

BIOPHILATELY

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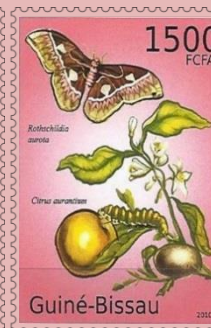
Butterfly Bars (The New Protein Diet)



Vic Eichler

Frog Early Development

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.

Back copies of *Biophilately* are available from the Librarian. Copies of separate articles are available at a charge six cents per page. 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. 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 May 2016.

FROM THE EDITOR'S DESK

As the Biology Unit begins its 65th year, you hold herewith the latest in an unbroken string of published volumes of the Unit journal. In addition to our regular columns on new issues, this edition contains major articles on botany, amphibians, paleontology, and entomology. There are also smaller articles on fungi, fish, turtles, and birds.

Our cover story is an article from long-time contributor Vladimir Kachan on entomophagy, which is the human consumption of insects as food. Though it is rare in in so-called developed nations, more than a thousand different species of insects are known to be eaten in about 80 percent of the world's countries. Mikey likes it!

We would like to continue to publish articles on as wide a variety of biological subjects as possible, but our inbox is getting bare.

In that regard, I wish to solicit the help of all our readers to fill this publication need. Please send me an article on any topic of your choosing that relates to our biology theme. Perhaps you could write about a particular stamp that you find inspiring or important. Maybe you have a fondness for a particular flower or animal.

This is easy. All I need are your written thoughts and I will supply the editing, grammar, and appropriate images. Drop me a line today (jackcongrove@comcast.net).

This year US stamp collectors are extremely fortunate that the decennial World Stamp Show held in this country will be in New York City beginning at the end of May. NY 2016 will be an eight day show hosted at the Javits Convention Center in Manhattan on 28 May through 4 June. Few collectors have experienced a show of this size, which will include 200 dealers, 4,000 frames of exhibits, multiple first day ceremonies by the US and other nations, auctions, seminars on too many subjects to list, and other activities for all levels of collectors.

Even if you can only attend for a day or two, I am sure it will be worth your time and effort. The American Topical Association will have a booth at the show and the Biology Unit will be helping to support it with volunteers. Also, I and others of the Unit will be volunteering at Stamp Buddy and other functions, so look us up when you are there. If you would like to volunteer at the ATA booth, please contact Chris Dahle (chris-dahle@biophilately.org).

Those of you who receive copies of *Biophilately* by mail may have noticed that the December edition was franked with a variety of biology related stamps. Our Publisher, Dick Roman, asked me to pass along thanks to Eastern Shore Stamp Company, a long time advertiser, and Stamp Smith, a recent advertiser for the discount postage.

Each dealer supplied around \$240 in older, biology related stamps at discount prices of \$200. In addition, Terry L. Jordan (BU1743) sent Dick several envelopes full of older US adhesive stamps that helped offset our mailing costs. The Unit Board of Directors appreciates their donation and effort and hopes that mail recipients do as well.

Spring is right around the corner. I hope all of you have an enjoyable season as the blossoms peek out from the snow in some places.

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

PRESIDENT'S MESSAGE

Greetings from Ontario! Since it is now into February, it is a bit late to wish all members a Happy New Year, but as we are almost snow free, I guess it is appropriate.

The ATA show in 1988 was to be held in Toronto, Ontario, in conjunction with the first Annual show and bourse of the Canadian Stamp Dealers Association. This was a good show location for me, as the town of Aurora, where I live, is on Yonge Street, which starts in Toronto and extends north to the Holland Marsh, passing through Aurora on the way! For many years it bore the soubriquet of "The World's Longest Highway," but this is incorrect, as it becomes Highway 11 north of the Marsh and various extensions eventually reach Rainy River, close to the Minnesota border.

The show programme had a picture of Toronto's first post office, run by a Mr. Howard, serving the 9000 citizens of the city and there was no home delivery. Every three months, Howard published an advertisement in the local press listing citizens who had mail to pick up. Over the years, the building became decrepit, but was rescued during a period of reconstruction and serves as a post office to this day.

There were 145 frames of thematic material to be judged by a panel consisting of Mary Ann Owens, Stephen Luster and Irving Weinberg, with the apprentice judges John O. Griffiths, Frank Alusio from Toronto, and Ingeburg Fisher. There were three gold awards: "Buzz" (Bees, Beekeeping & Honey); "Alternate Lifestyles of Famous People," and "The Panama Canal Story." Unfortunately, I cannot remember which exhibit came out on top.

One thing that has always puzzled me is why topical or thematic collecting does not seem very popular north of the border, except at local club shows, although a fair number of thematic exhibits may be found at the larger shows in Canada. This was illustrated by the fact that on the night of the Awards Banquet, the C.S.D.A. put on a fairly large auction, which took away many people who would probably have attended the banquet and resulted in some financial difficulty.

Another odd occurrence was from one of the exhibitors, whose entry, titled "The Virgin Mary—A Life and Role in History," did not get a high award. The exhibitor (female) raised a big fuss at the critique on the fact that an exhibit on such an important subject should get such a low award and it took quite an effort on the part of Mary Ann Owens and myself to get her calmed down. We must have made an impression, as she was among the judges at a much later show.

I contributed a piece to the programme titled "Why I Collect Thematics," in which I challenged any collector who has a "country" exhibit to try a thematic! It can be rewarding to do both.

Until next time...

Alan J. Hanks

HAPPY BIRTHDAY

Don Wright, our Associate Editor for Entomology, sent along an image of a recent birthday card.

"Here's about the funniest birthday card I ever received, although maybe only an entomologist would really appreciate it."

The designer of the cartoon is Tim Whyatt and it was published by Sellers Publishing, Inc., of South Portland, Maine.



SECRETARY-TREASURER'S CORNER

ANNUAL BIOLOGY UNIT MEETING

There were no new members during the last quarter. Thank you to all who have renewed your membership dues for 2016. If you have not done so yet, please do so now (\$20 for U.S. and Canada by mail, \$15 for the web version).

Many thanks to those members who have made a donation to the Unit. I plan to publish a list of donors in the next issue of *Biophilately*.

I am in the process of changing my email address. At some point I will be sending out an email blast to everyone on my contact list. You can use *chris-dahle@biophilately.org*, or *cdahle8@gmail.com* to reach me.

WORLD STAMP SHOW-NY 2016

The Biology Unit will share a booth at the World Stamp Show-NY 2016 from May 28 to June 4 at the Javits Center in New York City. I contacted some of our members by email, and several of them have responded already. We are looking for volunteers to staff the booth for one hour each day of the show. Please let the Secretary know if you will be attending the show, which days you plan to be there, and what time slots you might be available. There are lots of seminars and meetings planned each day. Even if you are unsure if or when you might attend, sharing some time at the booth will be appreciated, and you can stop by while you are there and volunteer at that time.

NEW MEMBERS

There are no new members to report for this quarter. The Biology topic is wide-ranging and immensely popular. It is likely that someone in your local club is a collector of something related to zoology or botany. Sign them up for membership. That way there will be some names to place in this section next time and they will benefit from the exchange of information in our journal.

**ANIMALS; DOGS & CATS; HORSES; INSECTS; BUGS
BUTTERFLIES; MALARIA; FLOWERS & PLANTS; ORCHIDS
MUSHROOMS; MARINE LIFE; FISH; TURTLES; REPTILES
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NEWS OF NOTE

THIS DAY IN HISTORY

Each day, the Mystic Stamp Company publishes an article pertaining to a significant historical event that happened on that day and uses philatelic material to illustrate it. You can subscribe to these articles and receive a link via e-mail each day, or check them out on their website (www.mysticstamp.com).

These articles deal with all kinds of subjects and some of them relate to the Biology topic. The article for 17 January 2016 is an example. It describes the establishment of the National Forest System's only tropical rain forest located in Puerto Rico (<https://www.mysticstamp.com/info/this-day-in-history-january-17-1903/>).

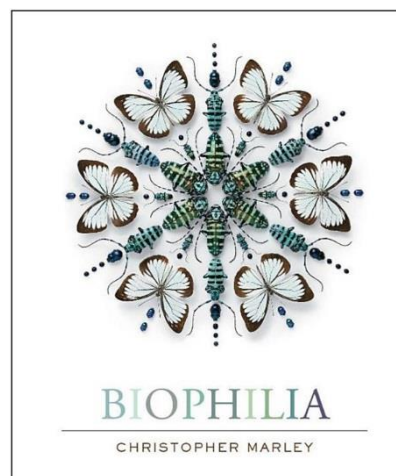
Each article is illustrated with images of stamps that pertain to the subject and have well researched commentary. Not only are these articles interesting reading, but they also would be helpful in researching information for exhibits.

Mystic has been in business more than 90 years and is one of the largest stamp dealers in the United States.

BIOLOGY RELATED ART BOOK

Dick Roman reports that he received a recommendation from Amazon for a book that perhaps might be of interest to many of our readers. *Biophilia*, by Christopher Marley, contains some beautiful artwork. To quote from the literary description,

“Christopher Marley’s art expresses his passionate engagement with the beautiful forms of nature. Beginning with insects and moving on to aquatic life, reptiles, birds, plants, and minerals, Marley has used his skills as a designer, conservator, taxidermist, and environmentally responsible collector to make images and mosaics that produce strong, positive emotional responses in viewers. Marley has a brilliant eye for color and pattern in different natural objects, and he expertly captures the deep relationships among them. *Biophilia* (literally, “love of living things”) is a must-have for nature lovers, designers, artists, craftspeople, and anyone looking for visual inspiration in the arts.”



NEW BUTTERFLY & MOTH CHECKLIST

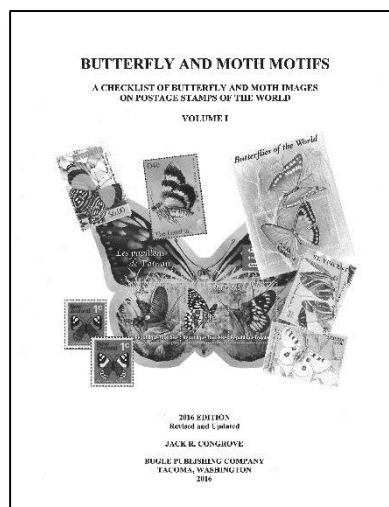
The 2016 edition of *Butterfly and Moth Motifs* is now available. This expanded two-volume reference is the tenth edition of this popular checklist. Altogether it contains almost 20,000 entries.

The butterfly topic continues to be very popular among collectors and stamp issuing authorities are taking full advantage of this to produce great varieties of stamps and souvenir sheets with this theme. This checklist contains a more extensive listing than those found in any other single reference.

It has a country-by-country list of postage stamps with butterfly and moth designs. It includes entries for all identifiable lepidopteran species, as well as stylized designs and drawings.

In addition, it includes an updated systematic listing that incorporates recent taxonomic revisions based on advances in DNA testing.

The cost for this spiral-bound edition is \$50 for US orders. Please inquire about shipping cost for International orders. To obtain a copy, send a check or money order payable to Jack Congrove, c/o Bugle Publishing Company, 5808 – 65th Avenue West, Tacoma, WA 98467. Sorry, credit card orders cannot be accepted.



FROG EARLY DEVELOPMENT ON STAMPS

Dr. Vic Eichler, BU1850

Early development of anuran amphibians involves three distinct periods before they undergo the metamorphic changes that result in the four-limbed and sexually mature frogs and toads. These stages are represented by: (1) the eggs laid by the female and fertilized by the male, (2) the developing embryo within the egg membranes and often a surrounding jelly mass, and (3) the developing larvae preparing for the transition from the aquatic, vegetarian, gill-breathing tadpole swimming free with the aid of a tail to the carnivorous, lung-breathing, tailless froglet that will be more-or-less semi-terrestrial, depending on species.

The early development of frogs is an interesting subject because there are so many specific modifications that different species utilize not only in developmental pattern, but also in parental behavior of eggs and young. Many people would be surprised that an animal considered quite primitive would actually have parental behavior.

Almost all of the more than 1200 stamps listed in ATA Handbook 165 show illustrations of adult amphibians, but a handful actually show the earlier developmental stages listed above. This article will highlight stamps from several countries that show eggs, or various forms of tadpoles.

Frog Eggs on Stamps

The protection afforded by male **Midwife Toads** of the genus *Alytes* has been well documented, and is illustrated on stamps from two countries: Spain (*Alytes obstetricans*) and Great Britain's Jersey Island (*Alytes muletensis*). In both of these species after the eggs are laid, the male gathers them up between his hind legs for protection, and to keep them moist by moving them to the water when they become too dry.



Alytes obstetricans
Spain, 1975, Sc#1900



Alytes muletensis
Jersey, 1997, Sc#806

These stamps from Liechtenstein and the Netherlands show frogs with eggs.



Rana esculenta
Liechtenstein, 1974, Sc#538



Surrounded by eggs
Netherlands, 1976, Sc#B520

A mass of eggs and several tadpoles are seen at lower left corner of this sheet from Tanzania that illustrates a large Goliath frog overlapping the stamp onto the selvage area.



Development Sequence
St. Thomas & Prince, 2008, Sc#1822



Conraua goliath
Tanzania, 1996, Sc#1460

Eggs and developmental sequence of tadpoles appear at bottom of this mini-sheet from St. Thomas & Prince.

Tadpoles on Stamps

Very few countries illustrate the frog larval stages, commonly known as tadpoles, on their stamps, but they do have a prominent place on a joined series of stamps issued on 1 June 2013 by the People's Republic of China.



The stamps, issued in a sheet of 20 with five separate images (Sc#4114a–e) and in a booklet pane of five (Sc#4114f), show tadpoles swimming among other aquatic animals. The designs are from a drawing by the artist Qi Baishi (1864–1957).

Tadpoles adorn another painting by Qi Baishi titled “Mountain Stream Waterfall With Tadpoles” on a tall stamp issued by the People's Republic of China on 15 January 1980



Tadpoles with goldfish
China P.R., 2013, Sc#4114b



Tadpoles in mountain spring
China P.R., 1980, Sc#1560

Grenada Grenadines issued a special 150th anniversary sheet honoring Qi Baishi in 2014. Apparently this great Chinese artist was fond of frogs and tadpoles.



Tadpoles with frog
Grenada Grenadines, 2014, unlisted

The central label of this 1992 miniature sheet from the People's Democratic Republic of Korea illustrates well the transitional stages from the small tadpole through the acquisition of the legs and loss of the tail.



Tadpole transition
Korea (North), 1992, Sc#3142a

MILESTONES OF PALEO-PHILATELY

Michael Kogan, BU1863

[Ed. Note: This article is the final section of a three-part commentary on the history of stamp issues depicting Paleontology subjects by Michael Kogan, our Associate Editor for Paleontology and the creator of the Paleophilatelie website (www.paleophilatelie.eu).]

Souvenir Sheets

The first miniature sheets (or souvenir sheets) were issued before World War II, usually with a surtax to raise funds for a charity rather than for sale to collectors. They became more of a collector's item with pictorial issues around 1970.

In 1971, Manama issued the first stamp set including a miniature sheet with a prehistoric animal.



Miniature Sheet showing a Woolly Mammoth (*Elephas primigenius*)
Manama, 1971, TS#746

The set contains eight stamps showing various prehistoric animals, mostly dinosaurs, and a miniature sheet with a mammoth on a 10-riyal stamp along with some other prehistoric animals on the margin.

The animal depicted on the stamp is a woolly mammoth (*Elephas primigenius*), a species that lived during the Pleistocene epoch from 2.588 million years ago (MYA) to 11,700 years ago, and was one of the last in the line of mammoth species.

From the 1960s until the end of the 1980s, some small Middle Eastern countries (called “Sand Dunes” by philatelists) produced stamps in huge quantities for every popular topic: space, sports, famous people, etc. These stamps were aimed at stamp collectors rather than postal use and usually were never available in the country of origin to actually use on letters as postage. One such set is from Fujaira (1968).



Prehistoric animals were not really popular stamp subjects in those days. Most stamps depicting prehistoric animals were issued after 1993, when the famous *Jurassic Park* film led to huge public interest in dinosaurs. There are not many paleontology related stamps in this category.



State of Oman, 1980, unl

One of the most beautiful souvenir sheets depicting prehistoric animals, issued by the United States on 1 May 1997, shows a painting by the famous American paleo-artist, James Gurney, author of *Dinotopia*.

Distinguished from many artists who create very rough images of prehistoric creatures, Mr. Gurney worked very closely with leading paleontologists in order to create accurate reconstructions.

One of the scientific advisers with whom Gurney consulted was prominent American paleontologist Jack Horner.

Horner's discoveries have significantly advanced the world's knowledge of dinosaurs. The scientist also served as a consultant for the Steven Spielberg films *Jurassic Park* and *The Lost World*.

The World of Dinosaurs stamps were rushed for issue on 1 May, to coincide with the release of the Steven Spielberg sequel to *Jurassic Park*, *The Lost World*.

This blockbuster movie thrilled audiences with its lifelike depiction of dinosaurs.

On 10 September 1980, the first unofficial/illegal stamps with prehistoric animals appeared on the market.

These stamps, issued under the names "State of Oman" and "Dhufar," are considered illegal because they were issued by some rebel groups and used to raise funds.

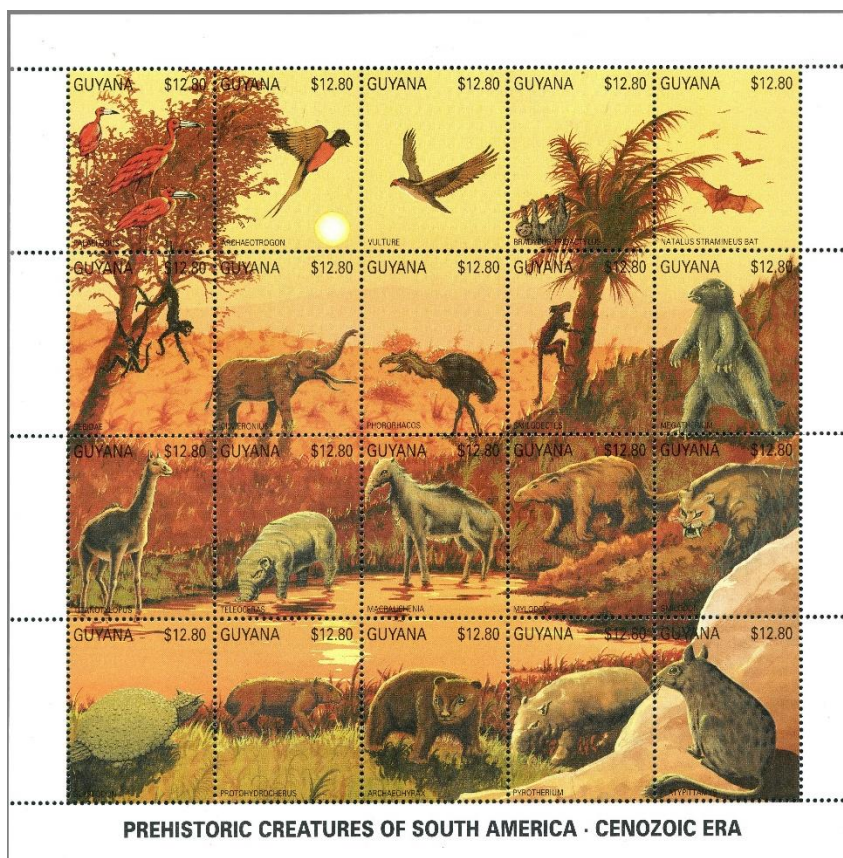
Since then many companies and individuals have printed stamps depicting various prehistoric animals, mostly dinosaurs, using the names of non-existent countries to make money from inexperienced collectors.

One of the first sets of illegal stamps issued by the "State of Oman" shows a mixture of prehistoric animals:

Traditionally stamps were printed in sheets of several identical pieces. To increase sales, some postal authorities started to produce stamp sets on sheets. Such sheets were usually designed as a big picture composed of many different stamps.

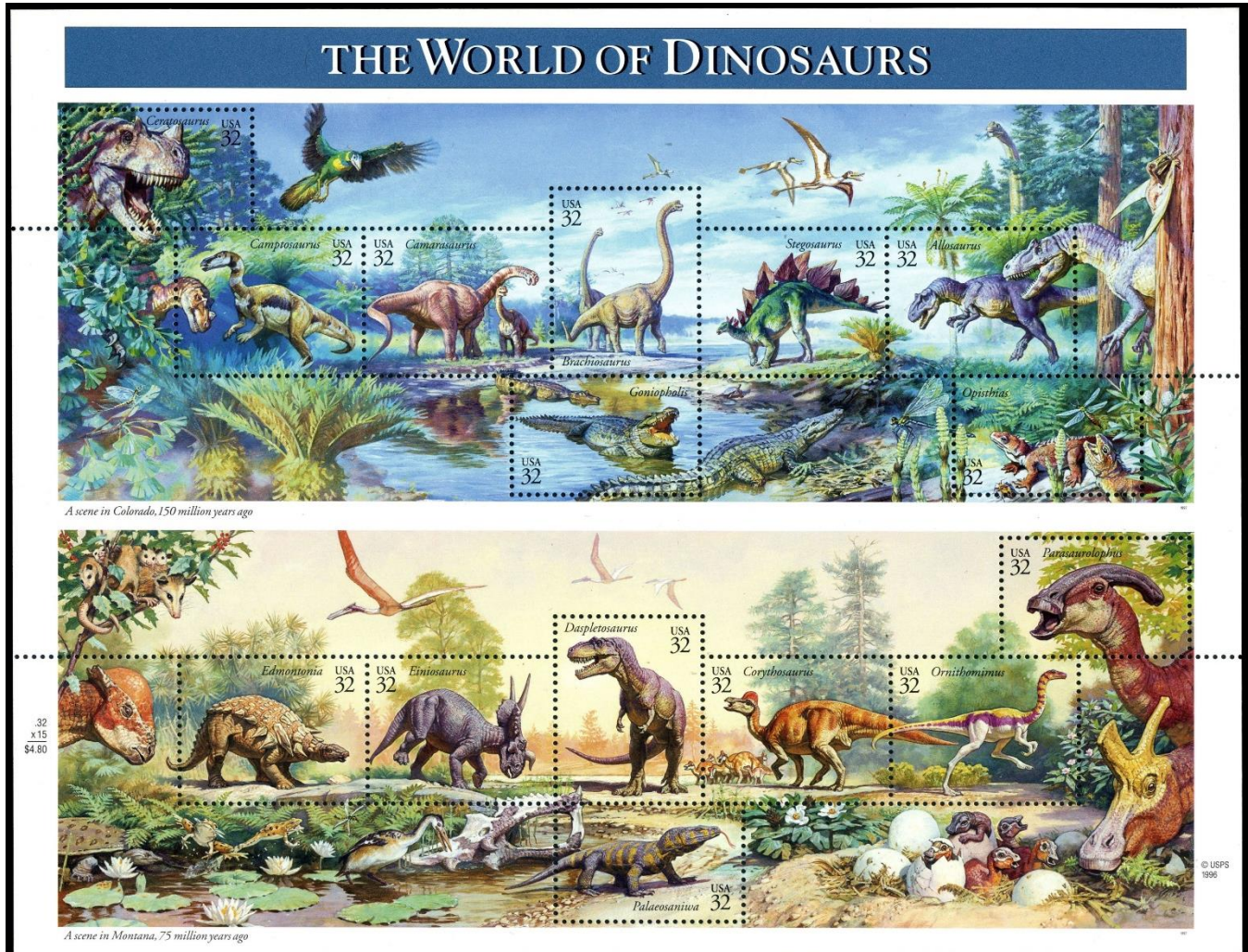
The first sheet like this with a prehistoric theme was issued on 6 November 1990 by the South American country of Guyana. It contained twenty different stamps depicting South American prehistoric animals.

On one hand, it is nice to have a whole picture, but on the other hand, these occupy a large space in an album and are not useful for non-philatelist customers.



Guyana, 1990, Sc#2378

The First Day of Issue ceremony for the stamps was held at the Dinosaur Valley Museum in Grand Junction, Colorado, located in the heart of the world-famous "Dinosaur Triangle." This area, which extends from western Colorado to northeastern Utah, has produced a wealth of dinosaur excavation sites.



The World of Dinosaurs, United States, 1997, Sc#3136

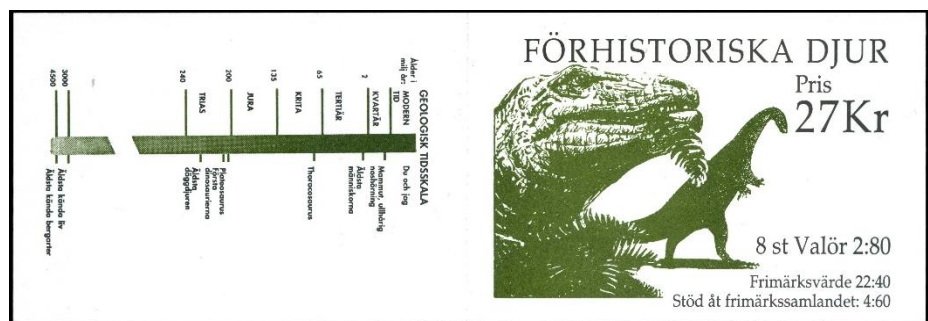
The upper part of the sheet shows some scenes of Colorado 150 MYA. The lower part shows life in Montana 75 MYA.

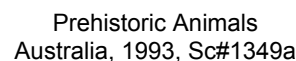
Booklets

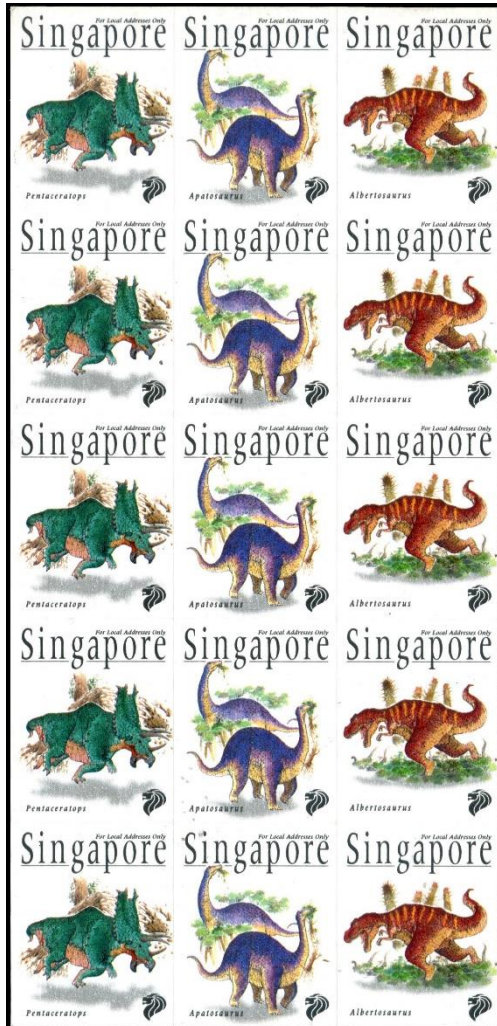
Another way to sell many stamps at once is in stamp booklets, widely accepted in many countries of the world. The first booklet with fossils was issued in Thailand on 1 January 1992. The booklet contains five mint stamps showing a dinosaur excavation and dinosaur skeletons. These stamps are part of set of four stamps dedicated to centenary of the Thai Department of Mineral Resources.



