped Dolphin, <i>Stenella coeruleoalba</i>	Delphinidae	A
1193	€1.85	Short-beaked Common Dolphin, <i>Delphinus delphis</i>	Delphinidae	A

WRONG OTTER

It turns out that the set of stamps depicting baby animals issued by Switzerland and reported in the last edition of *Biophilately* [Vol. 66 (1), p. 10] contains an incorrect image. See the following article reprinted from *Linn's Stamp News*.

(by Denise McCarty, *Linn's Stamp News*) Swiss Post pictured the wrong otter on a recent stamp, according to a report published in the Swiss newspaper *20 Minuten*.

The 85-centime stamp was issued March 2 in a set of four featuring baby animals.

The design depicts a young otter on a blue background. The only inscriptions on the stamp are the denomination and country name (Helvetia) on the left side, and the designer's name (Simon Hofer) and year date at the bottom.



Amblonyx cinereus

Despite the lack of an inscription on the stamp naming the animal, Swiss Post clearly intended to show the fish otter (*Lutra lutra*), also known as the Eurasian otter.

For example, in its new-issue bulletin for collectors, *Focus*, Swiss Post mentioned that “otters used to be found living on the banks of practically every stretch of water in Switzerland,” but had become extinct in the country in the 20th century due to overhunting. It also noted that attempts were being made to reintroduce this otter.

That description fits the Fish Otter. However, according to Switzerland's Pro Lutra Foundation, the animal featured on the stamp is the Asian Dwarf Otter, also known as the Small-clawed Otter.



Lutra lutra

Irene Weinberger of the Pro Lutra Foundation told *20 Minuten*, “Fishing otters have clearly visible webbing and claws as young animals. These are missing from the animal on the stamp.”

The mission of the Pro Lutra Foundation is to reestablish the fish otter in Switzerland.

The stamp will not be withdrawn from sale, according to the May 8 newspaper report by Marco Lussi.

Jacqueline Buhlmann of Swiss Post told Lussi that the Otter stamp and the Baby Animals set were popular with the public, and that they would remain on sale until the scheduled March 2018 withdrawal date. Buhlmann also apologized for the inconvenience.

The other stamps in the Baby Animals set picture a lynx (1fr), wolf (1.50fr), and bear (2fr).



ORNITHOLOGY

Editor

Glenn G. Mertz, BU1455

Corrections/Updates



DJIBOUTI, Vol. 65(2), pp.109–10

Update: Numbers have been assigned by Scott Publishing for the following:

- Eagles: (MS) Sc#865a–d, (SS) Sc#884
- Parrots: (MS) Sc#866a–d, (SS) Sc#885
- Owls: (MS) Sc#867a–d, (SS) Sc#886
- Sturnidae: (MS) Sc#868a–d, (SS) Sc#887
- Nectariniidae: (MS) Sc#869a–d, (SS) Sc#888
- Sylviidae: (MS) Sc#870a–d, (SS) Sc#889

Update: Vol. 66(1), p.38, Raptors: (MS) Sc#950a–d, (SS) Sc#970

Update: Vol. 65(2), pp.108–09. On these pages, I listed issues for 2013 and a 2015 issue for the 230th Birth Anniversary of Audubon. These issues did not receive Scott numbers in the February 2017 issue of *Linn's Stamp News*. I emailed Marty Frankevicz, the New Issue Editor at Scott Publications on 9 February 2017, to inquire why these issues did not receive numbering by Scott Publishing. The reply to my email was as follows: “No catalogues list any Djibouti items dated 2013 or 2015. There are printers out there that do produce items bearing the names of some countries that have no authority from those countries to do so.”

In my article for these items in Vol. 65(2), page 108, I also cautioned that this is probably going on for other countries that have many new issues in a year. Let the buyer beware. One of the reasons I discontinued ordering for about 15 different countries I'm aware of, that this is a practice, with many of these countries not even aware that this is happening.

MALAYSIA, September 1997, Vol. 46(3), p.170

Correction: One of the set of bird stamps issued by Malaysia (Sc#605–08, 1 April 1997) has had the \$1.00 value changed as far as the identity of the bird species. Originally listed as a subspecies of Scarlet Sunbird (*Aethopyga mystacalis*), it has now been listed as Temminck's Sunbird (*Aethopyga temminckii*). At the time of the listing, it was not even mentioned that the listing was a subspecies, but as just a Scarlet Sunbird. In fact, the Scarlet Sunbird has yet to appear on a stamp. It was also listed in the “New Birds in the Philatelic Aviary” section as new. I will let Chuck Braun know to remove it from the Aviary listing.

New Issues

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

2016 December 6 (WWF) (Set/4 & Strip/4)

A

Each stamp bears the WWF panda emblem. The set stamps have white frames. The stamps w/o white frames are a strip of four. A SS was also issued with the four stamps se-tenant with two albatross species in the margins. Scott did not assign this SS a number.

I forwarded the following question to the New Issues editor: “One listing, Sc#648–651 are the four stamps with white frames. Also listed is a horizontal strip of four (Sc#652a–d). Are the strips of four the ones that are shown on a SS of two rows, in a se-tenant format, or separately as a horizontal strip of four? I have a SS from my dealer of four of the stamps in a block of four se-tenant format with the same two albatross species under the format of the se-tenant block of four. The two SS's in question all have the stamps with no white frames. In fact, the SS with the block of four se-tenant is just a smaller version of the SS with two rows of four each in a se-tenant format.”

This is the reply I received from the New Issues editor: “*Aitutaki 652 is from a sheet containing 8 stamps, containing two of each stamp. Apparently blocks of four can be pulled from this sheet as the strips. We will correct the listing of 652 to indicate that it is for a strip or block. There is no need to list the entire sheet, because the stamps only come in this sheet and they are different from Nos. 648–651, and we don’t list entire sheets in this instance.*”

648	\$1	Chatham Albatross, <i>Thalassarche eremite</i> (two on cliff)	Diomedidae	new
649	\$1.70	Same species (adult & juvenile) (with white frame)		
650	\$2	Same species (bird in flight) (with white frame)		
651	\$2.40	Same species (two adults & nest) (with white frame)		
652a	\$1	Same species (two on cliff, one in flight) (w/o white frame)		
652b	\$1.70	Same species (adult & juvenile) (w/o white frame)		
652c	\$2	Same species (bird in flight) (w/o white frame)		
652d	\$2.40	Same species (two adults & nest) (w/o white frame)		

AUSTRALIA **2016 August 16** (Items Starting With Same Letter) (Set/5 & Strip/5) **C**

4521	\$1	Sulphur-crested Cockatoo, <i>Cacatua galerita</i> (perf 14¾×14)	Cacatuidae	
4522	\$1	Superb Lyrebird, <i>Menura novaehollandiae</i> (perf 14¾×14)	Menuridae	
4526	\$1	Sulphur-crested Cockatoo, <i>Cacatua galerita</i> (die cut 11¼) (s/a)	Cacatuidae	
4526a		Bklt/10 (Sc#4526)		
4527	\$1	Superb Lyrebird, <i>Menura novaehollandiae</i> (die cut 11¼) (s/a)	Menuridae	
4527a		Bklt/10 (Sc#4527)		
4529b		Vert strip/5 (Sc#4525–29)		

AUSTRALIA (Norfolk Island) **2016 September 20** (Sea Birds) (Set/2 & SS/2) **A**

I was torn about the name to list this issue under, Australia or Norfolk Island. Norfolk Island is no longer issuing their own stamps, as they will be issued by Australia. The SS of two seabirds has “Norfolk Island Seabirds” on the sheet, but also with the country name of Australia on the bottom of each stamp. I am listing it this time under Australia, although Scott Publishing listed it under Norfolk Island. An email to the New Issues editor asked what country name will be used in the future, and he replied that they will still be listing issues under Norfolk Island.

1131	\$1	Red-tailed Tropicbird, <i>Phaethon rubricauda</i>	Phaethontidae	
1132	\$2	Masked Booby, <i>Sula dactylatra</i>	Sulidae	
1132a		SS/2 (Sc#1131–32)		

BOSNIA & HERZEGOVINA (Serb) **2016 September 14** (Griffon) (MS/4) **A**

548a	90pf	Eurasian Griffon, <i>Gyps fulvus</i> (perched on rock)	Accipitridae	
548b	90pf	Same species (in flight at an angle)		
548c	1.70pf	Same species (in flight)		
548d	1.70pf	Same species (perched on tree stump)		

2016 October 14 (River Fauna) (Set/5) **A**

551	20pf	Mallard, <i>Anas platyrhynchos</i> ♂ & ♀	Anatidae	
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BOTSWANA **2015 March 10** (Okavango Delta UNESCO Site) (Set/4 & SS/4) **B**

972	5.40p	Wattled Crane, <i>Grus carunculatus</i>	Gruidae	
		Slaty Egret, <i>Egretta vinaceigula</i>	Ardeidae	
973	7.30p	Saddle-billed Stork, <i>Ephippiorhynchus senegalensis</i>	Ciconiidae	
		African Jacana, <i>Actophilornis africanus</i>	Jacaniidae	
974	8p	Goliath Heron, <i>Ardea goliath</i>	Ardeidae	
		Red-billed Oxpecker, <i>Buphagus erythrorhynchus</i>	Buphagidae	
974a		SS/4 (Sc#971–74)		

2016 October 1 (Favorite Botswana Stamps) (s-o-s) (Set/5) **A**

1010	5.90p	Malachite Kingfisher, <i>Corythornis cristatus</i> (Sc#831 s-o-s)	Alcedinidae	
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BULGARIA		2016 October 7 (International Photography Contest) (Single)		A
4775	2L	Griffon Vulture, <i>Gyps fulvus</i>	Accipitridae	
CHINA (People's Republic)		2016 August 9 (Bird) (Single)		A
4390	\$1.20	Red-billed Leiothrix, <i>Leiothrix lutea</i>	Leiothrichidae	
COOK ISLANDS		2016 May 27 (Marae Moana Marine Park) (Set/12)		A
1562	\$3	Bristle-thighed Curlew, <i>Numenius tahitiensis</i>	Scolopacidae	
DJIBOUTI		2016 May 5 (Lighthouses) (SS/1)		A
961	SS 960fr	Sooty Tern, <i>Onychoprion fuscatus</i> (also in LL margin)	Laridae	
		2016 July 28 (Intl Year of Pulses) (MS/4)		A
995d	260fr	Rosy-faced Lovebird, <i>Agapornis roseicollis</i> (Cap. <i>Poicephalus senegalus</i>)	Psittaculidae	
		2016 July 28 (Owls) (MS/4 & SS/1)		A
1000a	260fr	Stygian Owl, <i>Asio stygius</i>	Strigidae	
1000b	260fr	Brown Wood-Owl, <i>Strix leptogrammica</i>	Strigidae	
1000c	260fr	Northern Hawk-Owl, <i>Surnia ulula</i>	Strigidae	
1000d	260fr	Barn Owl, <i>Tyto alba</i>	Tytonidae	
1019	SS 960fr	Snowy Owl, <i>Bubo scandiacus</i> (also owlets in LL margin)	Strigidae	
		2016 September 26 (Water Birds) (MS/4 & SS/1)		A
1027a	260fr	Northern Gannet, <i>Morus bassanus</i>	Sulidae	
1027b	260fr	Ruddy Shelduck, <i>Tadorna ferruginea</i>	Anatidae	
1027c	260fr	Fulvous Whistling-Duck, <i>Dendrocygna bicolor</i>	Anatidae	
1027d	260fr	Black Swan, <i>Cygnus atratus</i>	Anatidae	
1046	SS 960fr	Common Loon, <i>Gavia immer</i>	Gaviidae	
	Margin	R: King Eider, <i>Somateria spectabilis</i>	Anatidae	
		2016 September 26 (Kingfishers) (MS/4 & SS1)		A
1028a	260fr	R: Malachite Kingfisher, <i>Corythornis cristatus</i>	Alcedinidae	
		L: White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae	
1028b	260fr	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
1028c	260fr	Malachite Kingfisher, <i>Corythornis cristatus</i>	Alcedinidae	
1028d	260fr	L: Black-backed Dwarf-Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
		R: White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae	
1047	SS 960fr	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
	Margin	Ctr: Laughing Kookaburra, <i>Dacelo novaeguineae</i>	Alcedinidae	
		UR: Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
		LR: Black-backed Dwarf-Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
		2016 September 26 (Pigeons) (MS/4 & SS/1)		A
1029a	260fr	Common Wood-Pigeon, <i>Columba palumbus</i>	Columbidae	
1029b	260fr	Papuan Mountain-Pigeon, <i>Gymnophaps albertisii</i>	Columbidae	
1029c	260fr	Rock Pigeon, <i>Columba livia</i>	Columbidae	
1029d	260fr	White-crowned Pigeon, <i>Patagioenas leucocephala</i>	Columbidae	
1048	SS 960fr	Southern Crowned-Pigeon, <i>Goura scheepmakeri</i>	Columbidae	
	Margin	UL: White-crowned Pigeon, <i>Patagioenas leucocephala</i>	Columbidae	
		UR: Scaled Pigeon, <i>Patagioenas speciosa</i>	Columbidae	
		Ctr: Pomeranian Pouter (a breed)		
		2016 September 26 (Falcons) (MS/4 & SS/1)		A
1030a	260fr	Red-footed Falcon, <i>Falco vespertinus</i>	Falconidae	
1030b	260fr	Taita Falcon, <i>Falco fasciinucha</i>	Falconidae	
1030c	260fr	Amur Falcon, <i>Falco amurensis</i>	Falconidae	

DJIBOUTI (continued)

1030d	260fr	American Kestrel, <i>Falco sparverius</i>	Falconidae	
1049	SS 960fr	Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae	
	Margin	Ctr: Gyrfalcon, <i>Falco rusticolus</i>	Falconidae	
		LR: Greylag Goose, <i>Anser anser</i>	Anatidae	
		2016 September 26 (Vulture) (WWF) (MS/4 & SS/1)		A
1059a	260fr	Lappet-faced Vulture, <i>Torgos tracheliotus</i> (perched on branch)	Accipitridae	
1059b	260fr	Same species (two birds)		
1059c	260fr	Same species (two birds with carrion)		
1059d	260fr	Same species (one bird on ground)		
	Margin	R: Same species (sheet shape)		
1060	SS 960fr	Same species (w/o WWF emblem) (also UL & R margin)	Accipitridae	
		FAROE ISLANDS		
		2016 February 22 (Oystercatchers) (Single)		A
653	17kr	Eurasian Oystercatcher, <i>Haematopus ostralegus</i>	Haematopodidae	
		FRANCE		
		2016 September 5 (WWII Resistance Fighters) (Single)		C
5078	€3.20	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae	
		2016 November 5 (Restoration of Bièvre River) (Single)		C
5121	70c	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
		FR. SOUTHERN & ANTARCTIC TERR		
		2016 January 2 (Kerguelen Island) (Horiz strip/3)		C
544a	80c	Kerguelen Shag, <i>Phalacrocorax verrucosus</i>	Phalacrocoracidae	
		2016 January 2 (Birds) (MS/4)		A
547a	70c	Southern Fulmar, <i>Fulmarus glacialis</i>	Procellariidae	
547b	80c	Northern Giant-Petrel, <i>Macronectes halli</i>	Procellariidae	
547c	€1.05	Cape Petrel, <i>Daption capense</i>	Procellariidae	
547d	€1.45	Brown Skua, <i>Stercorarius antarctica</i>	Stercorariidae	
		2016 May 19 (Paris Philex 2016) (Single + label)		A
549	€2	Rockhopper Penguin, <i>Eudyptes chrysocome</i>	Spheniscidae	
		2016 May 21 (Albatrosses-heads only) (SS/1)		A
550	€1	Wandering Albatross, <i>Diomedea exulans</i>	Diomedidae	
		Amsterdam Albatross, <i>Diomedea exulans amsterdamensis</i>	Diomedidae	
		Yellow-nosed Albatross, <i>Thalassarche chlororhynchos</i>	Diomedidae	
		Black-browed Albatross, <i>Thalassarche melanophris</i>	Diomedidae	
		Light-mantled Albatross, <i>Phoebastria palpebrata</i>	Diomedidae	
		White-capped Albatross, <i>Thalassarche cauta</i>	Diomedidae	
		GAMBIA		
		2014 September 4 (African Birds of Prey) (MS/4 & SS/2)		A
3614a	50d	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae	
3614b	50d	Red Kite, <i>Milvus</i>	Accipitridae	
3614c	50d	African Scops-Owl, <i>Otus senegalensis</i>	Strigidae	
3614d	50d	Osprey, <i>Pandion haliaetus</i>	Pandionidae	
3615a	SS 75d	Montagu's Harrier, <i>Circus pygargus</i>	Accipitridae	
3615b	SS 75d	Secretary-bird, <i>Sagittarius serpentarius</i>	Sagittariidae	
		2015 December 31 (Kingfishers) (MS/4 & SS/1)		A
3683a	50d	Striped Kingfisher, <i>Halcyon chelicuti</i>	Alcedinidae	
3683b	50d	Blue-breasted Kingfisher, <i>Halcyon malimbica</i>	Alcedinidae	
3683c	50d	Malachite Kingfisher, <i>Alcedo cristata</i>	Alcedinidae	
3683d	50d	Pied Kingfisher, <i>Ceryle rudis</i>	Alcedinidae	
3684	SS 150d	Woodland Kingfisher, <i>Halcyon senegalensis</i>	Alcedinidae	

