

BIOPHILATELY

OFFICIAL JOURNAL OF THE BIOLOGY UNIT OF ATA
SEPTEMBER 2020 VOLUME 69 NUMBER 3

Hungarian Fossils Part 2

See Page 145

IN THIS ISSUE

From the Interim Editor's Desk.....	142
President's Message.....	143
Secretary's Corner.....	143
News of Note.....	144
New Director.....	144
Treasurer's Report.....	171
Opalized Fossils by Michael Kogan	184
Togo Fossil Dragonfly.....	190
Glossary	221

NEW ISSUES

Botany – Christopher E. Dahle.....	153
Fungi – Paul A. Mistretta.....	166
Mammalia – Michael Prince.....	167
Ornithology – Glenn G. Mertz.....	172
Herpetology – Dick Roman.....	191
Ichthyology – J. Dale Shively.....	197
Entomology – Donald Wright Jr.....	206
Paleontology – Michael Kogan.....	212

ARTICLES:

Prehistoric Life of the Bakony Site, Part 2 by Peter Voice.....	145
Paradise Butterflies by Vladimir Kachan...	149
New Plants in the Philatelic Herbarium – Christopher Dahle.....	161
New Birds in the Philatelic Aviary – Charles E Braun.....	185
Biology Reference Websites.....	218

BIOPHILATELY**Editor**

Vacant

Associate Editors

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

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

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

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

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

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

J. Dale Shively *Ichthyology*
106 Lazy Lane, San Marcos, TX 78666
jdshively@icloud.com

Vacant *Invertebrate Zoology*

Donald P. Wright, Jr. *Entomology*
429 S. Yellowstone Dr, Apt 300, Madison, WI 53719
don.aa2f@verizon.net

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

Vacant *Microbiology*

BIOLOGY UNIT OF ATA

Laurie J. Ryan **President**
4134 Wenbrook Dr, Sharonville, OH 45241
doxiemom7@gmail.com

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

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

Directors

Alan J. Hanks (Ontario) (President Emeritus)
John Pereira (Massachusetts)
Dr. Frederick C. Skvara (New Jersey)
Donald P. Wright, Jr. (Wisconsin)
Dick Roman (Missouri)

Publisher**Librarian**

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

Website**www.biophilately.org**

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

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

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

Copyright 2020. All rights reserved. The views expressed in the articles and other contributions are those of the authors and do not necessarily reflect the views of the officers or other members of the Biology Unit.

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.

The term Scott and Scott Catalogue numbers are trademarks of Amos Media., dba Scott Publishing Company.

PLEASE NOTE: Material for the next issue should be in the hands of the editor before 15 November 2020.

FROM THE INTERIM EDITOR'S DESK

Chris Dahle, BU 1269

As the COVID-19 pandemic continues, I have been staying home. As I was working on this edition of *Biophilately*, here in Iowa we experienced a very unusual weather event. Known as a Derecho, the thunderstorm produced winds of 120 to 140 miles per hour (190 to 225 kph) equal in force to a category 3 or 4 hurricane! There was measurement of wind at 124 mph and an estimate, due to damage to structures, of 140 mph. The storm swept across the whole state of Iowa and through Illinois and Indiana into Ohio (see Timeline in figure). But the highest intensity and the longest duration was in eastern Iowa. The storm left behind monumental destruction in terms of homes and businesses damaged or destroyed, and crops and vegetation of all kinds was broken or flattened. Most of the old oak trees in our back yard lost their tops. Electricity was off for 4 to 16 days in the city of Cedar Rapids. Internet connections had not been completely restored after 18 days.

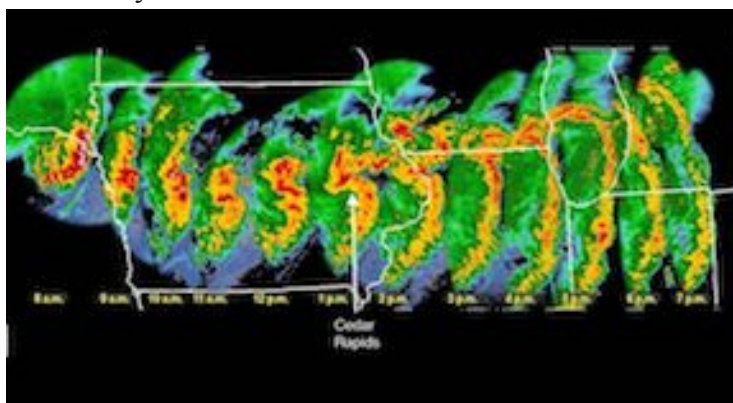
The National Weather Service provides this definition:

A derecho (pronounced similar to "deh-REY-cho") is a widespread, long-lived wind storm that is associated with a band of rapidly moving showers or thunderstorms. Although a derecho can produce destruction similar to the strength of tornadoes, the damage typically is directed in one direction along a relatively straight swath. As a result, the term "straight-line wind damage" sometimes is used to describe derecho damage. By definition, if the wind damage swath extends more than 240 miles (about 400 kilometers) and includes wind gusts of at least 58 mph (93 km/h) or greater along most of its length, then the event may be classified as a derecho.

<https://www.weather.gov/lmk/derecho>

So I missed out on the Virtual Stamp Show that the APS and ATA hosted during the time when there was supposed to be a show in Hartford. It was still cleanup and recovery mode around here, even though I did have power and internet once again.

As our president points out, we are still looking for a volunteer to come forward to edit *Biophilately*. If you or someone you know would be interested, please contact me at chris-dahle@biophilately.org.



Timeline of the radar images of the derecho storm August 10, 2020 through Iowa, Illinois and Indiana.