*Locating Fossils
Thailand, 1992, Sc#1430*





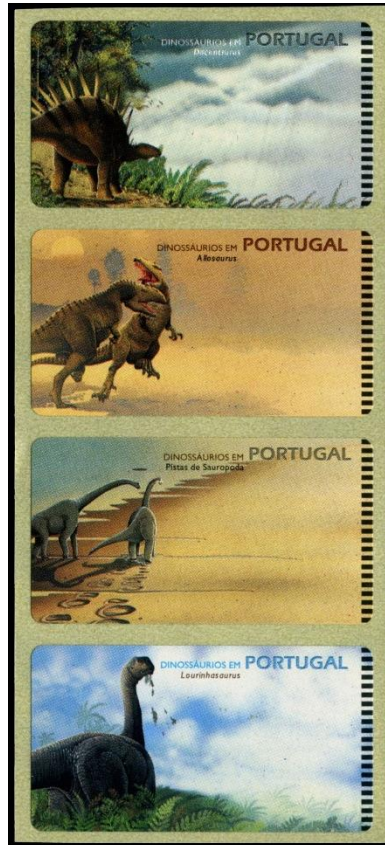


Dinosaur ATM Stamps
Singapore, 1998, Sc#831-33

The first postage stamps had no perforations at all. Postal clerks had to cut them with scissors from the stamp sheets. Nowadays, stamps used for postage are perforated to enable easy and quick separation from a sheet or booklet.

Usually perforations are uniform, but in recent years some postal authorities have created perforations in odd forms to prevent imitation of their stamps.

On 5 August 2010, Korean Post issued a stamp set titled "The Age of Dinosaurs Series Stamps (1st)" with perforations in the shape of a dinosaur.



Dinosaur Frama Labels
Portugal, 1999, unlisted

Special Effects

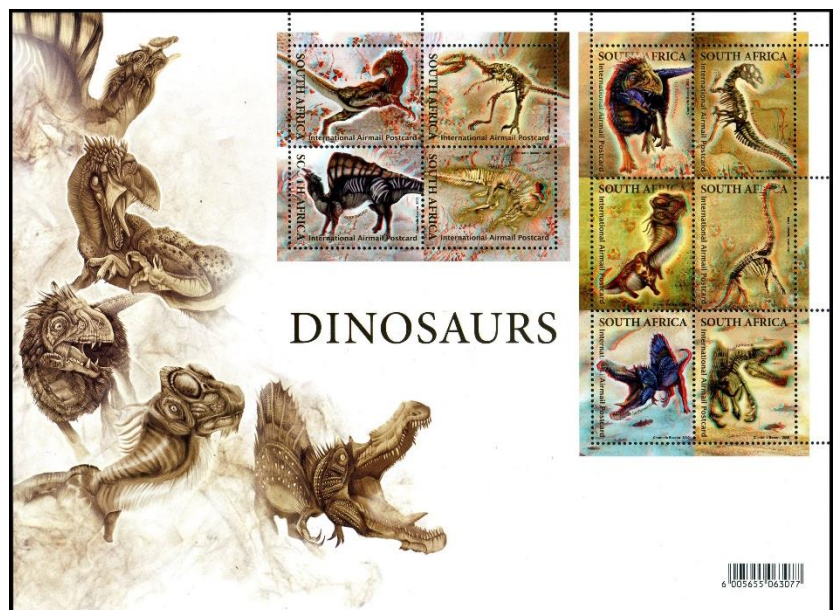
The first three-dimensional (3D) stamps showing dinosaurs and their fossils were issued in a souvenir sheet of ten by South Africa on 2 November 2009.

The South African Post Office combined pre-history with modern technology by using the anaglyph method to create a 3D effect.

This set of stamps is the first ever with a 3D effect to be issued by the South African Post Office and are the first dinosaur stamps with 3D effect.

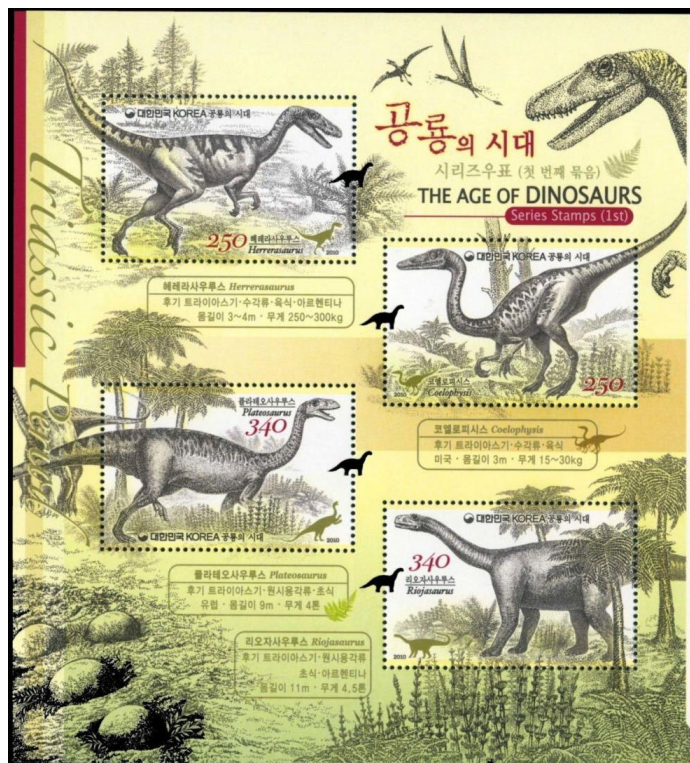
An anaglyph is a stereo image that requires special glasses with red and green (or blue) lenses for 3D viewing. To achieve the effect, two views of a picture are printed in two colors, usually red for the left eye and blue or green for the right eye.

Five of the stamps depict skeletons of different types of dinosaurs, while the other five stamps show images of what scientists believe these creatures most probably looked like. All the dinosaurs depicted on the stamps have an African connection.



Dinosaur 3D Stamps
with viewing glasses
S. Africa, 2009, unlisted





Dinosaur-shaped Perforations
South Korea, 2010, Sc#2340



Odd-shaped Perforations
Switzerland, 2015, Sc#1559

On 5 March 2015, post of Switzerland issues the first stamp of prehistoric animal (Ammonite) with odd shaped perforations along the image:

On 5 June 2012, the Post Authority of Turkey issued a mini-sheet of four stamps titled “World Environment Day (Dinosaurs).” Additionally, there is a souvenir book with one more plastic lenticular (3D hologram) stamp and several post cards.

The lenticular stamp shows a running T-Rex and is the first lenticular stamp to depict a dinosaur. Even though it sold with the booklet only, it is a valid stamp and can be used for postage.



Lenticular Stamp
Turkey, 2012, Note

On 20 February 2014, Post of Hong Kong issued a set of six special stamps of “Chinese Dinosaurs” printed with a luminous effect that makes the unique features of the Chinese dinosaurs glow in the dark.



Luminous Stamps
Hong Kong, 2014, Sc#1630a

References:

http://www.paleophilatelie.eu/stamps_milestones.html

<http://www.stampedout.nl/code/histframe.html>

<https://en.wikipedia.org>

ANOTHER BONE

[Ed. note: I received a response from Director Fred Skvara regarding the previous part of Michael Kogan's article.]

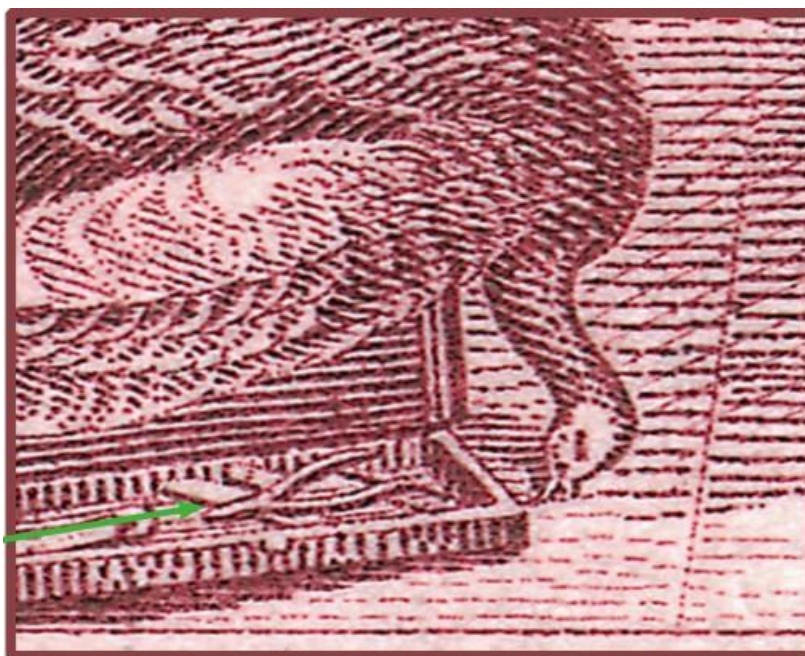
Hi Jack,

I thoroughly enjoy the issues of *Biophilately*. Your inclusion of articles in addition to the checklists is really welcome and I think that many of our members will enjoy them no matter what their biology subtopic. They read well.

In “Milestones of Paleo-Philately,” by Michael Kogan in the December 2015 issue, he mentions the mastodon bone and a turkey to be stuffed in the 1955 United States commemorative showing Charles Wilson Peale in his museum. There is another bone depicted in the stamp and I have included a blowup of the case in the lower left of the stamp showing a turkey furcula.

Regards,
Fred Skvara

Among the items in the case is a furcula from a turkey, the fused clavicles which form the V-shaped bone (wishbone) that lies between the neck and breast in birds.



BUTTERFLIES AND MOTHS AS FOOD FOR MAN

Vladimir Kachan, Belarus

The eggs, larvae, pupae, and adults of certain species of butterflies and moths have been eaten by man since prehistoric times and continue to be an item of the human diet in modern times. Human butterfly and moth eating is common to cultures in most parts of the world. Today butterfly and moth consumption is rare in the developed world, but remains a popular food in many developing regions of Latin America, Africa, Asia, and Oceania.

Larvae of some species of butterflies and moths serve as food for many ethnic groups around the world. They are often prepared charcoaled in salty water or, in some cases, fried or mixed with other food. These insects contribute a great amount of energy and protein to indigenous diets.

Nutrition

Lepidoptera comprise a major order with species of about eighty genera in twenty families used as food around the world. Some 23 species of butterfly and moth caterpillars have been analyzed by nutritionists who found that their crude protein content averaged more than 63 percent, compared to the meager 18 percent for beef.

The calorie count was about the same—200 to 300 calories per hundred grams for beef, depending on the fat level, and 265 calories for moth larvae. But, where beef contained about 58 percent water, the caterpillars came in at a dry four percent.

Asian Cuisine

In Thailand, China, Vietnam, India, Korea, Japan, and other Asian countries where there was a silk industry, cocoons of the silkworm moth were collected and sold commercially and the pupae boiled, steamed, baked, fried, or roasted, depending on locality and individual preference.

In China they are pickled with salt, or softened with water and fried with chicken eggs in an omelet, or simply fried with diced onion and a thick sauce. In Thailand, in 1987, the Thai Ministry of Public Health included silkworm pupae on a list of local foods that could be used in supplementary food formula developed for malnourished infants and pre-school children. They are fried and ground into a coarse powder that is then added to curries and soups.

In Vietnam, they are boiled with cabbage, seasoned, and served as a soup. From South Korea, they are exported in tins and sold in Asian groceries as far away as the United States. They may also be dried in the sun, preserving them for later use.

Today countries with silkworm farms stretch from Asia to Italy. But a few hundred years ago, the silkworm center was in China, where, according to Marco Polo, the pupae were sold in the markets of Hangzhou, the capital of China during the Middle Ages. The silkworm chrysalis is known in China as an excellent stomach medicine, both fortifying and refreshing, and often a successful remedy for those in poor health.

African Delicacy

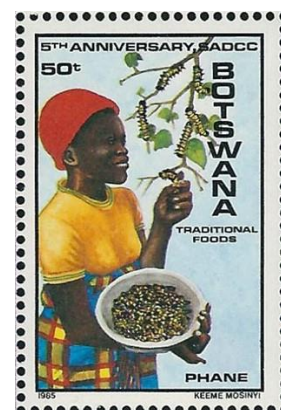
In some areas of Africa, the large, spiny mopane worms (caterpillars of the *Gonimbrasia belina* moth) are so popular that when they are in season, crawling all over village and jungle trees, the sale of beef and other protein meats is seriously affected.

The caterpillars are found mainly in the bushveld from Mozambique and Zimbabwe to Namibia and South Africa, where village women collect them in the early spring, often popping one into their mouth after deftly pinching out the pungent-smelling insides.

Later, the women stew them with tomato, onion, and a wild spinach-like green, or fry them, then sprinkle them with salt and lemon juice. Leftover mopane may be dried in the sun. Any way they are prepared, South African government researchers claim that just twenty of the protein-rich caterpillars will satisfy an adult male's entire daily requirement for calcium, phosphorus, riboflavin, and iron.



Silkworm Cocoon
Turkey, 1989, Sc#B227



Mopane Worms
Botswana, 1985, Sc#362

Some African species in the larval stage are preserved by pickling and are then exported to European cities. In Paris, France, for example, they are offered in the market of Rue Mouffetard in the Latin neighborhood. These are sold in huge fiber baskets, and can be seen in the street markets in several localities for sale on different days of the week. They are mostly bought by immigrants in those countries.

Australian Moth Meat

Australian aborigines feasted on Bogong moths (*Agrotis infusa*) harvesting them in large numbers during the winter months from the caves and crevices of the Bogong High Plains.

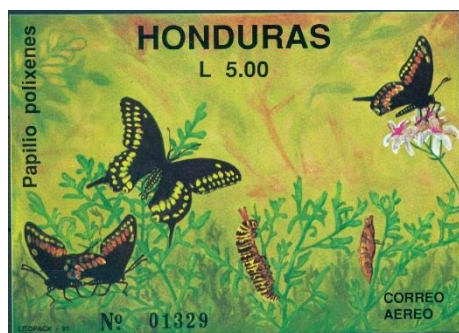
They roasted the moths in hot ashes where their legs and wings fully burn. Then they sieve them through a mesh to eliminate the moth heads. The resulting mass is kneaded and molded into pellets that are fried in an open flame, or the moths milled into a powder that is diluted with water until obtaining a kind of cookie dough.

American Entomophagy

In the Cascade and Sierra Mountains of North America, Indian tribesmen harvested the large caterpillars of the moth *Coloradia pandora*. The full grown caterpillars measure from two to two-and-one-half inches in length and are as fat as an index finger.

Normally, these caterpillars live on the pine trees, far out of reach, but in order to pass into the pupal stage they descend in great numbers to burrow into the soil. Just before this takes place the Indians build fires under the trees and stupefy the caterpillars by the smoke. This causes them to loosen their hold on the trees and fall to the ground where they are collected in baskets. They are then prepared as food by being dried over a bed of hot ashes, or by being boiled in water.

Mexican Indians eat 67 species of butterfly and moth caterpillars. Samples:



Papilio polyxenes
(Papilionidae)
Honduras, 1991, Sc#C812



Pontia protodice
(Pieridae)
Honduras, 1991, Sc#C833



Spodoptera frugiperda
(Noctuidae)
Venezuela, Sc#916



Actias luna
(Saturniidae)
US, 1987, Sc#2293



Manduca sexta
(Sphingidae)
Venezuela, 1968, Sc#918



Nymphalis antiopa
(Nymphalidae)
Comoros, 2009, Sc#1053a

The trade of Lepidoptera larvae in Mexico still persists being sold in markets in several towns and even at the capital.

The red and white agave worms of the moth *Hypopta agavis* are in great demand, in large part due to their exquisite flavor, though the eating of these larvae is also an ancestral tradition and a signal of power in diverse sectors of the population.

Due to high demand for these species, some sellers have special refrigerators for freezing and storing them. In order to offer them at high prices after the collecting season.

Some of the recorded edible Lepidoptera clearly constitute an important part of the nutrition and economy of the Mexican people, particularly for the indigenous collectors, middlemen, distributors, salesmen, and restaurant owners. In addition, canned white agave worms are exported to the United States and Canada.



Agrotis sp.
Mauritania, 1989, Sc#650

THE MARCH OF MARY JANE

Lisa Foster, Washington

Industrial Hemp

Industrial hemp is a variety of the plant species *Cannabis sativa* that has been cultivated around the world for thousands of years. Hemp produces a larger yield per acre than do common substitutes such as cotton, and requires few pesticides. In addition, hemp has an average growing cycle of only 100 days. It is easy to grow because it requires little water or fertilizer and does not need replanting year after year.

After harvesting, various parts of the plant can be utilized in the making of products. The oil extract of the hemp seeds has been used in paints, varnishes, soaps, and for lighting. Historically, the seeds were used as bird feed and human food.

The stalks have been used to make rope, paper, and cloth. It is believed that hemp sails and rope carried Columbus to the Americas in 1492. In addition, Columbus's ships carried hemp seeds for use in case of a shipwreck to grow crops for raw materials and as a source of nutrition.



Columbus's Ships
U.S., 1992, Sc#2621



Mount Vernon
U.S., 1956, Sc#1032

George Washington cultivated hemp at Mount Vernon for industrial uses including making rope and sail canvas. The hemp fibers were spun into thread used to sew sacks and canvas and to repair the large seine fishing nets that Washington used in his fishing operation along the Potomac.

In addition, Washington used some of what he grew to make hemp clothing worn by his slaves. Colonial soldiers and sailors in the Revolutionary War were also clothed in hemp fabric. Most textiles were made from hemp until the 1820s with the introduction of the cotton gin.



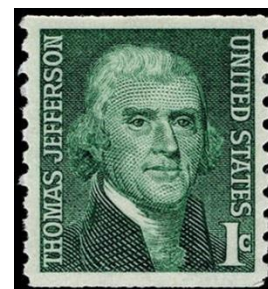
Colonial Seamstress
U.S., 1977, Sc#1717



Franklin
U.S., 1973, Sc#1393D

Rumor has it that Benjamin Franklin owned a paper mill that made hemp paper and/or ran off hemp oil in the 1730s. Although the paper on which the Declaration of Independence (1776) and the Constitution (1789) were recorded was parchment, it is believed that some working drafts were composed on paper made from hemp, which was widely used at that time.

In the 1790s, hemp was grown mainly for its industrial value and for soil stabilization. Thomas Jefferson also grew hemp on his plantation for local use. In 1816, Jefferson adapted a "hemp brake" to a thrashing machine, which broke and beat about 80 pounds per day with a single horse.



Jefferson
U.S., 1966, Sc#1299

Marijuana

Industrial hemp (*Cannabis sativa sativa*), the kind that Washington and Jefferson grew, is not the same strain of the plant as *Cannabis sativa indica* that is used as a drug (marijuana). *Cannabis sativa sativa* (industrial hemp) contains less than 0.3 percent of tetrahydrocannabinol (THC), the primary psychoactive ingredient in marijuana.

Cannabis sativa indica grown for marijuana can contain between 6–20 percent THC. It is the psychoactive properties of its resin that led to its regulation, taxation, and prohibition.

Physicians often prescribed marijuana for its therapeutic value to treat pain, nausea, spasticity, glaucoma, movement disorders, and to stimulate appetite. The Pure Food and Drug Act of 1906 required labeling of any cannabis contained in over-the-counter remedies.



1906 Food & Drug Act
U.S., 1998, Sc#3182f

Following the Mexican Revolution of 1910, Mexican immigrants flooded into the United States and introduced the American culture to the recreational use of marijuana.

During the Great Depression, unemployment increased public resentment and fear of Mexican immigrants. By 1931, 29 states had outlawed marijuana. Harry Anslinger, the first Commissioner of the Federal Bureau of Narcotics, joined forces with newspaper publishers and started a campaign against marijuana by pointing to the association of the drug with the primary users at that time; poor Mexican and black workers.

Although the American Medical Association opposed it, Congress passed the Marijuana Tax Act in 1937. This was an attempt to control and eliminate marijuana use through the imposition of an annual occupational tax on those who dealt in, or possessed marijuana. It also imposed a tax upon all transfers of marijuana, with stamps reflecting payment.



Marijuana Tax Stamp
U.S., 1937, Sc#RMJ1



Agriculture for Defense
U.S., 1940, Sc#899

During World War II, imports of hemp and other materials used for producing marine cordage, parachutes, and other military necessities became scarce.

The U.S. Department of Agriculture launched a "Hemp for Victory" program, and encouraged farmers to grow hemp for the war effort by handing out seeds and granting draft deferments for participants. By 1943, American farmers registered in the program harvested 375,000 acres of hemp.

Following the war, the government resumed the initiative to reduce hemp use and passed the Narcotics Control Act in 1956, which set mandatory sentences for drug-related offences, including marijuana.

In the 1960s, the culture of rebellious freedom and increased use of marijuana among white upper class Americans contributed to more lenient attitudes among the populous. And in 1969, the Supreme Court held the Marijuana Tax Act unconstitutional on self-incriminating grounds.



Abuse Prevention
U.S., 1971, Sc#1438

In 1970, the Comprehensive Drug Prevention and Control Act (more commonly known as the Controlled Substances Act) was signed into law by President Richard Nixon as part of his "war on drugs" campaign.

Nixon temporarily classified marijuana as a Schedule One drug indicating it had a high potential for abuse, no accredited medical use, and a lack of accepted safety.

In 1976, Jimmy Carter, whose campaign platform included marijuana decriminalization, was elected President. In 1977, the Senate Judiciary Committee voted to eliminate mandatory federal sentences for possession of small amounts of marijuana.

The election of President Ronald Reagan began an expansion on the "War on Drugs" in the 1980s. The President's wife, Nancy, led a highly publicized anti-drug campaign, "Just Say No."



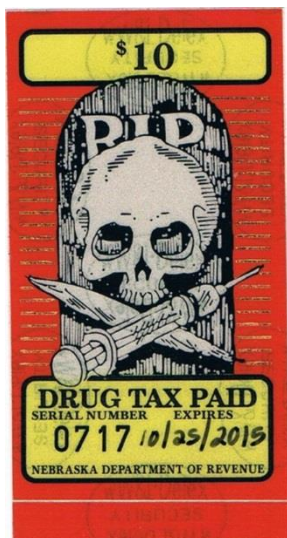
Psychedelic entertainers
U.S., 2014, Sc#4916

Beginning with Arizona in 1983, states revived the taxation of marijuana as part of the new campaign. In total, 25 states issued tax stamps that the drug dealer was required to put on the stash at the time of sale to prove that the tax was paid.

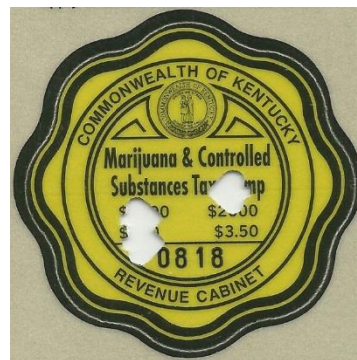
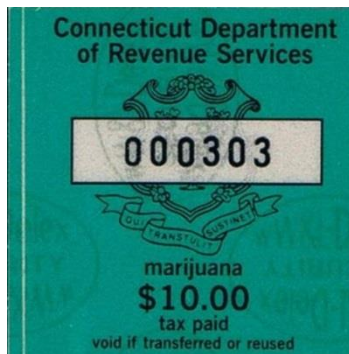
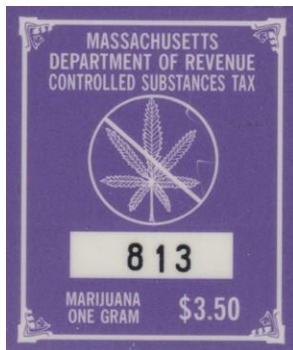
Compliance with the law was minimal as payment did not legalize marijuana possession, and dealers feared disclosing their profession. As a result, most of the tax stamps have been sold to collectors.



Arizona tax stamp



State Marijuana tax stamp examples



In addition, to the states that used tax stamps, at least five other states have taxed marijuana, but did not use stamps. Georgia and Indiana use receipts. Florida, Montana, and New Mexico have since repealed their drug tax laws.

In recent years, some states have adopted a legally controlled market for marijuana where consumers can buy marijuana for personal use from a safe legal source. This policy, generally known as legalization, was adopted by voter initiative in 2012 in Washington (I-502) and Colorado (A-64).

Oregon (Measure 91) and Alaska (Ballot Measure 2) followed suit and passed legalization bills in November 2014. Legalization advocates are preparing to put similar measures on ballots in 2016 in Arizona, California, Maine, Massachusetts, and Nevada.