GHANA		2016 February 20 (Crane) (MS/4 & SS/1)	A
2886a	4ce	Gray Crowned-Crane, <i>Balearica regulorum</i> (facing right)	Gruidae
2886b	4ce	Same species (two cranes)	
2886c	4ce	Same species (one crane facing forward)	
2886d	4ce	Same species (facing right, neck not shown)	
2887	SS 12ce	Same species	
GREAT BRITAIN		2016 August 16 (Landscape Gardens) (Set/8)	C
3530	(55p)	Mute Swan, <i>Cygnus olor</i>	Anatidae
3531a		Horiz pair (Sc#3530–31)	
3537	£1.33	Canada Goose, <i>Branta canadensis</i>	Anatidae
3537a		Horiz pair (Sc#3536–37)	
		2016 November 8 (Christmas) (MS/8 & Bklt/12)	A
3565b	(64p)	European Robin, <i>Erithacus rubecula</i> (perf 14½×15)	Muscicapidae
3565d	(95p)	Same species (perf 14½×15)	
3567	(64p)	Same species (die cut 14½×15) (s/a)	
3567a		Bklt/12 (Sc#3567)	
3569	(95p)	Same species (die cut 14½×15) (s/a)	
GREAT BRITAIN (Alderney)		2016 February 17 (Longis Nature Reserve) (SS/6)	A
543	62p	Meadow Pipit, <i>Anthus pratensis</i>	Motacillidae
545a		SS/6 (Sc#540–45)	
GREAT BRITAIN (Guernsey)		2016 February 17 (Endangered Species) (SS/1)	A
1332	£3	Great Philippine Eagle, <i>Pithecophaga jefferyi</i>	Accipitridae
		2016 July 27 (Herm Island) (Set/6 & SS/6)	A
1351	70p	Common Tern, <i>Sterna hirundo</i> (perf 12½×13)	Laridae
1352a		SS/6 (Sc#1347–52) (perf 13)	
GREAT BRITAIN (Isle of Man)		2016 March 24 (Birds) (2ea Horiz strip/5, MS/9, & Bklt/10)	A
Paintings and illustrations of birds by Matt Sewell.			
1782a	(44p)	Manx Shearwater, <i>Puffinus puffinus</i>	Procellariidae
1782b	(44p)	European Robin, <i>Erithacus rubecula</i>	Muscicapidae
1782c	(44p)	Ring-necked Pheasant, <i>Phasianus colchicus</i>	Phasianidae
1782d	(44p)	European Goldfinch, <i>Spinus carduelis</i>	Fringillidae
1782e	(44p)	Tawny Owl, <i>Strix aluco</i>	Strigidae
1782		Horiz strip/5 (Sc#1782a–e) (perf 12½)	
1783a	(77p)	European Starling, <i>Sturnus vulgaris</i>	Sturnidae
1783b	(77p)	Eurasian Blue Tit, <i>Cyanistes caeruleus</i> (Cap: <i>Aprus caeruleus</i>)	Paridae
1783c	(77p)	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae
1783d	(77p)	Eurasian Hobby, <i>Falco subbuteo</i>	Falconidae
1783e	(77p)	Great Cormorant, <i>Phalacrocorax carbo</i>	Phalacrocoracidae
1783f		MS/9 (3ea Sc#1782a, 1783c, 1783e)	
1783		Horiz strip/5 (Sc#1783a–e) (perf 12½)	
1784	(44p)	Manx Shearwater, <i>Puffinus puffinus</i>	Procellariidae
1785	(44p)	European Robin, <i>Erithacus rubecula</i>	Muscicapidae
1786	(44p)	Ring-necked Pheasant, <i>Phasianus colchicus</i>	Phasianidae
1787	(44p)	European Goldfinch, <i>Spinus carduelis</i>	Fringillidae
1788	(44p)	Tawny Owl, <i>Strix aluco</i>	Strigidae
1788a		Bklt/10 (Sc#1784–88) (die cut 13) (s/a)	

GREAT BRITAIN (Jersey) 2015 February 15 A

Jersey issued what they call "Post & Go" labels for local letters up to 100g, with two of the six featuring birds. Scott Publishing will not list these because they are not stamps and contain no printed denomination.

n/a	nd	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae
n/a	nd	Barn Owl, <i>Tyto alba</i>	Tytonidae

2016 September 22 (Waterfowl) (Set/6 & SS/2) A

1985	48p	Tufted Duck, <i>Aythya fuligula</i>	Anatidae
1986	48p	Mallard, <i>Anas platyrhynchos</i>	Anatidae
1987	48p	Smew, <i>Mergellus albellus</i>	Anatidae
1988	48p	Northern Pintail, <i>Anas acuta</i>	Anatidae
1989	48p	Common Shelduck, <i>Tadorna tadorna</i>	Anatidae
1990	48p	Mandarin Duck, <i>Aix galericulata</i>	Anatidae
1990a		SS/2 (Sc#1989-90)	

GREENLAND 2016 October 17 (Zackenber Research Station) (MS/9 & Set/2) B

738	11.50k	Long-tailed Jaeger, <i>Stercorarius longicauda</i>	Stercorariidae
		Snowy Owl, <i>Bubo scandiacus</i>	Strigidae

738a MS/9 (Sc#738) (perf 12½)

740	11.50k	Same species (die cut 13½×13¼) (s/a)	B
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GRENADA 2015 December 21 (Birds of the World) (MS/4 & SS/1) A

4107a	\$3.25	Egyptian Goose, <i>Alopochen aegyptiaca</i>	Anatidae
4107b	\$3.25	Red-billed Woodpecker, <i>Melanerpes carolinus</i>	Picidae
4107c	\$3.25	Cedar Waxwing, <i>Bombycilla cedrorum</i>	Bombycillidae
4107d	\$3.25	Pied Avocet, <i>Recurvirostra avosetta</i>	Recurvirostridae
	Margin	R: Eastern Bluebird, <i>Sialia sialis</i>	Turdidae
4108	SS \$10	Western Tanager, <i>Piranga ludoviciana</i>	Cardinalidae

2015 December 21 (Owls) (2ea MS/4 & 2ea SS/1) A

4119a	\$3.25	Long-eared Owl, <i>Asio otus</i>	Strigidae
4119b	\$3.25	Barn Owl, <i>Tyto alba</i>	Tytonidae
4119c	\$3.25	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae
4119d	\$3.25	Burrowing Owl, <i>Athene cunicularia</i>	Strigidae
	Margin	Bot: Great Horned Owl, <i>Bubo virginianus</i>	Strigidae
4121	SS \$10	Northern Hawk-Owl, <i>Surnia ulula</i>	Strigidae
4120a	\$3.25	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae
4120b	\$3.25	Spotted Owl, <i>Strix occidentalis</i>	Strigidae
4120c	\$3.25	Short-eared Owl, <i>Asio flammeus</i>	Strigidae
4120d	\$3.25	Spectacled Owl, <i>Pulsatrix perspicillata</i>	Strigidae
	Margin	L: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae
4122	SS \$10	Collared Owlet, <i>Glaucidium brodiei</i> (Cap: <i>Stris varia</i>)	Strigidae

2016 September 16 (Caribbean Seabirds) (MS/4 & SS/2) A

4189a	\$4	Royal Tern, <i>Sterna maxima</i>	Laridae
4189b	\$4	Red-billed Tropicbird, <i>Phaethon aethereus</i>	Phaethontidae
4189c	\$4	Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae
4189d	\$4	Brown Noddy, <i>Anous stolidus</i>	Laridae
4190a	SS \$7	Masked Booby, <i>Sula dactylatra</i>	Sulidae
4190b	SS \$7	Red-footed Booby, <i>Sula sula</i>	Sulidae

GRENADA-GRENADINES 2015 December 21 (Birds of Grenada) (MS/4 & SS/1) A

2937a	\$3.25	Purple-throated Carib, <i>Eulampis jugularis</i>	Trochilidae
2937b	\$3.25	Lesser Antillean Tanager, <i>Tangara cucullata</i>	Thraupidae
2937c	\$3.25	Grenada Flycatcher, <i>Myiarchus nugator</i>	Tyrannidae

GRENADA-GRENADINES (continued)

2937d	\$3.25	Bananaquit, <i>Coereba flaveola</i>	Thraupidae	
2938	SS \$10	Grenada Dove, <i>Leptotila wellsi</i>	Columbidae	
2016 September 9 (Crabs & Birds of the Caribbean) (MS/6) A				
2966a	\$3.25	Glossy Ibis, <i>Plegadis falcinellus</i>	Threskiornithidae	
2966c	\$3.25	Yellow-crowned Night-Heron, <i>Nyctanassa violacea</i>	Ardeidae	
2966e	\$3.25	Great Blue Heron, <i>Ardea herodias</i>	Ardeidae	

GUYANA**2016 February 20** (Capybaras) (MS/6)

4452a	\$250	Cattle Tyrant, <i>Machetornis rixosa</i>	Tyrannidae	Vol. 65(4) C
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HONDURAS**2016 April 26** (Honduran Postal Service) (Set/6) **C**

C1365	2L	Scarlet Macaw, <i>Ara macao</i>	Psittacidae	
C1366	5L	Same species (EMS Honduras emblem)		
C1367	5L	Same species (Honducor emblem)		
C1368	10L	Same species (Honducor emblem)		
C1369	10L	Same species (ExportaFácil emblem)		
C1370	15L	Same species		

HUNGARY**2016 August 9** (Baby Animals at Budapest Zoo) (MS/12) **B**

4399c	115fo	Waldrapp, <i>Geronticus eremita</i> (an ibis)	Threskiornithidae	
4399e	115fo	Greater Rhea, <i>Rhea americana</i>	Rheidae	
4399g	115fo	Dalmatian Pelican, <i>Pelecanus crispus</i>	Pelecanidae	
4399j	115fo	Red-fronted Macaw, <i>Ara rubrogenys</i>	Psittacidae	

INDIA**2016 October 17** (Threatened Birds) (Set/4 & SS/4) **A**

2852	5r	Nicobar Pigeon, <i>Caloenas nicobarica</i> (perf 13¾×13½)	Columbidae	
2853	10r	Nilgiri Flycatcher, <i>Eumyias albicaudatus</i> (perf 13¾×13½)	Muscicapidae	Vol. 65(4)
2854	15r	Andaman Woodpecker, <i>Dryocopus hodgei</i> (perf 13¾)	Picidae	
2854a	15r	Same species (perf 13¾×13½)		
2855	25r	Black-and-rufous Flycatcher, <i>Ficedula nigrorufa</i> (perf 13¾)	Muscicapidae	
2855a		Same species (perf 13¾×13½)		
2855b		SS/4 (Sc#2852–53, 2854a, 2855a)		

INDONESIA**2016 November 5** (Flora & Fauna) (Pair & SS/1) **A**

2438a	3000r	Nias Myna, <i>Gracula robusta</i> (Cap: <i>G. religiosa robusta</i>)	Sturnidae	
2438		Pair (Sc#2438a–b)		
2439	SS 5000r	Same species		

IRAN**2014 December 15** (WWF) (MS/4) **A**

3133a	5000r	Lesser White-fronted Goose, <i>Anser erythropus</i> (standing)	Anatidae	
3133b	6000r	Same species (in flight)		
3133c	7000r	Same species (in water)		
3133d	8000r	Same species (standing, flock in background)		

ISRAEL**2015 December** **A**

Israel issued three ATM-Postal labels. These will not receive Scott numbers as they are not postage stamps. Denominations are printed on them when issued by the machine. Two smaller labels have a single species. A larger label shows multiple species. I am listing them for those who may want to collect them.

n/a	nd	Common Quail, <i>Coturnix coturnix</i>	Phasianidae	
n/a	nd	Chukar, <i>Alectoris chukar</i>	Phasianidae	
n/a	nd	Common Quail, <i>Coturnix coturnix</i>	Phasianidae	
		Black Francolin, <i>Francolinus francolinus</i>	Phasianidae	
		Chukar, <i>Alectoris chukar</i>	Phasianidae	
		Sand Partridge, <i>Ammoperdix heyi</i>	Phasianidae	

ISRAEL (continued)			2016 November 13 (Jerusalem Tourist Attractions) (Strip/5 & Bklt/10)	C
2127a	2.40s	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
2127f		Bklt/10+2 labels (2ea Sc#2127a-e)		
2127		Horiz strip/5 (Sc#2127a-e)		
			2016 November 13 (King Solomon's Ships) (SS/1)	C
2128	5s	Yellow-legged Gull, <i>Larus michahellis</i>	Laridae	
	Margin	LR: U/I Peacock species	Phasianidae	
LIECHTENSTEIN			2016 November 14 (Liechtenstein Without People) (SS/3)	B
The sheet was quite large and was sold folded into thirds.				
1702b	200rp	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae	
1702c	200rp	Scarlet Macaw, <i>Ara macao</i>	Psittacidae	
MALAYSIA			2016 May 26 (River Watercraft) (SS/1)	C
1603	SS \$3	Blue-eared Kingfisher, <i>Alcedo meninting</i>	Alcedinidae	
			2016 July 27 (Kelantan Tourist Attractions) (SS/2)	B
1610a	SS \$2	Brahminy Kite, <i>Haliastur indus</i>	Accipitridae	
			2016 August 23 (Flora & Fauna) (MS/7)	B
1612d	60c	Malayan Peacock-Pheasant, <i>Polyplectron malacense</i>	Phasianidae	
NORWAY			2017 January 2 (Falcon) (Horiz coil pair)	A
1811	20kr	Merlin, <i>Falco columbarius</i>	Falconidae	
1812	20kr	Eurasian Hobby, <i>Falco subbuteo</i>	Falconidae	
ST. HELENA			2015 November 11 (Birds) (Set/12)	A
1102	5p	White Tern, <i>Gygis alba</i>	Laridae	
1103	10p	Zebra Dove, <i>Geopelia striata</i>	Columbidae	
1104	15p	Chukar, <i>Alectoris chukar</i>	Phasianidae	
1105	20p	Brown Booby, <i>Sula leucogaster</i>	Sulidae	
1106	30p	Java Sparrow, <i>Lonchura oryzivora</i> (Cap: <i>Padda oryzivora</i>)	Estrildidae	
1107	40p	Wilson's Storm-Petrel, <i>Oceanites oceanicus</i>	Hydrobatidae	
1108	50p	Red-billed Tropicbird, <i>Phaethon aethereus</i>	Phaethontidae	
1109	60p	Masked Booby, <i>Sula dactylatra</i>	Sulidae	
1110	80p	Sooty Tern, <i>Onychoprion fuscata</i>	Laridae	
1111	£1	Yellow Canary, <i>Serinus flaviventris</i>	Fringillidae	
1112	£2	Red Fody, <i>Foudia madagascariensis</i>	Ploceidae	
1113	£5	St. Helena Plover, <i>Charadrius sanctaehelenae</i> (Cap: Wirebird)	Charadriidae	
ST. VINCENT GRENADINES (Mayreau)			2015 December 31 (Seabirds) (Set/6, MS/4, & SS/1)	A
Scott Publishing will probably not list these stamps due to their policy of not listing stamps for uninhabited islands. I only list them to make collectors aware of their existence.				
a	\$3.15	Nazca Booby, <i>Sula granti</i>	Sulidae	
b	\$3.15	Caspian Tern, <i>Hydroprogne caspia</i>	Laridae	
c	\$3.15	Black Skimmer, <i>Rynchops niger</i>	Laridae	
d	\$3.15	Waved Albatross, <i>Phoebastria irrorata</i>	Diomedidae	
e	\$3.15	Ring-billed Gull, <i>Larus delawarensis</i>	Laridae	
f	\$3.15	Swallow-tailed Gull, <i>Creagrurus furcatus</i>	Laridae	
a	\$3.25	Red-billed Tropicbird, <i>Phaethon aethereus</i>	Phaethontidae	
b	\$3.25	Roseate Tern, <i>Sterna dougallii</i>	Laridae	
c	\$3.25	Cape Gannet, <i>Morus capensis</i>	Sulidae	
d	\$3.25	Pomarine Jaeger, <i>Stercorarius pomarinus</i> (Cap: Pomarine Skua)	Stercorariidae	
	SS \$10	Double-crested Cormorant, <i>Phalacrocorax auritus</i>	Phalacrocoracidae	

ST. VINCENT GRENADINES (Bequia) 2016 March 1 (Birds of the Caribbean) (Set/6, MS/4, & SS/1) **A**
 This issue will probably meet the same fate as the issue above for Mayreau. See Vol. 63(2), page 110, for the reasoning given to me by the Scott Publications New Issues editor. This set also has a bird appearing on a stamp for the first time, and I am sure that Chuck Braun will list it as a new bird in the aviary listing.