DUES RATES (US\$)

US membership \$25

Canada membership \$30

Worldwide membership \$45

On-line membership \$15

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

ADVERTISING RATES

Full page insertion \$20

Half page insertion \$10

Quarter page insertion \$5

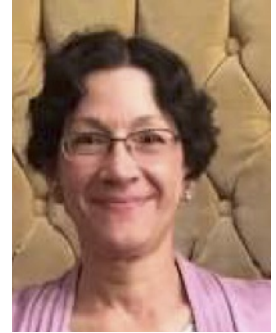
PRESIDENT'S MESSAGE

The year continues to be strange and surreal. Keeping one's sanity can be difficult, with so many shows, festivals, and sports being cancelled. Working with my stamps has been a wonderful diversion. They can take me to the zoo here in Cincinnati, the jungles of Asia or deep under the sea. Some days I go to Medieval or Renaissance Europe, or venture to the worlds of Middle Earth. My fish have been such a joy with so many fry to watch. The garden is surviving the equally strange weather.

I hope some of you were able to participate in the Virtual Stamp Show in August. It was a wonderful idea to bring philatelists together, if only thru a computer. I was remembering the fantastic time I had at last year's show.

On a very serious and important note- The Biology Study Unit still desperately needs a new editor! Chris has agreed to complete this issue, but can Not continue. Is there anyone who could edit our Journal? Or know of someone who would be willing to help us out.

Your Study Unit Needs You!



SECRETARY'S CORNER

There were no new members this quarter.

Members in arrears

The following members are 2 years in arrears:

Vaughn

Palazzo

These members have not paid dues for 2020:

Boorman	Felts	Harrison	Nystuen	Van Laere
Bratlie	Gray	Lerne	Odum	Wallach
Cooper	Halbedel	Lobmeyer	Setterberg	Weber
Das	Hanks	Mauney	Stout	

Please send payment for your dues as soon as possible. Usually I purge the membership rolls in September. This year I will wait until later in the year.

NEW DIRECTOR

Dick Roman has volunteered to serve on the Board of Directors of the Biology Unit. The Board has approved his nomination to fill the vacancy left by Jack Congrove



NEWS

GLHS LOOKING FOR ARTICLES

ATA Study Unit #205, Gay and Lesbian History on Stamps (GLHS) is looking for articles, or more preferably a regular columnist for the quarterly e-journal.

One of the objectives of GLHS is to promote an interest in the collection, study and dissemination of knowledge of worldwide philatelic material that depicts, among other things, Flora and fauna scientifically proven to have prominent homo-sexual behavior. None of the current members of GLHS have the knowledge or philatelic material to fulfill this objective.

That is why [the editor is] writing to the Biology Study Unit for assistance.

THE NEW DIRECTOR IN HIS OWN WORDS

Started collecting the world in 1955 when I was young and silly. Over the years, I kept was drawn to stamps with mammals and birds depicted. As years went on, I sold all of Africa, all of South America and concentrated on Scandinavia and Semi-postals, still up to 1955. In 1978 I realized there were other Topical Collectors and joined ATA. My collection then was Wild Mammals and Birds.

Then I found Biology Unit and the marvelous checklists and Handbooks. I reorganized my collections from Countries (How boring) to biological Families and Genera. As an avid Nature photographer, I integrate my photos near the appropriate species stamps.

As a database master, I have amassed taxonomic lists for the mammals birds, reptiles, fish and amphibians. That is used to generate album pages for a family, genus or a single species.

For the last few years, I've printed and mailed the Biophilately to all members. Jack Congrove twisted my arm and got me to edit the Herpetology column, covering both reptiles and amphibians. Chris Dahle taught me how to find the needed information. The database allows me to find binomial names for stamps Linn's usually identifies by Common names.

I'm happy to assume a director role with Biology Unit. I graduated from ATA Board member.



Stamp Smith
TOPICAL STAMPS & COVERS

U.S stamps,
worldwide
& covers.

Send us
your
want list.

1212 NE 96th Terrace
Kansas City, MO 64155

Tel: 816.734.4536
Email: smidale@umkc.edu

Prehistoric Life of the Bakony Site, Hungary, Part 2

Dr. Peter Voice, BU 1863

Western Michigan University and the Michigan Geological Survey

One of my favorite issues of 2018 was the prehistoric life of the Bakony site printed by Magyar Post, the postal service of Hungary. Much to my delight, Magyar Post released a second set in the series on March 4, 2020. These 2 issues follow a long history of stamps exhibiting prehistoric life printed by the Hungarian Postal Service. This article will focus on the 2018 issue as a second article for the 2020 stamps has already been published in the June 2020 issue of Biophilately.



Figure 1: Used set of the 2018 Prehistoric Life of Bakony.

rows of three stamps. The upper row consists from left to right of images of *Ajkaceratops kozmai*, *Pneumatoraptor fodori*, and *Bakonydraco galaczi*. In the lower row are *Hungarosaurus tormai*, *Iharkutosuchus makadii*, and *Pannoniasaurus inexpectatus*.