Washington tax stamp

Flora & Fauna



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BOTANY

Editor

Christopher E. Dahle, BU1269

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ANDORRA (French) 2015 October 23 (Flora Type of 2011) (Set/2)				
751	76c	Thyme, <i>Thymus vulgaris</i>	Lamiaceae	Fl A
ANTIGUA 2014 June 23 (Aloe vera) (2ea MS/4 & 2ea SS/2)				
3247a	\$4.75	Plant in pot, <i>Aloe vera</i>	Xanthorrhoeaceae	V A
3247b	\$4.75	Plant, <i>Aloe vera</i>	Xanthorrhoeaceae	V A
3247c	\$4.75	Close-up of plant, <i>Aloe vera</i>	Xanthorrhoeaceae	V A
3248a	\$4.75	Plant and roots, <i>Aloe vera</i>	Xanthorrhoeaceae	V A
3248b	\$4.75	Plant diagonally, <i>Aloe vera</i>	Xanthorrhoeaceae	V A
3248c	\$4.75	Close-up of plant, <i>Aloe vera</i>	Xanthorrhoeaceae	V A
3249a	SS \$9.50	Plant, <i>Aloe vera</i>	Xanthorrhoeaceae	V A SS
3249b	SS \$9.50	Plant and plus signs, <i>Aloe vera</i>	Xanthorrhoeaceae	V A SS
3250a	SS \$9.50	Plant (no plus signs), <i>Aloe vera</i>	Xanthorrhoeaceae	V A SS
3250b	SS \$9.50	Plant cut into pieces, <i>Aloe vera</i>	Xanthorrhoeaceae	V A SS
2015 January 16 (Mango Tree)				
3278	25c	Julie Mango Tree, <i>Mangifera indica</i> 'Julie'	Anacardiaceae	Fr A
2015 February 24 (Pink Desert Roses)				
3279	\$2.20	Desert Rose, <i>Adenium obesum</i>	Apocynaceae	Fl A
3280	SS \$10	Desert Rose, <i>Adenium obesum</i>	Apocynaceae	Fl A SS
2015 March 24 (Paintings by Vincent van Gogh)				
3285e	\$3.15	"Vase with 12 Sunflowers," 1888, <i>Helianthus annuus</i>	Asteraceae	Fl A
ARGENTINA 2014 June 30 (Myths & Legends)				
2733	10p	La Flor del Ceibo (The Ceibo Flower), <i>Erythrina crista-galli</i>	Fabaceae	Fl A S
2015 April 27 (Trees) (MS/4)				
2764a	6p	Pink Ipê or Pink Trumpet Tree, <i>Handroanthus impetiginosus</i>	Bignoniaceae	T A MS
2764b	6p	Monkey Puzzle Tree, <i>Araucaria araucana</i>	Araucariaceae	T A MS
2764c	6p	Humboldt's Willow, <i>Salix humboldtiana</i>	Salicaceae	T A MS
2764d	6p	Brea or Verde Olivo, <i>Parkinsonia</i> (= <i>Cercidium</i>) <i>praecox</i>	Fabaceae	T A
AUSTRALIA 2015 March 17 (Trees Type of 2015) (printed on wood veneer)				
4270	70c	Lemon-scented Gum, <i>Corymbia citriodora</i>	Myrtaceae	T A
2015 October 27 (Animals in War, w/ Poppies) (SS/5 & s/a bklt/10)				
4374/4379	70c	Poppies, <i>Papaver rhoeas</i> (with donkeys)	Papaveraceae	Fl B
4375/4380	70c	Poppies, <i>Papaver rhoeas</i> (with dogs)	Papaveraceae	Fl B
4376/4381	70c	Poppies, <i>Papaver rhoeas</i> (with horses)	Papaveraceae	Fl B
4377/4382	70c	Poppies, <i>Papaver rhoeas</i> (with pigeons)	Papaveraceae	Fl B
4378/4383	70c	Poppies, <i>Papaver rhoeas</i> (with camels)	Papaveraceae	Fl B
4378a	SS/5 (Sc#4374–78)			
4383a	Bklt pane 10 (2ea Sc#4379–83) (s/a)			

BERMUDA		2015 July 16 (Flower Type of 2014) (Set/6)		
1098	50c	Orchid Tree or Camel's Foot, <i>Bauhinia variegata</i>	Fabaceae	Fl A
1099	\$1	Oleander, <i>Nerium oleander</i>	Apocynaceae	Fl A
1100	\$1.15	Cats Claw Creeper, <i>Dolichandra</i> (= <i>Macfadyena</i>) <i>unguis-cati</i>	Bignoniaceae	Fl A
1101	\$1.20	Chinese Hibiscus, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A
1102	\$1.35	Royal Poinciana or Flamboyant, <i>Delonix regia</i>	Fabaceae	Fl A
1103	\$1.55	Costa Rican Nightshade, <i>Solanum wendlandii</i>	Solanaceae	Fl A
BOLIVIA		2013 December 6 (Campaign Against Discrimination) (Set/2)		
1578	15b	Red apple & six green apples, <i>Malus x domestica</i>	Rosaceae	Fr A
BOSNIA & HERZEGOVINA		2015 August 4 (Berries) (Set/3 with labels)		
742	10pf	Blackberry, <i>Rubus fruticosus</i>	Rosaceae	Fr A
743	20pf	Raspberry, <i>Rubus idaeus</i>	Rosaceae	Fr A
744	30pf	Black currant, <i>Ribes nigra</i>	Grossulariaceae	Fr A
		2015 November 4 (Lilac)		
752	1m	Lilac, <i>Syringa vulgaris</i>	Lauraceae	Fl A
BOSNIA & HERZEGOVINA (Croat)		2015 May 22 (Knitting from Hemp Fiber) (SS/1)		
319	2.90m	<i>Cannabis sativa</i>	Cannabaceae	V B SS Z
		2015 November 1 (Flowers) (Pair)		
326a	2m	Aronstab, <i>Arum orientale</i> (= <i>petteri</i>)	Araceae	Fl A
326b	2m	Woodland Crocus, <i>Crocus tommasianus</i>	Iridaceae	Fl A
BOSNIA & HERZEGOVINA (Serb)		2015 August 28 (Nuts Definitives)		
524	10pf	Chestnuts, <i>Castanea sativa</i>	Fagaceae	Fr A
525	20pf	Hazel Nuts, <i>Corylus avellana</i>	Betulaceae	Fr A
526	90pf	Walnuts, <i>Juglans regia</i>	Juglandaceae	Fr A
		2015 September 23 (Nature Protection) (Pair)		
534a	90pf	Yellow Water Lily, <i>Nuphar luteum</i>	Nymphaeaceae	Fl A
534b	1.70m	Swamp Nettle, <i>Urtica kioviensis</i>	Urticaceae	Fl A
BRAZIL		2014 September 12 (Golden Grass—the Gold of Jalapão) (Block/4)		
3283a	1.80r	Map overlaying field of grass, <i>Syngonanthus nitens</i>	Eriocaulaceae	V B
3283b	1.80r	Harvesting grass, <i>Syngonanthus nitens</i>	Eriocaulaceae	V B
3283c	1.80r	Hand craft with grass, <i>Syngonanthus nitens</i>	Eriocaulaceae	V B
3283d	1.80r	Hat and vase of grass, <i>Syngonanthus nitens</i>	Eriocaulaceae	V B
CHINA (Taiwan)		2015 October 8 (Paintings by Guiseppe Castiglione [Lang Shining])		
4261	\$5	“Gathering of Auspicious Signs,” Lotus pods, <i>Nelumbo nucifera</i>	Nelumbonaceae	Fl B
		and Peonies, <i>Paeonia officinalis</i>	Paeoniaceae	Fl B
4262	\$5	“Long-haired Dog Beneath Blossoms,” <i>Prunus mume</i>	Rosaceae	Fl B
4264	\$9	“Cochin Lemur,” <i>Prunus mume</i>	Rosaceae	Fl B
4265	SS \$82	“Golden Pheasant in Spring,” various blossoms		Fl U Z
FALKLAND ISLANDS		2015 May 12 (Nature Type of 2012) (2ea pairs)		
1136b	30p	Fuegian Fern, <i>Blechnum magellanicum</i>	Blechnaceae	V A
1137b	75p	Yellow Daisies, <i>Senecio littoralis</i>	Asteraceae	Fl A
FINLAND		2015 March 2 (Flowers) (s/a)		
1484	(€1.10)	Bouquet of spring flowers		Fl A U
		2015 March 2 (Easter) (s/a)		
1485	(€1.10)	Pussy Willow, <i>Salix</i> sp.	Salicaceae	FL V B
		Daffodil, <i>Narcissus pseudonarcissus</i>	Amoryllidaceae	FL V B

FINLAND (continued)		2015 May 8 (Flowers) (Horiz pair) (s/a)		
1489a	(€1.00)	Rugosa Roses, <i>Rosa rugosa</i>	Rosaceae	Fl A
1489b	(€1.00)	Orchids	Orchidaceae	Fl A
		2015 May 8 (Sights of Summer) (MS/5)		
1492a	(€1.10)	Strawberry, <i>Fragaria ananassa</i>	Rosaceae	Fr A MS
FINLAND (Åland)		2015 April 10 (Flower)		
365	85c	Bellflower, <i>Campanula persicifolia</i>	Campanulaceae	Fl A
FRANCE		2014 October 1 (Sense of Smell) (Bklt/12)		
4687	(61c)	Lilies in athletic shoe, <i>Lilium</i> sp.	Liliaceae	Fl B
4691	(61c)	Woman smelling Rose, <i>Rosa</i> sp.	Rosaceae	Fl B
4693	(61c)	Herbs & spices: Garlic, <i>Allium sativum</i>	Amaryllidaceae	V B
		Rosemary, <i>Rosmarinus officinalis</i>	Lamiaceae	V B
		Clove, <i>Syzygium aromaticum</i>	Myrtaceae	Fl B
		Nutmeg, <i>Myristica fragrans</i>	Myristicaceae	Fr B
		Basil, <i>Ocimum basilicum</i>	Lamiaceae	V B
		Bay Laurel, <i>Laurus nobilis</i>	Lauraceae	V B
		2015 January 3 (Handicrafts) (Bklt/12)		
4741	(76c)	Flower arranging, <i>Rosa</i> sp.	Rosaceae	Fl A
		2015 May 2 (Paintings of Flowers) (Bklt/12)		
4804	(68c)	Cézanne: Irises, <i>Iris</i> sp.	Iridaceae	Fl A
		Red Geraniums, <i>Pelargonium</i> sp.	Geraniaceae	Fl A
4805	(68c)	Gauguin: Peonies, <i>Paeonia officinalis</i>	Paeoniaceae	Fl A
4806	(68c)	Magnin: Carnations, <i>Dianthus caryophyllus</i>	Caryophyllaceae	Fl A
4807	(68c)	Bracquemond: Wisteria, <i>Wisteria floribunda</i>	Fabaceae	Fl A
4808	(68c)	Boutin: Daisies, <i>Argyranthemum frutescens</i>	Asteraceae	Fl A
		Hydrangeas, <i>Hydrangea macrophylla</i>	Hydrangeaceae	Fl A
4809	(68c)	Van Gogh: Roses, <i>Rosa</i> sp.	Rosaceae	Fl A
		Anemones, <i>Anemone coronaria</i>	Ranunculaceae	Fl A
4810	(68c)	Renoir: Gladioluses, <i>Gladiolus communis</i>	Iridaceae	Fl A
4811	(68c)	Redon: Wildflowers		Fl A
4812	(68c)	Manet: Peonies, <i>Paeonia officinalis</i>	Paeoniaceae	Fl A
4813	(68c)	Caillebotte: Roses, <i>Rosa</i> sp.	Rosaceae	Fl A
4814	(68c)	Duhem: Queens Daisies, <i>Argyranthemum frutescens</i>	Asteraceae	Fl A
4815	(68c)	Fantin-Latour: Roses, <i>Rosa</i> sp.	Rosaceae	Fl A
		2015 May 29 (17th World Convention of Rose Societies, Lyon)		
4819	76c	<i>Rosa x hybrida</i>	Rosaceae	Fl A
4820	€1.20	<i>Rosa x hybrida</i>	Rosaceae	Fl A
		2015 October 2 (Jean-Henri Fabre, Entomologist)		
4887	€2.60	Olive branch with fruit, <i>Olea europaea</i>	Oleaceae	Fr V B SS Z
FRENCH POLYNESIA		2015 July 1 (Coffee) (Impregnated with coffee scent)		
1149	100fr	Coffee berries, leaves, beans, <i>Coffea arabica</i>	Rubiaceae	Fr V A
GEORGIA		2014 December 22 (Four Seasons) (MS/4)		
498a-d	2l	Tree in winter, spring, summer, autumn		T A U MS
GIBRALTAR		2015 September 7 (Definitive Stamps with Personalized Labels)		
1529	(22p)	Bouquet with hands of bride & groom, <i>Rosa</i> sp.	Rosaceae	Fl B
1532	(70p)	Bouquet with hands of bride & groom, <i>Rosa</i> sp.	Rosaceae	Fl B

GREAT BRITAIN (England)		2015 March 24 (Regional Issue Types of 2003)		
30	£1	Oak, <i>Quercus robur</i>	Fagaceae	T A
31	£1.33	Tudor Rose, <i>Rosa</i> sp.	Rosaceae	Fl A
GREAT BRITAIN (Scotland)		2015 March 24 (Regional Issue Types of 2003)		
44	£1	Thistle, <i>Onopordum acanthium</i>	Asteraceae	Fl A
GREAT BRITAIN (Wales & Monmouthshire)		2015 March 24 (Regional Issue Types of 2003)		
44	£1	Daffodil, <i>Narcissus pseudonarcissus</i>	Amaryllidaceae	Fl A
GREAT BRITAIN (Alderney)		2015 May 1 (Flora & Fauna) (SS/6)		
519	(41p)	Alderney Sea Lavender, <i>Limonium normannicum</i>	Plumbaginaceae	Fl A
521	(55p)	Dwarf Thistle, <i>Cirsium acaule</i>	Asteraceae	Fl A
523	(74p)	Spotted Rock Rose, <i>Tuberaria guttata</i>	Cistaceae	Fl A
GREAT BRITAIN (Jersey)		2015 September 22 (Links with China, Garden Flowers)		
1896	47p	Magnolia, <i>Magnolia grandiflora</i>	Magnoliaceae	Fl A
1897	47p	Camellia, <i>Camellia japonica</i>	Theaceae	Fl A
1898	47p	Azalea, <i>Rhododendron</i> sp.	Ericaceae	Fl A
1899	47p	Hydrangea, <i>Hydrangea macrophylla</i>	Hydrangeaceae	Fl A
1900	47p	Chrysanthemum, <i>Chrysanthemum</i> sp.	Asteraceae	Fl A
1901	47p	Peony, <i>Paeonia officinalis</i>	Paeoniaceae	Fl A
1901a		SS/2 (Sc#1900–01)		
HONDURAS		2015 April 10 (Environmental Protection) (Set/8)		
C1344	10L	Forest in Merendón Mountains		T A U
C1345	10L	Sky and Forest in Merendón Mountains		T A U
ITALY		2015 February 19 (Floranga 2015 Flower Competition) (s/a)		
3286	80c	Stylized flowers		Fl A S
IVORY COAST		2004 December 22 (Flora Type of 2004)		
1138	500fr	<i>Schumanniphyton problematicum</i>	Rubiaceae	Fl Fr T A
		2013 August 12 (Parasitic & Aquatic Plants) (Set/3)		
1193	50fr	<i>Tapinanthus belvisii</i>	Loranthaceae	Fl V A
1194	250fr	<i>Thonningia sanguinea</i>	Balanophoraceae	Fl A
1195	650fr	<i>Ottelia ulvifolia</i>	Hydrocharitaceae	Fl V A
KOREA (North)		2013 April 15 (Flowers-Birthday Kim Il Sung) (Set/4 & Bklt/4)		
5171	30w	Scarlet Flame Zinnias, <i>Zinnia elegans</i> ‘Scarlet Flame’	Asteraceae	Fl A
5172	50w	Cockscomb, <i>Celosia cristata</i>	Amaranthaceae	Fl A
5173	70w	Dahlias, <i>Dahlia x cultorum</i>	Asteraceae	Fl A
5174	90w	Nasturtiums, <i>Tropaeolum majus</i>	Tropaeolaceae	Fl A
5174a		Bklt/4 (Sc#5171–74)		
KYRGYZSTAN		2015 July 18 (Paintings) (MS/4)		
496d	30s	Poppies by Erbol Dogdurbek, <i>Papaver rhoeas</i>	Papaveraceae	Fl A
LATVIA		2015 March 6 (Flower)		
906	50c	Sunflower, <i>Helianthus annuus</i>	Asteraceae	Fl A
LIECHTENSTEIN		2015 September 7 (Apple Varieties) (MS/8 hexagonal) (s/a)		
1659a	140rp	Treisenberger Weinapfel, <i>Malus x domestica</i>	Rosaceae	Fr A MS
1659b	140rp	Damason ReInette, <i>Malus x domestica</i>	Rosaceae	Fr A MS
1659c	140rp	Leuser, <i>Malus x domestica</i>	Rosaceae	Fr A MS
1659d	140rp	Grosser Rheinischer Bohnapfel, <i>Malus x domestica</i>	Rosaceae	Fr A MS

LIECHTENSTEIN (continued)

1659e	140rp	Freiherr von Berlespsch, <i>Malus x domestica</i>	Rosaceae	Fr A MS
1659f	140rp	Rollapfel, <i>Malus x domestica</i>	Rosaceae	Fr A MS
1659g	140rp	Goldparmäne, <i>Malus x domestica</i>	Rosaceae	Fr A MS
1659h	140rp	Röpsli Marie, <i>Malus x domestica</i>	Rosaceae	Fr A MS

2015 November 16 (Christmas) (Designs from Carols)

1666	85rp	“Lo, How a Rose E’er Blooming,” <i>Rosa</i> sp.	Rosaceae	Fl A
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LUXEMBOURG**2015 September 22** (Vegetables Type of 2014) (Set/3)

1410	20c	Parsnip, <i>Pastinaca sativa</i>	Apiaceae	V A
1411	25c	Celery, <i>Apium graveolens</i>	Apiaceae	V A
1412	35c	Beets, <i>Beta vulgaris</i>	Chenopodiaceae	V A

2015 December 1 (Flowers) (ATR non-profit 50g) (Vert strip/4)

1421a	(35c)	Marguerite Daisy, <i>Argyranthemum frutescens</i>	Asteraceae	Fl A
1421b	(35c)	Cornflower, <i>Centaurea cyanus</i>	Asteraceae	Fl A
1421c	(35c)	Thistle, <i>Cirsium</i> sp.	Asteraceae	Fl A
1421d	(35c)	Red Poppy, <i>Papaver rhoeas</i>	Papaveraceae	Fl A

MEXICO**2015 September 29** (Cacti) (Vert pair)

2949	7p	Peyote, <i>Lophophora williamsii</i>	Cactaceae	Fl A
2950	11.50p	<i>Mammillaria mystax</i>	Cactaceae	Fl A

PAPUA NEW GUINEA**2014 January** (Surcharges)

Sc#1640–41 surcharged with serif “K.” See *Plants on Stamps* Vol. V, p.160.

1732F	1.30k	<i>Dendrobium macrophyllum</i> (Sc#1640 surch)	Orchidaceae	Fl A
1732G	1.30k	<i>Dendrobium williamsianum</i> (Sc#1641 surch)	Orchidaceae	Fl A

Sc#1358, 1416, and 1494 surcharged with sans-serif “K.” See *Plants on Stamps* Vol. V, p.160.

1732K	15k	<i>Calophyllum inophyllum</i> (Sc#1358 surch)	Calophyllaceae	Fl A
1732L	25k	<i>Dendrobium mirbelianum</i> ‘Vanimo’ (Sc#1494 surch)	Orchidaceae	Fl A
1732P	40k	Oil palm, <i>Elaeis guineensis</i> (Sc#1416 surch)	Arecaceae	Fr A

POLAND**2014 May 18** (70th anniv. Battle of Monte Cassino)

4121	1.75z	Poppy, <i>Papaver rhoeas</i>	Papaveraceae	Fl A
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2015 September 15 (Fruit & Flowers Type of 2009)

See *Plants on Stamps* Vol. V, p.168.

4178	10g	Water Lily, <i>Nymphaea alba</i>	Nymphaeaceae	Fl A
4179	5z	Rose, <i>Rosa x hybrida</i>	Rosaceae	Fl A

ROMANIA**2014 August 29** (Oltenia Tourism) (Set/6)

5589	14.50l	Grapes and vineyard, <i>Vitis vinifera</i>	Vitaceae	Fr V A
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2014 September 5 (Animals & Their Food) (Set/4)

5590	1.40l	Squirrel & Hazel Nuts, <i>Corylus avellana</i>	Betulaceae	Fr B
5591	2l	Boar & Acorns, <i>Quercus</i> sp.	Fagaceae	Fr B
5592	8.10l	Bear & Berries, <i>Rubus</i> sp.	Rosaceae	Fr B
5593	14.50l	Starling & Grapes, <i>Vitis vinifera</i>	Vitaceae	Fr B

RUSSIA**2015 April 16** (Trees) (Block/4)

7617a	20r	<i>Pinus brutia</i> var. <i>pityusa</i> (= <i>stankewiczii</i>)	Pinaceae	Fr V A
7617b	20r	Juniper, <i>Juniperus excelsa</i>	Cupressaceae	Fr V A
7617c	20r	Norway Maple, <i>Acer platanoides</i>	Sapindaceae	Fr V A
7617d	20r	European Oak, <i>Quercus robur</i>	Fagaceae	Fr V A

THAILAND**2014 June 5** (Diplomatic Relations with Israel)

2811	3b	Pomegranates, <i>Punica granatum</i>	Punicaceae	Fr B
		Mangosteens, <i>Garcinia mangostana</i>	Clusiaceae	Fr B

TUNISIA**2015 July 28** (Disease Prevention)

1598	1100m	Apple, <i>Malus x domestica</i>	Rosaceae	Fr B
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ZIMBABWE**2015 April 30** (Victoria Falls) (SS/10)

1199	20c	Rainforest		T A U
1206a		SS/10 (Sc#1197–1206)		

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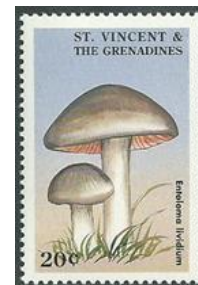
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FUNGI

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.]

BOSNIA & HERZEGOVINA 2015 July 1 (150th anniv. publication of *Alice in Wonderland*)

741 1.50m Stylized mushroom (with Caterpillar smoking hookah & Alice) S B

ESTONIA 2015 September 10 (Mushroom)

795 55c Deadly Webcap, *Cortinarius rubellus* ☠ Cortinariaceae A*

GUYANA 1993 July 23 (Mushrooms) (Single & 4ea SS/1)

2687A \$7.65 Death Cap, *Amanita phalloides* ☠ Amanitaceae A*
 2687G SS \$500 Sulphur Tuft or Clustered Woodlover, *Hypholoma fasciculare* ☠ Strophariaceae A*
 2687H SS \$500 Golden Waxcap, *Hygrocybe chlorophana* Hygrophoraceae A*
 2687I SS \$500 Jack-o'lantern Mushroom, *Omphalotus illudens* Marasmiaceae A*
 2687J SS \$500 Sheathed Woodtuft, *Kuehneromyces mutabilis* Strophariaceae A*

KOREA (North) 2013 June 10 (Mount Paektu) (SS/4+2 labels)

5181 Label UL: U/I red mushrooms (with butterfly & flowers) U B

5181 Label LR: U/I red mushrooms (with bee & flowers) U B

TRISTAN DA CUNHA 2015 December 1 (150th anniv. publication of *Alice in Wonderland*)

1055 50p Stylized mushroom (with Caterpillar smoking hookah & Alice) S B

1059a SS/6 (Sc#1054–59)

NEW MUSHROOMS

In January, Surinam issued a MS/3 showing different mushroom species.

The \$7 stamp shows the Woolly Milkcap (*Lactarius torminosus*). The \$9 stamp depicts the Contrary Webcap (*Cortinarius varius*) with its sister species, *Cortinarius variegatus*, on the \$12 stamp.

Additional images of all three species are on the margins.

All of these species are native to the northern hemisphere and are very likely not actually found anywhere in Surinam.





MAMMALIA

Editor

Michael Prince, LM68

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ANDORRA (Spanish) 2015 February 9 (Chamois)				
408	€1	Alpine Chamois, <i>Rupicapra rupicapra</i>	Bovidae	A*
ARGENTINA 2015 September 22 (Mammals) (MS/4)				
2772a	7p	Alpaca, <i>Lama pacos</i>	Camelidae	A*
2772b	7p	Guanaco, <i>Lama guanicoe</i>	Camelidae	A*
2772c	7p	Vicuña, <i>Vicugna vicugna</i>	Camelidae	A*
2772d	7p	Llama, <i>Lama glama</i>	Camelidae	A*
AUSTRALIA 2015 January 13 (Marsupials) (Block/4, SS/6, & Bklt/s)				
4225	70c	Short-beaked Echidna, <i>Tachyglossus aculeatus</i>	Tachyglossidae	A*
4226	70c	Common Wombat, <i>Vombatus ursinus</i>	Vombatidae	A*
4227	70c	Eastern Grey Kangaroo, <i>Macropus giganteus</i>	Macropodidae	A*
4228	70c	Koala, <i>Phascolarctos cinereus</i>	Phascolarctidae	A*
4228a		Block/4 (Sc#4225–28)		
4229	\$1.40	Numbat, <i>Myrmecobius fasciatus</i>	Myrmecobiidae	A*
4230	\$1.40	Tasmanian Devil, <i>Sarcophilus harrisii</i>	Dasyuridae	A*
4230a		Pair (Sc#4229–30)		
4230b		SS/6 (Sc#4225–30) (perf 14×14¼)		
4231	70c	Eastern Grey Kangaroo, <i>Macropus giganteus</i>	Macropodidae	A*
4232	70c	Koala, <i>Phascolarctos cinereus</i>	Phascolarctidae	A*
4233	70c	Common Wombat, <i>Vombatus ursinus</i>	Vombatidae	A*
4234	70c	Short-beaked Echidna, <i>Tachyglossus aculeatus</i>	Tachyglossidae	A*
4234a		Bklt/10 (3ea Sc#4231–32 & 2ea Sc#4233–34) (die cut 11¼) (s/a)		
4234b		Bklt/20 (5ea Sc#4231–34) (die cut 11¼) (s/a)		
BELARUS 2014 November 27 (Wildlife of Naliboki Forest) (Strip/4 & Bklt/4)				
922a	(1600r)	Elk (Moose), <i>Alces alces</i>	Cervidae	A*
		Grey Wolf, <i>Canis lupus</i>	Canidae	B*
922c	(6500r)	Wild Boar, <i>Sus scrofa</i>	Suidae	B*
922d	(7500r)	Garden Dormouse, <i>Eliomys quercinus</i>	Myoxidae	A*
922e		Bklt/4 (Sc#922a–d)		
2014 December 10 (Mammals) (Set/5)				
923	(1600r)	Raccoon Dog, <i>Nyctereutes procyonoides</i>	Canidae	A*
924	(5000r)	European Hare, <i>Lepus europaeus</i>	Leporidae	A*
925	(6500r)	European Mink, <i>Mustela lutreola</i>	Mustelidae	A*
926	(7500r)	Grey Wolf, <i>Canis lupus</i>	Canidae	A*
927	(8000r)	European Pine Marten, <i>Martes martes</i>	Mustelidae	A*
2015 September 1 (Ground Squirrels) (SS/4)				
951	A (3600r)	Speckled Ground Squirrel, <i>Spermophilus suslicus</i>	Sciuridae	(new) A*
952	N (7800r)	Speckled Ground Squirrel, <i>Spermophilus suslicus</i>	Sciuridae	(new) A*
953	M (9600r)	Speckled Ground Squirrel, <i>Spermophilus suslicus</i>	Sciuridae	(new) A*
954	H (10500r)	Speckled Ground Squirrel, <i>Spermophilus suslicus</i>	Sciuridae	(new) A*

BELGIUM**2015 March 23** (Birds & Mammals) (MS/10)

2747f	(72c)	Red Deer (Elk), <i>Cervus elaphus</i>	Cervidae	A*
2747g	(72c)	Stoat (Ermine), <i>Mustela erminea</i>	Mustelidae	A*
2747h	(72c)	European Otter, <i>Lutra lutra</i>	Mustelidae	A*
2747i	(72c)	European Hare, <i>Lepus europaeus</i>	Leporidae	A*
2747j	(72c)	Eurasian Red Squirrel, <i>Sciurus vulgaris</i>	Sciuridae	A*

BHUTAN**2014 May 10** (Flora & Fauna) (Vert pair & MS/8)