a	\$3.15	Patagonian Sierra-Finch, <i>Phrygilus patagonicus</i>	Emberizidae	new
b	\$3.15	Crimson-rumped Toucanet, <i>Aulacorhynchus haematopygus</i>	Ramphastidae	
c	\$3.15	Green Jay, <i>Cyanocorax affinis</i>	Corvidae	
d	\$3.15	Green-rumped Parrotlet, <i>Forpus passerinus</i>	Psittacidae	
e	\$3.15	Toucan Barbet, <i>Semnornis ramphastinus</i>	Capitonidae	
f	\$3.15	Crimson-collared Tanager, <i>Ramphocelus sanguinolentus</i>	Thraupidae	
a	\$3.25	Military Macaw, <i>Ara militaris</i>	Psittacidae	
b	\$3.25	Blue-Gray Tanager, <i>Thraupis episcopus</i>	Thraupidae	
c	\$3.25	Collared Aracari, <i>Pteroglossus torquatus</i> (Cap: <i>P. frantzii</i>)	Ramphastidae	
d	\$3.25	Sun Parakeet, <i>Aratinga solstitialis</i> (Cap: Sun Conure)	Psittacidae	
	SS \$10	St. Vincent Parrot, <i>Amazona guildingii</i>	Psittacidae	

ST. VINCENT GRENADINES (Union Is.) 2016 May 26 (NY State Emblems) (SS/6) **A**
 See comments above for Scott listing.

b	\$3.15	Eastern Bluebird, <i>Sialis sialis</i>	Turdidae	
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S. GEORGIA & S. SANDWICH IS. 2015 December 21 (Biodiversity) (Set/6) **A**

C7	(70p)	Macaroni Penguin, <i>Eudyptes chrysolophus</i>	Spheniscidae	
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2016 May 4 (25th anniv. IAATO) (Set/4) **C**

548	70p	Macaroni Penguin, <i>Eudyptes chrysolophus</i>	Spheniscidae	
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2016 November 28 (Filming on Zavodovski Island) (Set/4) **A**

560	70p	Macaroni Penguin, <i>Eudyptes chrysolophus</i>	Spheniscidae	
561	80p	Chinstrap Penguin, <i>Pygoscelis antarctica</i>	Spheniscidae	
562	£1.05	Same species (chicks)	Spheniscidae	
563	£1.25	U/I Penguin species (with Mount Curry)	Spheniscidae	

TOGO 2013 March 1 (Owls) (MS/4 & SS/1) **A**

In Vol. 63(1), I listed some 1 March 2013 issues, but I found that I missed one, and I only discovered it when I saw a recent listing on Chris Gibbins's website for the correction of the bird on the SS. Gibbins originally identified it as a European Scops-Owl (*Otus scops*), but is now relisting it as Mindanao Eagle-Owl (*Mimizuku gurneyi*). The English name was recently changed to Giant Scops-Owl (*Otus gurneyi*), which is how I have listed it here.

a	750fr	L: Eurasian Scops-Owl, <i>Otus scops</i>	Strigidae	
		R: Northern White-faced Owl, <i>Ptilopsis leucotis</i>	Strigidae	
b	750fr	African Wood-Owl, <i>Strix woodfordii</i>	Strigidae	
c	750fr	Barn Owl, <i>Tyto alba</i>	Tytonidae	
d	750fr	Eurasian Scops-Owl, <i>Otus scops</i>	Strigidae	
	SS 2500fr	L: Giant Scops-Owl, <i>Otus gurneyi</i>	Strigidae	
		R: Pel's Fishing-Owl, <i>Scotopelia peli</i>	Strigidae	
	Margin	LL: Barn Owl, <i>Tyto alba</i>	Tytonidae	
		R: Northern White-faced Owl, <i>Ptilopsis leucotis</i>	Strigidae	

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

1095	60p	Atlantic Tern, <i>Sterna vittata</i>	Laridae	
1097	70p	Tristan Thrush, <i>Nesocichla eremita</i>	Turdidae	
1098	70p	Inaccessible Island Rail, <i>Atlantisia rogersi</i>	Rallidae	
1100	£2	Spectacled Petrel, <i>Procellaria conspicillata</i> (previously a ssp under White-chinned Petrel)	Procellariidae	new

UNITED STATES**2016** (Songbird) (#10 envelope)**A**U694 (47c) Northern Cardinal, *Cardinalis cardinalis*

Cardinalidae

BRITISH SONGBIRDS

On 4 May 2017, the British Royal Mail issued a set of ten First Class stamps depicting some familiar and less well-known British songbirds, whose song defines the British spring and early summer, from birds with simple songs to those with complex repertoires.

The stamps were printed by International Security Printers in two se-tenant strips of five. They were designed by Osborne Ross based on designs by Frederico Gemma.



The stamps show the following species: Great Tit (*Parus major*), Eurasian Wren (*Troglodytes troglodytes*), Willow Warbler (*Phylloscopus trochilus*), Goldcrest (*Regulus regulus*), Eurasian Skylark (*Alauda arvensis*), Eurasian Blackcap (*Sylvia atricapilla*), Song Thrush (*Turdus philomelos*), Common Nightingale (*Luscinia megarhynchos*), Common Cuckoo (*Cuculus canorus*), and Yellowhammer (*Emberiza citrinella*).

First day pictorial postmarks are available from the British Philatelic Bureau at Tallents House in Edinburgh and from the first day site at Warbleton, Heathfield. The Tallents House postmark features a Wren and the Warbleton postmark shows a Song Thrush.



NEW BIRDS IN THE PHILATELIC AVIARY

Charles E. Braun, BU1364

Corrections

Malaysia, 1997 (Sc#606) shows a Temminck's Sunbird. Scarlet Sunbird does not appear on a stamp.

New Birds



CHATHAM ALBATROSS, *Thalassarche eremita* Diomededidae
Aitutaki, 2016 December 6, Sc#648-52, \$1.00 to \$2.40

Length: 28 to 30 inches, sexes alike, resident. Gray above and head and white below with squarish black patches where the leading edge of the wings meet the body.

Habitat: Coastal waters.

Range: Chatham Islands, New Zealand.

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

Birds of the World, Volume 1.



SPECTACLED PETREL, *Procellaria conspicillata* Procellariidae
Tristan da Cunha, 2016 July 12, not yet cataloged, £2

Length: 20 to 23 inches, sexes alike, disperses. Black with a white chin and facial patches.

Habitat: Breeds on islands. Marine and pelagic.

Range: Breeds on Inaccessible Island (Tristan da Cunha). Disperses over southern oceans.

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

Birds of the World, Volume 1.



MAGELLANIC CORMORANT, *Phalacrocorax magellanicus*
Phalacrocoracidae

Falkland Islands, 2017 March 27, not yet cataloged, £1.01

Length: 54 to 56 inches, sexes alike, resident. Black with a white breast to belly and a white cheek patch.

Habitat: Rocky coasts and off-shore islands.

Range: Southern South America and the Falkland Islands.

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



LESSER YELLOW-HEADED VULTURE, *Cathartes burrovianus*
Cathartidae

Surinam, 2017, not yet cataloged, \$2.50

Length: 15 to 18 inches, sexes alike, resident. Black or fuscous brown above and white below with a narrow white forehead.

Habitat: Forest and open areas.

Range: Southern Florida and eastern Mexico to northern Argentina.

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



ZONE-TAILED HAWK, *Buteo albonotatus* Accipitridae
Surinam, 2017, not yet cataloged, \$1.50

Length: 18 to 22 inches, sexes alike, migratory. Black with three white bands in the tail.

Habitat: Forest, scrub and ranches.

Range: Breeds from southern Texas and New Mexico to northwestern Paraguay and Bolivia; winters from Mexico to Paraguay

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



CHACO CHACHALACA, *Ortalis canicollis* Cracidae
Surinam, 2017, not yet cataloged, \$6.50

Length: 20 to 22 inches, sexes alike, resident. Brown, paler below.

Habitat: Swampy lowland forest and scrub.

Range: Eastern Bolivia to southwestern Brazil and northern Argentina.

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



WHITE-RUMPED SWIFTLET, *Aerodramus spodiopygius* Apodidae
New Caledonia, 2012 September 26, Sc#1144, 75fr

Length: 4.5 inches, sexes alike, resident. Dark above and paler below with a whitish rump and a deeply forked tail.

Habitat: Islands.

Range: Admiralty Islands to Samoa.

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



APLOMADO FALCON, *Falco femoralis* Falconidae
Surinam, 2017, not yet cataloged, \$4.75

Length: 15 to 18 inches, sexes alike, migratory. Bluish slate above and buff below with a blackish-barred white band across the belly and a pale stripe behind the eye to the nape.

Habitat: Grassland, savanna, and scrub.

Range: Breeds from Arizona to Tierra del Fuego. Winters in South America except extreme south.

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



BURU RACQUET-TAIL, *Prioniturus mada* Psittaculidae
St. Martin, 2016 January 27, not yet cataloged, SS 500c

Length: 13 inches, resident. The male (shown) is green with purple crown to mantle and shoulders. The female has purple only on the hind neck and mantle.
Habitat: Rain forest.

Range: Buru, southern Moluccas, Indonesia.

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



PATAGONIAN SIERRA-FINCH, *Phrygilus patagonicus* Thraupidae
St Vincent (Bequia), 2016 March 1, not yet cataloged, \$3.15

Length: 6 inches, resident. The male (shown) is blue-gray above and yellow below with a blue-gray head and a russet upper back. The female is dull buffy yellow below and has a greenish upper back.

Habitat: Forest and edges.

Range: Central Chile to Tierra del Fuego.

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



MANGROVE FINCH, *Camarhynchus heliobates* Thraupidae
Great Britain (Jersey), 2017 June 14, not yet cataloged, 49p

Length: 6 inches, resident. The male (shown) is grayish-brown above and brown-streaked whitish below and a black head. The female is paler with a gray head and whitish throat.

Habitat: Dense mangroves.

Range: Fernandina and Isabella Islands, Galapagos.

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

ALBATROSS RETURNS TO ISLAND IN JAPAN

(*The Washington Post*) A wild Short-tailed Albatross, or Steller's Albatross (*Phoebastria albatrus*) born to an artificially reared mother on the Ogasawara Islands was confirmed to have returned to the chain—the first time a wild member of the species has returned to the islands from migration in about 80 years.

The return of the wild albatross, a species designated by the government as a special national treasure, was announced by a group of organizations led by the Yamashina Institute for Ornithology on 24 March 2017. The last time wild Short-tailed Albatrosses inhabited the Ogasawara Islands was in the 1930s.

The wild albatross with an artificially reared mother is believed to have left its nest on Nakodjima, one of the islands in the Ogasawara chain, in 2014, and migrated to the North Pacific Ocean. The bird was then spotted on Mukojima, an island north of Nakodjima, on 1 March.



Phoebastria albatrus
Japan, 1975, Sc#1199

Breeding sites of Short-tailed Albatrosses in Japan are limited to Torishima, one of the Izu Islands, and the Senkaku Islands in the Okinawa Prefecture. The Izu Islands are home to about 4,200 birds.

From 2008 to 2012, the Environment Ministry and other entities relocated 70 chicks from Torishima to Mukojima to breed them artificially. Two to five years after leaving their nests, albatrosses return home to breed.



Phoebastria albatrus
Guinea-Bissau, 2012, Mi#6334



Phoebastria albatrus
Solomon Islands, 2015, Sc#1812a



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
BELARUS 2016 September 15 (25th anniv. Belarus Customs Service) (Single)				
1011	1.26r	Stylized snake (caduceus in coat of arms)		S C
BOSNIA & HERZEGOVINA (Serb) 2016 October 14 (River Fauna) (Set/5)				
554	2.70m	Western Caspian Turtle, <i>Mauremys rivulata</i>	Geoemydidae	A
BOTSWANA 2015 March 10 (Okavango Delta UNESCO Site) (Set/4 & SS/4)				
971	3.50p	U/I chameleon (with wild dog)		U B
973	7.30p	U/I frog (with wading birds)		U C
974a		SS/4 (Sc#971–74)		
CHINA (Taiwan) 2016 October 22 (PhilaTaipei 2016) (SS/2)				
4328	Margin	Stylized sea turtle silhouette (in tree outline)		S C
COOK ISLANDS 2016 May 27 (Marae Moana Marine Park) (Set/12)				
1563	\$2.80	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A
COSTA RICA 2016 August 24 (Leatherback Sea Turtle) (MS/2 & SS/1)				
679a	1370col	Leatherback Sea Turtle, <i>Dermochelys coriacea</i> (facing right)	Cheloniidae	A
679b	2100col	Same species (facing left)		A
680	SS 1100col	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Cheloniidae	A
DJIBOUTI 2016 January 25 (Fauna: Turtles) (MS/4 & SS/1)				
872a	260fr	Florida Box Turtle, <i>Terrapene carolina</i> ssp. <i>bauri</i>	Emydidae, Emydinae	A
872b	260fr	Charles Island Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	A
872c	260fr	Mediterranean Spur-thighed Tortoise, <i>Testudo graeca</i>	Testudinidae	A
872d	260fr	Leopard Tortoise, <i>Stigmochelys pardalis</i>	Testudinidae	A
891	SS 960fr	Aldabra Giant Tortoise, <i>Aldabrachelys gigantea</i>	Testudinidae	A
	Margin	Top & LR: Florida Box Turtle, <i>Terrapene carolina carolina</i>	Emydidae, Emydinae	Z
2016 January 25 (Fauna: Snakes) (MS/4 & SS/1)				
873a	260fr	Puff Adder, <i>Bitis arietans</i> (☠)	Viperidae, Viperinae	A
873b	260fr	Boomsnang, <i>Dispholidus typus</i> (☠)	Colubridae, Colubrinae	A
873c	260fr	Northeast African Carpet Viper, <i>Echis pyramidum</i> (☠)	Viperidae, Viperinae	A
873d	260fr	Peters' Burrowing Asp, <i>Atractaspis fallax</i> (☠)	Lamprophiidae, Atractaspidinae	A
892	SS 960fr	African Cobra, <i>Naja pallida</i> (☠)	Elapidae	A
	Margin	R: Boomsnang, <i>Dispholidus typus</i> (☠)	Colubridae, Colubrinae	Z
2016 January 25 (Fauna: Crocodiles) (MS/4 & SS/1)				
874a	260fr	Siamese Crocodile, <i>Crocodylus siamensis</i>	Crocodylidae	A
874b	260fr	Saltwater Crocodile, <i>Crocodylus porosus</i>	Crocodylidae	A
874c	260fr	Cuban crocodile, <i>Crocodylus rhombifer</i>	Crocodylidae	A
874d	260fr	American Crocodile, <i>Crocodylus acutus</i>	Crocodylidae	A

DJIBOUTI (continued)

893	SS 960fr	American Crocodile, <i>Crocodylus acutus</i>	Crocodylidae	A
	Margin	UR: Same species		Z
		LR: Saltwater Crocodile, <i>Crocodylus porosus</i>	Crocodylidae	Z

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

875a	260fr	Veiled Chameleon, <i>Chamaeleo calypttratus</i>	Chamaeleonidae	A
875b	260fr	High-casqued Chameleon, <i>Trioceros hoehnelii</i> (Cap: <i>Chamaeleo hoehnelii</i>)	Chamaeleonidae	A
875c	260fr	Common Chameleon, <i>Chamaeleo chamaeleon</i>	Chamaeleonidae	A
875d	260fr	Reunion Chameleon, <i>Furcifer pardalis</i>	Chamaeleonidae	A
894	SS 960fr	Fischer's Chameleon, <i>Kinyongia fischeri</i>	Chamaeleonidae	A
	Margin	R: Parson's Chameleon, <i>Calumma parsonii</i>	Chamaeleonidae	Z

2016 July 28

1001a	960fr	Top: Snake-eating Turtle, <i>Cuora flavomarginata</i>	Geoemydidae	B
		Bot: Eastern Box Turtle, <i>Terrapene carolina</i> ssp. <i>carolina</i>	Emydidae, Emydinae	B
1001b	960fr	Top: Eastern Box Turtle, <i>Terrapene carolina</i> ssp. <i>carolina</i>	Emydidae, Emydinae	B
		Bot: Star Tortoise, <i>Geochelone elegans</i>	Testudinidae	B
1001c	960fr	Red-eared Slider, <i>Trachemys scripta</i> ssp. <i>elegans</i>	Emydidae, Deirochelyinae	A
1001d	960fr	Top: Ornate Box Turtle, <i>Terrapene ornata</i> ssp. <i>ornata</i>	Emydidae, Emydinae	B
		Bot: Leopard Tortoise, <i>Stigmochelys pardalis</i>	Testudinidae	B
1020	SS 960fr	African Spurred Tortoise, <i>Centrochelys sulcata</i>	Testudinidae	A
	Margin	Ctr: Eastern Box Turtle, <i>Terrapene carolina</i> ssp. <i>carolina</i>	Emydidae, Emydinae	Z
		LR: Star Tortoise, <i>Geochelone elegans</i>	Testudinidae	Z

FRANCE**2016 September 13** (Animal Proverbs & Idioms) (Bklt/12)

5088	70c	Stylized snake (<i>C'est le serpent qui se mord la queue</i> , "to be in a vicious cycle")		S
5090a		Bklt/12 (Sc#5079–90)		

GAMBIA**2015 December 7** (Snakes) (2ea MS/4, SS/2, & SS/1)