The Bakony region is in northwestern Hungary and is part of the Transdanubian Range, a hilly region to the west of the Hungarian portion of the Carpathian Mountains, north of Lake Balaton. The Bakony region is a part of the Earth's crust that was folded into a syncline and rocks from Permian to Cretaceous age are exposed at the surface. Older rocks (Triassic, Jurassic and Lower Cretaceous) in the area are composed of limestones and dolomites that record marine deposition in the region, characterized by marine invertebrates (rudistid bivalves, gastropods) and foraminifera. Upper Cretaceous rocks in the Bakony region consist of sandstones, siltstones, gravels, marl, bauxites and limestone. The sandstones, siltstones and gravels (Csehbánya Formation) were deposited in the channels and floodplains of a river that flowed across a portion of an island. The bauxites (a residual tropical soil) are locally mined as an Aluminum ore. The limestones (Ugod Limestone) are slightly younger and represent a rise in sea level in the area and a return to marine



Figure 2: Special Monochrome set of the Prehistoric Life of Bakony.

deposited in the channels and floodplains of a river that flowed across a portion of an island. The bauxites (a residual tropical soil) are locally mined as an Aluminum ore. The limestones (Ugod Limestone) are slightly younger and represent a rise in sea level in the area and a return to marine

The 2018 set was issued September 3, 2018 in two formats (Scott Catalogue – 4493a -4493f). Figure 1 shows the set that was released for domestic and international use. A second special format was printed as well (Figure 2) and were not useable as postage. The second souvenir sheet was printed as a monochrome numbered issue. In addition, a special postmark was produced for the first day ceremony, showing the beak of *Ajkaceratops kozmai*. The official first day cover is reproduced in figure 3. Both souvenir sheets are organized with two



Figure 3: Official First Day cover for the Prehistoric Life of Bakony 2018 set. In the upper right corner, the commemorative postmark is mostly visible – with the beak structure overlapping a tree and the text partly obscuring the anterior of an individual of *Bakonydraco galaczi*.

bordering the Tethys Ocean. As part of the break-up of Pangea, Africa and the Arabian plate were moving north towards Eurasia – this slow collision would build the Alps, the Carpathians and the Zagros Mountains, while slowly removing the intervening Tethys Ocean. Global climate was warmer than today, with no ice caps at the poles. With no ice caps, sea level was much higher and broad swathes of the continents were submerged underwater. Large portions of Europe were flooded, but the active collision was buckling parts of the southern Eurasian margin to form islands. The warmer climate fostered the precipitation and accumulation of fossiliferous limestones through much of Europe including the thick chalk deposits of the Jurassic and Cretaceous. In fact, the Cretaceous is named for the Latin word *creta* for chalk!

This European Cretaceous Archipelago has had a long history of dinosaur paleontology. Baron Nopcsa described a diminutive fauna of dinosaurs from Romania – diminutive in that many of the species were smaller in size than their relatives in North America and Eurasia. There were also the early discoveries of dinosaurs in England that led to Sir Richard Owen coining the term dinosauria as well as amazing discoveries of Iguanodons from Belgium. The Hungarian dinosaur occurrences were first described in 2000.

Ajkaceratops kosmai is a small ceratopsian, a quadrupedal, herbivore. Its name is derived from the nearby city of Ajka and after the geologist Károly Kozma. The front portion of *Ajkaceratops*'s jaws were distinctly beak-shaped. Unlike more advanced ceratopsians like *Triceratops*, the bony frill at the back of the skull was much reduced in size. Most of the fossil specimens consist of skull fragments. In terms of affinity, *Ajkaceratops* is thought to be more closely related to ceratopsians from Asia – the bagaceratopsids, *Bagaceratops* and *Magnirostris*. Based on comparison of the skull with the bagaceratopsids, *Ajkaceratops* is reconstructed as a quadruped 1-meter in length.

Pneumatoraptor fodori is a small carnivorous theropod dinosaur. The species is named for the characteristic of the bones – the bones were pneumatized, i.e. characterized by air-filled cavities similar

conditions characterized by open marine organisms like rudistid bivalves. The Csehánya Formation is constrained to the Santonian and Campanian Stages based on analysis of fossil pollen, approximately 85 million years ago during the Late Cretaceous.

If we were to travel back in time to this interval, we would visit a very different world. The supercontinent Pangea had started to break apart in the Late Triassic, and by the Late Cretaceous the shapes and distribution of continents was starting to look somewhat similar to today with a few exceptions – North America and South America were separate, Antarctica and Australia were still fused as a remnant of the older Gondwanaland Supercontinent, and India was an island continent



Figure 4: Commemorative postmark for the first day ceremony. Postmark shows an image of the beak of *Ajkaceratops kosmai*. Use of the image was graciously given by Michael Kogan from his website (<http://www.paleophilatelie.eu/index.html>).

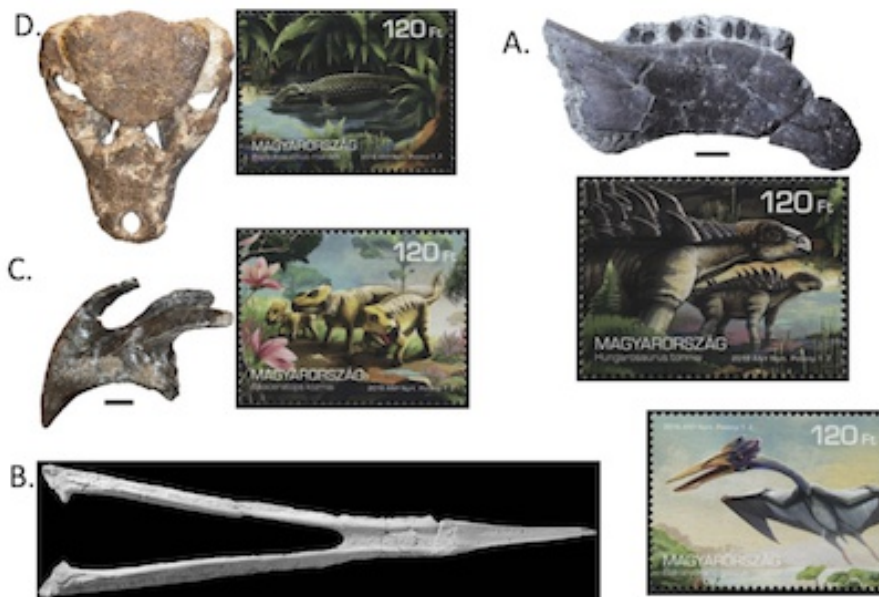


Figure 5: Images of fossil material from the Bakony Site with corresponding stamp. A. *Iharkutosuchus makadii* skull (picture courtesy of <http://magyardinoszaurusz.hu/en/>), B. *Ajkaceratops kosmai* upper jaw with distinct beak-like shape. C. Lower jaw of *Bakonydraco galaczi*. D. Lower jaw of *Hungarosaurus tormai*. Fossil pictures B, C, and D are from Wikipedia.org, while the single stamp images are courtesy of Michael Kogan's <http://www.paleophilatelie.eu/index.html>.