1491b	10nu	Himalayan Blue Sheep (Bharal), <i>Pseudois nayaur</i>	Bovidae	A*
1492b	20nu	Golden Langur, <i>Trachypithecus geei</i>	Cercopithecidae	A*
1492d	20nu	Asian Black Bear, <i>Ursus thibetanus</i>	Ursidae	A*
1492e	20nu	Red Panda, <i>Ailurus fulgens</i>	Ailuridae	A*
1492g	20nu	Red Muntjac, <i>Muntiacus muntjak</i>	Cervidae	A*

BOSNIA & HERZEGOVINA (Croat) 2015 November 1 (Mammals) (Block/4)

327a	2m	Grey Wolf, <i>Canis lupus</i>	Canidae	A*
327b	2m	Red Fox, <i>Vulpes vulpes</i>	Canidae	A*
327c	2m	Golden Jackal, <i>Canis aureus</i>	Canidae	A*
327d	2m	Brown Bear, <i>Ursus arctos</i>	Ursidae	A*

BRITISH ANTARCTIC TERR.**2015 November 17** (Wildlife & Huts) (Set/5)

496	66p	Weddell Seal, <i>Leptonychotes weddellii</i>	Phocidae	B*
500	£1.22	Killer Whale, <i>Orcinus orca</i>	Delphinidae	B*

2015 November 17 (Whales) (Set/6)

501	66p	Antarctic Minke Whale, <i>Balaenoptera bonaerensis</i>	Balaenopteridae	A*
502	66p	Blue Whale, <i>Balaenoptera musculus</i>	Balaenopteridae	A*
503	66p	Sperm Whale, <i>Physeter catodon</i>	Physeteridae	A*
504	66p	Killer Whale, <i>Orcinus orca</i>	Delphinidae	A*
505	66p	Southern Bottlenose Whale, <i>Hyperoodon planifrons</i>	Ziphiidae	A*
506	66p	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	A*

CANADA**2015 November 2** (Christmas) (MS/3 & Bklt/3)

2879a	(85c)	Moose (Elk), <i>Alces alces</i>	Cervidae	A*
2879b	\$1.20	American Beaver, <i>Castor canadensis</i>	Castoridae	A*
2879c	\$2.50	Polar Bear, <i>Ursus maritimus</i>	Ursidae	A*
2879		MS/3 (Sc#2879a-c) (perf 13¼×13¼)		
2881	(85c)	Moose (Elk), <i>Alces alces</i>	Cervidae	A*
2881a		Bklt/12 (Sc#2881) (die cut 13¼×13) (s/a)		
2882	\$1.20	American Beaver, <i>Castor canadensis</i>	Castoridae	A*
2882a		Bklt/6 (Sc#2882) (die cut 13¼×13) (s/a)		
2883	\$2.50	Polar Bear, <i>Ursus maritimus</i>	Ursidae	A*
2883a		Bklt/6 (Sc#2883) (die cut 13¼×13) (s/a)		

CHAD**2012 September 4** (Marine Life & Lighthouses) (Set/4, SS/4 & 4ea SS/1)

1003	200fr	Northern Elephant Seal, <i>Mirounga angustirostris</i>	Phocidae	A*
1004	200fr	Walrus, <i>Odobenus rosmarus</i>	Odobenidae	A*
1005	200fr	Crabeater Seal, <i>Lobodon carcinophagus</i>	Phocidae	A*
1006	200fr	Walrus, <i>Odobenus rosmarus</i>	Odobenidae	A*
Margin	LL:	Harbor Seal, <i>Phoca vitulina</i>	Phocidae	Z*
	Bot:	South American Fur Seal, <i>Arctocephalus pusillus</i>	Otariidae	Z*
	LR:	Walrus, <i>Odobenus rosmarus</i>	Odobenidae	Z*

CHILE		2015 April 7 (South Andean Deer) (Block/4)		
1617a	600p	Chilean Guemal, <i>Hippocamelus bisulcus</i> (facing front)	Cervidae	A*
1617b	600p	Chilean Guemal, <i>Hippocamelus bisulcus</i> (facing right)	Cervidae	A*
1617c	600p	Chilean Guemal, <i>Hippocamelus bisulcus</i> (facing left)	Cervidae	A*
1617d	600p	Chilean Guemal, <i>Hippocamelus bisulcus</i> (head with moon)	Cervidae	A*
COLOMBIA		2015 July 14 (Fauna) (Set/7) (s/a)		
1421	5000p	Brown Spider Monkey, <i>Ateles hybridus</i>	Atelidae	A*
CUBA		2014 October 4 (Marine Life) (Set/6)		
5572	65c	Sperm Whale, <i>Physeter catodon</i>	Physeteridae	A*
ESTONIA		2015 August 25 (Otter)		
793	55c	European Otter, <i>Lutra lutra</i>	Mustelidae	A*
FALKLAND ISLANDS		2015 November 30 (20th anniv Elephant Seal Research Group) (3ea Pair)		
1150a	30p	Southern Elephant Seal, <i>Mirounga leonina</i> (in water)	Phocidae	A*
1150b	30p	Southern Elephant Seal, <i>Mirounga leonina</i> (researcher/equip)	Phocidae	A*
1151a	75p	Southern Elephant Seal, <i>Mirounga leonina</i> (pod on beach)	Phocidae	A*
1151b	75p	Southern Elephant Seal, <i>Mirounga leonina</i> (w/ researcher)	Phocidae	A*
1152a	£1	Southern Elephant Seal, <i>Mirounga leonina</i> (w/ penguins)	Phocidae	A*
1152b	£1	Southern Elephant Seal, <i>Mirounga leonina</i> (measuring)	Phocidae	A*
GREAT BRITAIN (Alderney)		2015 May 1 (Flora and Fauna) (SS/6)		
520	(54p)	Western European Hedgehog, <i>Erinaceus europaeus</i>	Erinaceidae	A*
523	(74p)	European Rabbit, <i>Oryctolagus cuniculus</i>	Leporidae	A*
524a		SS/6 (Sc#519–24)		
GREAT BRITAIN (Isle of Man)		2015 July 3 (50th anniv Curraghs Wildlife Park) (Set/6)		
1741	44p	Red Panda, <i>Ailurus fulgens</i>	Ailuridae	A*
1742	93p	Ruffed Lemur, <i>Varecia variegata</i>	Lemuridae	A*
1744	£1.24	Fishing Cat, <i>Prionailurus viverrinus</i>	Felidae	A*
1745	£2.38	Rodrigues Flying Fox, <i>Pteropus rodricensis</i>	Pteropodidae	A*
KAZAKHSTAN		2015 January 12 (Naurzum Nature Reserve) (SS/3)		
735c	200te	Moose (Elk), <i>Alces alces</i>	Cervidae	A*
LITHUANIA		2015 January 17 (Endangered Animals) (Set/2)		
1045	71c	European Otter, <i>Lutra lutra</i>	Mustelidae	A*
1046	87c	European Mink, <i>Mustela lutreola</i>	Mustelidae	A*
ROMANIA		2014 September 5 (Animals & Their Food) (Set/4)		
5590	1.40L	Eastern Grey Squirrel, <i>Sciurus carolinensis</i>	Sciuridae	A*
5591	2L	Wild Boar, <i>Sus scrofa</i>	Suidae	A*
5592	8.10L	Brown Bear, <i>Ursus arctos</i>	Ursidae	A*
SLOVENIA		2015 September 25 (Rodents) (Set/3 & SS/1)		
1137	60c	Hazel Dormouse, <i>Muscardinus avellanarius</i>	Myoxidae	A*
1138	64c	Alpine Marmot, <i>Marmota marmota</i>	Sciuridae	A*
1139	92c	Black-bellied Hamster, <i>Cricetus cricetus</i>	Muridae	A*
1140	SS 97c	Eurasian Beaver, <i>Castor fiber</i>	Castoridae	A*



ORNITHOLOGY

Editor

Glenn G. Mertz, BU1455

Corrections/Updates



QATAR – Vol. 60(2), p.59

Update: Sc#1053 and Sc#1059a should have had Vol. 59(1) after the listing to indicate which volume had the picture of the new bird, as listed by C. Braun.

UNITED ARAB EMIRATES – Vol. 60(3), p.99

Update: Sc#1005d should have had Vol. 59(4) after the listing to indicate which volume had the picture of the new bird, as listed by C. Braun.

VIETNAM – Vol. 60(1), p.28

Update: Sc#3385 should have had Vol. 59(4) after the listing to indicate which volume had the picture of the new bird, as listed by C. Braun.

New Issues

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ANTIGUA & BARBUDA		2015 January 2 (Hummingbirds) (2ea MS/4 & 2ea SS/2)		A*
3259a	\$3.25	Broad-tailed Hummingbird, <i>Selasphorus platycercus</i>	Trochilidae	
3259b	\$3.25	Broad-billed Hummingbird, <i>Cynanthus latirostris</i>	Trochilidae	
3259c	\$3.25	Rufous-tailed Hummingbird, <i>Amazilia tzacatl</i>	Trochilidae	
3259d	\$3.25	Allen's Hummingbird, <i>Selasphorus sasin</i>	Trochilidae	
3260a	\$3.25	Allen's Hummingbird, <i>Selasphorus sasin</i>	Trochilidae	
3260b	\$3.25	Broad-tailed Hummingbird, <i>Selasphorus platycercus</i>	Trochilidae	
3260c	\$3.25	Broad-billed Hummingbird, <i>Cynanthus latirostris</i>	Trochilidae	
3260d	\$3.25	Ruby-throated Hummingbird, <i>Archilochus colubris</i>	Trochilidae	
3261a	SS \$5.00	Ruby-throated Hummingbird, <i>Archilochus colubris</i>	Trochilidae	
3261b	SS \$5.00	Buff-bellied Hummingbird, <i>Amazilia yucatanensis</i>	Trochilidae	Vol. 64(1)
3262a	SS \$5.00	Anna's Hummingbird, <i>Calypte anna</i>	Trochilidae	
3262b	\$5.00	Calliope Hummingbird, <i>Selasphorus calliope</i>	Trochilidae	
		2015 January 2 (Macaws) (2ea MS/4 & 2ea SS/2)		A*
3263a	\$3.25	Red-shouldered Macaw, <i>Diopsittaca nobilis</i>	Psittacidae	
3263b	\$3.25	Hyacinth Macaw, <i>Anodorhynchus hyacinthinus</i>	Psittacidae	
3263c	\$3.25	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
3263d	\$3.25	Military Macaw, <i>Ara militaris</i>	Psittacidae	
3264a	\$3.25	Blue-headed Macaw, <i>Primolius couloni</i>	Psittacidae	
3264b	\$3.25	Blue-throated Macaw, <i>Ara glaucogularis</i>	Psittacidae	
3264c	\$3.25	Catalin Macaw, no scientific name A hybrid cross between a Scarlet Macaw and a Blue-and-yellow (Gold) Macaw.		
3264d	\$3.25	Miligold Macaw, no scientific name A hybrid cross between a Military Macaw and a Blue-and-yellow (Gold) Macaw.		
3265a	SS \$5.00	Harlequin Macaw; scientific name is hybrid A hybrid cross between a Blue-and-yellow (Gold) Macaw and a Green Wing Macaw.		
3265b	SS \$5.00	Green-winged or Red-and-Green Macaw, <i>Ara chloropterus</i>	Psittacidae	
3266a	SS \$5.00	Great Green Macaw, <i>Ara ambiguous</i>	Psittacidae	
3266b	SS \$5.00	Red-and-green Macaw, <i>Ara chloropterus</i>	Psittacidae	

ANTIGUA & BARBUDA (continued) 2015 January 2 (Ducks) (2ea MS/4 & 2ea SS/2)**A***

3267a	\$3.25	Hartlaub's Duck, <i>Pteronetta hartlaubii</i>	Anatidae
3267b	\$3.25	Wood Duck, <i>Aix sponsa</i>	Anatidae
3267c	\$3.25	Common Shelduck, <i>Tadorna tadorna</i>	Anatidae
3267d	\$3.25	Mallard, <i>Anas platyrhynchos</i>	Anatidae
3267	Margin	R & LR: U/I duck UR: U/I duck	
3268a	\$3.25	Ruddy Shelduck, <i>Tadorna ferruginea</i>	Anatidae
3268b	\$3.25	White-backed Duck, <i>Thalassornis leuconotus</i>	Anatidae
3268c	\$3.25	Comb Duck, <i>Sarkidiornis melanotos</i>	Anatidae
3268d	\$3.25	Fulvous Whistling-Duck, <i>Dendrocygna bicolor</i>	Anatidae
3268	Margin	Top: U/I duck Bot & LR: Ruddy Duck, <i>Oxyura jamaicensis</i>	Anatidae
3269a	SS \$5.00	Egyptian Goose, <i>Alopochen aegyptiaca</i>	Anatidae
3269b	SS \$5.00	Top: Chiloé Wigeon, <i>Anas sibilatrix</i> Bot: Northern Pintail, <i>Anas acuta</i>	Anatidae Anatidae
3269	Margin	Top: U/I duck UR: U/I duck MR: U/I duck LR: U/I duck	
3270a	SS \$5.00	White-faced Whistling-Duck, <i>Dendrocygna viduata</i>	Anatidae
3270b	SS \$5.00	Top: Red-billed Teal, <i>Anas erythrorhyncha</i> Bot: Yellow-billed Duck, <i>Anas undulate</i>	Anatidae Anatidae
3270	Margin	Top: U/I duck UR: U/I duck MR: Magpie Goose, <i>Anseranas semipalmata</i> LR: U/I duck	Anseranatidae

ARGENTINA**2014 August 11****C***

A single SS with two circular stamps (Sc#2741a–b) for the Philakorea 2014 International Philatelic Exhibition held in Seoul. The sheet is lithographed and silk-screened with foil application. Only one bird is identified.

2741a	SS 15p	Eurasian Magpie, <i>Pica pica</i>	Corvidae
2741b	SS 15p	Three stylized ducks	
2741	Margin	Top: Stylized crane	

2015 September 22 (Toucans) (MS/4)**A***

2771a	7p	Red-breasted Toucan, <i>Ramphastos dicolorus</i>	Ramphastidae
2771b	7p	Toco Toucan, <i>Ramphastos toco</i>	Ramphastidae
2771c	7p	Saffron Toucanet, <i>Pteroglossus bailloni</i>	Ramphastidae
2771d	7p	Spot-billed Toucanet, <i>Selenidera maculirostris</i>	Ramphastidae

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ARUBA**2015 August 28 (Ostrich) (Block/10+5 labels)****A***

All the stamps and labels are of the Common Ostrich, *Struthio camelus*, Struthionidae

468a	225c	Juvenile facing right, both feet on the ground
468b	225c	Chick facing right, one foot raised
468c	225c	Adult facing left, bending with neck curved
468d	225c	Adult facing left, with head up
468e	225c	Two chicks
468f	225c	Head of chick
468g	225c	Head of adult
468h	225c	Adult facing right
468i	225c	Head of adult, near chick
468j	225c	Adult and juvenile

BAHAMAS**2015 March 6****B***

Three stamps (Sc#1428–30) for “World Day of Prayer,” with one stamp featuring flamingos.

1429 50c American Flamingo, *Phoenicopterus ruber* Phoenicopteridae

BELARUS**2014 November 27****B***

A horiz Strip/4 & Bklt/4 of “Wildlife of Naliboki Forest,” with each stamp featuring a bird with other wildlife.

922a A (1600r) Eurasian Wren, *Troglodytes troglodytes* Troglodytidae

922b N (5000r) Eurasian Sparrowhawk, *Accipiter nisus* Accipitridae

922c M (6500r) Great Spotted Woodpecker, *Dendrocopos major* Picidae

922d H (7500r) Goldcrest, *Regulus regulus* Regulidae

922e Bklt/4 (Sc#922a–d)

2015, April 1 (Bird of the Year)**A***

936 P (8000r) Long-eared Owl, *Asio otus* Strigidae

2015 September 1**C***

A Set/4 & SS/4 se-tenant stamps (Sc#951–54) of the Speckled Ground Squirrel, *Spermophilus suslicus*, with one stamp featuring a harrier in the upper right background corner. Each stamp has the WWF Panda emblem.

951 A (3600r) Eurasian Marsh-Harrier, *Circus aeruginosus* Accipitridae

954a SS/4 (Sc#951–54)

BELGIUM**2015 March 23****A***

A MS/10 (Sc#2747a–j) with five se-tenant on top half of the sheet and five se-tenant on the bottom half of the sheet, of “Birds and Mammals,” with top five stamps all featuring birds. The five bottom stamps feature a Red Deer, Ermine, European Otter, Brown Hare, and Red Squirrel.

2747a (72c) Greylag Goose, *Anser anser* Anatidae

2747b (72c) Mute Swan, *Cygnus olor* Anatidae

2747c (72c) Gray Heron, *Ardea cinerea* Ardeidae

2747d (72c) Eurasian Eagle-Owl, *Bubo bubo* Strigidae

2747e (72c) Eurasian Coot, *Fulica atra* Rallidae

2015 June 1 (Registration Stamp)**A***

F5 (€5.13) Northern Shoveler, *Anas clypeata* Anatidae

BOSNIA & HERZEGOVINA (Serb) 2015 September 3 (Birds) (Horiz Strip/4)**A***

532a 90pf Skylark, *Alauda arvensis* Alaudidae

532b 90pf European Goldfinch, *Spinus carduelis* Fringillidae

532c 90pf Common Nightingale, *Luscinia megarhynchos* Muscicapidae

532d 90pf Eurasian Blackbird, *Turdus merula* Turdidae

BOTSWANA**2013 January 11 (Surch on 2012 Definitive)****A***

935A 7.30p Kurrichane Thrush, *Turdus libonyana* (Sc#625 surch) Turdidae

BRITISH ANTARCTIC TERR.**2015 November 17****B***

Set/5 (Sc#496–500) for “Wildlife and Huts,” with three stamps featuring birds.

497 66p Adelie Penguin, *Pygoscelis adeliae* Spheniscidae

498 76p Brown Skua, *Stercorarius antarcticus* Stercorariidae

499 £1.01 Antarctic Shag, *Phalacrocorax bransfieldensis* Phalacrocoracidae

CHAD**2012 September 4****B***

Set/4, SS/4 & 4ea SS/1 of “Seabirds & Lighthouses.” A SS/1 exists for each single stamp with other birds in the margin, but no Scott numbers are assigned.

1007 300fr Cape Gannet, *Morus capensis* Sulidae

1008 300fr Cape Cormorant, *Phalacrocorax capense* Phalacrocoracidae

CHAD (continued)

1009	300fr	Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae
1010	300fr	Little Pied Cormorant, <i>Phalacrocorax melanoleucos</i>	Phalacrocoracidae
	Margin	LR: Black-browed Albatross, <i>Thalassarche melanophris</i>	Diomedidae
		Bot: White-eyed Gull, <i>Ichthyaelus leucophthalmus</i>	Laridae
		LL: Black Guillemot, <i>Cepphus grylle</i>	Alcidae
SS 300fr		Cape Gannet, <i>Morus capensis</i>	Sulidae
	Margin	LL: European Storm-Petrel, <i>Hydrobates pelagicus</i>	Hydrobatidae
		Bot: Common Tern, <i>Sterna hirundo</i>	Laridae
		LR: Short-tailed Albatross, <i>Phoebastria albatrus</i>	Diomedidae
SS 300fr		Cape Cormorant, <i>Phalacrocorax capense</i>	Phalacrocoracidae
	Margin	LL: Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae
		Bot: Red-tailed Tropicbird, <i>Phaethon rubricauda</i>	Phaethontidae
		LR: Cape Cormorant, <i>Phalacrocorax capense</i>	Phalacrocoracidae
SS 300fr		Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae
	Margin	LL: Greater Sand-Plover, <i>Charadrius leschenaultia</i>	Charadriidae
		Bot: Black Tern, <i>Chlidonias niger</i>	Laridae
		LR: Ruddy Turnstone, <i>Arenaria interpres</i>	Scolopacidae
SS 300fr		Little Pied Cormorant, <i>Phalacrocorax melanoleucos</i>	Phalacrocoracidae
	Margin	LL: Great Black-backed Gull, <i>Larus marinus</i>	Laridae
		Bot: Eurasian Oystercatcher, <i>Haematopus ostralegus</i>	Haematopodidae
		LR: Little Pied Cormorant, <i>Phalacrocorax melanoleucos</i>	Phalacrocoracidae

CHINA (Taiwan)**2015 April 25****A***

Set/2, both birds, for "Taipei 2015 Intl. Stamp Exhibition." Designer: Delta Design Corp. Printed by Cartor.

4238	\$10	Black-winged Stilt, <i>Himantopus himantopus</i>	Recurvirostridae
4239	\$25	Black-faced Spoonbill, <i>Platalea minor</i>	Threskiornithidae
4239a		Horiz pair (Sc#4238–39) + label	
4239b		Vert pair (Sc#4238–39) no label	

2015 October 8**A***

SS/2, printed on silk-faced paper, of paintings by Giuseppe Castiglione (Lang Shining).

4265a	\$12	Golden Pheasant, <i>Chrysolophus pictus</i>	Phasianidae
4265b	\$70	Same species	

CHINA (People's Republic)**2014 July 6****C***

Set/3 (Sc#4208–10) for Huangmei Opera, with one stamp featuring birds in the background.

4208	80f	Eurasian Magpie, <i>Pica pica</i>	Corvidae
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COCOS ISLANDS**2015 April 22****A***

Set/4, all of birds, for "Worldwide Fund for Nature." Each stamp has the WWF panda emblem.

379	70c	Herald Petrel, <i>Pterodroma heraldica</i>	Procellariidae	
380	70c	Oriental Pratincole, <i>Glareola maldivarum</i>	Glareolidae	
381	70c	Little Curlew, <i>Numenius minutus</i>	Scolopacidae	new
382	70c	Indian Yellow-nosed Albatross, <i>Thalassarche chlororhynchos carteri</i>	Diomedidae	
(This is a subspecies of Yellow-nosed Albatross.)				

COLOMBIA**2015, July 14****A***

Set/7 (Sc#1417–23) of fauna, with two stamps featuring birds.

1418	500p	Colorful Puffleg, <i>Eriocnemis mirabilis</i>	Trochilidae	Vol. 64(3)
1419	1000p	Chestnut-bellied Flowerpiercer, <i>Diglossa gloriosissima</i>	Emberizidae	Vol. 64(3)

COOK ISLANDS**2014 November 28****A***

Set/4 without white frames and Strip/4 with white frames plus SS/1 for “Worldwide Fund for Nature.” All show various depictions of the Spotless Crake, *Porzana tabuensis*, and carry the WWF panda emblem.

1520	\$1	Spotless Crake, <i>Porzana tabuensis</i> (w/ white frame)	Rallidae
1524a	\$1	Same species (w/o white frame)	
1521	\$1.30	Same species (w/ white frame)	
1524b	\$1.30	Same species (w/o white frame)	
1522	\$1.50	Same species (w/ white frame)	
1524c	\$1.50	Same species (w/o white frame)	
1523	\$1.70	Same species (w/ white frame)	
1524d	\$1.70	Same species (w/o white frame)	
1525	SS \$7.50	Same species	

CUBA**2014 November 28** (40th anniv Diplomatic Relations with Bahamas) **B***

5595	3p	Laughing Gull, <i>Leucophaeus atricilla</i>	Laridae
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2014 December 15**A***

Set/6 (Sc#5599–5604) and SS/1 of “Protected Flora and Fauna,” with two stamps and SS featuring birds.

5599	5c	Cuban Tody, <i>Todus multicolor</i>	Todidae
5603	85c	Blue-headed Quail-Dove, <i>Starnoenas cyanocephala</i>	Columbidae
5605	SS 1p	Fernandina’s Flicker, <i>Colaptes fernandinae</i>	Picidae

DENMARK**2015 January 2****A***

SS/3 of “Animals in Wadden Sea National Park,” with one stamp featuring a bird. Designed by Post Danmark Stamps. Engraved by Bertil Skov Jorgensen in a combination of intaglio and offset. These were also issued in an s/a SS/3 not listed in the Scott Catalogue.

1705b	10k	Black-tailed Godwit, <i>Limosa limosa</i>	Scolopacidae
1705		SS/3 (Sc#1705a–c) (perf 13)	
1707	10k	Same species (die cut 13½×13¼) (s/a)	

DOMINICAN REPUBLIC**2015 May 22****A***

Four SS/12 (Sc#1572–75) for “National Parks of the Dominican Republic.” Two of the sheets each feature one bird.

1574c	20p	Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae
1575i	20p	Black-crowned Palm-Tanager, <i>Phaenicophilus palmarum</i>	Thraupidae

ECUADOR**2015 June 16****A***

Set/5, all of endemic birds. Illustrations by Paul I. Greenfield. Each stamp has the Jocotoco Foundation logo.

2154	25c	Jocotoco Antpitta, <i>Grallaria ridgelyi</i>	Formicariidae	
2155	50c	Lilacine Parrot, <i>Amazona autumnalis lilacina</i> (subspecies of Red-lored Parrot)	Psittacidae	Vol. 64(3)
2156	\$1	Pale-headed Brush-Finch, <i>Atlapetes pallidiceps</i>	Emberizidae	Vol. 64(3)
2157	\$2	White-necked Parakeet, <i>Pyrrhura albipectus</i>	Psittacidae	Vol. 64(3)
2158	\$3	Esmeralda Woodstar, <i>Chaetocercus berlepschi</i>	Trochilidae	Vol. 64(3)

EGYPT**2014 December 10** (Birds) (Block/6+3 labels)**A***

2133a	£1.25	Laughing Dove, <i>Streptopelia senegalensis</i>	Columbidae
2133b	£1.25	Eurasian Hoopoe, <i>Upupa epops</i>	Upupidae
2133c	£1.25	European Roller, <i>Coracias garrulus</i>	Coraciidae
2133d	£1.25	European Bee-eater, <i>Merops apiaster</i>	Meropidae
2133e	£1.25	Sooty Falcon, <i>Falco concolor</i>	Falconidae
2133f	£1.25	Eurasian Golden Oriole, <i>Oriolus oriolus</i>	Oriolidae

FALKLAND ISLANDS**2015 May 12****A***

Two pairs in Set IV of Falkland Island's ongoing Color in Nature Type of 2012. Each pair contains one bird.

1136a 30p White-bridled Finch, *Melanodera melanodera* Emberizidae
(Cap: Black-throated Finch)

1137a 75p Dolphin Gull, *Leucophaeus scoresbii* Laridae

2015 August 21 (Wildlife) (Set/4)**A***

1142 30p Magellanic Penguin, *Spheniscus magellanicus* Spheniscidae

1144 £1 Brown Skua, *Stercorarius antarcticus* Stercorariidae

1145 £1.20 Magellanic Penguin, *Spheniscus magellanicus* Spheniscidae

2015 November 30**C***

Three pairs for the 20th Anniversary of the Elephant Seal Research Group, with one stamp featuring penguins.