3671a	50d	Milk Snake, <i>Lampropeltis triangulum</i>	Colubridae, Colubrinae	A
3671b	50d	African Bush Viper, <i>Atheris squamigera</i> (♂)	Viperidae, Viperinae	A
3671c	50d	African Bush Viper, <i>Atheris squamigera</i> ♀ (♂)	Viperidae, Viperinae	A
3671d	50d	Mandarin Rat Snake, <i>Euprepiophis mandarinus</i>	Colubridae, Colubrinae	A
3671	Margin	Bkgrd: Allen's Coral Snake, <i>Micrurus alleni</i> (♂)	Elapidae	Z
3672a	50d	Mangrove Snake, <i>Boiga dendrophila</i> (♂)	Colubridae, Colubrinae	A
3672b	50d	Corn Snake, <i>Pantherophis guttatus</i>	Colubridae	A
3672c	50d	Green Tree Python, <i>Morelia viridis</i>	Pythonidae	A
3672d	50d	Common Garter Snake, <i>Thamnophis sirtalis</i>	Colubridae	A
3672	Margin	Bkgrd: Red-tailed Green Ratsnake, <i>Gonyosoma oxycephalum</i>	Colubridae	Z
3673a	SS 75d	European Grass Snake, <i>Natrix natrix</i>	Colubridae, Natricinae	A
3673b	SS 75d	Boa Constrictor, <i>Boa constrictor</i> ssp. <i>imperator</i>	Boidae, Boinae	A
3673	Margin	Bkgrd: Boa Constrictor, <i>Boa constrictor</i>	Boidae, Boinae	Z
3674	SS 150d	Green Pit Viper, <i>Trimeresurus albolabris</i> (♂)	Viperidae	A
	Margin	Bkgrd: Green Tree Python, <i>Morelia viridis</i>	Pythonidae	Z

GAMBIA**2016 November 14** (Paintings by Hieronymus Bosch) (MS/4)

3726	85d	Tiny stylized reptiles ("Garden of Earthly Delights")		S C
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GHANA**2016 April 8** (WWF – Slender-snouted Crocodile) (Block/4 & SS/8)

2894a	5ce	Slender-snouted Crocodile, <i>Crocodylus cataphractus</i> (denom UR)	Crocodylidae	A
2894b	5ce	Same species (denom UL, crocodile facing left)		A
2894c	5ce	Same species (denom LR)		A
2894d	5ce	Same species (denom UL, crocodile facing right)		A

GHANA (continued)

2894e SS/8 (2ea Sc#2894a–d)

2016 December 28 (20th anniv. Shengdao Philatelic Society) (MS/12)

2931f 2ce Stylized snake (Zodiac) S

GREAT BRITAIN**2016 May 17** (Animals) (MS/6)

3506b (64p) Stylized snake S

GRENADA**2015 December 21** (Paintings by Chang Dai Chen) (SS/1)

4125 SS \$10 Stylized turtles (“Two Turtles,” by Qi Baishi) S

GRENADA GRENADINES**2015 December 21** (WWI Era Illust. by Gerolamo Bartoletti) (SS/1)

2936 SS \$10 Stylized snake (with projectile) (illustration collection cover) S

GUYANA**2016 December 13** (Frog) (round & triangular) (MS/4 & SS/2)4494a \$400 Golden Rocket Frog, *Anomaloglossus beebei* (walking left) Dendrobatidae A

4494b \$400 Same species (facing right) A

4494c \$400 Same species (facing left) A

4494d \$400 Same species (top view) A

4495a SS \$600 Golden Rocket Frog, *Anomaloglossus beebei* (two frogs) Dendrobatidae A

4495b SS \$600 Same species (tadpole) A

HONDURAS**2016 June 28** (Tourism) (Set/12)

C1380 15L U/I sea turtle (in water) U

HONG KONG**2016 June 8** (Toys Made in Hong Kong) (Set/6 & MS/18)

1782 \$5 Toy tin frog G

1782a MS/18 (3ea Sc#1777–82)

IRAQ**2016 September 21** (Health Organizations) (Block/4)

2005b 250d Stylized snake (Rod of Asclepius) (Iraqi Medical Association) S

ISRAEL**2016 November 13** (Jerusalem Tourist Attractions) (Strip/5 & Bklt/10)

2127a 2.40s U/I alligator (in Biblical Zoo) U C

2127 Horiz strip/5 (Sc#2127a–e)

2127f Bklt/10 (2ea Sc#2127a–e)

MALAYSIA**2015 November 17** (Islands) (Horiz Pair)

1571a 70c U/I sea turtle (Pulau Tenggol) U B

2016 August 23 (Flora and Fauna) (MS/7) (s/a)1612e 60c Green Paddy Frog, *Hylarana erythraea* (Cap: *Rana erythraea*) Ranidae A**PAPUA NEW GUINEA****2016 May 19** (Coins and Banknotes) (MS/4 & SS/2)

1833d 6.60k Stylized sea turtle (banknote detail) S B

1834a SS 5k Stylized sea turtle (banknote detail) S B

SURINAM**2016 October 16** (Frogs) (Block/6)1501a \$1 *Boophis bottae* Mantellidae, Boophinae A1501b \$2 *Boophis tephraeomystax* Mantellidae, Boophinae A1501c \$3 *Teratohyla spinosa* (Cap: *Cochranella spinosa*) Centrolenidae, Centroleninae A1501d \$4 Dyeing Poison Frog, *Dendrobates tinctorius* (♀) Dendrobatidae, Dendrobatinae A1501e \$7 Linda's Tree Frog, *Hyloscirtus lindae* Hylidae, Hylinae A1501f \$8 File-eared Tree Frog, *Polypedates otitophus* Rhacophoridae, Rhacophorinae A

CHILDREN'S WORLD PETS

On 20 February 2017, Croatia issued a sheet of eight 3.10k stamps containing two each of four designs depicting terrarium pets.

The stamps feature four whimsical depictions of reptiles commonly kept as pets. They were designed by Lidija Novosel and Adam Peter Maguire from Zagreb.

Agencija za Komercijalnu Djelatnost d.o.o. (AKD) of Zagreb printed the stamps using offset lithography. Around the margin of the sheet are stylized images of these animals.

The Green Iguana (*Iguana iguana*) is shown laying in a hammock on a beach wearing a set of headphones as it listens to a portable radio.

The iguana is an arboreal lizard native to Central and South America and the Caribbean. It can grow to more than five feet in length. Despite its name, it can come in blue, lavender, black, and even pink colors.

It makes a good pet due to its calm disposition and bright colors, but it can be demanding to care for properly. It requires adequate space and special lighting and heat.

The Milk Snake (*Lampropeltis triangulum*) is depicted with a pair of stockings that display the same color pattern as the snake. This pattern apparently has it confused because it appears to be attracted to the stockings.

It is a species of king snake with as many as 24 subspecies. They can grow up to 60 inches long. Their alternating red-black-yellow pattern closely mimics the highly poisonous coral snake. A common mnemonic used to distinguish between the two is: "Red touches black, you're OK jack. Red touches yellow, you're a dead fellow."

An entirely false myth that these snakes suck milk from cows results in their name. They do not have the physical capability to do this. They are found frequently around barns where they make use of the dark environment and access to rodent populations. This probably gave rise to the myth.

The Veiled Chameleon (*Chamaeleo calytratus*) is shown blending into a cardboard box. This lizard is native to the Arabian Peninsula. It is the most common chameleon in the pet trade and survives well in captivity. It can grow to a length of two feet and eats both insects and plants. Both sexes have a casque on the head.

The Common Musk Turtle (*Sternotherus odoratus*) is depicted taking a plunge from a high diving board.

This turtle is native to southeastern Canada and the eastern United States. Its name comes from the fact that it can release a foul musky odor from scent glands on the edge of its shell, possibly to deter predators. They can grow to more than five inches in length. Their smaller size make them a good choice for pets.

They are almost entirely aquatic, typically only venturing on land to lay eggs, or sometimes to bask. They feed on aquatic invertebrates and insects. They have long necks and their heads can extend as far as their hind feet.



MARINE INVERTEBRATES

Editor

Ian Hunter, BU1619

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
CHINA (Taiwan) 2017 January 5 (Starfish) (Set/4)				
4335	\$5	Necklace Starfish, <i>Fromia monilis</i>	Goniasteridae	A
4336	\$5	Cushion Star, <i>Culcita novaeguineae</i>	Oreasteridae	A
4337	\$5	Crown-of-Thorns Starfish, <i>Acanthaster planci</i>	Acanthasteridae	A
4338	\$5	Blue Starfish, <i>Linckia laevigata</i>	Ophidiasteridae	A
ECUADOR 2016 December 29 (Inst. Promotion of Export & Investment) (Strip/5)				
2192e	\$1	U/I shrimp (with onions, bananas, herbs)		U C
GREECE 2015 November 4 (Notos 2015 Philatelic Exhibition) (SS/2)				
2711a	Margin	Bot: Stylized Nautilus shell		S Z
GRENADA 2015 December 21 (Starfish) (2ea MS/4 & 2ea SS/1)				
4115a	\$3.25	U/I white Starfish (gray sky bkgrd)		U
4115b	\$3.25	U/I orange Starfish (gray sky bkgrd)		U
4115c	\$3.25	U/I orange Starfish (beach bkgrd)		U
4115d	\$3.25	U/I white Starfish (beach bkgrd)		U
4116a	\$3.25	U/I white Starfish (like Sc#4115d) (blue sky bkgrd)		U
4116b	\$3.25	U/I orange Starfish (like Sc#4115c) (blue sky bkgrd)		U
4116c	\$3.25	U/I orange Starfish (like Sc#4115b) (beach bkgrd)		U
4116d	\$3.25	U/I white Starfish (like Sc#4115a) (beach bkgrd)		U
4117	SS \$10	U/I white Starfish		U
4118	SS \$10	U/I orange Starfish		U
2016 November 3 (Coral) (WWF) (Strip/4 & MS/8)				
4191a	\$5.50	Elkhorn Coral, <i>Acropora palmata</i> (with surface reflection)	Acroporidae	A
4191b	\$5.50	Same species (with fish school)	Acroporidae	A
4191c	\$5.50	Same species (with sandy bottom)	Acroporidae	A
4191d	\$5.50	Same species (dark bkgrd)	Acroporidae	A
4191		Strip/4 (Sc#4191a-d)		
4191e		MS/8 (2ea Sc#4191a-d)		
GRENADA GRENADINES 2016 September 3 (Crabs & Birds of the Caribbean) (MS/6 & SS/2)				
2966b	\$3.25	Zombie Crab, <i>Gecarcinus ruricola</i>	Gecarcinidae	A
2966d	\$3.25	Blue Land Crab, <i>Cardisoma guanhumi</i>	Gecarcinidae	A
2966f	\$3.25	Red Land Crab, <i>Gecarcinus lateralis</i>	Gecarcinidae	A
2967a	SS \$7	Coral Crab, <i>Mithrax spinosissimus</i>	Majidae	A
2967b	SS \$7	Batwing Coral Crab, <i>Carpilius corallinus</i>	Carpiliidae	A
2016 September 9 (Flowers of Grenada Carriacou) (SS/2)				
2969b	\$3.25	a Snail, <i>Bulimulus wiebesi</i>	Bulimulidae	A
HONDURAS 2015 (Interamerican Commission on Sustainable Development)				
C1357	25L	Stylized shell as logo of Commission		S

HONG KONG		2017 January 7 (Year of the Rooster 2017) (Set/4)		
1830	\$3.70	Rooster made of seashells		S
INDIA		2016 November 1 (50th anniv. Haryana State) (Single)		
2858	5r	Stylized shell (as logo)		S
ITALY		2016 May 14 (Red Coral of Alghero) (Single)		
3384	95c	Red Coral, <i>Corallium rubrium</i>	Coralliidae	A
		2016 July 26 (30th anniv. Slow Food Organization) (Single)		
3400	95c	Stylized snail		S
JAPAN		2016 January 29 (Children) (MS/10)		
3974h	82¥	Stylized seashells (with girl in red hat)		S C
		2016 April 26 (G-7 Summit Ise-Shima) (MS/10)		
3988g	82¥	Japanese Spiny Lobster, <i>Panulirus japonica</i>	Palinuridae	A
		2016 May 27 (Children's Books) (MS/10)		
3996	Margin	Top: Small stylized snail		S Z
		2016 June 10 (Summer Greetings) (MS/10)		
4001a	82¥	U/I seashells (two shells)		U
4001b	82¥	U/I seashell		U
4001		MS/10 (1ea Sc#4001a-b & 2ea Sc#4001c-f)		
		2016 November 29 (50th anniv. Dipl. Relations w/ Singapore) (MS/10)		
4065g	82¥	Plate of Chili Crab		S
KAZAKHSTAN		2016 October 21 (Year of the Monkey) (SS/1)		
788	Margin	L: U/I Snail (Zodiac animals)		U Z
MICRONESIA		2015 July 13 (First Stamps of UN Member States) (s-o-s) (MS/6)		
1174f	\$1	Strawberry Top, <i>Clanculus pharaonium</i> (Djibouti Sc#1 s-o-s)	Trochidae	A
		2015 September 8 (Pope Benedict XVI) (SS/1)		
1180	SS \$3.50	Scallop, <i>Pecten jacobaeus</i> (Pope Benedict XVI coat of arms)	Pectinidae	B
MONACO		2016 September 15 (Ornate Wrasse) (WWF) (MS/4)		
2860d	€1	U/I starfish (with two fish)		U B
NEW CALEDONIA		2016 September 12 (René Catala) (Single + label)		
1215	120fr	U/I corals (with Dr. René Catala, biologist)		U B
		2016 November 3 (Items with Spirals) (MS/4)		
1218b	110fr	Christmas Tree Worm, <i>Spirobranchus giganteus</i>	Serpulidae	A
1218d	110fr	Bellybutton Nautilus, <i>Nautilus macromphalus</i>	Nautilidae	A
WALLIS & FUTUNA ISLANDS		2016 January 29 (Cone Shells) (SS/2)		
769a	125fr	Snowflake Cone, <i>Conus floccatus</i>	Conidae	A
769b	150fr	Bubble Cone, <i>Conus bullatus</i>	Conidae	A

CHINA (Taiwan)		2016 July 14 (Corals Type of 1997) (Set/4)		
4311	\$15	U/I reef fish (with <i>Anelia molis</i> coral)		U C
		2016 August 3 (Carp Encircled by Dragons Type of 1997)		
4312	\$100	Stylized Carp		S B
		2016 October 22 (PhilaTaipei 2016) (SS/2)		
4328b	\$32	Stylized fish (with marine life)		S
4328	Margin	LL & LR: Stylized fish silhouettes		S Z
		2016 December 1 (New Year 2017) (Set/2)		
4333	\$13	Stylized fish silhouette (with rooster)		S B
COOK ISLANDS		2016 February 15 (Reef Manta Ray) (WWF) (Set/4 & Strip/4)		
1547	\$1	Reef Manta Ray, <i>Manta alfredi</i> (one swimming right)	Myliobatidae	A
1548	\$1.50	Same species (three swimming forward) (with white frame)		A
1549	\$1.70	Same species (one swimming forward) (with white frame)		A
1550	\$2	Same species (two fish) (with white frame)		A
1551a	\$1	Same species (one swimming right) (w/o white frame)		A
1551b	\$1.50	Same species (three swimming forward) (w/o white frame)		A
1551c	\$1.70	Same species (one swimming forward) (w/o white frame)		A
1551d	\$2	Same species (two fish) (w/o white frame)		A
1551		Horiz strip/4 (w/o white frame) (also issued in SS of two strips)		
		2016 May 27 (Marae Moana Marine Park) (Set/12)		
1558	\$1.50	Whale Shark, <i>Rhincodon typus</i>	Rhincodontidae	A
1559	\$1.70	Tiger Shark, <i>Galeocerdo cuvier</i>	Carcharhinidae	A
1562	\$2.50	Black-saddled Coral Grouper, <i>Plectropomus laevis</i>	Serranidae	A
CUBA		2015 January 20 (Aquarium Fish) (Set/6 & SS/1)		
5615	5c	Siamese Fighting Fish, <i>Betta splendens</i>	Osphronemidae	A
5616	15c	Clown Loach, <i>Chromobotia macracanthus</i>	Botiidae	A
5617	45c	Pearl Gourami, <i>Trichopodus leerii</i>	Osphronemidae	A
5618	65c	Ram Cichlid, <i>Mikrogeophagus ramirezi</i> (Cap: Butterfly Cichlid)	Cichlidae	A
5619	75c	Black Mollies, <i>Poecilia latipinna</i> (var.)	Poeciliidae	A
5620	90c	Goldfish, <i>Carassius auratus</i>	Cyprinidae	A
5621	SS 1p	Freshwater Angelfish, <i>Pterophyllum scalare</i>	Cichlidae	A
	Margin	Bkgrd: Various U/I aquarium fish		U Z
		2016 March 10 (Fauna) (Set/4)		
5779	90c	Rainbow Trout, <i>Oncorhynchus mykiss</i>	Salmonidae	A
5780	90c	Cuban Gar, <i>Atractosteus tristoechus</i>	Lepisosteidae	A
CYPRUS		2016 July 8 (Mediterranean Fish) (Single)		
1264	€1.88	Stylized fish (montage of various Mediterranean species)		S A
CZECH REPUBLIC		2016 May 4 (Holy Roman Emperor Charles IV) (SS/1+2 labels)		
3671	SS 54k	European Carp, <i>Cyprinus carpio</i> (on label)	Cyprinidae	Z
		2016 May 4 (Animals in Czech Zoos) (MS/4+3 labels)		
3685	Margin	LL: Powder Blue Tang, <i>Acanthurus leucosternon</i>	Acanthuridae	Z
		LL: Lined Surgeonfish, <i>Acanthurus lineatus</i>	Acanthuridae	Z
		LL: U/I orange reef fish		U Z
		Bot: Black and White Heniochus, <i>Heniochus acuminatus</i>	Chaetodontidae	Z
		LR: Blacktip Reef Shark, <i>Carcharhinus melanopterus</i>	Carcharhinidae	Z
		LR: Yellow Tang, <i>Zebrasoma flavescens</i>	Acanthuridae	Z