to the bone structure in modern birds. The species was also named in honor of Géza Fodor, an operator of the Bakony Bauxite Mining Company. *Pneumatoraptor* is known from a few pieces of the shoulder girdle and limbs. The limb proportions suggest that *Pneumatoraptor* was about the size of a modern turkey. The reconstruction on the stamp shows *Pneumatoraptor* with feathers due to the similarity of *Pneumatoraptor* with other theropod dinosaurs that do have direct evidence of feathers (dromeosaurids and troodontids).

Bakonydraco galaczi is not actually a dinosaur, but instead a

pterosaur. Pterosaurs were flying reptiles related to the dinosaurs. Dinosaurs, pterosaurs and crocodiles belong to a larger group of diapsid reptiles called the Archosaurs. *Bakonydraco* translates to the dragon of the Bakony Mountains. The species is also named after Paleontologist András Galács. This species was a common element of the fauna with many fossils of the vertebrae, jaws and limbs described from at least 57 individuals! The jaws of this animal were toothless and beak-like in shape.

Hungarosaurus tormai is the most well preserved dinosaur in the Bakony collections – with one individual having much of the skull, portions of the vertebrae, ribs, shoulder, right manus (paw), pelvis and over 100 osteoderms (bony plates embedded in the skin of the animal) preserved. *Hungarosaurus tormai*'s name honors the country of Hungary and András Tourma. Tourma was one of the people who discovered the Iharkút site in the Bakony Mountains where most of these fossils come from.

Hungarosaurus is an ankylosaurid dinosaur – squat herbivorous quadrupeds with extensively armored skin. The reconstructions suggest that this animal was 4 to 4.5 meters (13-15 ft) long!

Iharkutosuchus makadii is another animal from the Iharkút site, but like *Bakonydraco* is not a dinosaur. Instead *Iharkutosuchus makadii* is a crocodyliform – a group of archosaurs that include the modern crocodiles. *Iharkutosuchus* has been described from one complete skull and a variety of partial skull fragments and teeth. The teeth are unusual in that unlike most reptiles, *Iharkutosuchus* had different types of teeth in its jaws (heterodonty) – a more mammal-like characteristic. *Iharkutosuchus makadii* is named for the Iharkút locality and for biologist László Makádi.

The last prehistoric animal in the set is *Pannoniasaurus inexpectatus*, a most unusual reptile. The animal's name is derived from the ancient Roman province of Pannonia which includes the Transdanubian portion of Hungary and -saurus (lizard). The *inexpectatus* portion of the species name is derived from the Latin for unexpected. *Pannoniasaurus* is a mosasaur – mosasaurs were diapsid reptiles

that are most closely related to squamates like lizards and snakes. All other fossil occurrences of Mosasaurs are in marine deposits – where these reptiles were top predators adapted for an aquatic lifestyle. *Pannoniasaurus inexpectatus* is an unusual mosasaur in that it is found in riverine deposits instead, suggesting unexpectedly that these were freshwater mosasaurs! A variety of fossil material from multiple individuals have been found including vertebrae, portions of the skull, pelvis and shoulder. Reconstructions suggest that this was a medium-sized Mosasaur approximately 6 meters (20 ft) in length.

For the interested reader, here is a brief list of resources that may be of interest:

Magyar Post Materials for the 2018 and 2020 issues:

<https://www.posta.hu/stamps/stamps/new-stamps/the-world-of-the-bakony-dinosaurs>

<https://www.posta.hu/stamps/stamps/new-stamps/the-wonderful-world-of-the-bakony-dinosaur-site-II>

The Bakony Geopark

<http://www.geopark.hu/en/home/bakony-balaton-geopark/geological-heritage>

Hungarian and Eastern European Paleontology and Geology

<http://magyardinoszaorusz.hu/en/>

Kercsmár, Z. (ed.), 2015, Surface geology of Hungary – Explanatory notes to the Geological Map of Hungary (1:500,000), Geological and Geophysical Institute of Hungary.

Weishampel, D.B. and Jianu, C.-M. 2011, Transylvanian Dinosaurs, The John Hopkins University Press, 301 p

A brief biographical sketch of the Baron Nopsca: <https://www.smithsonianmag.com/history/history-forgot-rogue-aristocrat-discovered-dinosaurs-died-penniless-180959504/>

The Bernissart Coal Mine Iguanodons of Belgium <https://artsandculture.google.com/exhibit/the-bernissart-iguanodons-royal-belgian-institute-of-natural-sciences/fQJiRgnsYJgwIA?hl=en>

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

Write for the price list of your choice

EASTERN SHORE STAMP COMPANY

P.O. BOX 204, MIDDLETOWN, DE 19709

e-mail: essc@comcast.net

Phone: (302) 563-2174

PARADISE BUTTERFLIES

Vladimir Kachan, Belarus

Butterflies are some of the most extraordinarily colorful creatures on Earth (Figure 1). Most butterfly species occur in warmer environments, especially in the tropical rainforests of Asia, Africa and South America.