1152a £1 Gentoo Penguin, *Pygoscelis papua* Spheniscidae

FINLAND**2012 September 3 (Autumn Dreams) (MS/5) (s/a)****C***

1415c (80c) Mute Swan, *Cygnus olor* (in background) Anatidae

FRANCE**2015 July 31 (Animal Eyes) (Bklt/12) (s/a)****A***

4842 (76c) Southern White-faced Owl, *Ptilopsis granti* (eye close-up) Strigidae

4844 (76c) White-throated Toucan, *Ramphastos tucanus* (eye close-up) Ramphastidae

4845 (76c) Red Junglefowl, *Gallus gallus* (eye close-up) Phasianidae

4847 (76c) Hyacinth Macaw, *Anodorhynchus hyacinthinus* (eye close-up) Psittacidae

4850 (76c) Secretarybird, *Sagittarius serpentarius* (eye close-up) Sagittariidae

4852 (76c) Lammergeier, *Gypaetus barbatus* (eye close-up) Accipitridae

4852a Bklt/12 (Sc#4841–52)

2015 September 25 (300th anniv Landing on Mauritius)**C***

4874 76c White-tailed Tropicbird, *Phaethon lepturus* Phaethontidae

GEORGIA**2014 December 22 (Swallows & Flowers) (dated 2013)****C***

492 3l Barn Swallow, *Hirundo rustica* Hirundinidae

2014 December 22 (Love) (MS/4) (dated 2013)**C***

496b 2l Great Tit, *Parus major* Paridae

496c 2l Lilac-breasted Roller, *Coracias caudate* Coraciidae

GREAT BRITAIN (Isle of Man)**2013 October 17 (Christmas) (Set/6)****A***

1606 108p European Robin, *Erithacus rubecula* Muscicapidae

2015 July 3**A***

Set/6 (Sc#1740–45) for 50th anniversary of Curraghs Wildlife Park, with two stamps featuring birds. Printed by Cartor. Other stamps in the set are Red Panda, Ruffed Lemur, Fishing Cat, and Rodrigues Fruit Bat.

1740 44p Humboldt Penguin, *Spheniscus humboldti* Spheniscidae
(Designer: Patricia Harvey)

1743 £1.13 Bald Ibis, *Geronticus eremite* Threskiornithidae
(Designer: Chris Blyth) (Cap: Waldrapp Ibis)

HONDURAS**2012 December 6****B***

MS/6+3 labels (Sc#C1307a–f) depicting scenes from Blanca Jeannette Kawas National Park. Only one stamp features birds. Kawas, an environmental activist, was murdered in 1995.

C1307c 15l Brown Pelican, *Pelecanus occidentalis* Pelecanidae

2014 June (Wildlife Conservation) (Set/8)**A***

C1313 15l Burrowing Owl, *Athene cunicularia* Strigidae

C1315 50l Honduran Emerald, *Amazilia luciae* Trochilidae

HONDURAS (continued)		2015 April 9 (Environmental Protection) (Set/8)	A*
C1341	5l	Honduran Emerald, <i>Amazilia luciae</i>	Trochilidae
HUNGARY		2014 March 4	B*
MS/12 (Sc#4306a–l) showing heads of animals recently born at the Budapest Zoo, with one stamp featuring a bird.			
4306j	115fo	African Penguin, <i>Spheniscus demersus</i>	Spheniscidae
		2015 January 16	A*
Set/2 and SS/2 for the 34th Racing Pigeon Olympias held in Budapest.			
4338	115fo	Rock Dove, <i>Columbia livia</i>	Columbidae
4339	145fo	Rock Dove, <i>Columbia livia</i>	Columbidae
4340a	450fo	Rock Dove, <i>Columbia livia</i>	Columbidae
INDIA		2013 December 1	B*
A single stamp celebrating the 50th anniversary of Nagaland, with the bird as part of the design.			
2672	500r	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae
IRAN		2010 November 14	C*
A single stamp issued for the 18th Book Week not previously listed here. The stamp features a book tied with a ribbon and a bird nipping at the ribbon.			
3028	2000r	White Wagtail, <i>Motacilla alba</i>	Motacillidae
ISRAEL		2015 April 14 (Memorial Day)	B*
2054	2.20s	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae
ITALY		2015 April 24 (170th anniv Fernet Branca Liqueur)	B*
3297	80c	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae
KAZAKHSTAN		2015 January 12 (Naurzum Nature Reserve) (SS/3)	A*
735b	200te	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae
KOREA (North)		2013 May 22 (Owls) (MS/8)	A*
5179a	40w	Northern Hawk-Owl, <i>Surnia ulula</i>	Strigidae
5179b	60w	Snowy Owl, <i>Bubo scandiacus</i> (Cap: <i>Nyctea scandiaca</i>)	Strigidae
5179c	80w	Little Owl, <i>Athene noctua</i>	Strigidae
5179d	100w	Barn Owl, <i>Tyto alba</i>	Tytonidae
5179e		Bklt/4+2 labels (Sc#5179a–d)	
5179		MS/8 (2ea Sc#5179a–d)	
KYRGYZ EXPRESS POST		2015 May 14 (Falconry) (Set/3 & SS/3)	A*
6	75s	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae
7	75s	Saker Falcon, <i>Falco cherrug</i>	Falconidae
8	75s	Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae
8a		SS/3+3 labels (Sc#6–8)	
	Labels	Saker Falcon, <i>Falco cherrug</i>	Falconidae
LATVIA		2015 June 26 (Birds) (Set/2)	A*
913	71c	Eurasian Golden Oriole, <i>Oriolus oriolus</i>	Oriolidae
914	€1.42	European Golden-Plover, <i>Pluvialis apricaria</i>	Charadriidae
MACAO		2013 November 1 (Chinese Calligraphy & Painting) (SS/1)	A*
1403	SS 12p	Eurasian Tree Sparrow, <i>Passer montanus</i>	Passeridae

MARSHALL ISLANDS**2015 July 7****A**

MS/15 titled "Winged Wonders," in old monochrome prints.

1117a	49c	Red-billed Hornbill, <i>Tockus erythrorhynchus</i>	Bucerotidae	
1117b	49c	Great Black-backed Gull, <i>Larus marinus</i>	Laridae	
1117c	49c	Barn Owl, <i>Tyto alba</i>	Tytonidae	
1117d	49c	Great White Pelican, <i>Pelecanus onocrotalus</i>	Pelecanidae	
1117e	49c	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae	
1117f	49c	Tibetan Eared-Pheasant, <i>Crossoptilon harmani</i> (Subspecies of White Eared-Pheasant)	Phasianidae	new
1117g	49c	Waldrapp, <i>Geronticus eremite</i>	Threskiornithidae	
1117h	49c	Gray Heron, <i>Ardea cinerea</i>	Ardeidae	
1117i	49c	Lammergeier, <i>Gypaetus barbatus</i>	Accipitridae	
1117j	49c	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
1117k	49c	Great Cormorant, <i>Phalacrocorax carbo</i>	Phalacrocoracidae	
1117l	49c	Great Egret, <i>Ardea alba</i>	Ardeidae	
1117m	49c	Broad-winged Hawk, <i>Buteo platypterus</i>	Accipitridae	
1117n	49c	Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	
1117o	49c	Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae	

MOLDOVA**2013 May 18****A***

Set/2 (Sc#786–87) and SS/1 for "Animals in the Chisinau Zoo." The SS has the bird species. Designer: Vitalie Rosca. Offset by Nova Imprin. The non-bird species are a Snow Leopard, *Panthera uncia*, and Bennett's Wallaby, *Macropus rufogriseus*.

788	SS 5.75l	Indian Peafowl, <i>Pavo cristatus</i>	Phasianidae	
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2014 November 7 (Fauna of Moldova) (Set/6 & SS/6)**A***

839	1.50l	White Stork, <i>Ciconia ciconia</i>	Ciconiidae	
843	8.50l	Western Yellow Wagtail, <i>Motacilla flava</i>	Motacillidae	
843a		SS/6 (Sc#838–43)		

MONACO**2015 January 14** (Grace Kelly Movies) (Set/2)**S B***

2783	€1.50	Stylized Mute Swan, <i>Cygnus olor</i>	Anatidae	
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NEW CALEDONIA**2009 September****C***

Two s/a personalized stamps with the personalized part of the stamp on the left side and the Kagu on the right side.

1079A	(75fr)	Kagu, <i>Rhynochetos jubatus</i>	Rhynochetidae	
1079B	110fr	Same species		

2015 June 5**A***

SS/3 featuring Herons of New Caledonia. Designer: J. J. Mahuteau.

1197a	110fr	Rufous Night-Heron, <i>Nycticorax caledonicus</i>	Ardeidae	
1197b	110fr	Pacific Reef-Heron, <i>Egretta sacra</i>	Ardeidae	
1197c	110fr	White-faced Heron, <i>Egretta novaehollandiae</i>	Ardeidae	

POLAND**2015 October 23** (Owls) (MS/4+4 labels)**A***

4193a	2.35z	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
4193b	2.35z	Boreal Owl, <i>Aegolius funereus</i>	Strigidae	
4193c	2.35z	Barn Owl, <i>Tyto alba</i>	Tytonidae	
4193d	2.35z	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	

ROMANIA**2013 October 25** (Fauna of Romania) (Set/4)**A***

5494	4.50l	Eurasian Three-toed Woodpecker, <i>Picoides tridactylus</i>	Picidae
5494a		Sheet/5 + label (Sc#5494)	

2014 March 24**A***

Set/4 featuring ducks. Each also issued in Sheet/5 plus label. Designer: Livia Penda.

5536	1.20l	Mallard, <i>Anas platyrhynchos</i>	Anatidae
5536a		Sheet/5 + label (Sc#5536)	
5537	1.40l	Tufted Duck, <i>Aythya fuligula</i>	Anatidae
5537a		Sheet/5 + label (Sc#5537)	
5538	8.10l	Northern Shoveler, <i>Anas clypeata</i>	Anatidae
5538a		Sheet/5 + label (Sc#5538)	
5539	14.50l	Eurasian Teal, <i>Anas crecca</i>	Anatidae
5539a		Sheet/5 + label (Sc#5539)	

2014 September 14 (Animals & Their Food) (Set/4)**A***

5593	14.50l	European Starling, <i>Sturnus vulgaris</i>	Sturnidae
5593a		Sheet/5 + label (Sc#5593)	

ST. MARTIN**2015 March 15** (Banknotes) (Block/6)**B***

65d	330c	African Fish-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae
65e	500c	Northern Carmine Bee-eater, <i>Merops nubicus</i>	Meropidae

ST VINCENT (Canouan)**2014 November 5****A***

These two stamps, issued by Grenadines of St. Vincent, for the island of Canouan, for Taipei 2015, will not be listed in the Scott Catalogue. (See Vol. 63(2), p. 110, for Scott's reasoning.) However, I am listing them here for those collectors who may want them for their collection.

On January 26, 2016, I emailed Marty Frankevicz, for any updates regarding issues by Grenadines of St. Vincent, as well as to inquire about Union Island, which is also part of Grenadines of St. Vincent. His reply is as follows:

"Union Island is inhabited and one of the islands for which numerous stamps have been created over the years. With the recent Grenadines Island issues, the reason why we have ceased listing the stamps for the various islands is because these stamps do not appear to be valid for postal use anymore.

"Items created for uninhabited islands wouldn't be listable merely because there are no postal facilities on those island, thus, there is no need to create separate postage stamps for such places. None of the St. Vincent Island issues will be listed until we learn that the stamps are indeed valid for postage. It's been about seven years now since we suspended listing them and nobody has shown us a commercial cover bearing any of these stamps mailed from the islands, or even the main island."

n/a	\$2	Formosan Magpie, <i>Urocissa caerulea</i>	Corvidae
n/a	\$2	Steere's Liocichla, <i>Liocichla steerii</i>	Leiotherichidae

ST VINCENT (Mustique)**2014 May 5** (Ducks) (2ea MS/4 & 2ea SS/2) (see note above)**A***

n/a	\$3.25	Common Eider, <i>Somateria mollissima</i>	Anatidae
n/a	\$3.25	Falcated Duck, <i>Anas falcate</i>	Anatidae
n/a	\$3.25	Ruddy Duck, <i>Oxyura jamaicensis</i>	Anatidae
n/a	\$3.25	Harlequin Duck, <i>Histrionicus histrionicus</i>	Anatidae
n/a	SS \$5	Muscovy Duck, <i>Cairina moschata</i>	Anatidae
n/a	SS \$5	Mandarin Duck, <i>Aix galericulata</i>	Anatidae
n/a	\$3.25	White-headed Duck, <i>Oxyura leucocephala</i>	Anatidae
n/a	\$3.25	Blue-winged Teal, <i>Anas discors</i>	Anatidae
n/a	\$3.25	Red Shoveler, <i>Anas platalea</i>	Anatidae
n/a	\$3.25	Comb Duck, <i>Sarkidiornis melanotos</i> (Cap: Knob-billed Duck)	Anatidae
n/a	SS \$5	Chestnut Teal, <i>Anas castanea</i>	Anatidae
n/a	SS \$5	Falkland Steamer Duck, <i>Tachyeres brachypterus</i>	Anatidae

ST VINCENT (Union Island)			2013 June 13 (Hummingbirds) (2ea MS/4 & 2ea SS/1)	A*
n/a	\$3.25	Green Mango, <i>Anthracothorax viridis</i>	Trochilidae	
n/a	\$3.25	Antillean Crested Hummingbird, <i>Orthorhynchus</i>	Trochilidae	
n/a	\$3.25	Rufous-tailed Hummingbird, <i>Amazilia tzacatl</i>	Trochilidae	
n/a	\$3.25	Costa's Hummingbird, <i>Calypte costae</i>	Trochilidae	
n/a	\$3.25	Cuban Emerald, <i>Chlorostilbon ricordii</i>	Trochilidae	
n/a	\$3.25	Green Violetear, <i>Colibri thalassinus</i>	Trochilidae	
n/a	\$3.25	Blue-tailed Emerald, <i>Chlorostilbon mellisugus</i>	Trochilidae	
n/a	\$3.25	Green-throated Carib, <i>Eulampis holosericeus</i>	Trochilidae	
n/a	SS \$9	Violet-crowned Woodnymph, <i>Thalurania colombica</i> (C. Braun lists as Crowned Woodnymph, Vol. 63[2])	Trochilidae	
n/a	SS \$9	Purple-throated Carib, <i>Eulampis jugularis</i>	Trochilidae	
			2014 May 14 (Caribbean Parrots) (MS/4, MS/3, & 2ea SS/1)	A*
n/a	\$3.25	Yellow-shouldered Parrot, <i>Amazona barbadensis</i>	Psittacidae	
n/a	\$3.25	Vinaceous-breasted Parrot, <i>Amazona vinacea</i>	Psittacidae	
n/a	\$3.25	Tucuman Parrot, <i>Amazona tucumana</i>	Psittacidae	
n/a	\$3.25	St. Vincent Parrot, <i>Amazona guildingii</i>	Psittacidae	
n/a	SS \$9	Yellow-billed Parrot, <i>Amazona collaria</i>	Psittacidae	
n/a	\$3.50	Hispaniolan Parrot, <i>Amazona ventralis</i>	Psittacidae	
n/a	\$3.50	Lilac-crowned Parrot, <i>Amazona finschi</i>	Psittacidae	
n/a	\$3.50	St. Lucia Parrot, <i>Amazona versicolor</i>	Psittacidae	
n/a	SS \$9	Cuban Parrot, <i>Amazona leucocephala</i>	Psittacidae	
SENEGAL			2013 December 18 (Gueumbeul Reserve) (Set/4)	B*
Three stamps feature birds. The 25fr and 200fr values were designed by Moda Ndiaye and the 50fr and 450fr were designed by Aziz Ba. Printed by Cartor.				
1711	25fr	Mute Swan, <i>Cygnus olor</i>	Anatidae	
1713	200fr	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
		Black Goshawk, <i>Accipiter melanoleucus</i>	Accipitridae	Vol. 63(2)
		Andean Condor, <i>Vultur gryphus</i>	Cathartidae	
		Little Green Woodpecker, <i>Campethera maculosa</i>	Picidae	Vol. 63(2)
1714	450fr	Black-faced Spoonbill, <i>Platalea minor</i>	Threskiornithidae	
		Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	
		Pallid Harrier, <i>Circus macrourus</i>	Accipitridae	
		Pied Avocet, <i>Recurvirostra avosetta</i>	Recurvirostridae	
		Roseate Spoonbill, <i>Platalea ajaja</i>	Threskiornithidae	
		Eastern Yellow-billed Hornbill, <i>Tockus flavirostris</i>	Bucerotidae	
			2014 (Bodies of Water—Lake Rétha)	C*
1719	100fr	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
		Gray Heron, <i>Ardea cinerea</i>	Ardeidae	
TRINIDAD & TOBAGO			2014 July (Type of 2012) (surch)	A*
899	\$1	Bay-headed Tanager, <i>Tangara gyrola</i> (Sc#526 surch)	Thraupidae	
TUNISIA			2015 June 2 (Fauna) (Set/2)	A*
1594	700m	Houbara Bustard, <i>Chlamydotis undulate</i>	Otididae	

NEW BIRDS IN THE PHILATELIC AVIARY

Charles E. Braun, BU1364

New Family in the Philatelic Aviary

Melanopareiidae: Crescent-chests

The four species of crescent-chests were found to be significantly different from tapaculos such that they comprise a new family, placed between Typical Antbirds and Gnateaters. Little is known about their breeding. They are found in arid scrub between Ecuador and northern Argentina.

New Birds



FRECKLED DUCK, *Stictonetta naevosa* Anatidae

St. Vincent, 2015 December 31, not yet cataloged, \$3.25

Length: 20 to 22 inches, resident. Brownish-black with whitish freckles. The male's bill has a crimson base.

Habitat: Heavily vegetated freshwater swamps.

Range: Southeastern and southwestern Australia.

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



NUBIAN BUSTARD, *Neotis nuba* Otididae

Niger, 2015 December 28, not yet cataloged, 750fr

Length: Male 28 inches, female 20 inches, sexes similar, resident. Pale tawny buff above and whitish below with a gray neck and black eye stripes and chin.

Habitat: Arid scrub and savanna.

Range: Western Mauritania to eastern Sudan.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 3.



LITTLE CURLEW, *Numenius minutus* Scolopacidae

Cocos Islands, 2015 March 24, Sc#381, 70c

Length: 11 to 13 inches, sexes alike, migratory. Brown above and white below with buff eye stripes and small spots on the breast.

Habitat: Breeds near water in montane taiga.

Range: Breeds in Siberia. Winters in New Guinea and Australia.

Reference: del Hoyo, J., A. Elliott, and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 3.



LITTLE CUCKOO-DOVE, *Macropygia ruficeps* Columbidae

Sierra Leone, 2015 October 23, not yet cataloged, SS 24000le

Length: 11 to 12 inches, sexes similar, but the female is duller, resident. Reddish brown, paler head and below with blue eyes.

Habitat: Forest and woodlands.

Range: South-central China to Bali.

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



PINK-HEADED FRUIT-DOVE, *Ptilinopus porphyreus* Columbidae

Sierra Leone, 2015 October 23, not yet cataloged, 6000le

Length: 12 inches, sexes similar, resident. Green above, paler below with a purplish-pink head and neck and a black breast band.

Habitat: Forests.

Range: Sumatra to Bali.

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



ROSE-CROWNED FRUIT-DOVE, *Ptilinopus regina* Columbidae

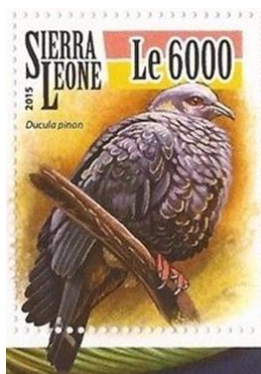
Sierra Leone, 2015 October 23, not yet cataloged, 6000le

Length: 9 inches, sexes similar, resident. Green above and gray and yellow below with a gray head and rose crown.

Habitat: Forests and mangroves.

Range: Lesser Sundas to northern and eastern Australia.

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



PINON IMPERIAL-PIGEON, *Ducula pinon* Columbidae

Sierra Leone, 2015 October 23, not yet cataloged, 6000le

Length: 18 to 19 inches, sexes alike, resident. Mauve to gray with dark wings and tail with a white tail band and bare red skin around the eyes.

Habitat: Forest.

Range: New Guinea.

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



BANDED GROUND-CUCKOO, *Neomorphus radiolosus* Cuculidae

Ecuador, 2015 October 20, not yet cataloged, 25c

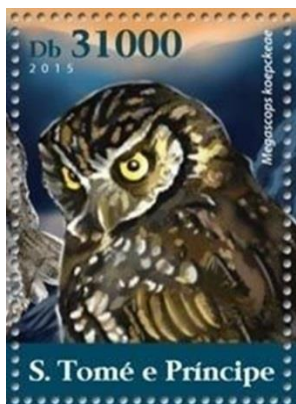
Length: 29 inches, sexes alike, resident. Black, finely banded white below with chestnut wings and blue skin around the eyes.

Habitat: Tropical lowland evergreen forest.

Range: Southwestern Colombia and northwestern Ecuador.

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

[Ed. note: These booklet stamps from Ecuador all appear to have soiled edges. Apparently they were printed that way.]



KOEPCKE'S SCREECH-OWL, *Megascops koepckeae* Strigidae
St. Thomas & Prince, 2015 November 18, not yet cataloged, 31000d

Length: 10 inches, sexes alike, resident. Warm brown above and vermiculated white below with an ochre-brown wash on the neck and breast.

Habitat: Wooded areas and forest patches.

Range: Northwestern Peru to west-central Bolivia.

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



MOTTLED WOOD-OWL, *Strix ocellata* Strigidae
Niger, 2015 December 28, not yet cataloged, 750fr

Length: 16 to 19 inches, sexes alike, resident. Mottled gray above and finely barred white below with a black-barred white facial disc.

Habitat: Wooded plains and groves of fruit trees.

Range: India to western Myanmar.

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



MOTTLED SPINETAIL, *Telecanthura ussheri* Apodidae
Guinea-Bissau, 2015 October 26, not yet cataloged, 750fr

Length: 6 inches, sexes alike, resident. Brown with a mottled throat and a white rump and vent.

Habitat: Dry forest and clearings.

Range: Senegal to Tanzania and western Angola.

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



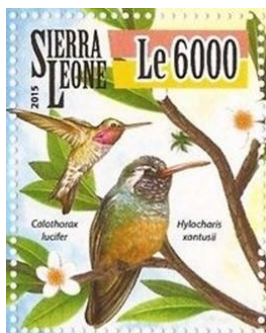
XANTUS'S HUMMINGBIRD, *Basilinna xantusii* Trochilidae
Sierra Leone, 2015 October 23, not yet cataloged, 6000le (Cap: *Hylocharis xantusii*)

Length: 3.5 inches, resident. The male (shown on right) is green above and cinnamon-rufous below with a blue-black head and throat and white neck stripes. The female has a cinnamon-rufous throat.

Habitat: Forest and thorny scrub.

Range: Baja California, Mexico.

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

**LUCIFER HUMMINGBIRD, *Calothorax lucifer*** Trochilidae

Sierra Leone, 2015 October 23, not yet cataloged, 6000le

Length: 4 inches, migratory. The male (shown on left) is green above and green-spotted white below with a magenta throat and white breast. The female is pale buffy cinnamon below.

Habitat: Arid scrub.

Range: Breeds from Arizona and western Texas to central Mexico. Winters in western Mexico.

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

**BUFFY HELMETCREST, *Oxypogon stuebelii*** Trochilidae'

Colombia, 2015 December 14, not yet cataloged, 100p

Length: 5 inches, resident. The male (shown) is bronzy, paler below with a dark brown face edged on buff and a tan crest and beard. The female lacks the crest and beard.

Habitat: Humid open areas.

Range: Western Andes of central Colombia.

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

**YELLOW-THROATED TINKERBIRD, *Pogoniulus subsulphureus***

Lybiidae

Togo, 2015 December 18, not yet cataloged, 950fr

Length: 4 inches, sexes alike, resident. Black above and yellow below with white facial stripes.

Habitat: Streamside forest and forest borders.

Range: Sierra Leone to central Congo.

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

**RED-RUMPED TINKERBIRD, *Pogoniulus atroflavus*** Lybiidae

Togo, 2015 December 18, not yet cataloged, 950fr

Length: 5 inches, sexes alike, resident. Black above and yellow below with a yellow facial stripe and red rump.

Habitat: Forests extending into flood plains.

Range: Senegal to western Uganda and the Republic of Congo.

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

**VIELLOT'S BARBET, *Lybius vieilloti*** Lybiidae

Togo, 2015, not yet cataloged, SS 3000fr

Length: 6 inches, sexes alike, resident. Blackish above and yellow below with a red head and yellow rump.

Habitat: Wooded grasslands, forest edges, and plantations.

Range: Southern Mauritania to Sudan and northeastern Congo.

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



YELLOW-CAPPED PYGMY-PARROT, *Micropsitta keiensis chloroxantha*

Psittaculidae

Congo Republic, 2015, not yet cataloged, 2000fr

Length: 5 inches, sexes alike, resident. Green, paler below with a dusky yellow face and yellow undertail.

Habitat: Forest, coconut plantations, and mangroves.

Range: Western New Guinea and islands off the west coast.

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



DERBYAN PARAKEET, *Psittacula derbiana*

Psittaculidae

Guinea, 2015 November 25, not yet cataloged, SS 40000fr

Length: 18 to 20 inches, resident. The male (shown) is green with a purple face and breast, black throat, and red bill. The female has a black bill.

Habitat: Forests and alpine thickets.

Range: Southeastern Tibet and neighboring China.

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



ROSE-FACED PARROT, *Pyrilia pulchra*

Psittacidae

Ecuador, 2015 October 20, not yet cataloged, 50c

Length: 9 inches, sexes alike, resident. Green above and dull olive-yellow below with a pinky rose face.

Habitat: Wet forest, plantations, and clearings with trees.

Range: Western Colombia to northwestern Ecuador.

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



ELEGANT CRESCENT-CHEST, *Melanopareia elegans*

Melanopareiidae

Ecuador, 2015 October 20, not yet cataloged, \$1

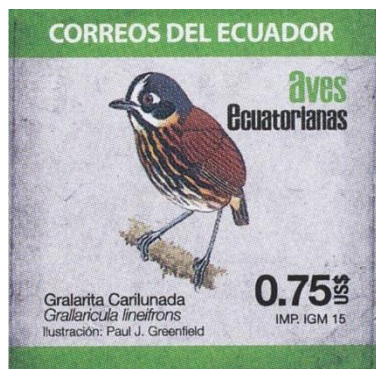
Length: 6 inches, resident. The male (shown) is olive-brown above and rufous below with a chestnut breast band, black crown, and cream-buff supercilium.

The female lacks the breast band and has a brown crown.

Habitat: Dense dry scrub and undergrowth.

Range: Western Ecuador to northwestern Peru.