DJIBOUTI**2016 January 25** (Dugongs) (MS/4 & SS/1)

862a	260fr	Gold Trevally, <i>Gnathanodon speciosus</i> (three with dugong)	Carangidae	B
862b	260fr	Same species (five with three dugongs)		B
862c	260fr	Same species (many with dugong)		B
862d	260fr	Same species (two with dugong)		B
862	Margin	LL: Same species		Z
881	SS 960fr	Top & Bot: Gold Trevally, <i>Gnathanodon speciosus</i>	Carangidae	Z

2016 January 25 (Dolphins) (MS/4)

863	Margin	Bot: U/I reef fish		U Z
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2016 September 26 (Kingfishers) (MS/4)

1028c	260fr	U/I small fish (in bird's beak)		U C
1028d	260fr	U/I small fish (in bird's beak)		U C

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

1033a	260fr	Top: Powder Blue Tang, <i>Acanthurus leucosternon</i>	Acanthuridae	A
		Bot: Convict Tang, <i>Acanthurus triostegus</i>	Acanthuridae	A
1033b	260fr	Red Lionfish, <i>Pterois volitans</i>	Scorpaenidae	A
1033c	260fr	Royal Angelfish, <i>Pygoplites diacanthus</i>	Pomacanthidae	A
1033d	260fr	Reef Manta Ray, <i>Manta alfredi</i>	Myliobatidae	A
1052	SS 960fr	Top: Indian Ocean Oriental Sweetlips, <i>Plectorhinchus vittatus</i>	Haemulidae	A
		Bot: Phantom Bannerfish, <i>Heniochus pleurotaenia</i>	Chaetodontidae	A
	Margin	MR: Red Lionfish, <i>Pterois volitans</i>	Scorpaenidae	Z
		Top & LR: U/I red & white reef fish		U Z

ECUADOR**2016 September 7** (Tourism) (2ea Bklt/8) (s/a)

2171c	50c	Diamond Stingray, <i>Dasyatis brevis</i>	Dasyatidae	A
2171		Bklt/8 (Sc#2171a-h) (s/a)		
2172a	25c	Pacific Seahorse, <i>Hippocampus ingens</i>	Syngnathidae	A
2172c	50c	Razor Surgeonfish, <i>Prionurus laticlavus</i>	Acanthuridae	A
2172		Bklt/8 (Sc#2172a-h) (s/a)		

ESTONIA**2016 November 17** (Estonian Art) (Single)

829	65c	Stylized fish ("Fish Above Karlova," by Valve Janov)		S A
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2017 February 23 (Herring) (Single)

836	65c	Baltic Herring, <i>Clupea harengus membras</i>	Clupeidae	A
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FAROE ISLANDS**2016 April 26** (Faroese Foods) (Single)

664	9k	U/I fish species (in drying shed with other food)		U C
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2016 September 26 (Cod) (Single)

668	50k	Atlantic Cod, <i>Gadus morhua</i> (with square of tanned cod skin)	Gadidae	A
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2016 September 26 (Life of Jesus) (MS/10)

671e	9k	Stylized fish (with Jesus feeding the multitude)		S C
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FINLAND**2016 September 9** (Enjoying Nature) (Bklt/6+6 etiquettes) (s/a)

1521b	(€1.20)	Ice fishing with stylized fish		S R
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FRANCE**2016 July 2** (Summer Vacation) (Bklt/12) (s/a)

5053	(70c)	Stylized fish (with snorkeler)		S
5064a		Bklt/12 (Sc#5053-64) (s/a)		

2016 July 9 (Mediterranean Sea Fish) (Single)

5065	€1	Various stylized fish & eel		S
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FRANCE (continued)		2016 September 3 (Animal Proverbs & Idioms) (Bklt/12) (s/a)		
5083	(70c)	Stylized carp (“silent like a carp”)		S
5090a		Bklt/12 (Sc#5079–90) (s/a)		
FRENCH SOUTHERN & ANTARCTIC TERR.		2016 January 2 (Fish of Adélie Land) (MS/4)		
546a	80c	a barbeled plunderfish, <i>Histiodraco velifer</i>	Artedidraconidae	A
546b	80c	a barbeled plunderfish, <i>Dolloidraco longedorsalis</i>	Artedidraconidae	A
546c	€1.05	Saddleback Plunderfish, <i>Pogonophryne phyllopogon</i>	Artedidraconidae	A
546d	€1.3	Barbeled Plunderfish, <i>Pogonophryne cf. barsukovi</i>	Artedidraconidae	A
GERMANY		2016 August 4 (Fish Type of 2015) (Set/3)		
B1119	70c+30c	Hering sp.	Clupeidae	A
B1120	85c+40c	Atlantic Cod, <i>Gadus morhua</i>	Gadidae	A
B1121	145c+55c	European Plaice, <i>Pleuronectes platessa</i>	Pleuronectidae	A
GHANA		1990 (Surcharge)		
1094B	100ce	African Lungfish, <i>Protopterus annectens</i> (Sc#290 surch)	Protopteridae	A
GREAT BRITAIN		2017 January 17 (Ancient Britain) (Horiz pair)		
3575	(64p)	Stylized fish (Skara Brae village, Orkney Islands 3100–2500 BC)		S
3575a		Horiz pair (Sc#3574–75)		
GREAT BRITAIN (Guernsey)		2016 May 6 (Scenes from <i>Toilers of the Sea</i>) (Bklt/4)		
1333	43p	Gilliatt the Fisherman (no fish)		R
1333a		Bklt/4 (Sc#1333)		
		2016 July 14 (Postcrossing) (Set/2)		
1345	(64p)	Stylized fish (with bird)		S
GREAT BRITAIN (Isle of Man)		2016 August 19 (Art of Roger Dean) (Set/6)		
1828	£1.69	U/I fish (“Tales from Topographic Oceans”)		U B
		2016 October 7 (Energy) (Set/5)		
1833	£1.47	Stylized fish icon (with electric motorcycle)		S C
1834	£2.33	Stylized fish silhouette (with hydroelectric power emblem)		S B
GREECE		2016 July 8 (Mediterranean Fish) (Single & Bklt/2)		
2748	€3	Multiple U/I species (perf 13¾)		U A
2748a	€3	Same species (perf 12¾ vert)		
2848b		Bklt/2 (Sc#2748a)		
GRENADA		2015 December 21 (Fish) (2ea MS/4 & 2ea SS/1)		
4111a	\$3.25	Queen Angelfish, <i>Holacanthus ciliaris</i>	Pomacanthidae	A
4111b	\$3.25	Foureye Butterflyfish, <i>Chaetodon capistratus</i>	Chaetodontidae	A
4111c	\$3.25	Gray Angelfish, <i>Pomacanthus arcuatus</i>	Pomacanthidae	A
4111d	\$3.25	Yellowtail Snapper, <i>Ocyurus chrysurus</i>	Lutjanidae	A
4112a	\$3.25	Bar Jack, <i>Caranx ruber</i>	Carangidae	A
4112b	\$3.25	Spotted Trunkfish, <i>Lactophrys bicaudalis</i>	Ostraciidae	A
4112c	\$3.25	Sergeant Major, <i>Abudefduf saxatilis</i>	Pomacentridae	A
4112d	\$3.25	Rock Beauty, <i>Holacanthus tricolor</i>	Pomacanthidae	A
4113	SS \$10	Great Barracuda, <i>Sphyrnaea barracuda</i>	Sphyrnaeidae	A
4114	SS \$10	Yellowtail Damsel, <i>Chrysiptera parasema</i>	Pomacentridae	A
		2015 December 21 (Chinese Art) (SS/1)		
4126	SS \$10	Stylized goldfish (“Wisteria and Goldfish,” by Qi Baishi)		S
		2015 December 21 (1st Stamps of UN Countries) (MS/6)		
4129f	\$3.15	Mozambique Tilapia, <i>Oreochromis mossambicus</i> (Belize Sc#312)	Cichlidae	A

GUYANA		2014 November 24 (New Year 2015) (MS/20)		
4373a	\$80	Stylized fish (Chinese character with butterfly & flowers)		S
		2016 December 5 (New Year 2017) (SS/2)		
4492b	SS \$600	Stylized fish (with rooster & flower)		S
HONDURAS		2016 June 28 (Tourism) (Set/12)		
C1372	5L	Fisherman (Lago de Yojoa) (no fish)		R
HONG KONG		2016 October 13 (Lantau Trail) (Set/12, SS/12, & Bklt/12)		
1798	\$1.70	Tai-O fishing village (perf 13¼ sync) (no fish)		R
1804a		SS/12 (Sc#1793–1804)		
1810	\$1.70	Tai-O fishing village (die cut 13¼ sync) (s/a) (no fish)		R
1816a		Bklt/12 (Sc#1805–16)		
ISRAEL		2016 April 19 (Markets) (Set/3)		
2104	4.10s	U/I fish in market display (Old Acre Market)		U B
		2016 November 13 (Mosaics) (Horiz strip/3)		
2126b	4.10s	Stylized fish design (3rd Century villa in Lod)		S
IRELAND		2016 July 28 (Wild Atlantic Way) (Horiz pair)		
2117	72c	Fly fishing at Glenbeg Lough		R
2117a		Horiz pair (Sc#2116–17)		
JAPAN		2016 July 29 (Japanese Art) (MS/10)		
4019d	82¥	Stylized fish (“Bonito Fishing at Sea, Tosa Province,” by Hiroshige Utagawa)		S
		2016 August 26 (Definitives) (2ea MS/10)		
4027a	52¥	Stylized red fish (on checkerboard)		S
4027		MS/10 (Sc#4027a–c & 2ea Sc#4027c)		
4028a	82¥	Stylized gold & red fish		S
4028		MS/10 (Sc#4028a–c & 2ea Sc#4028c)		
		2016 October 24 (Japanese Foods) (MS/10)		
4052c	82¥	Stylized fish heads (with box of beans and hirage)		S
		2016 October 28 (Astronomy) (MS/10)		
4053d	82¥	Stylized fish outline (Pisces)		S
4053		MS/10 (Sc#4053a & 3ea Sc#4053b–c)		
JORDAN		2015 December 28 (Madaba Mosaics) (SS/1)		
2237	60pi	Stylized fish (with goddess Thalassa) (imperf)		S
		2015 December 28 (Handicrafts) (Set/5)		
2239	60pi	Stylized fish (cloth design)		S
		2016 June 30 (Mediterranean Fish) (Set/5)		
2263	40pi	Axillary Wrasse, <i>Symphodus mediterraneus</i>	Labridae	A
2264	40pi	Blackback Butterflyfish, <i>Chaetodon melannotus</i>	Chaetodontidae	A
2265	40pi	Butterfly Blenny, <i>Blennioides ocellaris</i>	Blenniidae	A
2266	40pi	Lionfish, <i>Pterois miles</i>	Scorpaenidae	A
2267	40pi	Red Scorpionfish, <i>Scorpaena scrofa</i>	Scorpaenidae	A
KAZAKHSTAN		2016 November 16 (Atyrau Region) (SS/2+2 labels)		
795	Margin	LL: Stylized sturgeon fish		S Z

KAZAKHSTAN (continued)		2016 November 16 (Astana Aquarium Sharks) (MS/4)		
796a	100te	Blacktip Reef Shark, <i>Carcharhinus melanopterus</i>	Carcharhinidae	A
796b	100te	Whitetip Reef Shark, <i>Triaenodon obesus</i>	Carcharhinidae	A
796c	100te	Whitespotted Bamboo Shark, <i>Chiloscyllium plagiosum</i>	Hemiscylliidae	new A
796d	100te	Lemon Shark, <i>Negaprion brevirostris</i>	Carcharhinidae	A
		2016 December 8 (Alakoi Nature Reserve) (SS/3)		
800c	200te	Balkhash Perch, <i>Perca schrenkii</i>	Percidae	A
LATVIA		2017 January 13 (Municipal Coats of Arms) (Set/3) (s/a)		
957	57c	Stylized fish (Rojas Coat of Arms)		S
LEBANON		2016 July 9 (Mediterranean Fish) (Single)		
742	£2250	U/I fish (in fish outline)		U A
MACAO		2016 August 25 (Paintings by Macao Artists) (Block/6 & SS/1)		
1486d	3p	Fisherman ("Fishing Alone in the Willow Shade," by Kuan Man Le) (no fish)		R C
1487	Margin	L: U/I angelfishes (in painting)		U Z
MACEDONIA		2016 May 10 (Europa) (MS/4)		
712a	50d	Fishing boat on lake		R C
MALAWI		2016 April 6 (Endemic Fish) (MS/8, SS/2, & 4ea SS/1)		
805a	100k	Kampango Catfish, <i>Bagrus meridionalis</i>	Bagridae	A
805b	200k	U/I Cichlids (four fish)	Cichlidae	U A
805c	200k	Blue Mbuna, <i>Labeotropheus fuelleborni</i> (three fish)	Cichlidae	A
805d	400k	Butter Fish, <i>Rhamphochromis</i> sp.	Cichlidae	A
805e	500k	Mud Fish, <i>Clarias anguillaris</i>	Clariidae	A
805f	700k	Chambo, <i>Oreochromis lidole</i>	Cichlidae	A
805g	730k	<i>Copadichromis chrysonotus</i>	Cichlidae	A
805h	870k	Lake Salmon or Mpsa, <i>Opsaridium microlepis</i>	Cyprinidae	A
805	Margin	R: Blue Mbuna, <i>Labeotropheus fuelleborni</i> LR: Multiple U/I species	Cichlidae	Z U Z
806a	SS 350k	U/I blue Cichlid (one facing backwards)	Cichlidae	U A
806b	SS 350k	U/I yellow Cichlid (facing left)	Cichlidae	U A
	Margin	Top: U/I Cichlid	Cichlidae	U Z
807	SS 350k	Lake Salmon or Mpsa, <i>Opsaridium microlepis</i> (Cap: Sanjika)	Cyprinidae	A
808	SS 350k	Blue Malawi Cichlid, <i>Metriaclima estherae</i> ♂	Cichlidae	A
809	SS 350k	Nile Tilapia, <i>Oreochromis niloticus</i>	Cichlidae	A
810	SS 730k	Cobalt Zebra, <i>Maylandia callainos</i> (Cap: <i>Metriaclima</i> c.)	Cichlidae	A
MALAYSIA		2015 November 17 (Islands) (Horiz pair & SS/1)		
1572a	80c	Various U/I reef fish (with coral reef) (Pulau Sembilang)		U C
1572b	80c	U/I Grouper sp. (Pulau Satang)	Serranidae	U B
1573	SS \$3	Various U/I reef fish (with coral reef) (Pulau Matakang)		U C
		2016 August 23 (Flora & Fauna) (MS/7)		
1612g	80c	L: Mahseer, <i>Tor tambroides</i> R: Multiple U/I small fish	Cyprinidae	A B
1612	Margin	LR: Mahseer, <i>Tor tambroides</i>	Cyprinidae	Z
MALTA		2016 July 9 (Fish) (Single)		
1568	€3.59	Mahi-mahi, <i>Coryphaena hippurus</i>	Coryphaenidae	A
MAURITIUS		2016 June 6 (Freshwater Fauna) (Set/4)		
1150	1r	Giant Mottled Eel, <i>Anguilla marmorata</i>	Anguillidae	A
1152	18r	Nile Tilapia, <i>Oreochromis niloticus</i>	Cichlidae	A

MEXICO**2016 October 20** (Sharks) (MS/12)

3028a	7p	Blue Shark, <i>Prionace glauca</i>	Carcharhinidae	A
3028b	7p	Smooth Hammerhead Shark, <i>Sphyrna zygaena</i>	Sphyrnidae	A
3028c	11.50p	Great White Shark, <i>Carcharodon carcharias</i>	Lamnidae	A
3028d	11.50p	Silky Shark, <i>Carcharhinus falciformis</i>	Carcharhinidae	A
3028		MS/12 (3ea Sc#3028a–d)		

MICRONESIA**2014 October 14** (Sharks) (2ea MS/4 & 2ea SS/1)

1107a	\$1	Blacktip Reef Shark, <i>Carcharhinus melanopterus</i>	Carcharhinidae	A
1107b	\$1	Dogfish Shark,		A
1107c	\$1	Lemon Shark, <i>Negaprion brevirostris</i>	Carcharhinidae	A
1107d	\$1	Tiger Shark, <i>Galeocerdo cuvier</i>	Carcharhinidae	A
1108a	\$1	Whale Shark, <i>Rhincodon typus</i> (tail fin touching edge)	Rhincodontidae	A
1108b	\$1	Same species (tail fin not near edge)		A
1108c	\$1	Same species (mouth open)		A
1108d	\$1	Same species (tail fin at right)		A
1109	SS \$3	Great White Shark, <i>Carcharodon carcharias</i>	Lamnidae	A
1110	SS \$3	Great Hammerhead Shark, <i>Sphyrna mokarran</i>	Sphyrnidae	A