Figure 1 – Letter from Germany military post 1871 illustrated with a butterfly.

Tropical butterflies are distinguished by a huge variety of colors, shapes and sizes of wings. Like all that is created by nature, their beauty is absolutely harmonious, despite the brightness and diversity.

Among the various species of butterflies there are several species of paradise butterflies. In religion, Paradise is a place of exceptional happiness and delight. In paradise there is only peace, prosperity, and happiness. Paradise is a

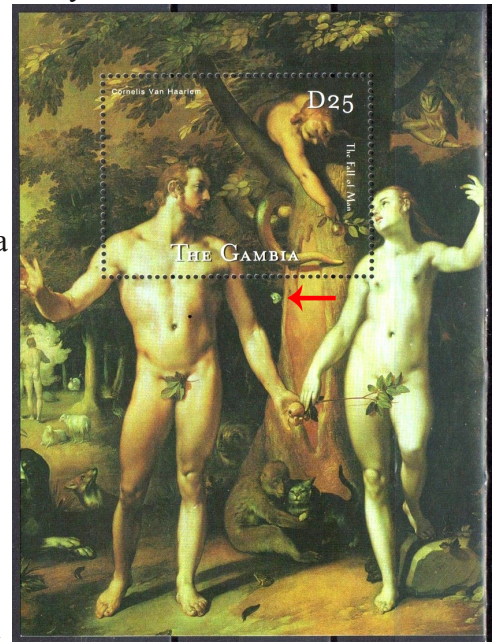


Figure 2 – Souvenir sheet of the Gambia 2001 with painting depicting Paradise and butterfly.

place of contentment, a land of luxury and fulfillment. In the ancient legend, Paradise is described as a vast beautiful garden filled with wondrous trees, fragrant flowers, wonderfully singing birds and fluttering butterflies (Figure 2).



Figure 3– Stamp of the Netherlands New Guinea 1960 with butterfly the Paradise Birdwing.

The birdwing swallowtails from tropical Asia are some of the largest, most spectacular, and most endangered butterflies in the world. All show high levels of sexual dimorphism (i.e., males and females are different in size and color). Female birdwings are larger and much duller in color than the males, which come in glowingly iridescent colors of brilliant sapphire, emerald, and topaz. Even among the most beautiful butterflies in the world, the Paradise Birdwing stands out for its impressive appearance (Figure 3).

This butterfly was named as the Paradise Butterfly for its magical, paradise beauty.

The Paradise Birdwing was first discovered in the 1890s in New Guinea. While the female Paradise Birdwing (Figure 4) looks much like females of other birdwing species, the male (Figure 5), with its dwarfed and unusually shaped hindwings, is very distinctive. As a result, this species is highly prized and protected by law. The first description of this butterfly was in



Figure 4 – Stamp of Papua New Guinea 2002 with female *Troides paradisea*

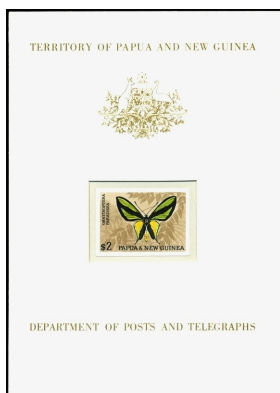


Figure 5 – Proof of Papua New Guinea 1966 with male *Troides papadisea*

1893 by German entomologist Otto Staudinger (Figure 6). The

specific epithet *paradisea*, is the Persian word for paradise.

The butterfly *Troides paradisea* is widely distributed on the mainland of New Guinea and other islands in the neighbourhood. *Troides paradisea* occurs in mature secondary and primary forest in hilly areas, where it frequents clearings, valleys, gullies and gorges and also flies on slopes and ridges. It is normally found at altitudes between 200 and 800 m but there are records of occasional butterflies being found much higher, even once at 2000 m. Adults appear to be fairly localised in their movements and do not move long distances. They use valleys and gorges as flyways, and collect nectar frequently on various

flowers. They probably live about three months.

The magnificent butterfly with scientific name *Troides paradisea* is variously known as the Paradise Birdwing or Butterfly of Paradise. The male is painted velvety black and shining yellow-green colors, and have wingspan of 100-130 mm. But the most amazing thing in his appearance is the shape of the hind wings, which no one butterfly has: they are decorated with thin delicately curved tails and are so smaller than the front ones that it seems as if they belong to another butterfly.

I would like to point out a pair of varieties of the \$2 stamp of Papua New Guinea 1966, which depicts butterfly *Troides paradisea*. Plate I (Figure 7, 7a). In the lower left of the butterfly there are two short lines from the edge to the yellow part. In the lower part of upper right wing there is a series of indeterminate short lines and dots. Drawing of the compound eyes without connection to the thorax. Plate II (Figure 8, 8a). The two lines at

lower left are lacking. There are clear fine lines of shading in place of the thicker lines. Drawing of the compound eyes connected with the thorax.

For its fantastic view, the male of *Troides paradisea* is even depicted on the One toea coin of Papua New Guinea, released in 1975 (Figure 9). The dark brown female with yellow and white or creamish markings has a wingspan ranging from 140 mm to 190 mm. Adult males fly high around trees rarely descending to the ground. Females fly below the canopy searching for the food plant which is a species of *Aristolochia* with orange fruits. There is much variation both within and between subspecies. There are ten subspecies (Figure 10).