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



CRESCENT-FACED ANTPITTA, *Grallaricula lineifrons* Grallariidae
Ecuador, 2015 October 20, not yet cataloged, 75c

Length: 5 inches, sexes alike, resident. Olive-brown above and black-streaked buff and white below with a white facial crescent.

Habitat: Undergrowth of humid montane forest.

Range: Andes of southern Colombia and Ecuador.

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



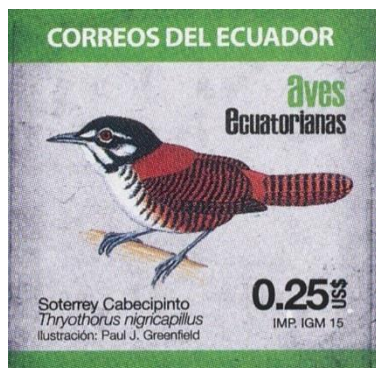
BLACK-NECKED RED-COTINGA, *Phoenicircus nigricollis* Cotingidae
Ecuador, 2015 October 20, not yet cataloged, 50c

Length: 9 inches, resident. The male (shown) is black with a red crown underparts, rump, and tail. The female is olive above and red below.

Habitat: Humid forest.

Range: Extreme southern Venezuela to northeastern Peru and central Brazil.

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



BAY WREN, *Thryothorus nigricapillus nigricapillus* Troglodytidae
Ecuador, 2015 October 20, not yet cataloged, 25c

Length: 6 inches, sexes similar, resident. The stamp shows the nominate subspecies that is chestnut-brown above and white below with a black head and flank streaks.

Habitat: Humid second growth and forest edges.

Range: Southeastern Nicaragua to western Ecuador.

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



MENETRIES'S WARBLER, *Sylvia mystacea* Sylviidae
Sierra Leone, 2015 October 23, not yet cataloged. 6000le

Length: 5 inches, migratory. The male (shown) is gray above and whitish below with a black head. The female has a gray head.

Habitat: Scrub and bushes.

Range: Breeds from northeastern Turkey to Iran. Winters in northeastern Africa.

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



ELFIN WOODS WARBLER, *Setophaga angelae* Parulidae
Sierra Leone, 2015 October 23, not yet cataloged, MS/4 LL Margin

Length: 5 inches, sexes alike, resident. Black above and black-streaked white below with white wing-bars and a broken white eye-ring.

Habitat: Montane elfin forest.

Range: Puerto Rico

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

AUDUBON BIRDS

The World Stamp Show-NY 2016 is fortunate to have a publicist who is obtaining major print, digital, internet, TV, and radio exposure to promote the show and invite the general public to visit. They have asked the Biology Unit through the ATA to help.

There are several Audubon publications that want to feature WSS-NY 2016 while promoting birds-on-stamps. The publicist wanted us to help by providing a few high resolution scans of stamps featuring Audubon birds from various countries.

There are hundreds of such stamps.

On 23 September 2015, Stamperija, a Lithuanian printing firm, on behalf of Saint Thomas and Prince, issued a miniature sheet of four 31,000d stamps and a souvenir sheet of one stamp commemorating the 230th birth anniversary of John James Audubon.



The MS features two portraits of Audubon and images of several different bird species from his most famous work, *The Birds of America*. In 2012, a complete first edition of this work sold for \$7.9 million.

The left-most stamp depicts a self-portrait ca. 1822–23. The third stamp shows a portrait by his son John W. Audubon painted in 1843. The second stamp together with the background of the first and the lower margin has an image taken from Plate 76 sometimes mistakenly called “Virginia Partridge,” but actually featuring the Northern Bobwhite (*Colinus virginianus*) and Red-shouldered Hawk (*Buteo lineatus*).

The fourth stamp and LR margin depicts an image from Plate 201 of New York Historical Society edition showing a Canada Goose (*Branta canadensis*).



HERPETOLOGY

Temporary Editor

Jack R. Congrove, BU1424



[Ed. Note: I am still looking for someone to take over as Associate Editor for this column. This listing is longer than usual because it compensates for the omission in the past two editions and it also includes a large quantity of entries that have not yet received catalog listing. It is doubtful that Scott will ever list some of these entries because they may have been produced without official sanction by the postal authorities of the country they purport to be from. Nonetheless you can find them in the marketplace, so caveat emptor.]

[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
ASCENSION 2015 October 22 (Bicentennial of British Settlement) (Set/4)				
1146	50p	Green Sea Turtle, <i>Chelonia mydas</i> (coat of arms)	Cheloniidae	S C
1147	56p	Green Sea Turtle, <i>Chelonia mydas</i> (coat of arms)	Cheloniidae	S C
BELARUS 2015 October 16 (Frogs) (Set/4 & SS/4)				
961	(3600r)	European Tree Frog, <i>Hyla arborea</i>	Hylidae	A*
962	(7800r)	European Common Frog, <i>Rana temporaria</i>	Ranidae	A*
963	(9600r)	Pool Frog, <i>Rana lessonae</i>	Ranidae	A*
964	(10500r)	European Fire-bellied Toad, <i>Bombina bombina</i>	Bombinatoridae	A*
964a		SS/4 (Sc#961–64)		
BELGIUM 2015 September 7 (Hot Air Balloons) (MS/5)				
2778	Margin	LL: Stylized turtle-shaped balloon		S C
BHUTAN 2015 February 19 (Year of the Sheep 2015) (MS/12)				
1509f	10nu	Stylized snake		S A
COLOMBIA 2015 July 14 (Endangered Fauna) (Set/7) (s/a)				
1417	200p	<i>Allobates juanii</i>	Aromobatidae	A*
1420	2000p	Orinoco Crocodile, <i>Crocodylus intermedius</i>	Crocodylidae	A*
1422	10000p	Golden Poison Frog, <i>Phyllobates terribilis</i> ☠	Dendrobatidae	A*
1423	20000p	Dahl's Toad-headed Turtle, <i>Batrachemys dahli</i>	Chelidae	A*
FRANCE 2015 May 2 (Europa)				
4803	95c	Stylized toy frog		S C
2015 July 31 (Animal Eyes) (Bklt/12) (s/a)				
4843	(76c)	Red-eyed Tree Frog, <i>Agalychnis callidryas</i> (eye close-up)	Hylidae	A
4846	(76c)	Agama Lizard, <i>Agama agama</i> (eye close-up)	Agamidae	A
4848	(76c)	Fiji Banded Iguana, <i>Brachylophus fasciatus</i> (eye close-up)	Iguanidae	A
4849	(76c)	Giant Wall Gecko, <i>Tarentola gigas</i> (eye close-up)	Phyllodactylidae	A
4852a		Bklt/12 (Sc#4841–52)		
HONDURAS 2015 April 10 (Environmental Protection) (Set/8)				
C1342	10L	Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i> (Cap: <i>Jepidochelys olivacea</i>)	Cheloniidae	A*

IVORY COAST**2013 August 12** (Environment)

1192 700fr U/I Sea Turtle (with waterfall)

U B

MONACO**2015 July 1** (Monaco Oceanographic Museum 50 millionth visitor)

2807 76c U/I Sea Turtle

U C

NEW CALEDONIA**2015 June 5** (Children's Art) (Single & Horiz pair)

1194 75fr Stylized snake ("Wildlife," by Eliot-Louis Hatterer)

S C

1195b 75fr Stylized snake ("Flower and Snake," by Thomas Bodeouarou)

S B

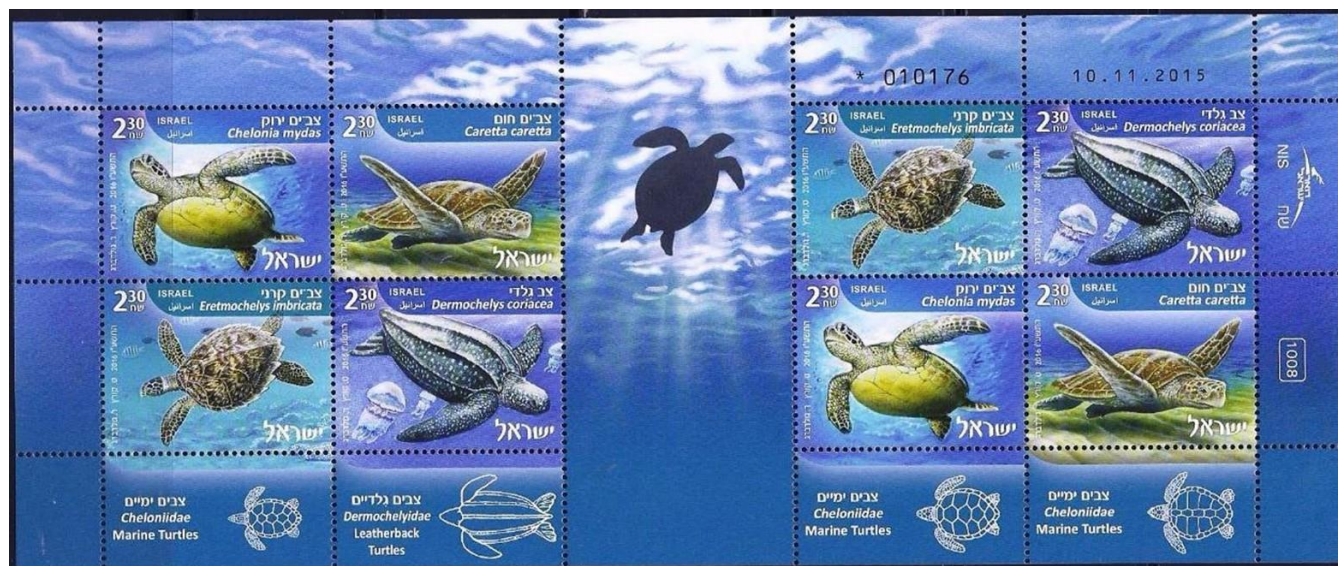
POLAND**2015 September 23** (Quotations from Polish Literature) (Set/2)

4189 2.35z Stylized crocodile balloon (quotation from "Revenge," by Aleksander Fredro)

S B

ISRAEL SEA TURTLES

On 9 February 2016, Israel Post issued a miniature sheet of eight 2.30s stamps with four different designs featuring sea turtle species found in native waters. In fact, each of these species has a worldwide distribution.



Each of the depicted genera is monotypic, meaning the example is the only species in its genus, and all are endangered or threatened due to fishing, pollution, and loss of nesting areas.

The Hawksbill Sea Turtle (*Eretmochelys imbricata*) is the smallest of the marine turtles. The heaviest ever captured weighed 280 pounds (127 kg). It is considered the most beautiful due to the brown, black, and yellow scutes tiled on its shell, which were the primary source of tortoiseshell material. It is distinguished by its sharp, curving beak.

The Green Sea Turtle (*Chelonia mydas*) is named for the color of its fat rather than the color of its skin or shell. It is the only herbivorous species of this group. The largest known individual weighed in at 871 pounds (393 kg).

The Loggerhead Sea Turtle (*Caretta caretta*) is the world's largest hard-shelled turtle and can weigh up to 1200 pounds (545 kg). It is the most prevalent marine turtle in the Mediterranean and nests along Israeli beaches there.

The Leatherback Sea Turtle (*Dermochelys coriacea*) is the largest of all living turtles and the fourth largest modern reptile behind three crocodilians. It can weigh up to 2050 pounds (930 kg). It lacks a bony shell and instead its carapace is covered by skin and oily flesh. It is related to the most primitive true sea turtles.

The sheet was printed in four colors by the Dutch firm of Joh. Enschedé using the offset process.



ICHTHYOLOGY

Editor

Kris P. Lindstrom, LM77

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
BERMUDA 2015 May 21 (Fish) (Set/5)				
1093	35c	Bicolor Coney, <i>Cephalopholis fulva</i>	Serranidae	A*
1094	70c	Blue Angelfish, <i>Holacanthus bermudensis</i>	Pomacanthidae	A*
1095	80c	Mangrove or Gray Snapper, <i>Lutjanus griseus</i>	Lutjanidae	A*
1096	85c	Queen Parrotfish, <i>Scarus vetula</i>	Scaridae	A*
1097	95c	Yellowhead Wrasse, <i>Halichoeres garnoti</i>	Labridae	A*
BOSNIA & HERZEGOVINA (Serb) 2015 September 2 (World Fly Fishing Championships, Jajce) (SS/2)				
531a	1.70m	Grayling, <i>Thymallus thymallus</i> (with fisherman)	Salmonidae	B
531b	1.70m	Brown Trout, <i>Salmo trutta morpha fario</i> (with fisherman)	Salmonidae	B
CHAD 2012 September 4 (Lake Fish) (Set/4, SS/4 & 4ea SS/1)				
999	150fr	Humphead Cichlid, <i>Cyphotilapia frontosa</i>	Cichlidae	B*
1000	150fr	Hump-head, <i>Cyrtocara moorii</i>	Cichlidae	B*
1001	150fr	Super VC-10 Hap, <i>Placidochromis milomo</i>	Cichlidae	B*
1002	150fr	Blue-eyed Tropheus, <i>Tropheus brichardi</i>	Cichlidae	B*
SS 600fr		SS/4 (Sc#999–1002)		
Margin		LL: Senegal Bichir, <i>Polypterus senegalus</i>	Polypteridae	Z*
		LL: Marbled Lungfish, <i>Protopterus aethiopicus</i>	Protopteridae	Z*
		LR: U/I sp.		U Z
2012 September 4 (Sharks & Lighthouses) (Set/4, SS/4 & 4ea SS/1)				
1015	350fr	Tiger Shark, <i>Galeocerdo cuvier</i>	Carcharhinidae	B*
1016	350fr	Longfin Mako, <i>Isurus paucus</i>	Lamnidae	B*
1017	350fr	Great Hammerhead, <i>Sphyrna mokarran</i>	Sphyrnidae	B*
1018	350fr	Great White Shark, <i>Carcharodon carcharias</i>	Carcharhinidae	B*
SS 1400fr		SS/4 (Sc#1015–18)		
Margin		LL: Whale Shark, <i>Rhincodon typus</i>	Rhincodontidae	Z*
		LR: <i>Carcharhinus</i> sp.	Carcharhinidae	Z*
CHINA (People's Republic) 2014 September 30 (Filial Piety) (Set/4)				
4234	\$1.20	Common Carp, <i>Cyprinus carpio</i>	Cyprinidae	C
2015 February 4 (24 Solar Terms) (Block/6)				
4256b	\$1.20	Fisherman & birds (no fish)		R
COOK ISLANDS 2014 May 9 (Small Island Developing States) (Block/18 & MS/6)				
1508f	50c	Fishing boats (no fish) (also on Sc#1510a)		R
1508k	50c	Nurse Shark, <i>Ginglymostoma cirratum</i>	Ginglymostomatidae	A*
1508l	50c	Barracuda, <i>Sphyrna</i> sp.	Sphyrnidae	A*
1508m	50c	Triggerfish or Titan Triggerfish, <i>Balistoides viridescens</i>	Balistidae	A*
1508o	50c	Manta Ray, <i>Manta birostris</i>	Mobulidae	A*
1511a	\$2.60	Nurse Shark, <i>Ginglymostoma cirratum</i>	Ginglymostomatidae	A*
1511c	\$2.60	Barracuda, <i>Sphyrna</i> sp.	Sphyrnidae	A*
1511d	\$2.60	Triggerfish or Titan Triggerfish, <i>Balistoides viridescens</i>	Balistidae	A*
1511f	\$2.60	Manta Ray, <i>Manta birostris</i>	Mobulidae	A*

2014 June 23 (Tourism) (3ea Block/4)				
1514d	50c	Butterflyfish silhouette, <i>Chaetodon</i> sp. (with snorkeler)	Chaetodontidae	S C
1515d	\$1	Stylized Jack (in arms of fisherman)	Carangidae	S C
1517c	\$3.80	Stylized Shark (with glass bottom boat)		S C
CUBA 2014 July 30 (Cats-Malaysia 2014 Intl Stamp Exhibition) (Set/6)				
5555	10c	U/I Butterflyfish (in aquarium) (with shorthair cat)		U C
5556	20c	Stylized fish silhouettes (with Persian cat)		S C
5557	40c	U/I game fish on fishing line (with Balinese cat)		U C
CUBA 2014 October 4 (Marine Life) (SS/1)				
5575	\$1	Gray Angelfish, <i>Pomacanthus arcuatus</i>	Pomacanthidae	A*
2014 November 28 (40th anniv Diplomatic Relations with Bahamas)				
5595	3p	Blue Marlin, <i>Makaira nigricans</i>	Xiphiidae	A*
CURAÇAO 2014 November 30 (Fish) (MS/10)				
217a	177c	Bladefin Bass, <i>Jeboehlkia gladifer</i>	Serranidae	A*
217b	177c	Yellowbar Basslet, <i>Lipogramma robinsi</i>	Grammatidae	A*
217c	177c	Spanish Flag, <i>Gonioplectrus hispanus</i>	Serranidae	A*
217d	177c	Spottail Golden Bass, <i>Liopropoma santi</i>	Serranidae	A*
217e	177c	Rough-tongue Bass or Anthias Bass, <i>Anthias asperilinguis</i>	Serranidae	A*
217f	177c	Dragonet, <i>Foetorepus</i> (new species)	Callionymidae	A*
217g	177c	Saber Goby, <i>Antilligobius nikkiae</i>	Gobiidae	A*
217h	177c	Longfin-scorpionfish, <i>Scorpaena agassizii</i>	Scorpaenidae	A*
217i	177c	Deep Sea Toad or Pink Frogmouth, <i>Chaunax pictus</i>	Chaunacidae	A*
217j	177c	Banded Basslet, <i>Lipogramma evides</i>	Grammatidae	A*
DOMINICAN REPUBLIC 2015 May 22 (National Parks) (MS/12)				
1572c	20p	U/I reef fish		U B
1572j	20p	Grunt, <i>Haemulon</i> sp.	Haemulidae	A*
FALKLAND ISLANDS 2015 August 21 (Wildlife)				
1143	75p	Sprat		
FRANCE 2014 October 1 (Sense of Smell) (Bklt/12) (s/a)				
4688	61c	Stylized fish (with clothespin on nose)		S A
4693a		Bklt/12 (Sc#4682–93)		
2015 June 29 (Bklt/12) (s/a)				
4826	66c	Stylized fish (with snorkel)		S A
4836a		Bklt/12 (Sc#4825–36)		
2015 July 31 (Animal Eyes) (Bklt/12) (s/a)				
4841	(76c)	Whitetip Reef Shark, <i>Triaenodon obesus</i> (eye close-up)	Carcharhinidae	A
4851	(76c)	Scrawled Filefish, <i>Aluterus scriptus</i> (eye close-up)	Monacanthidae	A
4852a		Bklt/12 (Sc#4841–52)		
FRENCH POLYNESIA 2014 November 6 (Posts & Telecommunications Emblem) (Set/2)				
1138	(75fr)	Stylized Shark design (deep blue)		S A
1138a		Bklt/10 (Sc#1138)		
1139	(100fr)	Stylized Shark design (red)		S A
1139a		Bklt/10 (Sc#1139)		
2014 December 12 (Legend of Pipiri Ma)				
1140	75fr	Stylized Shark		S B

FRENCH POLYNESIA (continued) 2015 June 29 (Occupations) (Set/4)

1141	10fr	Ten U/I fish (with spear fisherman)		U B
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GERMANY**2015 August 6 (Fish-Für Kinder Semi-postal) (Set/3 & Bklt/6)**

B1105	62c+30c	Grayling, <i>Thymallus thymallus</i>	Salmonidae	A*
B1106	85c+40c	Barbel, <i>Barbus barbus</i>	Cyprinidae	A*
B1107	145c+55c	Atlantic Sturgeon, <i>Acipenser sturio</i>	Acipenseridae	A*
B1107a		Bklt/6 (5ea Sc#1105, Sc#1107+2ea label)		
	Label/Margin	Top: Atlantic Sturgeon, <i>Acipenser sturio</i>	Acipenseridae	Z*
	Label/Margin	Bot: Grayling, <i>Thymallus thymallus</i>	Salmonidae	Z*

GREAT BRITAIN (Isle of Man) 2015 April 10 (Millennium of Tynwald Tapestry) (Strip/5 & Bklt/12)

1713d	42p	Herring (Spuds 'n' Herring meal)		B
1713e	42p	Fishing Industry (no fish)		R
1713		Horiz strip/5 (Sc#1713a-e) (perf 14¼)		
1718	42p	Herring (Spuds 'n' Herring meal)		B
1719	42p	Fishing Industry (no fish)		R
1719a		Bklt/12 (3ea Sc#1715 & Sc#1717, 2ea Sc#1716 & Sc#1718-19) (die cut 13¼) (s/a)		

2015 October 1 (Art of Bryan Kneale) (Block/10)

1758f	44p	Stylized fish ("The Deemster Fish")		S A
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ITALY**2014 October 25 (Trabocchi Coast) (Set/4) (s/a)**

3268	70c	Net fishing structure (no fish)		R
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2014 November 29 (101st anniv Tonno-Callipo Canned Fish)

3271	80c	Yellowfin Tuna, <i>Thunnus albacares</i>	Scombridae	B
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LATVIA**2015 February 20 (Extinct Fish/Fossil)**

905	71c	(no common name), <i>Asterolepis ornata</i>	†Asterolepididae	A
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2015 February 20 (Signs of Zodiac) (MS/12)

916l	50c	Stylized fish (Pisces)		S A
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MARSHALL ISLANDS**2015 July 7 (Birds) (MS/15)**

1117h	49c	U/I fish in beak of Common Heron		U C
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MONACO**2015 July 1 (Monaco Oceanographic Museum 50 millionth visitor)**

2807	76c	Numerous U/I fish & Shark		U C
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NEW CALEDONIA**2015 June 5 (Children's Art)**

1194	75fr	Stylized fish ("Wildlife," by Eliot-Louis Hatterer)		S B
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ROMANIA**2014 April 18 (Traditional Foods) (Set/4 & MS5+3 labels)**

Each stamp in this set was issued in a MS/5 with the three labels depicting each of the other designs. In addition, a MS/4+4 labels (Sc#5541-44) exists that is not listed in the Scott Catalogue.

5542	3.60l	U/I fish (cooked with fir branches)		U A
5542a		MS/5+3 labels (Sc#5542)		

SLOVENIA**2015 July 9 (Tuna Fishermen in Toneria)**

1135	64c	Bluefin Tuna (?), <i>Thunnus thynnus</i> (with fishing boat)	Scombridae	U B
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S. GEORGIA & S. SANDWICH IS. 2015 June 21 (Last British Steam Trawler) (Set/4 & SS/1)

534	70p	Fishing trawler (no fish) (<i>Viola</i> of Hellyer Boxing Fleet)		R
535	70p	Fishing trawler (no fish) (<i>Viola</i> on patrol Farne Islands)		R
536	80p	Fishing trawler (no fish) (<i>Dias</i> whaling off African coast)		R
537	£1.25	Fishing trawler (no fish) (<i>Dias</i> sealing)		R
538	SS £2.50	Fishing trawler (no fish) (<i>Viola</i> pursuing UB-115)		R

SURINAM**2015 May 20 (Fish) (Block/6)**

1484a	\$2	Glowlight Tetra, <i>Hemigrammus erythrozonus</i>	Characidae	A*
1484b	\$3	Neon Tetra, <i>Paracheirodon innesi</i>	Characidae	A*
1484c	\$4	Guppy, <i>Poecilia reticulata</i>	Poeciliidae	A*
1484d	\$6	Freshwater Angelfish, <i>Pterophyllum scalare</i>	Cichlidae	A*
1484e	\$7	Sail-fin Molly, <i>Poecilia velifera</i>	Poeciliidae	A*
1484f	\$8	San Francisco Piranha, <i>Pygocentrus piraya</i>	Serrasalminae	A*

TOKELAU**2015 April 7 (Fishing) (Set/4 & SS/4)**

438	45c	Skipjack Tuna (Atu), <i>Katsuwonus pelamis</i>	Scombridae	A*
439	\$1.40	Convict Tang (Manini), <i>Acanthurus triostegus</i>	Acanthuridae	A*
440	\$2	Moorish Idol (Laulaufau), <i>Zanclus cornutus</i>	Zanclidae	A*
441	\$3	Wahoo (Pala), <i>Acanthocybium solandri</i>	Scombridae	A*
441a	SS/4 (Sc#438–41)			

TOKELAU**2015 October 13 (Tokelau Language Week) (2ea MS/5)**

446b	45c	Two tackle boxes		R
447b	\$1.40	Seven U/I fish		U
447e	\$1.40	Ten fish hooks		R

VANUATU**2015 October 28 (Restaurants) (Set/4)**

1091	120v	U/I fish (cooked) (Eratrap Restaurant)		U B
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ANTARCTIC FISHES

In early January 2016, the French Southern & Antarctic Territory issued a MS/4 stamps showing species of barbeled plunderfishes from the family Artedidraconidae and titled "Fishes of Adélie Land."

These species are endemic to the deep waters off Antarctica.

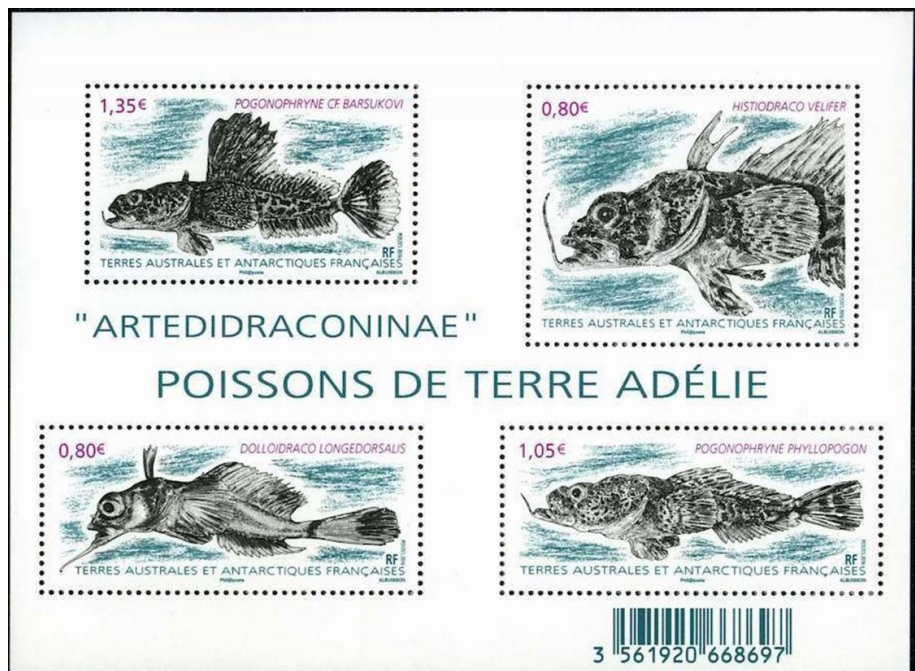
A barbel is slender, whisker-like sensory organ near the mouth and is a characteristic of this family.

The taller 80c value has an image of *Histiodraco velifer*, the only species in this genus, found at depths between 210–667 meters.