2014 November 11 (Orbicular Batfish) (WWF) (2ea Block or Strip/4)

1117a	40c	Orbicular Batfish, <i>Platax orbicularis</i> (school)	Ephippidae	A
1117b	40c	Same species (one yellow fish)		A
1117c	40c	Same species (two fish)		A
1117d	40c	Same species (one gray & black fish)		A
1118a	90c	Orbicular Batfish, <i>Platax orbicularis</i> (school)	Ephippidae	A
1118b	90c	Same species (one yellow fish)		A
1118c	90c	Same species (two fish)		A
1118d	90c	Same species (one gray & black fish)		A

MONACO**2016 September 15** (Marine Life) (WWF) (MS/4)

2860a	€1	Ornate Wrasse, <i>Thalassoma pavo</i> (one facing right)	Labridae	A
2860b	€1	Same species (one facing left)		A
2860c	€1	Same species (two facing left)		A
2860d	€1	Same species (two with starfish)		A

MONTserrat**2016 May 30** (Nassau Grouper) (WWF) (Block/4 & MS/8)

1381a	\$3.75	Nassau Grouper, <i>Epinephelus striatus</i> (dull colored)	Serranidae	A
1381b	\$3.75	Same species (mouth closed)		A
1381c	\$3.75	Same species (mouth open)		A
1381d	\$3.75	Same species (close-up of head)		A
1381e		MS/8 (2ea Sc#1381a–d)		

NEW CALEDONIA**2016 June 10** (Natural Park of the Coral Sea)

1212	110fr	Top: Fishing boat		R B
		UL: U/I game fish		B
		ML: U/I red reef fish		B
		Ctr: Reef Manta Ray, <i>Manta alfredi</i>	Myliobatidae	B
		LR: U/I angelfish		B

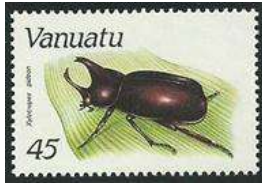
2016 September 12 (René Catala) (Single + label)

1215	label	Stylized seahorse		S
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2016 November 3 (Items with Spirals) (MS/4)

1218a	110fr	Estuary Seahorse, <i>Hippocampus kuda</i>	Syngnathidae	A
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NIUE		2016 December 7 (Christmas-Children's Art) (Set/4 & SS/4)		
943	30c	Stylized fish ("Golden Grouper," by Bailey Pasisi)		S
946a		SS/4 (Sc#943-46)		
POLAND		2016 August 31 (Endangered Fish) (Set/4)		
4245	2z	Amur Bitterling, <i>Rhodeus sericeus</i>	Cyprinidae	A
4246	2.50z	Goldfish, <i>Carassius carassius</i>	Cyprinidae	A
4247	3.70z	Lake Minnow, <i>Eupaliasella percunurus</i>	Cyprinidae	A
4248	6z	Sturgeon, <i>Acipenser oxyrinchus</i>	Acipenseridae	A
RUSSIA		2016 August 23 (Coats of Arms) (Bklt/10 & Bklt/20)		
7759	19r	Stylized fish (Arms of Murmansk)		S B
SINGAPORE		2015 November 24 (Paintings in National Gallery) (Set/4)		
1757	\$1.30	Stylized fish ("Drying Salted Fish," by Cheong Soo Pieng)		S B
SLOVENIA		2016 September 30 (Cetaceans) (Set/3)		
1192	€1.26	Large school of U/I fish (with Striped Dolphin)		U B
SRI LANKA		2016 May 27 (50th anniv. Sri Lanka Tourism)		
2025	15r	Tiny stylized fish silhouette		S C
TOKELAU		2016 October 5 (Language Week) (Set/4 & SS/4)		
463	\$2	Stylized fish		S
464a	SS \$6.80	SS/4 (Sc#461-64)		
TRISTAN DA CUNHA		2016 November 30 (Biodiversity) (Set/12)		
1093	45p	Tristan Klipfish, <i>Bovichtus diacanthus</i>	Bovichtidae	A
TUNISIA		2016 November 12 (Sustainable Development Goals) (MS/20)		
1627t	500m	Stylized fish silhouette (Life Below Water)		S
TURKS & CAICOS ISLANDS		2014 November 3 (Signs of Zodiac) (SS/2)		
1532b	\$2	Stylized fish (Pisces)		S
UNITED NATIONS		2016 October 24 (Sustainable Development Goals) (MS/17 + label)		
1174n	47c	Stylized fish silhouette (Life Below Water)		S
UNITED NATIONS (Geneva)		2016 October 24 (Sustainable Development Goals) (MS/17 + label)		
629n	1fr	Stylized fish silhouette (Life Below Water)		S
UNITED NATIONS (Vienna)		2016 October 24 (Sustainable Development Goals) (MS/17 + label)		
597n	68c	Stylized fish silhouette (Life Below Water)		S
URUGUAY		2016 June 10 (Shackleton Rescue Mission) (SS/3)		
2559c	20p	Fishing boat <i>Instituto No. 1</i> (no fish)		R
VIETNAM		2016 September 1 (Otters-WWF) (Set/4 & SS/8)		
3554	3000d	Otter eating U/I fish		U C
3556a		SS/8 (2ea Sc#3553-56)		
ZIMBABWE		2016 August 30 (Campaign Against Pollution) (Set/6)		
1227	10c	Stylized fish silhouette (water pollution)		S C



ENTOMOLOGY

Editor

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



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
CURAÇAO				
2017 May 3 (Butterflies) (Set/6)				
n/a	121c	Julia or Flambeau, <i>Dryas iulia</i> Fabr.	NYM, Heliconiinae	A
n/a	145c	Tropical Checkered Skipper, <i>Pyrgus oileus</i> L.	HES, Pyrginae	A
n/a	179c	Caribbean or Mangrove Buckeye, <i>Junonia evarete</i> Cramer	NYM, Nymphalinae	A
n/a	211c	Monarch, <i>Danaus plexippus</i> L. ♂	NYM, Danainae	A
n/a	308c	Small or Red Postman, <i>Heliconius erato</i> L.	NYM, Heliconiinae	A
n/a	684c	Soldier or Tropic Queen, <i>Danaus eresimus</i> Cramer ♂	NYM, Danainae	A
DJIBOUTI				
2016 May 5 (Butterflies) (SS/1) (DJB16320b) (new data)				
971	SS 960fr	LR: Gorgon Copper, <i>Lycaena gorgon</i> Boisduval	LYC, Lycaeninae	Z
2017 January 30 (Butterflies) (MS/4 & SS/1) (DJB17101a&b)				
a	280fr	Pamela, <i>Perrhybris pamela</i> Stoll, ♂	PIE, Pierinae	A
b	280fr	Lemon Pansy, <i>Junonia lemonias lemonias</i> L.	NYM, Nymphalinae	A
c	280fr	Yellow Orange Tip, <i>Ixias pyrene</i> L.	PIE, Pierinae	A
d	280fr	Smoky Orange Tip, <i>Colotis euippe</i> L.	PIE, Pierinae	A
	SS 960fr	Common Jezebel, <i>Delias eucharis</i> Drury	PIE, Pierinae	A
	Margin	LL: <i>Synargis phliasus</i> Clerck.	RIO, Riodininae	Z
		UR: Blue Pansy, <i>Junonia orithya</i> L.	NYM, Nymphalinae	Z
		LR: Common Castor, <i>Ariadne merione</i> Cramer (wet season)	NYM, Biblidinae	Z
2017 January 30 (110th anniv. Scouting) (SS/1) (DJB17123b)				
n/a	SS 960fr	Crimson Tip, <i>Colotis danae</i> Fabr. (also in MR margin)	PIE, Pierinae	B
	Margin	LR: Imperial Blue Charaxes, <i>Charaxes imperialis</i> Butler	NYM, Charaxinae	Z
2017 March 15 (Darwin's Specimens) (MS/4) (DJB17221a)				
d	240fr	<i>Ceroglossus darwinii</i> Gerstaecker	CAR, Carabinae	B
2017 March 15 (Endangered Lizards) (MS/4) (DJB17224a)				
n/a	Margin	UR: U/I Dragonfly	Libellulidae	U Z
ECUADOR				
2017 March 31 (Ants of Ecuador) (2ea Bklt/8)				
These stamps are in two booklets of eight each, with 2×25c, 2×50c, 2×75c and 2×\$1 in each booklet. Except for the dollar values, the publicity photos from Correos Ecuador are too blurred to read the names and to determine which value goes with which ant, but José Reis did get the names by corresponding with people in Ecuador.				
a		<i>Atta cephalotes</i> L.	FOR, Myrmicinae	A
b		<i>Eciton hamatum</i> Fabr.	FOR, Dorylinae	A
c		<i>Daceton armigerum</i> Latreille	FOR, Myrmicinae	A
d		<i>Acanthoponera minor</i> Forel	FOR, Heteroponerinae	A
e		Hairy Ant, <i>Ectatomma tuberculatum</i> Olivier	FOR, Ectatomminae	A
f		<i>Gigantiops destructor</i> Fabr.	FOR, Formicinae	A
g	\$1	Hairy Panther Ant, <i>Neoponera villosa</i> Fabr.	FOR, Ponerinae	A
h	\$1	<i>Cephalotes atratus</i> L.	FOR, Myrmicinae	A

ECUADOR (continued)

a		<i>Cephalotes spinosus</i> Mayr	FOR, Myrmicinae	A
b		<i>Odontomachus hastatus</i> Fabr.	FOR, Ponerinae	A
c		<i>Pheidole xanthogaster</i> Wilson	FOR, Myrmicinae	A
d		<i>Myrmelachista ruskii</i> Forel	FOR, Formicinae	A
e		<i>Leptogenys pucuna</i> Lattke	FOR, Ponerinae	A
f		<i>Eciton rapax</i> Smith	FOR, Dorylinae	A
g	\$1	Bullet Ant, <i>Paraponera clavata</i> Fabr.	FOR, Paraponerinae	A
h	\$1	Golden Carpenter Ant, <i>Camponotus sericeiventris</i> Guerin-Méneville	FOR, Formicinae	A

GREECE**2015 December 14** (Product Advertisements) (Set/5)

2716	72c	Honey from Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	R
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GRENADA GRENADINES**2016 December 5** (Year of the Rooster) (Pair)

2974b	\$5.50	Two very stylized Butterflies at top middle	Lepidoptera	S
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GUYANA**2014 November 24** (Year of the Ram) (MS/20)

4373a	\$80	Stylized Butterfly (Chinese character with flowers & fish)	Lepidoptera	S
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INDIA**2017 February 23** (Ladybird Beetles) (Set/4 & MS/4)

a	5r	7-Spotted Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	A
b	5r	Pink or 12-Spotted Ladybird, <i>Coleomegilla maculata</i> DeGeer	COC, Coccinellinae	A
c	15r	22-Spot Ladybird, <i>Psyllobora vigintiduopunctata</i> L.	COC, Coccinellinae	A
d	15r	Convergent Ladybird, <i>Hippodamia convergens</i> Guerin-Méneville	COC, Coccinellinae	A

IRAN**2011 December 6** (Personalized Stamp) (Single + label)

3049A	2600r	Stylized Butterfly (on label)	Lepidoptera	S Z
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2015 July 5 (Flowers) (Set/3)

3140	1000r	U/I Butterfly (on flower)	NYM, Heliconiinae	U B
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JAMAICA**2016 October 28** (Diplomatic Relations with Mexico) (Horiz Pair)

1126a	\$60	Jamaican Swallowtail, <i>Papilio homerus</i> Fab.	PAP, Papilioninae	A
1126b	\$60	Monarch, <i>Danaus plexippus</i> L. ♂	NYM, Danainae	A

JAPAN**2016 August 10** (Mountain Day) (MS/10)

4023f	82¥	Yarigatake Eastern Blue Butterfly	LYC, Polyommatae	U
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2016 August 25 (150th anniv. Diplomatic Relations with Italy) (MS/10)

4026a	82¥	Silkworm, <i>Bombyx mori</i> L. (cocoons on mulberry leaf)	Bombycidae	B
4026b	82¥	Silk from <i>Bombyx mori</i> L. (no insect)	Bombycidae	R

2016 September 23 (Kamikochi Natural Monument) (MS/10)

4036h	82¥	Poplar Admiral, <i>Limenitis populi</i> L.	NYM, Limenitidinae	A
4036i	82¥	Orange Tip, <i>Anthocharis cardamines</i> L.	PIE, Pierinae	A
4036j	82¥	Moorland Clouded Yellow, <i>Colias palaeno</i> L.	PIE, Coliadinae	A

2017 April 28 (Oze Natural Monument) (MS/10)

g	82¥	Crimson or Dawn Skimmer, <i>Trithemis aurora</i> Burmeister	LIB, Trithemistinae	A
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LIBYA**2015 November 20** (International Children's Day) (Single)

1806	500d	Top: Garden Tiger Moth, <i>Arctia caja</i> L.	ARC, Arctiinae	C
		Ctr: Apollo, <i>Parnassius apollo</i> L.	PAP, Parnassiinae	C

MARSHALL ISLANDS**2017 February 22** (Haiku Type of 2016) (MS/20)

1151h	49c	Implied Bees ("From the planets to the humble bees, such divine choreography")		R
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PARAGUAY**2017 March 28** (Butterflies & Flowers) (MS/6+2 labels)

c	1000g	Gulf Fritillary, <i>Agraulis vanillae</i> L.	NYM, Heliconiinae	A
d	1400g	<i>Euryades duponchelii</i> Lucas	PAP, Papilioninae	A
f	2800g	U/I Butterfly	Nymphalidae	U

CARIBBEAN NETHERLANDS (Bonaire) 2016 (Butterflies) (Set/7)

n/a	88c	False Barred Sulfur, <i>Eurema elathea</i> Cramer	PIE, Coliadinae	A
n/a	88c	Caribbean Tropical Buckeye, <i>Junonia genoveva</i> Cramer	NYM, Nymphalinae	A
n/a	88c	Tropical White, <i>Appias drusilla</i> Cramer	PIE, Pierinae	A
n/a	88c	Brazilian Canna Skipper, <i>Calpododes ethlius</i> Stoll.	HES, Hesperinae	A
n/a	88c	Lyside Sulfur, <i>Kricogonia lyside</i> Godart	PIE, Coliadinae	A
n/a	88c	Red or King Cracker, <i>Hamadryas amphinome</i> L.	NYM, Biblidinae	A
n/a	88c	Gray Ministreak, <i>Ministrymon azia</i> Hewitson	LYC, Theclinae	A

CARIBBEAN NETHERLANDS (Saba) 2017 March 3 (Butterflies) (Set/4)

n/a	99c	Red Rim, <i>Biblis hyperia</i> Cramer	NYM, Biblidinae	A
n/a	99c	Little Yellow or Little Sulfur, <i>Eurema lisa</i> Boisduval & LeConte	PIE, Coliadinae	A
n/a	99c	Cassius Blue, <i>Leptotes cassius</i> Cramer	LYC, Polyommatae	A
n/a	99c	Gulf Fritillary, <i>Agraulis vanillae</i> L.	NYM, Heliconiinae	A

CARIBBEAN NETHERLANDS (St. Eustatius) 2016 (Butterflies) (Set/7)

n/a	88c	Cloudless Sulfur, <i>Phoebis sennae</i> L.	PIE, Coliadinae	A
n/a	88c	Little Yellow or Little Sulfur, <i>Eurema lisa</i> Boisduval & LeConte	PIE, Coliadinae	A
n/a	88c	Columella Scrub Hairstreak, <i>Strymon columella</i> Fabr.	LYC, Theclinae	A
n/a	88c	Hanno Blue, <i>Hemiargus hanno</i> Stoll	LYC, Polyommatae	A
n/a	88c	Manuel's Skipper, <i>Polygonus savigny</i> Latreille (Cap/Syn: <i>Polygonus manueli</i>)	HES, Pyrginae	A
n/a	88c	Acis Hairstreak, <i>Strymon acis</i> Drury	LYC, Theclinae	A
n/a	88c	Southern Broken Dash, <i>Wallengrenia otho ophites</i> Mabille	HES, Hesperinae	A

ST MARTIN**2016 January** (Lepidoptera) (4ea SS/1)

In addition to the SS listed here, there are 12 SS that depict Birds and 4ea SS that depict Frogs and Flowers. The margins of all these SS contain many assorted images of moths, butterflies, larvae, and plants from artwork by Maria Sibylla Merian (1647-1727).

n/a	SS 500c	Luna Moth, <i>Actias luna</i> L.	SAT, Saturniinae	A
n/a	SS 500c	Painted Tiger Moth, <i>Arachnis picta</i> Packard	ARC, Arctiinae	A
n/a	SS 500c	Pandorus Sphinx, <i>Eumorphia pandorus</i> Hübner	SPH, Macroglossinae	A
n/a	SS 500c	Clearwinged Mimic White, <i>Dismorphia theucharila fortunata</i> Lucas	PIE, Dismorphiinae	A