Figure 6 – Souvenir sheet of Tuvalu 1993 with butterfly *Ornithoptera paradisea* Staudinger

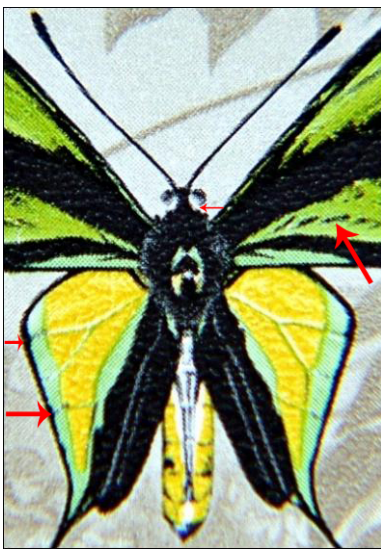


Figure 7, 7a - Stamp of Papua New Guinea 1966 with male *Troides paradisea*



Figure 8, 8a - Stamp of Papua New Guinea 1966 with male *Troides paradisea*



Figure 9 – Stamp of Papua New Guinea 1975 shows a 1t coin, which has on it the male of butterfly *Troides paradisea*.

This winged jewel is among the world's rarest and most beautiful butterflies. Really magical, heavenly beauty! It is protected by the Convention on International Trade in Endangered Species of Wild Fauna and Flora (CITES). The *Ornithoptera paradisea* is a true miracle of nature and is one of the most unusual

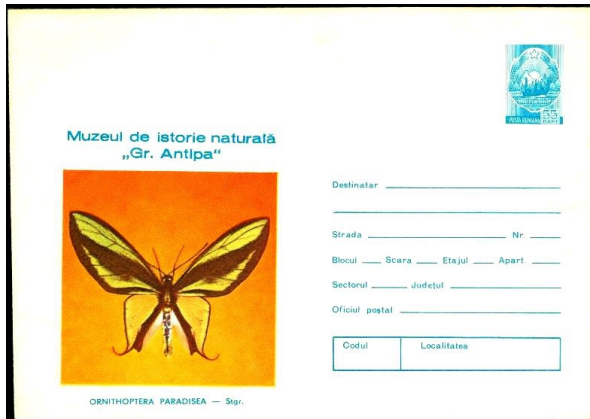


Figure 11 – Entire postal of Romania 1974 with butterfly *Troides paradisea* in collection of the Grigore Antipa National Museum of Natural History in Bucharest.

about 200-800 m. The wings are completely transparent apart from the pink blushes and the delicate eye spots.

The adults are almost always encountered singly. They are denizens of the darkest and dampest recesses of the rainforest, and appear to be very localised. The butterflies are crepuscular in nature - they can sometimes be found in the middle of the day, but are far more often encountered at dusk than at any other time. The flight is low over the ground, skulking and phantom-like. The wing beats are deep and slow, but the butterfly is capable of moving rapidly if disturbed. It normally settles with the wings closed, and at such times is extremely difficult to locate. But when a butterfly spreads its wings, you can see a rare look as the butterfly display the vivid paradise-pink of its hindwings. The butterflies tend to remain deep in the undergrowth, but emerge at dusk to feed at rotting palm fruits on the forest floor, or on fluids exuding from decomposing fungi. They remain stationary for long periods, but are easily put up, and if disturbed retreat into the undergrowth. However they are habitual in behaviour, and often return within a few minutes.

The Skippers are often considered as “sub-standard” butterflies. They differ from other butterflies in their moth-like robust appearance and their hairy bodies. Skippers cannot hold their wings flat, which also distinguishes them from other butterflies. Many people think that all Skippers are rather small, drab and inconspicuous little butterflies. They obviously have never come across *Abantis paradisea*. Due to this butterfly's exquisite wing pattern and coloration, it may have hailed from paradise.



Figure 13 - Stamp of Swaziland 1987 with butterfly Paradise Skipper.

The butterfly *Abantis paradisea* is commonly known as the Paradise Skipper (Figure 13). Members of this species are named for their quick, darting flights habits. It is found in Natal, Zululand, Transvaal, Swaziland, Rhodesia, Zimbabwe and from Botswana to Somalia. Paradise Skippers

butterflies in the world and is on display in major Natural History museums (Figure 11).

One of the most elusive and exceedingly beautiful butterflies in the rainforest is the Paradise Phantom butterfly with the scientific name *Cithaeris phantoma* (Figure 12).

Cithaeris phantoma is found in Colombia, Ecuador and Peru. Its wingspan reaches 4 - 5 centimetres. This species is found only in deeply shaded areas of primary rainforest, at altitudes between



Figure 10 – Stamp of Oman 1972 with butterfly *Troides paradisea aurifolia*.



Figure 12 - Stamp of Guinea-Bissau 2011 with butterfly Paradise Phantom - *Cithaeris phantoma*.

vary in size with males' wingspan about 40 – 45 mm and females slightly larger, with a wingspan of about 43 – 55 mm. The body length, from the tip of the head (excluding the antennae) to the end of the abdomen is about half the length of the wingspan. Skippers are characteristic butterflies with robust and hairy bodies with rounded wings. The head of the Paradise Skipper is black with white spots, while the hairy thorax is black with dark burnished-orange and white markings. Wings are black with almost transparent to light yellowish (black-demarcated) markings/windows. Adults can easily be distinguished from other butterflies by the backward-facing club on the tip of the antennae, which look like



Figure 15 - Souvenir sheet of St. Thomas & Prince 1989 with myriad of butterflies.

The Author is ready to help for philatelists in creating of philatelic exhibits on butterflies and moths. His address: Vladimir Kachan, street Kulibina 9-49, Minsk-52, BY-220052, Republic of Belarus, E-mail: vladimirkachan@mail.ru



Figure 14 - Stamp of Swaziland 1992 with butterfly Paradise Skipper.

When resting they keep their wings angled upwards or spread out and rarely fold them completely. This species belongs to an endemic Afrotropical genus. The genus occurs in a variety of habitats, including rainforest, dry forest and both dry and moist savanna. Most species of 'paradise skippers' with a varied array of colourful wing patterns are scarce or rare.