On the wider 80c stamp is an image of *Dolloidraco longedorsalis*, another monotypic species, found at depths between 203–1145 meters.

The €1.05 stamp depicts a Saddleback Plunderfish (*Pogonophryne scotti*). The stamp is captioned *Pogonophryne phyllopogon*, which is a junior synonym. This genus is the most common and widespread of the Artedidraconidae with at least 28 currently recognized species.

The €1.35 stamp shows another *Pogonophryne* species, but there is some doubt about its identification. The caption references *P. barsukovi*, known as the Stub-beard Plunderfish. Scarcity of specimens complicates identification of these fishes. They are believed to be predatory and possibly also feed by scavenging.





MARINE INVERTEBRATES

Editor

Ian Hunter, BU1619

New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
CHAD				
2012 September 4 (Lake Fish) (Set/4, SS/4 & 4ea SS/1)				
999	150fr	Northern Cleaner Shrimp, <i>Lyasmata amboinensis</i>	Hippolytidae	A*
1000	150fr	a Freshwater Crab, <i>Platythelphusa maculata</i> (Cap: <i>Potamonautes maculata</i>)	Potamonautidae	A*
1001	150fr	a Terrestrial Crab, <i>Sesarma mederi</i>	Sesarmidae	A*
1002	150fr	Cameroun Fan Shrimp, <i>Atya gabonensis</i> (Cap: <i>Atyopsis g.</i>)	Atyidae	A*
2012 September 4 (Shells & Lighthouses) (Set/4, SS/4 & 4ea SS/1)				
1011	300fr	Humpbacked Wine, <i>Strombus gibberulus</i>	Strombidae	A*
1012	300fr	Paper Nautilus, <i>Argonauta cornuta</i>	Argonautidae	A*
1013	300fr	Umbilical Egg Shell, <i>Calpurnus verrucosus</i>	Ovulidae	A*
1014	300fr	Quekett's Abalone, <i>Haliotis queketti</i>	Haliotidae	A*
The SS/4 (Sc#1011–14) and each SS/1 have various U/I shells in the bottom margin.				
CHINA (Taiwan)				
2015 January 8 (Jellyfish) (Set/4)				
4214	\$5	Mauve Stinger, <i>Pelagia noctiluca</i>	Pelagiidae	A*
4215	\$7	a Siphonophore, <i>Physophora hydrostatica</i>	Physophoridae	A*
4216	\$10	Papuan Jellyfish, <i>Mastigias papua</i>	Mastigiidae	A*
4217	\$12	Lion's Mane Jellyfish, <i>Cyanea capillata</i>	Cyaneidae	A*
2015 September 10 (Corals) (Set/4)				
4257	\$3.50	Cabbage Coral, <i>Montipora foliosa</i>	Acroporidae	A*
4258	\$5	Toadstool Leather, <i>Sarcophyton ehrenbergi</i>	Alcyoniidae	A*
4259	\$10	a Gorgonian, <i>Ellisella robusta</i>	Ellisellidae	A*
4260	\$15	a Stinging Coral, <i>Stylaster gracilis</i>	Stylasteridae	A*
CHRISTMAS ISLAND				
2014 October 31 (Christmas) (Bklt/10 & Bklt/5) (s/a)				
534	65c	Stylized Red Crabs (with Santa Claus)		S B
535	\$1.80	Stylized Red Crabs & Lobster (with Santa hats)		S B
COOK ISLANDS				
2014 June 23 (Tourism) (Block/4)				
1514d	50c	Stylized Coral Reef (with Snorkeler)		S B
CUBA				
2014 October 4 (Marine Life) (Set/6)				
5569	5c	a Sea Snail, <i>Volvarina mores</i>	Marginellidae	A*
5570	10c	Common Cuttlefish, <i>Sepia officinalis</i>	Sepiidae	A*
2014 November 28 (Diplomatic Relations with Bahamas)				
5595	3p	Queen Conch, <i>Strombus gigas</i> (with fish)	Strombidae	B*
DOMINICAN REPUBLIC				
2015 May 22 (National Parks) (2ea MS/12)				
1572c	20p	Coral Reef (with fish)		U B
1574g	20p	a Pseudothelphusid Crab, <i>Epilobocera wetherbeeii</i>	Pseudothelphusidae	A*
FIJI				
2015 February 23 (Blue Coral) (SS/2)				
1324a	65c	Blue Coral, <i>Heliopora coerulea</i>	Helioporidae	A*
1324b	\$5	Blue Coral, <i>Heliopora coerulea</i>	Helioporidae	A*

FRENCH POLYNESIA		2015 March 26 (Mama Dolphin at Sea Post Office)		
1146	75fr	Stylized cartoon Octopus, Shell, and other marine life		S
LATVIA		2013 March 3 (Provincial Municipal Arms)		
364k	2s	Crayfish, <i>Astacus astacus</i> (on Auce coat of arms)	Astacidae	A
		2015 August 7 (Signs of the Zodiac) (MS/12)		
916b	50c	Stylized Crab (Cancer)		S
LIBERIA		2013 December 2 (Constellations) (MS/6)		
2886d	\$70	Stylized Crab (Cancer)		S
MACAO		2010 November 5 (Macao Food Festival) (Set/4)		
1325	3.50p	Sushi		U B
MAYOTTE		2011 January 17 (Hair Styles) (MS/4)		
267a	58c	U/I Shells (in hair style)		U C
MONACO		2014 June 25 (Scorpionfish)		
2766	(40c)	U/I Corals (with scorpionfish)		U B
		2015 July 1 (Monaco Oceanographic Museum 50 millionth visitor)		
2807	76c	U/I Corals (with fish)		U B
NEW ZEALAND (Ross Dependency)		2013 November 20 (Antarctic Food Web) (SS/5)		
L129	70c	Antarctic Krill, <i>Euphausia superba</i>	Euphausiidae	A*
L133a		SS/5 (Sc#L129–33)		
PITCAIRN ISLANDS		2013 May 29 (Lobsters) (SS/3)		
755a	\$1	Easter Island Spiny Lobster, <i>Panulirus pascuensis</i>	Palinuridae	A*
755b	\$2	Aesop Slipper Lobster, <i>Scyllarides haanii</i>	Scyllaridae	A*
755c	\$3.40	Pronghorn Spiny Lobster, <i>Panulirus penicillatus</i>	Palinuridae	A*
755	Margin	Top: U/I Lobster		U Z*
QATAR		1966 October (New Currency surch on Fish set) (Set/17)		
115	1d	White Anemone, <i>Radianthus</i> sp. (Sc#69 surch)	Stichodactylidae	C*
115A	2d	Tun Shell, <i>Tonna</i> sp. (Sc#70 surch)	Tonnidae	C*
115B	3d	Hard Coral, <i>Acropora</i> sp. (Sc#71 surch)	Acroporidae	C*
115C	4d	U/I Corals (Sc#72 surch)		U C
115D	5d	U/I Corals (Sc#73 surch)		U C
115F	20d	U/I Sea Fans (Sc#75 surch)		U C
115I	50d	Tun Shell, <i>Tonna</i> sp. (Sc#78 surch)		C*
115J	75d	White Anemone, <i>Radianthus</i> sp. (Sc#79 surch)	Stichodactylidae	C*
115K	1r	U/I Sea Fans (Sc#80 surch)		U C
115N	4r	<i>Conus aulicus</i> (with Masked Unicorn fish) (Sc#83 surch)	Conidae	B*
115O	5r	U/I Corals (Sc#84 surch)		U C
115P	10r	Hard Coral, <i>Acropora</i> sp. (Sc#85 surch)	Acroporidae	C*
TOKELAU		2015 October 13 (Tokelau Language Week) (MS/6)		
446e	45c	Five stylized crabs		S



ENTOMOLOGY

Editor

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



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AUSTRALIA 2015 October 30 (Christmas) (SS/2)				
4388a	Margin	UL: Stylized Moth (Nativity scene)	Lepidoptera	S Z
BELARUS 2015 October 16 (Frogs) (SS/4)				
961	(3600r)	U/I Damselfly at LL	Odonata	U C
964a		SS/4 (Sc#961–64)		
2016 February 16 (Ground Beetles) (Set/4)				
A (3600r)		<i>Carabus cancellatus</i> Illiger	CAR, Carabinae	A*
N (7800r)		<i>Carabus nitens</i> L.	CAR, Carabinae	A*
M (9600r)		Embroidered Ground Beetle, <i>Carabus intricatus</i> L.	CAR, Carabinae	A*
H (10500r)		<i>Carabus clathratus</i> L. (<i>clatratus</i> of some)	CAR, Carabinae	A*
BOSNIA & HERZEGOVINA (Croat) 2015 October 15 (International Day of Hiking)				
324	1m	Queen of Spain Fritillary, <i>Issoria lathonia</i> L.	NYM, Heliconiinae	B*
BOSNIA & HERZEGOVINA (Serb) 2015 September 2 (World Fly Fishing Championships) (SS/2)				
531b	2.70m	Fish about to eat an aquatic insect		G
BULGARIA 2015 September 16 (Set/5)				
4733	1L	7-Spotted Ladybird, <i>Coccinella septempunctata</i> L. (Tiny stylized ladybirds in UL & LL corners)	COC, Coccinellinae	S C
COLOMBIA 2015 July 14 (G.G. Marquez, Nobel Laureate in Literature) (SS/1)				
1416	Margin	L: Stylized Butterflies	Lepidoptera	S Z
2015 December 14 (Risaralda Department) (MS/12+8 labels)				
100p		Lavinia Glasswing, <i>Hypoleria lavinia</i> Hewitson (Cap: <i>Pseudoscada</i> l.)	NYM, Danainae	A*
Label		Postman, <i>Heliconius erato</i>	NYM, Heliconiinae	Z*
ESTONIA 2015 September 10				
795	55c	Stylized insect (with mushroom <i>Cortinarius rubellus</i>)		S C
FALKLAND ISLANDS DEPENDENCIES 2015 March 2 (Biodiversity)				
Air Postcard		Tussac Beetle, <i>Hydromedion sparsutum</i> Mueller	Promecheilidae	A
FINLAND 2015 March 2 (International Women's Day)				
1487b	(€1.10)	Tiny stylized butterflies (around woman's hairdo)	Lepidoptera	S C
FRANCE 2015 October 2 (100th anniv Death of Jean-Henri Fabre) (2ea SS/1)				
I find it interesting that this stamp and these sheets honor Jean-Henri Fabre, who is the author of many insect names, but all the insects shown are authored by Linnaeus.				
4887	€2.60	Jean-Henri Fabre (1823–1915), entomologist		R
		UL: Cabbage White, <i>Pieris rapae</i> L.	PIE, Pierinae	B*
		LR: Sacred Scarab Beetle, <i>Scarabaeus sacer</i> L. (with dung ball)	SCA, Scarabaeus	B*
		LR: Black-Veined White, <i>Aporia crataegi</i> L. (on dung ball)	PIE, Pierinae	B*

FRANCE (continued)

	Margin	LL: Two U/I ants	Formicidae	U Z
		Mid-Top: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	Z*
		UR: Great Green Bush Cricket, <i>Tettigonia viridissima</i> L.	TET, Tettigoniinae	Z*
		LR: Black-Veined White, <i>Aporia crataegi</i> L.	PIE, Pierinae	Z*
4887	€2.60	Same stamp in large SS (95×120mm) in presentation folder		R
	Margin	UL: Cicada	Cicadidae	Z*
		LL: Scorpion		Z*
		Top: Silver-Studded Blue, <i>Plebejus argus</i> L.	LYC, Polyommatainae	Z*
		Ctr 2nd: Scalloped Hook-tip, <i>Falcaria lacertinaria</i> L.	Drepanidae, Drepaninae	Z*
		Ctr 3rd: Pale Clouded Yellow, <i>Colias hyale</i> L.	PIE, Coliadinae	Z*
		Ctr 4th: Brimstone, <i>Gonepteryx rhamni</i> L.	PIE, Coliadinae	Z*
		Ctr 5th: Cabbage White, <i>Pieris rapae</i> L.	PIE, Pierinae	Z*
		UR: Cabbage White, <i>Pieris rapae</i> L.	PIE, Pierinae	Z*
		LR: European Mantis, <i>Mantis religiosa</i> L.	MAN, Mantinae	Z*

FRENCH SOUTHERN & ANTARCTIC TERR 2016 January 2

80c		<i>Pringleophaga crozetensis</i> Enderlein	Tineidae, Tineinae	A
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GAMBIA**2015 November 2 (Butterflies) (MS/4 & SS/2)**

a	50d	Postman, <i>Heliconius melpomene cythera</i> Hewitson	NYM, Heliconiinae	A
b	50d	Postman, <i>Heliconius melpomene</i> L.	NYM, Heliconiinae	A
c	50d	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A
d	50d	Cruiser, <i>Vindula erota</i> Fabr.	NYM, Heliconiinae	A
	Margin	Several stylized <i>Danaus</i> sp.	NYM, Danainae	U Z
a	75d	Large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	A
b	50d	Postman, <i>Heliconius melpomene</i> L.	NYM, Heliconiinae	A
	Margin	UR: U/I Butterfly	Lepidoptera	U Z
		Ctr: U/I Butterfly	Lepidoptera	U Z
		MR: U/I Swallowtail Butterfly	PAP, Papilioninae	U Z
		LR: Golden Birdwing, <i>Troides aeacus</i> C&R Felder	PAP, Papilioninae	Z

GHANA**2015 November 2 (Butterflies) (2ea MS/4 & 2ea SS/1)**

a	4ce	White Morpho, <i>Morpho polyphemus</i> Westwood	NYM, Morphinae	A*
b	4ce	Tailed Jay, <i>Graphium agamemnon</i> L.	PAP, Papilioninae	A*
c	4ce	Thamyris Morpho, <i>Morpho portis thamyris</i> C&R Felder	NYM, Morphinae	A*
d	4ce	Large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	A*
	SS 12ce	Malachite, <i>Siproeta stelenes</i> L.	NYM, Nymphalinae	A*
a	4ce	Yellow Apricot, <i>Phoebis philea</i> L.	PIE, Coliadinae	A*
b	4ce	Leopard Lacewing, <i>Cethosia cyane</i> Drury	NYM, Heliconiinae	A*
c	4ce	Common Morpho, <i>Morpho deidamia</i> Hübner	NYM, Morphinae	A*
d	4ce	Orange Albatross, <i>Appias nero</i> Fabr.	PIE, Pierinae	A*
	SS 12ce	Christmas Butterfly, <i>Papilio demodocus</i> Esper	PAP, Papilioninae	A*

GREAT BRITAIN (Alderney)**2015 February 22 (Alice in Wonderland)**

513	54p	Stylized Butterfly (with White Rabbit)	Lepidoptera	S C
514	55p	Stylized Caterpillar smoking a hookah	Lepidoptera	S

GREAT BRITAIN (Isle of Man)**2015 July 3 (50th anniv Curraghs Wildlife Park) (Set/6)**

1741	44p	Stylized Butterfly with Red Panda	Lepidoptera	S C
1742	93p	Stylized Butterfly with Ruffed Lemur	Lepidoptera	S C
1744	£1.24	Stylized Butterfly with Fishing Cat	Lepidoptera	S C

KOREA (North)		2013 April 15 (Flowers-Birthday Kim Il Sung) (Set/4 & Bklt/4)		
5171	30w	Dragonfly on Zinnia flower	Odonata	
5174a		Bklt/4 (Sc#5171–74)		
KOREA (North)		2013 June 10 (Mount Paektu) (SS/4+2 labels)		
5181	Label	UL: Butterfly in labels	PIE, Pierinae	U B
5181	Label	LR: U/I Bee		U B
MONTSERRAT		2015 November 30 (Beetles) (MS/4 & SS/1)		
a	\$3.25	Giant Goliath Beetle, <i>Goliathus goliatus</i> L.	SCA, Cetoniinae	A*
b	\$3.25	Eastern Hercules Beetle, <i>Dynastes tityus</i> L.	SCA, Dynastinae	A*
c	\$3.25	<i>Lucanus laminifer</i> Waterhouse	LUC, Lucaninae	A*
d	\$3.25	Acacia Longhorn Beetle, <i>Penthea pardalis</i> Newman	CER, Lamiinae	A*
	SS \$7	3-Horned Atlas Beetle, <i>Chalcosoma atlas</i> L.	SCA, Dynastinae	A*
NEW CALEDONIA		2015 June 5 (Birds) (SS/1)		
1197	Margin	LL: Mimic, <i>Hypolimnas misippus</i> L. ♀	NYM, Nymphalinae	Z*
PAPUA NEW GUINEA		2015 (Pane/40 & Pane/20+label)		
	5t	<i>Troides</i> sp.	PAP, Papilioninae	
SOUTH AFRICA		2015 (World Forestry Congress) (MS/5)		
d	B4 (8r)	Emperor Swallowtail, <i>Papilio ophidicephalus</i> Oberthür	PAP, Papilioninae	B*
SWEDEN		2016 January 14 (Museum of Natural History Centenary) (Bklt/10)		
	(7k)	Diving Beetle, <i>Hydroporus figuratus</i> Gyllenhaal	DYT, Hydroporinae	A
TRISTAN DA CUNHA		2015 December 1 (150th anniv. publication of <i>Alice in Wonderland</i>)		
1055	50p	Stylized Caterpillar smoking hookah (with Alice)	Lepidoptera	S B
1059a		SS/6 (Sc#1054–59)		
UZBEKISTAN		2015 January 22 (Wildlife)		
a	1000s	Rose Chafer, <i>Cetonia aurata</i> L.	SCA, Cetoniinae	
	SS 2500s	Margin: Bee in bird's beak	API, Apinae	U Z
UNITED NATIONS		2016 February 5 (LGBT Equality) (Set/6)		
b	\$1.20	Stylized Butterfly costume	Lepidoptera	S
VANUATU		2015 March 11 (Items Made in Vanuatu) (Set/4)		
1089	150v	Butterfly with Health & Beauty Products by The Summit	Lepidoptera	S C

Beyond the Catalogues

Note: Stamperija has started to assign a “Code Number,” similar to a catalog number, to their issues.

CENTRAL AFRICA		2015 October 21 (Singapore 2015 Exhibition) (SS/1) (CA15424b)		
	SS 2650fr	Blue-spotted Crow, <i>Euploea midamus singapura</i> Moore	NYM, Danainae	B*
		2015 October 21 (Stamps-on-Stamps) (MS/4 & SS/1) (CA15406a–b)		
a	750fr	Old World Swallowtail, <i>Papilio machaon</i> L. (Yugoslavia Sc#729)	PAP, Papilioninae	A
	SS Margin	LR: Blue Emperor, <i>Papilio ulysses joesa</i> Butler (Australia Sc#2187)	PAP, Papilioninae	Z
		Bot: U/I Butterfly (unk Sc# s-o-s)	Lepidoptera	U Z
		2015 October 21 (Malaria Control) (MS/4 & SS/1) (CA15422a–b)		
	4×750fr	Insecticide-treated bed nets to control mosquitoes		R
	Margin	UL: <i>Anopheles</i> sp.	CUL, Anophelinae	Z
	SS 2650fr	Treating malaria patient		R
	Margin	UL: <i>Anopheles</i> sp.	CUL, Anophelinae	Z

CENTRAL AFRICA (continued) 2015 December 15 (Locusts) (MS/4 & SS/1) (CA15604a–b)

a	750fr	Hooded Grasshopper, <i>Teratodes monticollis</i> Gray	ACR, Teratodinae	A*
b	750fr	Rainbow Bush Locust, <i>Phymateus saxosus</i> Coquerel	PYRG, Pyrgomorphinae	A*
c	750fr	<i>Aeolacris caternaulti</i> Feisthamel	ROM, Romaleinae	A*
d	750fr	Rainbow or Painted Grasshopper, <i>Dactylotum bicolor</i> Charpentier	ACR, Melanoplinae	A*
	Margin	LR: Rainbow Bush Locust, <i>Phymateus saxosus</i> Coquerel	PYRG, Pyrgomorphinae	Z*
	SS 2650fr	Rainbow Bush Locust, <i>Phymateus saxosus</i> Coquerel	PYRG, Pyrgomorphinae	A*
	Margin	LR: Rainbow Bush Locust, <i>Phymateus saxosus</i> Coquerel	PYRG, Pyrgomorphinae	Z*

2015 December 15 (Moths) (MS/4 & SS/1) (CA15618a–b)

a	750fr	Black V Moth, <i>Arctornis l-nigrum</i> Mueller	LYM, Lymantriinae	A*
b	750fr	Zambesi Emperor, <i>Imbrasia zambesina</i> Walker	SAT, Saturniinae	A*
c	750fr	Rothschild's Silk Moth, <i>Rothschildia erycina</i> Shaw	SAT, Saturniinae	A*
d	750fr	Cecropia or Robin Moth, <i>Hyalophora cecropia</i> L.	SAT, Saturniinae	A*
	Margin	UL: Black V Moth, <i>Arctornis l-nigrum</i> Mueller	LYM, Lymantriinae	Z*
		LR: Luna Moth, <i>Actias luna</i> L.	SAT, Saturniinae	Z*
	SS 3000fr	Emperor Moth, <i>Saturnia pavonia</i> L.	SAT, Saturniinae	A*
	Margin	ML & LL: Zig-Zag Moth, <i>Imbrasia tyrrhea</i> Cramer	SAT, Saturniinae	Z*
		UL, UR, LR: Owl Moth, <i>Brahmaea wallichii</i> Gray	BRA, Brahmaeinae	Z*
		MR: Eyed Hawkmoth, <i>Smerinthus ocellatus</i> L.	SPH, Smerinthinae	Z*

2015 December 15 (Bees) (MS/4 & SS/1) (CA15619a–b)

a	900fr	European Wool Carder Bee, <i>Anthidium manicatum</i> L.	MEGA, Megachilinae	A*
b	900fr	Northern White-Tailed Bumblebee, <i>Bombus magnus</i> Vogt	API, Apinae	A*
c	900fr	Neon Cuckoo Bee, <i>Thyreus nitidulus</i> Fabr.	API, Xylocopinae	A*
d	900fr	Square-headed Furrow Bee, <i>Halictus maculatus</i> Smith	HAL, Halictinae	A*
	Margin	LR: Neon Cuckoo Bee, <i>Thyreus nitidulus</i> Fabr.	API, Xylocopinae	Z*
	SS 3000fr	Grey or Ashy Mining Bee, <i>Andrena cineraria</i> L.	AND, Andreninae	A*
	Margin	R: Blue-Banded Bee, <i>Amegilla cingulata</i> Fabr.	API, Apinae	Z*

DJIBOUTI**2016 January 25 (Butterflies) (MS/4 & SS/1) (DJB16105a–b)**

a	260fr	Viceroy, <i>Limenitis archippus</i> Cramer	NYM, Limenitidinae	A*
b	260fr	Purple Emperor, <i>Apatura iris</i> L.	NYM, Apaturinae	A*
c	260fr	Kaiser-I-Hind, <i>Teinopalpus imperialis</i> Hope	PAP, Papilioninae	A*
d	260fr	Scarce or Kite Swallowtail, <i>Iphiclides podalirius</i> L.	PAP, Papilioninae	A*
	SS 960fr	Wall Brown, <i>Lasiommata megera</i> L.	NYM, Satyrinae	A*
	Margin	UL: Wall Brown, <i>Lasiommata megera</i> L.	NYM, Satyrinae	Z*
		UR: Mustard White, <i>Pieris napi</i> L.	PIE, Pierinae	Z*
		MR & LR: Luna Moth, <i>Actias luna</i> L.	SAT, Saturniinae	Z*

GUINEA**2015 October 21 (Endangered Species) (MS/4) (GU15418a)**

a	10000fr	Schaus' Swallowtail, <i>Papilio aristodemus ponceanus</i> Schaus	PAP, Papilioninae	A*
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2015 November 25 (Stamperija)

a	10000fr	Question Mark, <i>Nymphalis interrogationis</i> Fabr.	NYM, Nymphalinae	A*
b	10000fr	Foxy Charaxes, <i>Charaxes jasius</i> L.	NYM, Charaxinae	A*
c	10000fr	89 Butterfly, <i>Diaethria neglecta</i> Salvin	NYM, Biblidinae	A*
d	10000fr	Garden Tiger Moth, <i>Arctia caja</i> L. (with larva)	ARC, Arctiinae	A*
	Margin	LL: 3 Stylized butterflies	Lepidoptera	S Z
	SS 40000fr	Ailanthus Silk Moth, <i>Samia cynthia</i> Drury (Cap: <i>S. synthia</i>)	SAT, Saturniinae	A*
	Margin	ML&LR: Luna Moth, <i>Actias luna</i> L.	SAT, Saturniinae	Z*
		UR: Luna Moth, <i>Actias luna</i> L. (larva)	SAT, Saturniinae	Z*
		LL&UMR: Mangrove Skipper, <i>Phocides pigmalion</i> Cramer	HES, Pyrginae	Z*
		LMR: Kaiser-I-Hind, <i>Teinopalpus imperialis</i> Hope	PAP, Papilioninae	Z*
		LL: 3 Stylized butterflies	Lepidoptera	S Z

GUINEA-BISSAU**2015 October 26** (Butterflies of Africa) (MS/4 & SS/1) (GB15709a–b))

a	750fr	Blue-Spot Commodore, <i>Junonia westermanni</i> Westwood	NYM, Nymphalinae	A*
b	750fr	Blue Pansy, <i>Junonia oenone</i> L.	NYM, Nymphalinae	A*
c	750fr	Shining Red Charaxes, <i>Charaxes zingha</i> Stoll	NYM, Charaxinae	A*
d	750fr	Madagascar Eggfly, <i>Hypolimnias dexithea</i> Hewitson	NYM, Nymphalinae	A*
	Margin	L: Madagascar Eggfly, <i>Hypolimnias dexithea</i> Hewitson	NYM, Nymphalinae	Z*
		R: Lilac Beauty, <i>Salamis cacta</i> Fabr.	NYM, Nymphalinae	Z*
	SS 3000fr	<i>Athletes albicans</i> Rougeot	SAT, Saturniinae	A*
	Margin	ML: Shining Red Charaxes, <i>Charaxes zingha</i> Stoll	NYM, Charaxinae	Z*
		LL: <i>Telipna transversigma</i> Druce	LYC, Poritiinae	Z*
		LR: Blue-Spot Commodore, <i>Junonia westermanni</i> Westwood	NYM, Nymphalinae	Z*

2015 December 19 (Butterflies) (MS/4 & SS/1) (GB15906a–b)

a	850fr	Purple Emperor, <i>Apatura iris</i> L.	NYM, Apaturinae	A*
b	850fr	Oleander Hawkmoth, <i>Daphnis nerii</i> L.	SPH, Macroglossinae	A*
c	850fr	Niobe Fritillary, <i>Fabriciana niobe</i> L.	NYM, Heliconiinae	A*
d	850fr	Blue Diadem, <i>Hypolimnias salmacis</i> Drury	NYM, Nymphalinae	A*
	SS 3000fr	Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	A*
	Margin	UL: Stylized butterfly silhouette	Lepidoptera	Z
		ML & LL: Small Striped Swordtail, <i>Graphium polices</i> Cramer	PAP, Papilioninae	Z*
		UR: Green-Banded Swallowtail, <i>Papilio phorcas</i> Cramer	PAP, Papilioninae	Z*
		LR: Purple-Edged Copper, <i>Lycaena hippothoe</i> L.	LYC, Lycaeninae	Z*