2017 March 1 (Tourism Definitives) (Set/13)

n/a	5c	Blue Wing or Blue Wave, <i>Myscelia ethusa</i> Doyere	NYM, Biblidinae	A
n/a	10c	Scarlet Mormon, <i>Papilio deiphobus rumanzovia</i> Eschscholtz ♂	PAP, Papilioninae	A
n/a	20c	Large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	A
n/a	500c	Blue or Leopard Lacewing, <i>Cethosia cyane</i> Drury	NYM, Heliconiinae	A

2017 March 1 (Butterflies) (MS/10)

The top row of stamps (a–e) depict the upper side of each insect. The bottom row (f–j) depict the underside.

a	10c	Tropical Milkweed Butterfly, <i>Lycorea halia</i> Hübner	NYM, Danainae	A
b	30c	<i>Caligo bellerophon</i> Stichel	NYM, Morphinae	A
c	100c	Large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	A
d	135c	Malachite, <i>Siproeta stelenes</i> L.	NYM, Nymphalinae	A
e	10NAf	Ceylon Blue Glassy Tiger, <i>Ideopsis similis</i> L.	NYM, Danainae	A

ST MARTIN (continued)

F	165c	Tropical Milkweed Butterfly, <i>Lycorea halia</i> Hübner	NYM, Danainae	A
g	200c	<i>Caligo bellerophon</i> Stichel	NYM, Morphinae	A
h	205c	Large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	A
i	260c	Malachite, <i>Siproeta stelenes</i> L.	NYM, Nymphalinae	A
j	415c	Ceylon Blue Glassy Tiger, <i>Ideopsis similis</i> L.	NYM, Danainae	A
	Margin	UR: Monarch, <i>Danaus plexippus</i> L. ♀	NYM, Danainae	Z
		Bot: Monarch, <i>Danaus plexippus</i> L. (egg thru adult stages)	NYM, Danainae	Z

SWEDEN**2017 March 16** (Butterflies) (Coil Single & Bklt/10)

a	(6.50k)	Black-Veined White, <i>Aporia crataegi</i> L.	PIE, Pierinae	A
b	(6.50k)	Orange Tip, <i>Anthocharis cardamines</i> L.	PIE, Pierinae	A
c	(6.50k)	Mazarine Blue, <i>Polyommatus semiargus</i> Rottemburg	LYC, Polyommatinae	A
d	(6.50k)	Glanville Fritillary, <i>Melitaea cinxia</i> L.	NYM, Nymphalinae	A
e	(6.50k)	Brimstone, <i>Gonepteryx rhamni</i> L.	PIE, Coliadae	A
		Bklt/10 (2ea Sc#a-e)		
		Small Tortoiseshell, <i>Nymphalis urticae</i> L. (bklt cover)	NYM, Nymphalinae	Z
	(6.50k)	Small Tortoiseshell, <i>Nymphalis urticae</i> L. (coil) (s/a)	NYM, Nymphalinae	A

UNITED NATIONS**2017 March 20** (International Day of Happiness)

j	80c	Stylized swallowtail butterfly (also in L margin)	PAP, Papilioninae	S
	Margin	L & UR: Stylized ladybird beetle	Coccinellidae	S Z

UNITED NATIONS (Vienna)**2017 March 20** (International Day of Happiness) (MS/10+10 labels)

j	80c	Stylized ladybird beetle (also on label & margin)	Coccinellidae	S
	Margin	L: Stylized swallowtail butterfly	PAP, Papilioninae	S Z

Beyond the Catalog**AZERBAIJAN****2017 April 24** (Butterflies) (MS/6) (AZRB17211a)

a	60g	Small or Alpine Apollo, <i>Parnassius phoebus</i> Fabr.	PAP, Papilioninae	A
b	60g	Aegina Number-Wing, <i>Callicore lyca</i> Doubleday	NYM, Biblidinae	A
c	60g	Crowned Hairstreak, <i>Evenus coronata</i> Hewitson	LYC, Theclinae	A
d	60g	<i>Mylothris croceus</i> Butler	PIE, Pierinae	A
e	60g	Atlas Moth, <i>Attacus atlas</i> L.	SAT, Saturniinae	A
f	60g	Purple or Violet Tip, <i>Colotis ione</i> Godart	PIE, Pierinae	A
	Margin	Ctr: <i>Telicota</i> sp. (Cap: Caucasian Dart)	HES, Hesperinae	Z

2017 April 24 (Butterflies) (MS/4) (AZRB17220a)

a	60g	<i>Dysphania militaris</i> L.	GEO, Geometrinae	A
b	60g	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A
c	60g	Question Mark, <i>Nymphalis interrogationis</i> Fabr.	NYM, Nymphalinae	A
d	60g	Blue Pansy, <i>Junonia orithya</i> L.	NYM, Nymphalinae	A
	Margin	Bkgrd: Common Buckeye, <i>Junonia coenia</i> Hübner	NYM, Nymphalinae	Z

CENTRAL AFRICA**2017 January 16** (Orchids & Butterflies)(MS/4 & SS/1) (CA17009a&b)

a	900fr	Common Mormon, <i>Papilio polytes</i> L.	PAP, Papilioninae	B
b	900fr	Purple Sapphire, <i>Heliophorus epicles</i> Godart	LYC, Lycaeninae	B
c	900fr	Chocolate Albatross, <i>Appias lyncida vasava</i> Fruhstorfer	PIE, Pierinae	B
d	900fr	Purple Emperor, <i>Apatura iris</i> L.	NYM, Apaturinae	B
	SS 3600fr	Indian Yellow Nawab, <i>Polyura jalyus</i> C&R Felder	NYM, Charaxinae	B
	Margin	LR: Common Jay, <i>Graphium doson</i> C&R Felder	PAP, Papilioninae	Z

CHAD**2017 March 27** (s-o-s) (MS/4) (TCH17108a)

b	850fr	Large Spotted Acraea, <i>Acraea zetes</i> L. (Gambia Sc#404)	NYM, Heliconiinae	B
d	850fr	Tiny ants (with Anteater) (Paraguay Sc#2139g)	Formicidae	R B

CHAD (continued)		2017 March 27 (Butterflies) (MS/4 & SS/1) (TCH17105a&b)		
a	850fr	Common Buckeye, <i>Junonia coenia</i> Hübner	NYM, Nymphalinae	A
b	850fr	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	A
c	850fr	Luzon Painted Jezebel, <i>Delias hyparete luzonensis</i> C&R Felder	PIE, Pierinae	A
d	850fr	Red Lacewing, <i>Cethosia biblis</i> Drury	NYM, Heliconiinae	A
	SS 3300fr	Queen, <i>Danaus gilippus</i> Cramer ♂	NYM, Danainae	A
	Margin	ML: Luzon Painted Jezebel, <i>Delias hyparete luzonensis</i> C&R Felder	PIE, Pierinae	Z
		LL: Queen, <i>Danaus gilippus</i> Cramer (larva)	NYM, Danainae	Z
		UR: <i>D. hyparete luzonensis</i> C&R Felder (larva, chrysalis, & adult)	PIE, Pierinae	Z
		MR: Peacock Pansy, <i>Junonia almana</i> L.	NYM, Nymphalinae	Z
		LR: Red Lacewing, <i>Cethosia biblis</i> Drury	NYM, Heliconiinae	Z
GUINEA		2017 April 24 (Butterflies) (MS/4 & SS/1) (GU17110a&b)		
a	12500fr	Common Blue, <i>Polyommatus icarus</i> Rottemburg (verso)	LYC, Polyommatinae	A
b	12500fr	Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	A
c	12500fr	Painted Lady, <i>Vanessa cardui</i> L.	NYM, Nymphalinae	A
d	12500fr	Common Blue, <i>Polyommatus icarus</i> Rottemburg (recto)	LYC, Polyommatinae	A
	SS 50000fr	Monarch, <i>Danaus plexippus</i> L. ♀	NYM, Danainae	A
	Margin	LL: Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	Z
		R: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z
GUINEA-BISSAU		2017 March 16 (Butterflies) (MS/5 & SS/1) (GB17201a&b)		
a	600fr	Red Flasher, <i>Panacea prola</i> Doubleday & Hewitson	NYM, Limenitidinae	A
b	600fr	Spotted Fritillary, <i>Melitaea didyma</i> Esper	NYM, Nymphalinae	A
c	600fr	Cramer's 88, <i>Diaethria clymena</i> Cramer	NYM, Biblidinae	A
d	600fr	Popinjay, <i>Stibochiona nicea</i> Gray	NYM, Cyrestinae	A
e	600fr	Painted Beauty, <i>Batesia hypochlora</i> C&R Felder	NYM, Biblidinae	A
	Margin	ML: <i>Actinote ozomene</i> Godart	NYM, Heliconiinae	Z
		Ctr: Sapho Longwing, <i>Heliconius sapho</i> Drury	NYM, Heliconiinae	Z
		MR: Florida Goatweed, <i>Anaea troglodyta floridalis</i> Johnson & Comstock	NYM, Charaxinae	Z
		LL: Common Buckeye, <i>Junonia coenia</i> Hübner	NYM, Nymphalinae	Z
	SS 3000fr	Common Tiger, <i>Mechanitis polymnia</i> L.	NYM, Danainae	A
	Margin	LL: Red or King Cracker, <i>Hamadryas amphinome</i> L.	NYM, Biblidinae	Z
		Top: Painted Jezebel, <i>Delias hyparete</i> L.	PIE, Pierinae	Z
		UR: Adonis Blue, <i>Polyommatus bellargus</i> Rottemburg	LYC, Polyommatinae	Z
		Ctr: Starry Night Metalmark, <i>Echydna punctata</i> C&R Felder	RIO, Riodininae	Z
MOZAMBIQUE		2016 November 10 (Mushrooms) (MS/4 & SS/1) (MOZ16507a&b)		
a	100m	Rainbow Shield Bug, <i>Calidea dregii</i> Germar	SCU, Scutellerinae	B
b	100m	<i>Heliocopriss andersoni</i> Bates	SCA, Scarabaeidae	B
c	100m	<i>Senaspis haemorrhoea</i> Gerstaecker	SYR, Eristalinae	B
d	100m	Picasso Bug, <i>Sphaerocoris annulus</i> Fabr.	SCU, Scutellerinae	B
	SS 350m	African Monarch, <i>Danaus chrysippus</i> L.	NYM, Danainae	B
	Margin	LR: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	Z
		2016 November 10 (Bee-eater Birds) (MS/4 & SS/1) (MOZ16510a&b)		
a	100m	African Honeybee, <i>Apis mellifera scutellata</i> Lepeletier	API, Apinae	B
b	100m	Western Honeybee, <i>Apis mellifera</i> L. (w/ bird facing left)	API, Apinae	B
c	100m	Western Honeybee, <i>Apis mellifera</i> L. (w/ bird facing right)	API, Apinae	B
d	100m	Cape Honeybee, <i>Apis mellifera capensis</i> Eschscholtz	API, Apinae	B
	SS 350m	Western Honeybee, <i>Apis mellifera</i> L. (also in LR margin)	API, Apinae	B

MOZAMBIQUE (continued)		2016 December 29 (Butterflies) (MS/4 & SS/1) (MOZ16514a&b)	
a	100m	Bush or Eastern Scarlet, <i>Axiocerses tjoane</i> Wallengren	LYC, Theclinae A
b	100m	Large Striped Swordtail, <i>Graphium antheus</i> Cramer	PAP, Papilioninae A
c	100m	Commodore, <i>Junonia artaxia</i> Hewitson	NYM, Nymphalinae A
d	100m	Small Salmon Arab, <i>Colotis amata</i> Fabr.	PIE, Pierinae A
	SS 350m	Figtree Blue, <i>Myrina silenus</i> Fabr.	LYC, Theclinae A
	Margin	LL: Gaudy Commodore, <i>Precis octavia</i> Cramer	NYM, Nymphalinae Z
		LR: Painted Lady, <i>Vanessa cardui</i> L.	NYM, Nymphalinae Z
		2017 February 10 (Butterflies) (MS/4 & SS/1) (MOZ17109a&b)	
a	100m	Holly Blue, <i>Celastrina argiolus</i> L.	LYC, Polyommatae A
b	100m	Lesser Purple Emperor, <i>Apatura ilia</i> Denis & Schiffermüller	NYM, Apaturinae A
c	100m	Monarch, <i>Danaus plexippus</i> L. (two) ♂	NYM, Danainae A
d	100m	Peacock, <i>Nymphalis io</i> L. (two)	NYM, Nymphalinae A
	SS 350m	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae A
	Margin	Bot: Clouded Apollo, <i>Parnassius mnemosyne</i> L.	PAP, Papilioninae Z
		2017 February 10 (Bees) (MS/4 & SS/1) (MOZ17122a&b)	
a	100m	<i>Agapostemon</i> sp.	HAL, Halictinae U A
b	100m	Gypsy's Cuckoo Bumblebee, <i>Psithyrus bohemicus</i> Seidl (Cap/Syn: <i>Bombus bohemicus</i>)	API, Apinae A
c	100m	Blue-Banded Bee, <i>Amegilla cingulata</i> Fabr.	API, Apinae A
d	100m	Barbut's Cuckoo Bee, <i>Psithyrus barbutellus</i> Kirby (Cap/Syn: <i>Bombus barbutellus</i>)	API, Apinae A
	SS 350m	L: Forest Cuckoo Bee, <i>Bombus sylvestris</i> Lepeletier	API, Apinae B
		R: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae B
	Margin	LL: Eastern Honeybee, <i>Apis cerana</i> Enderlein	API, Apinae Z
		UL & R: Neon Cuckoo Bee, <i>Thyreus nitidulus</i> Fabr.	API, Xylocopinae Z
NIGER		2017 February 20 (Butterflies) (MS/4 & SS/1) (NIG17105a&b)	
a	900fr	Clipper, <i>Parthenos sylvia apicalis</i> Moore	NYM, Limenitidinae A
b	900fr	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae A
c	900fr	<i>Alcides agathyrus</i> Kirsch	URA, Uraniinae A
d	900fr	Brazilian Painted Lady, <i>Vanessa braziliensis</i> Moore	NYM, Nymphalinae A
	SS 3500fr	Orange-barred Sulfur, <i>Phoebis philea</i> L.	PIE, Coliadinae A
	Margin	UR: <i>Dysphania militaris</i> L.	GEO, Geometrinae Z
		LR: Common Palm Dart, <i>Telicota colon stinga</i> Evans	HES, Hesperinae Z
		2017 February 20 (Orchids) (MS/4) (NIG17106a)	
c	900fr	Brimstone, <i>Gonepteryx rhamni</i> L.	PIE, Coliadinae B
ST. THOMAS & PRINCE IS.		2017 March 13 (Butterflies) (MS/4 & SS/1) (ST17103a&b)	
a	31000d	Cream-Spot Tiger Moth, <i>Epicallia villica</i> L. (Cap: <i>Arctia</i> v.)	ARC, Arctiinae A
b	31000d	Small Heath, <i>Coenonympha pamphilus</i> L.	NYM, Satyrinae A
c	31000d	6-Spot Burnet Moth, <i>Zygaena filipendulae</i> L.	ZYG, Zygaeninae A
d	31000d	Drury's Jewel, <i>Cyclosia papilionaris</i> Drury ♀	ZYG, Chalcosiinae A
	SS 124000d	Apollo, <i>Parnassius apollo</i> L.	PAP, Parnassiinae A
	Margin	R: Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae Z
SIERRA LEONE		2016 (Malaria) (Single) (SRL161312)	
n/a	9000Le	Stylized Mosquito	CUL, Anophelinae S B
		2017 January 30 (Ancient Egyptian Art) (MS/4) (SRL17111a)	
a	6000Le	Scarab breastplate, <i>Scarabaeus sacer</i> L.	SCA, Scarabaeinae S

SIERRA LEONE (continued)		2017 March 30 (Butterflies) (MS/4 & SS/1) (SRL17311a&b)		
a	9800Le	Giant Blue Swallowtail, <i>Papilio zalmoxis</i> Hewitson	PAP, Papilioninae	A
b	9800Le	African Monarch, <i>Danaus chrysippus</i> L.	NYM, Danainae	A
c	9800Le	Pearl Charaxes, <i>Charaxes varanes</i> Cramer	NYM, Charaxinae	A
d	9800Le	Large Striped Swordtail, <i>Graphium antheus</i> Cramer	PAP, Papilioninae	A
	SS 40000Le	African Giant Swallowtail, <i>Papilio antimachus</i> Drury	PAP, Papilioninae	A
	Margin	ML: Giant Blue Swallowtail, <i>Papilio zalmoxis</i> Hewitson	PAP, Papilioninae	Z
		LR: Blue Pansy, <i>Junonia orithya</i> L.	NYM, Nymphalinae	Z
		UL & UR: Large Striped Swordtail, <i>Graphium antheus</i> Cramer	PAP, Papilioninae	Z
SOLOMON ISLANDS		2017 April 12 (Albrecht Durer) (MS/4) (SLM17103a)		
d	\$10	<i>Lucanus cervus</i> L. ♂	LUC, Lucaninae	A
TOGO		2016 December 29 (Endangered Animals)(MS/4 & SS/1)(TG16619a&b)		
d	850fr	Large Spotted Acraea, <i>Acraea zetes</i> L. (Gambia Sc#404 s-o-s)	NYM, Heliconiinae	B
	SS 3300fr	Veined Swallowtail, <i>Graphium leonidas</i> Fabr. (Gambia Sc#406)	PAP, Papilioninae	Z
		2017 February 28 (Mushrooms) (MS/4 & SS/1) (TG17102a&b)		
b	900fr	22-Spot Ladybird, <i>Psyllobora vigintiduopunctata</i> L.	COC, Coccinellinae	B
	Margin	Top: U/I Damselflies	Odonata	U Z
	SS 3500fr	U/I Caterpillar (with mushroom)	Lepidoptera	U B
	Margin	R: 7-Spotted Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	Z

BULLET ANT

On 31 March 2017, Ecuador issued a set of 16 stamps showing ants, including one showing the Bullet Ant (*Paraponera clavata* Fabr., Formicidae, Paraponerinae). The only species in this subfamily are this ant and two fossil ants.