Butterfly life is short - but in many cultures they are considered a symbol of eternity. And there is no contradiction in this. After all, everything that causes emotions, gives joy, expresses love and good feelings - all this makes the world a better place, and therefore remains in it forever. That is why people are so attracted to botanical gardens, where exotic butterflies flit. We associate the Garden of Eden with an abundance of flowers, exotic birds and a myriad of colorful butterflies (Figure 15). Celebrate your special day in a tropical paradise surrounded by butterflies!

I hope that thematic philatelists will have many more interesting discoveries of the philatelic material of the world with charming butterflies.



BOTANY

Editor

Christopher E. Dahle BU1269



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AUSTRALIA				
2020 January 2 (Joyful occasions) Set/10, bklt/s of 10				
5065	\$1.10	Baby's breath, <i>Gypsophila paniculata</i>	Caryophyllaceae	Fl A
5067	\$1.10	Roses, <i>Rosa x hybrida</i>	Rosaceae	Fl A
5069	\$1.10	Kangaroo paw, <i>Anigozanthos manglesii</i>	Haemodoraceae	Fl A
5075	\$1.10	Baby's breath, <i>Gypsophila paniculata</i>	Caryophyllaceae	Fl A
5075a		Booklet pane of 10		
5077	\$1.10	Roses, <i>Rosa x hybrida</i>	Rosaceae	Fl A
5077a		Booklet pane of 10		
2020 April 29 (First Pacific Voyage of HMS Endeavour, 250y) Sheet/10				
5146d	55c	Banksia flower, <i>Banksia sp.</i>	Proteaceae	Fl B
AZERBAIJAN				
2019 December 4 (Nakhichevan Autonomous Republic)				
3 singles, 2 MS/2, 2MS/3, 2MS/4, MS/6, MS/8, MS/10, 8 SS/1				
1252b	60g	Tree in dandelion field, <i>Taraxacum campylodes</i>	Asteraceae	Fl B MS
1252d	60g	Tree in snow	Pinaceae	T B U MS
1254a	60g	Monkswort, <i>Nonea pulla</i>	Boraginaceae	Fl A MS
1254b	60g	<i>Inula aspera</i>	Asteraceae	Fl A MS
1254c	60g	<i>Verbascum pyramidatum</i>	Scrophulariaceae	Fl A MS
1254d	60g	<i>Gentiana verna</i> subsp. <i>pontica</i> (= <i>G. angulosa</i>)	Gentianaceae	Fl A MS
1254e	60g	Alpine aster, blue alpine daisy, <i>Aster alpinus</i>	Asteraceae	Fl A MS
1254f	60g	Lessing feather grass, <i>Stipa lessingiana</i>	Poaceae	Fl A MS
1264	1m	Poppy field, <i>Papaver rhoeas</i>	Papaveraceae	Fl A SS
1265	1m	<i>Solenanthes circinatus</i>	Boraginaceae	Fl A SS
BOSNIA & HERZEGOVINA				
2019 September 12 (Grains) Strip/5				
822a	10pf	Maize, <i>Zea mays</i>	Poaceae	Fr A
822b	10pf	Buckwheat, <i>Fagopyrum esculentum</i>	Polygonaceae	Fr A
822c	10pf	Rice, <i>Oryza sativa</i>	Poaceae	Fr A
822d	10pf	Wheat, <i>Triticum aestivum</i>	Poaceae	Fr A
822e	10pf	Oats, <i>Avena sativa</i>	Poaceae	Fr A
2019 September 12 SS/1				
823	90pf	Wilson's Promenade, Sarajevo		T B U
2019 November 27 Single				
827	1m	<i>Daphne blagayana</i>	Thymelaeaceae	Fl A
BOSNIA & HERZEGOVINA (Croat Admin.)				
2019 November 1 (Fruit) Set/2				
401a	2.90m	Strawberry tree, <i>Arbutus unedo</i>	Ericaceae	Fr A
401b	2.90m	Strawberry, <i>Fragaria vesca</i>	Rosaceae	Fr A