NIGER**2015 December 28** (Butterflies) (MS/4 & SS/1) (NIG15502a–b)

a	750fr	Common Windmill, <i>Atrophaneura polyeuctes termessus</i> Fruhstorfer	PAP, Papilioninae	A*
b	750fr	L: Madagascar Eggfly, <i>Hypolimnias dexithea</i> Hewitson	NYM, Nymphalinae	B*
		R: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	B*
c	750fr	Claudia's Beauty, <i>Agrias claudina lugens</i> Staudinger	NYM, Charaxinae	A*
d	750fr	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	A*
	Margin	LL: The Cleopatra, <i>Gonepteryx cleopatra</i> L.	PIE, Coliadinae	Z*
		LR: Checkered or Lime Swallowtail, <i>Papilio demoleus</i> L.	PAP, Papilioninae	Z*
	SS 2700fr	Isabelle or Spanish Moon Moth, <i>Graellsia isabellae</i> Graells	SAT, Saturniinae	A*
	Margin	LL: Red Lacewing, <i>Cethosia biblis perakana</i> Fruhstorfer	NYM, Heliconiinae	Z*
		UR: Tailed Comet Moth, <i>Actias mittrei</i> Guérin-Ménéville	SAT, Saturniinae	Z*
		LR: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z*
		Ctr: New Guinea Birdwing, <i>Troides priamus</i> L.	PAP, Papilioninae	Z*

2015 December 28 (Egyptian Civilization) (MS/4) (NIG15505a)

a	825fr	Sacred Scarab Beetle, <i>Scarabaeus sacer</i> L. (statue of beetle)	SCA, Scarabaeinae	S B
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2015 December 28 (Orchids) (SS/1) (NIG15517b)

	SS 3000fr	LL: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z*
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2015 December 28 (Butterflies of Niger)(Set/4 & MS/4)(NIG15605d&a)

a	750fr	African Monarch, <i>Danaus chrysippus</i> L.	NYM, Danainae	A*
b	750fr	Foxy Charaxes, <i>Charaxes jasius</i> L.	NYM, Charaxinae	A*
c	750fr	Wandering Donkey Acraea, <i>Acraea neobule</i> Doubleday	NYM, Heliconiinae	A*
d	750fr	African Albatross, <i>Appias epaphia</i> Cramer	PIE, Pierinae	A*

ST. THOMAS & PRINCE ISLANDS 2015 November 18 (Butterflies) (MS/4 & SS/1) (ST15412a–b)

a	31000d	Spanish Festoon, <i>Zerynthia rumina</i> L.	PAP, Parnassiinae	A*
b	31000d	Eurasian Comma, <i>Nymphalis c-album</i> L. (Cap: <i>Polygonia</i>)	NYM, Nymphalinae	A*
c	31000d	LL: Blue Pansy, <i>Junonia orithya</i> L.	NYM, Nymphalinae	B*
		UR: Marbled White, <i>Melanargia galathea</i> L.	NYM, Satyrinae	B*
d	31000d	The Mosaic, <i>Colobura dirce</i> L.	NYM, Nymphalinae	A*

ST. THOMAS & PRINCE ISLANDS (continued)

Margin	UL: Gatekeeper, <i>Pyronia tithonus</i> L. (chrysalis)	NYM, Satyrinae	Z*
	LR: Silver-Studded Blue, <i>Plebejus argus</i> L. (mating pair)	LYC, Polyommatainae	Z*
SS 96000d	Adonis Blue, <i>Polyommatus bellargus</i> Rottemburg	LYC, Polyommatainae	A*
Margin	R: Orange Tip, <i>Anthocharis cardamines</i> L.	PIE, Pierinae	Z*

SOLOMON ISLANDS**2015 November 30** (Butterflies) (MS/4 & SS/1) (SLM15508a–b)

a	\$7	Gaudy Commodore, <i>Precis octavia</i> Cramer	NYM, Nymphalinae	A*
b	\$7	Small Striped Swordtail, <i>Graphium polices</i> Cramer	PAP, Papilioninae	A*
c	\$7	Janetta Forester, <i>Euphaedra janetta</i> Butler	NYM, Limenitidinae	A*
d	\$7	Western Red Glider, <i>Cymothoe mabillei</i> Overlaet	NYM, Limenitidinae	A*
	SS \$40	Crimson Tip, <i>Colotis danae</i> Fabr.	PIE, Pierinae	A*
Margin		UR & Top L: African Clouded Yellow, <i>Colias electo</i> L.	PIE, Coliadinae	Z*
		LR: Veined Orange, <i>Colias vesta</i> Reiche	PIE, Pierinae	Z*
		Top R: Janetta Forester, <i>Euphaedra janetta</i> Butler	NYM, Limenitidinae	Z*

2015 November 30 (Malaria) (MS/4 & SS/1) (SLM15513a–b)

a	\$7	<i>Anopheles</i> sp. (also shows dusting for mosquito control)	CUL, Anophelinae	B*
b	\$7	<i>Anopheles</i> sp.	CUL, Anophelinae	B*
	SS \$40	<i>Anopheles</i> sp. (also shows spraying in margin)	CUL, Anophelinae	B*

TOGO**2015 December 18** (Butterflies) (MS/4 & SS/1) (TG15503a–b)

a	950fr	L: Common Blue-Banded Forester, <i>Euphaedra harpalyce</i> Cramer	NYM, Limenitidinae	B*
		R: Nigerian Pierid Blue, <i>Larinopoda aspidos</i> Druce	LYC, Poritiinae	B*
b	950fr	L: Common Grass Yellow, <i>Eurema hecabe</i> L.	PIE, Pierinae	B*
		R: Large Skipper, <i>Ochlodes venata</i> Bremer & Gray	HES, Hesperinae	B*
c	950fr	L: Blue-Banded Diadem, <i>Hypolimnas antevorta</i> Distant	NYM, Nymphalinae	B*
		R: Western Telipna, <i>Telipna semirufa</i> Grose-Smith & Kirby	LYC, Poritiinae	B*
d	950fr	L: Blue Diadem, <i>Hypolimnas salmacis</i> Drury	NYM, Nymphalinae	B*
		R: Spotted Pentila, Paul's Buff, <i>Pentila pauli</i> Staudinger	LYC, Poritiinae	B*
Margin		LL: Common Grass Yellow, <i>Eurema hecabe</i> L.	PIE, Pierinae	Z*
		Bot L: Hildebrandt's Charaxes, <i>Charaxes hildebrandti</i> Dewitz	NYM, Charaxinae	Z*
		Bot R: Peak White, <i>Pontia callidice</i> Hübner	PIE, Pierinae	Z*
		LR: Postman, <i>Heliconius melpomene cythera</i> Hewitson	NYM, Heliconiinae	Z*
	SS 3000fr	L: Smoky Bean Cupid, <i>Euchrysops malathana</i> Boisduval	LYC, Polyommatainae	B*
		R: Edward's Forester, <i>Euphaedra edwardsi</i> van der Hoeven	NYM, Limenitidinae	B*
Margin		UR: Edward's Forester, <i>Euphaedra edwardsi</i> van der Hoeven	NYM, Limenitidinae	Z*
		ML: Tailed Giant Blue Cupid, <i>Lepidochrysops quassi</i> Karsch	LYC, Polyommatainae	Z*
		LL: Blue-Banded Diadem, <i>Hypolimnas antevorta</i> Distant	NYM, Nymphalinae	Z*
		LR: Common Grass Yellow, <i>Eurema hecabe</i> L.	PIE, Pierinae	Z*

2015 December 18 (Minerals) (SS/1) (TG15514b)

SS 3000fr	Bot: Jeweled insect brooch (ruby & almandine minerals) (with Elizabeth II)	S Z
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2015 December 30 (Mushrooms) (MS/4 & SS/2) (TG15611a–b)

a	950fr	Black-Red Carpenter Ant, <i>Camponotus ligniperdus</i> Latreille	FOR, Formicinae	B*
b	950fr	Cowboy Beetle, <i>Chondropyga dorsalis</i> Donovan	SCA, Cetoniinae	B*
c	950fr	Golden Stag Beetle, <i>Lamprima aurata</i> Latreille	LUC, Lampriminae	B*
d	950fr	Eastern Cucurbit Bee, <i>Peponapis pruinosa</i> Say	API, Apinae	B*
a	SS 1500fr	Dung Beetle, <i>Scarabaeus cristatus</i> Fabr.	SCA, Scarabaeinae	B*
b	SS 1500fr	7-Spotted Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	B*
Margin		LL: Checkered or Lime Swallowtail, <i>Papilio demoleus</i> L.	PAP, Papilioninae	Z*

TOGO (continued)**2015 December 30** (Scouting) (SS/2) (TG15613b)

b	1500fr	Monarch, <i>Danaus plexippus</i> L. (with Baden-Powell)	NYM, Danainae	B*
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Corrections and Updates

Corrections for various *Biophilately* 2015 issues, thanks to Jack Congrove

Volume 64(1):

Burundi 2014 (Butterflies II): In both MS & SS:

Campimoptilum kuntzei should be *Goodia kuntzei*

Central Africa 2014 May 20:

Papilio memnon lowi should be *Papilio helenus*

Volume 64(2):

Bhutan 2015: Change date to: 2014 December 17

MS/4×25nu margin should be:

UL, LL, UR: *Danaus* sp., NYM, Danainae

ML: *Papilio demodocus* Esper, PAP, Papilioninae

80nu SS margin should be:

UL: *Papilio demodocus* Esper, PAP, Papilioninae

ML: *Pieris rapae* L., PIE, Pierinae

LL: *Danaus* sp., NYM, Danainae

Congo Peoples Republic 2013 (Butterflies II):

Zygaena sp. should be *Tyria jacobaeae* L., ARC, Arctiinae

Same (Butterflies V):

Danaus sp. should be *Danaus gilippus* Cramer, NYM, Danainae

Niger 2015 April 20 (Mushrooms & Insects) should be:

Anthidium florentinum Fabr., MEGA, Megachilinae

Delias descombesi Boisduval, PIE, Pierinae

Lucanus cervus L., LUC, Lucaninae

Rhyothemis fuliginosa Selys, LIB, Trameinae

3000fr Margin: *Battus philenor* L., PAP, Papilioninae

2015 April 20 (Bees):

a&c: *Apis breviligula* Maa, API, Apinae (ssp. of *dorsata* of some)

b: *Apis mellifera* L., API, Apinae

d: *Anthidium florentinum* Fabr., MEGA, Megachilinae

3000fr: *Apis mellifera* L., API, Apinae (also in margin)

Solomon Islands 2014 November 28:

Heliconius melpomene should be: *Heliconius sapho* Drury, NYM, Heliconiinae

Arctia caja should be: *Euplagia quadripunctaria* Poda, ARC, Arctiinae

Volume 64(3):

Peru 2015 should be 2013(Peruvian Amazon)

1836: 8s Jungle scene Margin: 4 *Papilio* sp., PAP, Papilioninae

Sierra Leone 2015 May 22:

Antanartia delias should be *Antanartia delius*

Volume 64(4):

St. Thomas & Prince Islands 2015 September 23.

Apaturina erminia should be *Apaturina erminea*

Solomon Islands 2015 June 26.

Rapala varuna Hewitson should be *Rapala varuna* Horsfield

2015 September 25.

Rapala varuna Hewitson should be *Rapala varuna* Horsfield

A DRAGON SKULL

Michael Kogan, BU1863
and Jack R. Congrove, BU1424

Legend has it that Klagenfurt am Wörthersee in Austria was founded after two brave men had slain the abominable *Lindwurm*. This beast was a winged dragon living in the moors adjoining the lake, the staple diet of which is said to have been virgins, but which did not spurn the fat bull on a chain that the men had mounted on a strong tower.

The feat is commemorated by a grandiose nine-ton Renaissance monument in the city center. Although it represents a dragon, the statue can be regarded as the first paleontological reconstruction. The head of the statue is modeled on the skull of woolly rhinoceros.

In 1335, the cranium of a woolly rhinoceros (*Coelodonta antiquitatis*) from the ice-age was found in a gravel pit near Klagenfurt. It was instantly interpreted as the skull of a dragon, or *Lindwurm*. This fossil, which is still on exhibition at the *Landesmuseum für Kärnten* in Klagenfurt, served as a model for the head of the Dragon Fountain statue.

On 22 January 1968, Austria issued a two-schilling stamp depicting the Dragon Fountain in Klagenfurt as part of its historic buildings definitive series.

On 11 July 1997, the *Lindwurm* appeared again on the second stamp issued in the Austrian Myths & Legends definitive series. The image of the dragon was also used on a 1933 cinderella poster stamp that commemorated ten years of the publication *Werbuseg*, a magazine for poster stamp collectors.



Stylized *Lindwurm*
Austria, 2013, Sc#2459



Lindwurm Poster Stamp
Austria, 1933



Lindwurm Fountain
Austria, 1968, Sc#696



Lindwurm Legend
Austria, 1997, Sc#1731

On 12 September 2013, Austria issued a set of three coil stamps showing stylized landmarks. The lowest denomination has a stylized representation of the Dragon Fountain in Klagenfurt.

Finally, on 1 March 2015, Austrian Post issued a new series of self-adhesive definitive stamps titled "Impressions of Austria" featuring various landmarks. The stamps were designed by Eva Tiess, a young graduate of the Vienna Academy of Advertising. The 150-cent denomination, issued in booklet panes of four, depicts the head of the Dragon Fountain.



Woolly Rhino Skull
Tibet, 3.5 MYA



Lindwurm Fountain
Austria, 2015, Sc#2548



PALEONTOLOGY

Editor

Michael Kogan, BU1863

New Listings



Scott#	Denom	Common Name/Scientific Name	Family	Code
CENTRAL AFRICA				
2015 November 10 (Cave Paintings) (MS/4 & SS/1) [1]				
a	900fr	Mammoths (Font-de-Gaume ptg) (with prehistoric artists)		S
b	900fr	Steppe Bison, <i>Bison priscus</i> (Altamira Cave ptg)	Bovidae	S
c	900fr	Handprint outlines (Cave of Hands ptg)		S
d	900fr	Prehistoric horses (Chauvet Cave ptg)	Equidae	S
	SS 3000fr	Woolly Rhinoceros, <i>Coelodonta antiquitatis</i> (Ardeche Cave ptg)	Rhinocerotidae	S
	Margin	UR: Auroch, <i>Bos primigenius</i>	Bovidae	S Z
2015 December 15 (Fossils & Dinosaurs) (MS/4 & SS/1) [1]				
a	900fr	<i>Plesiosaurus dolichodeirus</i> (with fossil bones)	†Plesiosauridae	A
b	900fr	Fossilized frog		A
c	900fr	<i>Corythosaurus casuarius</i> (with fossil skeleton)	†Hadrosauridae	A
d	900fr	R: Fossilized leaf		B
		L: <i>Pseudocrinites magnificus</i> (fossil)	†Callocysitidae	B
	Margin	LR: <i>Priscacara serrata</i> (fossil)	Percidae	Z
	SS 3000fr	<i>Priscacara serrata</i> (fossil)	Percidae	A
	Margin	R: <i>Plesiosaurus dolichodeirus</i> (fossil & reconstruction)	†Plesiosauridae	Z
GUINEA				
2015 November 25 (Dinosaurs) (MS/4 & SS/1) [1]				
a	10000fr	<i>Kentrosaurus aethiopicus</i>	†Stegosauridae	A
b	10000fr	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
c	10000fr	<i>Argentinosaurus huinculensis</i>	†Antarctosauridae	A
d	10000fr	<i>Triceratops horridus</i>	†Ceratopsidae	A
	Margin	LL: Stylized dinosaur silhouette		S Z
	SS 40000fr	<i>Pterodactylus antiquus</i>	†Pterodactylidae	A
	Margin	UR: <i>Tyrannosaurus rex</i>	†Tyrannosauridae	Z
		Ctr & LL: <i>Spinosaurus aegyptiacus</i>	†Spinosauridae	Z
		LL: Stylized dinosaur silhouette		S Z
		LR: U/I aquatic animal		U Z
GUINEA BISSAU				
2015 October 26 (Dinosaurs) (MS/4 & SS/1) [1]				
a	750fr	<i>Deinonychus antirrhopus</i>	†Dromaeosauridae	A
b	750fr	<i>Spinosaurus aegyptiacus</i>	†Spinosauridae	A
c	750fr	<i>Liopleurodon ferox</i>	†Pliosauridae	A
d	750fr	<i>Ichthyosaurus communis</i>	†Ichthyosauridae	A
	SS 3000fr	<i>Dimorphodon</i> (= <i>Pterodactylus</i>) <i>macronyx</i>	†Dimorphodontinae	A
	Margin	ML: <i>Quetzalcoatlus northropi</i>	†Azhdarchidae	Z
		LR: <i>Megalosaurus bucklandi</i>	†Megalosauridae	Z
		LL: <i>Archaeopteryx lithographica</i>	†Archaeopterygidae	Z
MOROCCO				
2015 October 9 (Rocks & Fossils) (Set/4)				
	3.75d	Stromatolite (fossil remains of microorganisms)		A
	3.75d	<i>Furca mauritanica</i> (fossil arthropod)	Class: Marrellomorpha	A
	9d	<i>Aegirocassis benmoulai</i> (fossil arthropod)	†Hurdiidae	A
	9d	Meteorite		R

NIGER**2015 December 28** (Dinosaurs) (MS/4 & SS/1) [1]

a	750fr	<i>Slats meekerorum</i>	Clade: †Megaraptora	A
b	750fr	<i>Similicaudipteryx yixianensis</i>	†Caudipteridae	A
c	750fr	<i>Tapejara wellnhoferi</i> (Cap: <i>Tapejara welinhoferi</i>)	†Tapejaridae	A
d	750fr	<i>Carnotaurus sastrei</i>	†Abelisauridae	A
	Margin	LL: <i>Antarctopelta oliveroi</i>	†Nodosauridae	Z
		LR: <i>Therizinosaur cheloniformis</i>	†Therizinosauridae	Z
	SS 2700fr	<i>Microraptor gui</i>	†Dromaeosauridae	A
	Margin	LL: <i>Antarctopelta oliveroi</i>	†Nodosauridae	Z
		R & LR: <i>Similicaudipteryx yixianensis</i>	†Caudipteridae	Z

ROMANIA**2016 January 22** (Prehistoric Animals) (Set/4 & SS/4)

Each stamp was issued in a MS/5 plus one label. The margins of each MS depict other images of the same species. The souvenir sheet is part of prestige album issued in very limited quantity of 245 pieces.

	2L	<i>Balaur bondoc</i>	Clade: Avialae	A
	3L	<i>Theriosuchus sympiestodon</i> (Cap: <i>Sympiestodon theriosuchus</i>)	†Atoposauridae	A
	3.30L	<i>Magyarosaurus dacus</i>	†Nemegtosauridae	A
	14.50L	<i>Kogaionon ungureanui</i>	†Kogaionidae	A

SWEDEN**2016 January 14** (Museum of Natural History Centenary)

Bklt/10 with two of each s/a stamp denominated "BREV." One BREV stamp pays for a domestic letter weighing up to 50g. Two BREV stamps pay for a domestic letter weighing up to 100g.

(7k)	Quagga, <i>Equus quagga quagga</i>	Equidae	A
(7k)	<i>Maiasaura</i> sp. (newly hatched with fern)	†Hadrosauridae	A
(7k)	Queen's Flower, <i>Silvianthemum suecicum</i> gen. & sp. nov. (fossil)		A
(7k)	Diving Beetle, <i>Hydroporus figuratus</i> (living insect)	Dytiscidae	A
(7k)	Mammoth	Elephantidae	A

ST THOMAS & PRINCE IS.**2015 December 29** (Dinosaurs) (MS/4 & SS/1) [1]

a	31000d	<i>Dakosaurus maximus</i>	†Metriorhynchidae	A
b	31000d	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
c	31000d	<i>Brachiosaurus altithorax</i>	†Brachiosauridae	A
d	31000d	<i>Spinosaurus aegyptiacus</i>	†Spinosauridae	A
	Margin	UR: <i>Tyrannosaurus</i> (skull)	†Tyrannosauridae	Z
	SS 96000d	<i>Regaliceratops peterhewsi</i>	†Ceratopsidae	A
	Margin	MR: <i>Ugrunaaluk kuukpikensis</i>	†Hadrosauridae	Z
		Bot: <i>Spinosaurus aegyptiacus</i>	†Spinosauridae	Z

TOGO**2015 December 15** (Aquatic Prehistoric Animals) (MS/4 & SS/1) [1]

a	950fr	<i>Ophthalmosaurus icenicus</i>	†Ophthalmosauridae	A
		R: U/I prehistoric arthropod		U
b	950fr	L: <i>Archelon ischyros</i>	†Protostegidae	A
		R: <i>Tusoteuthis longa</i>	†Kelaenidae	B
c	950fr	<i>Nothosaurus mirabilis</i>	†Nothosauridae	A
		R: U/I prehistoric arthropod		U
d	950fr	L: <i>Platecarpus tympaniticus</i>	†Mosasauridae	A
		R: <i>Plesiosaurus dolichodeirus</i>	†Plesiosauridae	B
	Margin	LL: <i>Dinichthys terrelli</i>	†Dinichthyidae	Z
		LR: <i>Styxosaurus snowii</i>	†Elasmosauridae	Z
	SS 3000fr	<i>Dunkleosteus terrelli</i>	†Dunkleosteidae	A
	Margin	UR: <i>Mosasaurus hoffmannii</i>	†Mosasauridae	Z
		Bot: <i>Sarcosuchus imperator</i>	†Pholidosauridae	Z

TOGO (continued)**2015 December 30 (Dinosaurs) (MS/4 & SS/2) [1]**

a	950fr	<i>Pachyrhinosaurus lakustai</i>	†Ceratopsidae	A
b	950fr	<i>Troodon formosus</i>	†Troodontidae	A
c	950fr	<i>Pachycephalosaurus wyomingensis</i>	†Pachycephalosauridae	A
d	950fr	<i>Ankylosaurus magniventris</i>	†Ankylosauridae	A
	SS 1500fr	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
	SS 1500fr	<i>Triceratops horridus</i>	†Ceratopsidae	A
	Margin	<i>Spinosaurus aegyptiacus</i> (with skeleton)	†Spinosauridae	Z

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 our Associate Editor Michael Kogan (admin@paleophilatelie.eu), or by post to the Editor, Jack R. Congrove (address on inside cover).

Images and detailed description of all stamps mentioned above can be seen on the following website: <http://www.paleophilatelie.eu/year/current.html>, or <http://www.paleophilatelie.eu/year/2015.html>.

Announcements

- 31.01.2016: **Cuba:** Prehistoric animals “Dinosaurs.” Block/6. Perhaps will be delayed, similar to issues of 2013 and 2015.
- 09.03.2016: **Lichtenstein:** “Archaeological Finds in Liechtenstein: Utensils,” flint tool depicted on one stamp
- 25.03.2016: **Slovenia:** “Mammal Fossils in Slovenia” (Cave Bear)
- 05.2016: **Canada:** Dinosaurs second set. The first set issued last year.
- 05.2016: **Spain:** Dinosaurs second set. The first set issued last year.
- 12.10.2016: **Croatia:** “Paleontology” MS/8
- 05.11.2016: **Moldova:** Extinct fauna of Moldova
- ???.2016: **Ukraine:** Commemorative cover, “50th anniversary of The National Museum of Natural History at the National Academy of Sciences of Ukraine” (Paleontology exhibition)
- 24.03.2017: **Slovenia:** “Mammal Fossils in Slovenia” (Cave Lion)
- ???.2017: **Nepal:** “Prehistoric Mammals.” Set/8 proposed by Natural History Museum. If it is accepted, it will be the third set from Nepal showing local prehistoric mammals.



Prehistoric Elephants of Nepal
Nepal, 2015, not yet listed

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 entries since the last publication are indicated with an asterisk (*).

STAMP ISSUES

Catawiki. Listings and illustrations of stamps for sale by topic for every theme from A to Z.

<http://www.catawiki.com/catalog/stamps/100283-themes-topics>

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

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

Cyber Stamps. On-line postage stamp catalogue of worldwide topical issues.

<http://www.cyberstamps.com>

Delcampe. Worldwide listings and illustrations of stamps for sale.

<http://stamps.delcampe.net/page/category/cat,-1,language,E.html>

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 login.

<http://www.stamperija.eu/index.php>

Stamp World. Listings and illustrations of issues from all countries by year. Includes production information. Requires login.

<http://www.stampworld.com/en/maps/Europe/>

Stanley Gibbons. Searchable on-line stamp catalogue from Stanley Gibbons.

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

Zillions of Stamps. Worldwide listings and illustrations of stamps for sale.

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

GENERAL

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/>

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.

<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 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/research-curation/research/projects/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, but does not include dinosaurs.

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

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

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 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. The site also has a biographical reference of authors of species of birds.

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

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

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

PALEONTOLOGY:

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

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

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

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

EXTRACT

Here is a sample of entries under the letter "C" from the new Collectors Club of Chicago: Philatelic Encyclopedia reference (see above). The entries for letters "D" through "Z" are still under construction, but this looks like it will be quite a useful tool for philatelic research.

Clerk 51, 54, 55 and 56: used during 1909-1920, identification of U.S. railway mail clerks who canceled stamps on their routes.

Cliché: end result of the process of applying a design into metal; individual identical units that are used to make up a printing plate, plate, image, block, photo, line cut, position.

‘Click-n-Ship’: USPS service that allows individuals to print shipping labels and pay for postage online via a credit card.

Click Stamp: a postage imprint produced by Pitney Bowes.

Climax Dater: rubber date cancel used 1885-1935 in Great Britain at small postal facilities. Original usage was in violet ink until 1911, when ink pads were then changed to black ink usage.

‘Clipper’: Pan-American Airways plane designations, conducted numerous first flights on the trans-oceanic routes.

Clipperton Island: An uninhabited atoll ca. 700 miles SW of Acapulco, México; awarded to France in 1935. The island was owned by the Oceanic Phosphate Co., who operated a guano business there during 1893-1897, and who privately issued stamps for use on employee mails conveyed by the company's ships when travelling between the island and San Francisco. The series-of-10 stamps were printed by lithography during March 1895 in San Francisco in five different designs, and were perforated 11½. All of the stamps depict a central map of the island enclosing '1895,' and are with differing borders. Used copies appear to be precanceled with a violet double-ring *W. FRESE & CO. SAN FRANCISCO // AGENTS FOR O.P. CO.* handstamp. They were first recorded in the 15 June 1895 edition of the British philatelic journal *Stamp Collectors Fortnightly*.

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
bklr	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	imperfectorate	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		