Found in the rain forests of tropical Central and South America, they form colonies at the base of large trees and spend most of the time foraging in the canopy. They do not tolerate other colonies nearby and often engage in fights with such colonies.

This ant is so named because the sting is said to be the worst of any insect sting and it feels like one has been hit by a bullet.

Poneratoxin, the active ingredient in the venom, is a paralyzing neurotoxic peptide causing intense throbbing pain and burning sensation that can last 24 hours.

Indeed, this ant is known as the 24-hour Ant in Venezuela, and among the Amerindians of Brazil it is known as "one that wounds deeply." For comparison with other stings, the Schmidt's Sting Pain Index ratings run from 0 to 4. Some examples are: Fire Ant = 1, Honeybee = 2, Paper Wasp = 3, Tarantula Hawk Wasp = 4, Bullet Ant = 4+ (the only insect rated higher than 4).

As described in Wikipedia, the Sateré-Mawé people of Brazil use intentional Bullet Ant stings in their initiation rites for youths becoming warriors. They render the ants unconscious by submerging them in a natural sedative and then weave hundreds of them into large gloves made of leaves with the stingers facing inwards.

After the ants regain consciousness, the boy puts on the gloves. He must keep them on for five minutes, after which his hands and arms are temporarily paralyzed and he may shake for days. The only protection is a coating of charcoal on his hands, said to confuse the ants and inhibit their stinging. In order to complete the initiation, the boy must repeat the ordeal twenty times over the course of several months or years. [Ed. note: This is really, really stupid.]



Paraponera clavata
Ecuador, 2017

GIANT SWARM

The largest swarm of insects ever recorded consisted of approximately **12.5 trillion** Rocky Mountain locusts (*Melanoplus spretus*) that flew over Nebraska in 1875. This swarm was estimated to cover 198,000 square miles (an area greater than the size of California) and weigh about 27.5 million tons.

Less than 30 years later, the species was apparently extinct. The last recorded sighting of a live specimen was in 1902 in southern Canada. Because a creature so ubiquitous was not expected to become extinct, very few samples were ever collected (though a few preserved remains have been found in Grasshopper Glacier, Montana). Since the disappearance of this species, North America is now the only continent without a major locust species, apart from Antarctica.

The cause of their extinction is unknown. Biologists have hypothesized that plowing and irrigation by settlers in the Great Plains disrupted their natural life cycle in the areas they lived in between swarms. However, it appears that this species lived and reproduced in the prairie only temporarily during swarming years with each generation being smaller than the previous one and swarming ever further from the Rocky Mountains.



African Locust
Locusta migratoria migratorioides
Ivory Coast, 1979, Sc#519C

FLIGHTLESS FLY

On 2 January 2017, French Southern and Antarctic Territory (FSAT) issued a stamp depicting an endemic fly (*Amalopteryx maritima* Eaton).

This monotypic species is found only in the sub-antarctic islands of the Indian Ocean including the Kerguelen Islands and Crozet Islands of FSAT and Macquarie Island and Heard Island of Australia.

These insects are members of the Order Diptera (true flies), but though they have wings, these are very narrow and the insects are completely unable to fly. This is a condition called brachyptery wherein the wings are very reduced and only partly or non-functional.

This species is found on rocks and moves by jumping when disturbed. Presumably the wings provide some assistance with this locomotion.

Brachyptery is rarely seen in Diptera and for this reason this species is of interest to naturalists. Why would natural selection favor the loss of a structure that is generally attributed with being the key evolutionary innovation leading to the success of the group? This question has intrigued insect systematists ever since Darwin.

An insect species might evolve towards brachyptery in reducing its flight muscles with their associated energy demands, or in avoiding the hazards of flight in windy conditions on oceanic islands, where flying insects are prone to drowning.



Amalopteryx maritima Eaton
FSAT, 2017



PALEONTOLOGY

Editor

Michael Kogan, BU1863

New Listings



Scott#	Denom	Common Name/Scientific Name	Family	Code
CENTRAL AFRICA				
2017 January 16 (Prehistoric Marine Animals) ^[1] (MS/4 & SS/1)				
a	850fr	Killer Sperm Whale, † <i>Zygophyseter</i>	<i>incertae sedis</i>	A
b	850fr	<i>Helicoprion bessonovi</i>	†Helicoprionidae	A
c	850fr	<i>Macroplata tenuiceps</i>	Order: Plesiosauria	A
d	850fr	<i>Atopodentatus unicus</i>	Order: Squamata	A
	SS 3300fr	<i>Ophthalmosaurus</i>	†Ophthalmosauridae	A
	Margin	UR: <i>Helicoprion bessonovi</i>	†Helicoprionidae	Z
		MR: <i>Dunkleosteus terrelli</i> (Cap/Syn: <i>Dinichthys terrelli</i>)	†Dunkleosteidae	Z
		LL: <i>Macroplata tenuiceps</i>	Order: Plesiosauria	Z
		LR: U/I Pliosaur		U Z
2017 January 16 (Dinosaurs) ^[1] (MS/4 & SS/1)				
a	850fr	<i>Deinonychus antirrhopus</i>	†Dromaeosauridae	A
b	850fr	<i>Angustinaripterus longicephalus</i>	†Rhamphorhynchidae	A
c	850fr	<i>Styracosaurus albertensis</i>	†Ceratopsidae	A
d	850fr	<i>Allosaurus fragilis</i>	†Allosauridae	A
	SS 3300fr	<i>Stegosaurus stenops</i>	†Stegosauridae	A
	Margin	UR: <i>Pteranodon longiceps</i>	†Pteranodontidae	Z
		LR: <i>Styracosaurus albertensis</i>	†Ceratopsidae	Z
DJIBOUTI				
2017 January 30 (Dinosaurs) ^[1] (MS/4 & SS/1)				
a	280fr	<i>Iguanodon</i>	Clade: †Hadrosauriformes	A
b	280fr	<i>Spinops sternbergorum</i>	†Ceratopsidae	A
c	280fr	<i>Cryolophosaurus</i>	Clade: †Tetanurae	A
d	280fr	<i>Spinosaurus</i>	†Spinosauridae	A
	Margin	UL: <i>Rapetosaurus</i>	Clade: †Titanosauria	Z
	SS 960fr	<i>Parasaurolophus</i>	†Hadrosauridae	A
	Margin	Bot: <i>Homalocephale</i>	†Pachycephalosauridae	Z
		LR: <i>Edmontosaurus</i>	†Hadrosauridae	Z
		UR: <i>Mononykus</i>	†Alvarezsauridae	Z
2017 March 15 (135th Death anniv. Charles Darwin) ^[1] (MS/4 & SS/1)				
a	240fr	Charles & Emma Darwin		R
b	240fr	Galapagos Land Iguana, <i>Conolophus subcristatus</i> (w/ HMS <i>Beagle</i>)	Iguanidae	R
c	240fr	<i>Homo neanderthalensis</i> (skull) (w/ Darwin)	Hominidae	B
d	240fr	<i>Ceroglossus darwinii</i> (w/ Darwin)	Carabidae	R
	SS 950fr	Charles Darwin (w/ birds) (HMS <i>Beagle</i> in margin)		R
GUINEA BISSAU				
2017 February 27 (Extinct Animals) ^[1] (MS/5 & SS/1)				
a	600fr	Eurasian Cave Lion, <i>Panthera leo spelaea</i>	Felidae	A
b	600fr	Great Auk, <i>Pinguinus impennis</i>	Alcidae	A
c	600fr	Irish Elk, <i>Megaloceros giganteus</i>	Cervidae	A
d	600fr	Woolly Rhinoceros, <i>Coelodonta antiquitatis</i>	Rhinocerotidae	A
e	600fr	Pyrenean Ibex, <i>Capra pyrenaica pyrenaica</i>	Bovidae	A

GUINEA BISSAU (continued)

Margin	UL & UR: Eurasian Cave Lion, <i>Panthera leo spelaea</i>	Felidae	Z
	Top: Irish Elk, <i>Megaloceros giganteus</i>	Cervidae	Z
SS 3000fr	Woolly Mammoth, <i>Mammuthus primigenius</i> (also in R margin)	Elephantidae	A

MOZAMBIQUE**2016 November 10** (Dinosaurs)^[1] (MS/4 & SS/1)

a	100m	<i>Parasaurolophus</i>	†Hadrosauridae	A
b	100m	<i>Tyrannosaurus</i>	†Tyrannosauridae	A
c	100m	<i>Triceratops</i>	†Ceratopsidae	A
d	100m	<i>Muttaborrasaurus</i>	†Rhabdodontidae	A
	SS 350m	<i>Carnotaurus</i>	†Abelisauridae	A
Margin	LL: <i>Tyrannosaurus</i>	†Tyrannosauridae	Z	
	LR: <i>Giganotosaurus</i>	†Carcharodontosauridae	Z	

ST THOMAS & PRINCE IS.**2017 March 13** (Dinosaurs)^[1] (MS/4 & SS/1)

a	31000d	<i>Parasaurolophus</i>	†Hadrosauridae	A
b	31000d	<i>Stegosaurus</i>	†Stegosauridae	A
c	31000d	<i>Triceratops</i>	†Ceratopsidae	A
d	31000d	<i>Tyrannosaurus</i>	†Tyrannosauridae	A
	SS 124000d	<i>Hadrosaurus</i>	†Hadrosauridae	A
Margin	UR: <i>Parasaurolophus</i>	†Hadrosauridae	Z	
	LR: <i>Triceratops</i>	†Ceratopsidae	Z	

SLOVENIA**2017 March 17** (Mammal Fossils of Slovenia: Cave Lion) (Single)

65c	Jaw of Cave Lion, <i>Panthera leo spelaea</i>	Felidae	A
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TOGO**2016 December 29** (Prehistoric Water Animals)^[1] (MS/4 & SS/1)

a	850fr	<i>Archelon ischyros</i>	†Protostegidae	A
b	850fr	<i>Ichthyosaurus</i>	†Ichthyosauridae	A
c	850fr	<i>Dakosaurus</i>	†Metriorhynchidae	A
d	850fr	<i>Liopleurodon ferox</i>	†Pliosauridae	A
Margin	UL & LL: Ammonites		U Z	
	SS 3300fr	<i>Elasmosaurus</i>	†Elasmosauridae	A
Margin	R: <i>Tylosaurus</i>	†Tylosauridae	Z	

2017 February 28 (Dinosaurs)^[1] (MS/4 & SS/1)

a	900fr	<i>Giganotosaurus carolinii</i>	†Carcharodontosauridae	A
b	900fr	<i>Torvosaurus gurneyi</i>	†Megalosauridae	A
c	900fr	<i>Velociraptor mongoliensis</i>	†Dromaeosauridae	A
d	900fr	<i>Maiasaura peeblesorum</i>	†Hadrosauridae	A
Margin	UL & Top: U/I Pterosaur		U Z	
	UR: <i>Rhamphorhynchus</i>	†Rhamphorhynchidae	Z	
	SS 3500fr	<i>Ankylosaurus magniventris</i>	†Ankylosauridae	A
Margin	Top: <i>Giganotosaurus carolinii</i>	†Carcharodontosauridae	Z	
	LR: <i>Velociraptor mongoliensis</i>	†Dromaeosauridae	Z	

Personalized Issue**AZERBAIJAN****2017 April 24** (Dinosaurs)

Stamperija, a well-known stamp producer for countries such as Togo, Guinea, Saint Thomas, etc., issued several MS with fauna personalized stamps of Azerbaijan. Two of these sheets show some dinosaurs on them.

Commemorative Postmarks**ITALY****2017 March 30** (Altamura Man)

This commemorative postmark shows a reconstruction of its famous find made by Kennis & Kennis.

Future Issues

2017.05.02: Australia: “Caves.” One of the stamps shows Cliefden cave. The Cliefden Caves Geoheritage Site is multifaceted, containing internationally significant **Ordovician fossil localities**, limestone caves of national significance, a warm spring and tufa dams of state significance, and the historically significant site where limestone was first discovered in inland Australia. It has been ranked among the 70 most significant fossil sites in Australia by the Australian Heritage Council and as the thirteenth most significant limestone cave site in Australia by Davey. The site was nominated to the Register of the National Estate by the Geological Society of Australia in the late 1970s and registered in 1987. (Wikipedia)

2017.05.19: China (People’s Republic): “Dinosaurs,” five stamps and a booklet

2017.06.14: Great Britain (Jersey): Durrell and the Darwin Initiative. Charles Darwin depicted on Souvenir Sheet

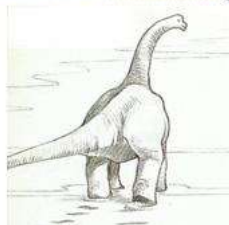
2017.??.??: South Africa: “Homo Naledi” (an extinct hominin species that anthropologists first described in 2015)

Notes:

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

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

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



<http://www.paleophilatelie.eu>

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

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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-filatelista.blogspot.com/>

Tree of Life Web Project. Worldwide collaborative effort to map the genome of every organism on earth and to establish their relationships to one another.

<http://www.tolweb.org/tree>

Zip Code Zoo. Links to taxonomic identification for all areas of biology including both zoology and botany. They claim to have a page for every living species with photos for many.

<http://zipcodezoo.com/>

BOTANY

Fungal Biodiversity 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/>

Paleophilately. 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.paleophilately.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 selva
Wr*	Head wreath (or chaplet)	*	Subject depicted in natural colors

Acronyms and Abbreviations:

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

Entomology Family Abbreviations:

ACR	Acrididae	AES	Aeshnidae	AND	Andrenidae
ANO	Anobiidae	ANT	Anthicidae	API	Apinae
ARC	Arctiidae	BEL	Belostomatidae	BLA	Blattidae
BRA	Brahmaeidae	BRAC	Braconidae	BUP	Buprestidae
CAL	Calopterygidae	CAN	Cantharidae	CAR	Carabidae
CAS	Castniidae	CER	Cerambycidae	CHR	Chrysomelidae
CHRY	Chrysopidae	CIC	Cicadellidae	CICA	Cicadidae
COC	Coccinellidae	COE	Coenagrionidae	COR	Corydalidae
CORD	Cordulegastridae	CORE	Coreidae	COS	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	Phylliidae
PIE	Pieridae	PLU	Plutellidae	POM	Pompilidae
PSY	Psychodidae	PTE	Pterophoridae	PYR	Pyralidae
PYRG	Pyrgomorphidae	RAP	Rhaphidophoridae	RED	Reduviidae
RIO	Riodinidae	ROM	Romaleidae	SAR	Sarcophagidae
SAT	Saturniidae	SCA	Scarabaeidae	SCO	Scoliidae
SCU	Scutelleridae	SES	Sesiidae	SIL	Silphidae
SIM	Simuliidae	SIR	Siricidae	SPH	Sphingidae
SPHE	Sphecidae	STA	Staphylinidae	SYR	Syrphidae
TAB	Tabanidae	TEN	Tenebrionidae	TEP	Tephritidae
TET	Tettigoniidae	TIP	Tipulidae	TOR	Tortricidae
TRI	Trichogrammatidae	URA	Uraniidae	VES	Vespidae
YPO	Yponomeutidae	ZYG	Zygaenidae		

BIOLOGY UNIT
of the
AMERICAN TOPICAL ASSOCIATION



2017 ELECTION BALLOT

Please mark your selections for the Biology Unit officer positions indicated below. Return your completed ballot to the Unit Secretary, Christopher E. Dahle, at either address indicated below, to arrive **not later than 15 July 2017**.

Please mark your ballot in accordance with the instructions. We will not count votes for positions that contain more than the required number of selections. For example, if the instructions indicate to vote for only ONE candidate, but the ballot has markings for more than one, we will **not** count the vote for that position. We **will** count votes for any other positions that have the correct number of markings. You do not have to vote for every position. We will count only the votes for those positions you mark.

PRESIDENT (Vote for ONE only.)

- LAURIE J. RYAN (Cincinnati, Ohio)

VICE-PRESIDENT (Vote for ONE only.)

- GLENN G. MERTZ (Allentown, Pennsylvania)

SECRETARY-TREASURER (Vote for ONE only.)

- CHRISTOPHER E. DAHLE (Cedar Rapids, Iowa)

DIRECTOR (Vote for not more than FOUR.)

- JACK R. CONGROVE (Fort Lewis, Washington)
 JOHN PEREIRA (New Bedford, Massachusetts)
 FREDERICK C. SKVARA (Bridgewater, New Jersey)
 DONALD P. WRIGHT, JR. (Pennington, New Jersey)

Return printed ballots to: Christopher E. Dahle, 1401 Linmar Drive NE, Cedar Rapids, IA 52402

E-mail electronic copies to: chris-dahle@biophilately.org