BOTSWANA		2019 December 5 (Tourist attractions)	Set/4, SS/8	
1082	2p	Baobab and Lekhubu Island, <i>Adansonia digitata</i>	Malvaceae	T A
1085	5p	Moemi Gorge & Bromm cluster fig, <i>Ficus sur</i>	Moraceae	T B
1085a		Souvenir sheet, 2 each #1082-85		
CANADA		2020 March 2 (Dahlias) SS/2, SA coil die cut 8, SA bklt die cut 13½		
3234		<i>Dahlia x hybrida</i>	Asteraceae	Fl A SS
3234a	P (92c)	Same species	Asteraceae	Fl A SS
3234b	P (92c)	Same species	Asteraceae	Fl A SS
3235	P (92c)	Same species	Asteraceae	Fl A
3236	P (92c)	Same species	Asteraceae	Fl A
3236a		Horiz. Pair #3235-36		
3237	P (92c)	Same species	Asteraceae	Fl A
3238	P (92c)	Same species	Asteraceae	Fl A
3238a		Booklet pane of 10, 5 each #3237-38 + 10 stickers		
CROATIA		2020 March 20 (Flowers) Set/3		
1171	3.10k	Entire-petaled gorse, <i>Genista holopetala</i>	Fabaceae	Fl A
1171a		Booklet pane of 10		
1172	3.10k	Tommasini's sandwort, <i>Moehringia tommasinii</i>	Caryophyllaceae	Fl A
1172a		Booklet pane of 10		
1173	6.50k	Checkered lily, <i>Fritillaria meleagris</i>	Liliaceae	Fl A
1173a		Booklet pane of 10		
GERMANY		2020 April 2 (Flower type of 2005) Single		
3160	50c	Zinnia, <i>Zinnia elegans</i>	Asteraceae	Fl A
GREENLAND		2020 February 28 (Arctic Deserts- Part 2) Single		
833	11k	Arctic poppy, <i>Papaver radicum</i>	Papaveraceae	Fl A
LUXEMBOURG		2020 March 10 (Intl. Year of Plant Health) Single		
1535	€1.05	Stylized tree cradled in hands		T A
		2019 May 27 (Vegetables) Set/6		
819	1d	Broccoli, <i>Brassica oleracea</i>	Brassicaceae	Fl A
820	2d	Peas, <i>Pisum sativum</i>	Fabaceae	Fr A
821	3d	Fava beans, <i>Vicia faba</i>	Fabaceae	Fr A
822	5d	Cucumbers, <i>Cucumis sativus</i>	Cucurbitaceae	Fr A
823	8d	Kohlrabi, <i>Brassica oleracea</i>	Brassicaceae	V A
824	10d	Leeks, <i>Allium ampeloprasum</i>	Amaryllidaceae	V A
NEPAL		2019 (Flora) Set/3		
1098	5r	Nepalese paper plant, <i>Daphne bholua</i>	Thymelaeaceae	Fl A
1099	5r	Himalayan nettle, <i>Girardinia diversifolia</i>	Urticaceae	Fl A
1100	5r	Agave, <i>Agave americana</i>	Asparagaceae	Fl A
NETHERLANDS		2019 February 25 (Experience Nature: Stinzen Plants) Sheet/10		
1588		Sheet of 10		
1588a	1 (87c)	Few-flowered garlic, <i>Allium paradoxum</i>	Amaryllidaceae	Fl A MS
1588b	1 (87c)	Lesser celandine, pilewort, <i>Ficaria verna</i>	Ranunculaceae	Fl A MS

NETHERLANDS (continued)

1588c	1 (87c)	Meadow saffron, <i>Colchicum autumnale</i>	Colchicaceae	Fl A MS
1588d	1 (87c)	Yellow star-of-Bethlehem, <i>Gagea lutea</i>	Liliaceae	Fl A MS
1588e	1 (87c)	Snowdrop, <i>Galanthus nivalis</i>	Amoryllidaceae	Fl A MS
1588f	1 (87c)	Wild fritillary, <i>Fritillaria meleagris</i>	Liliaceae	Fl A MS
1588g	1 (87c)	Crow garlic, <i>Allium vineale</i>	Amoryllidaceae	Fl A MS
1588h	1 (87c)	Star of Bethlehem, <i>Ornithogalum umbellatum</i>	Asparagaceae	Fl A MS
1588i	1 (87c)	Wild hyacinth, <i>Hyacinthoides non-scripta</i>	Asparagaceae	Fl A MS
1588j	1 (87c)	Winter aconite, <i>Eranthis hyemalis</i>	Ranunculaceae	Fl A MS

2019 September 16 (Experience Nature: Trees) Sheet/10

1594		Sheet of 10		
1594a	1 (87c)	Beech, <i>Fagus sylvatica</i>	Fagaceae	T A MS
1594b	1 (87c)	Summer linden, <i>Tilia cordata</i>	Malvaceae	T A MS
1594c	1 (87c)	Leaves		V A U MS
1594d	1 (87c)	Aspen poplar, <i>Populus tremuloides</i>	Salicaceae	T A MS
1594e	1 (87c)	European ash, <i>Fraxinus excelsior</i>	Oleaceae	T A MS
1594f	1 (87c)	Medlar, <i>Mespilus germanica</i>	Rosaceae	Fr A MS
1594g	1 (87c)	Leaves		V A U MS
1594h	1 (87c)	Linden, <i>Tilia cordata</i>	Malvaceae	T A MS
1594i	1 (87c)	Beech, <i>Fagus sylvatica</i>	Fagaceae	T A MS
1594j	1 (87c)	Silver birch, <i>Betula pendula</i>	Betulaceae	T A MS

NORFOLK ISLAND **2020 January 14** (Botanical art of the 1790s) Set/2, SS/2

1154	\$1.10	Primrose tree, <i>Lagunaria patersonia</i>	Malvaceae	Fl A
1155	\$2.20	<i>Ungeria floribunda</i>	Malvaceae	Fl A
1155a		Souvenir sheet of 2 #1154-55		

PAPUA NEW GUINEA **2019 September 16** (Fruits and vegetables) Set/4, sheet/4, SS/1

1975	1.60k	Yams, <i>Dioscorea alata</i>	Dioscoreaceae	V A
1976	3.45k	Potatoes, <i>Solanum tuberosum</i>	Solanaceae	V A
1977	5k	Taro, <i>Colocasia esculenta</i>	Araceae	V A
1978	6.90k	Sweet potatoes, <i>Ipomoea batatas</i>	Convolvulaceae	V A
1979a	1.60k	Bananas, <i>Musa x paradisiaca</i>	Musaceae	Fr A MS
1979b	3.45k	Avocados, <i>Persea americana</i>	Lauraceae	Fr A MS
1979c	5k	Cucumbers, <i>Cucumis sativus</i>	Cucurbitaceae	Fr A MS
1979d	6.90k	Tomatoes, <i>Lycopersicon esculentum</i>	Solanaceae	Fr A MS
1980	20k	Broccoli, <i>Brassica oleracea</i>	Brassicaceae	V A SS

2019 October 1 (Galip Nuts) Set/4, sheet/4, SS/1

1987	1.60k	Cross section of nut in shell, <i>Canarium indicum</i>	Burseraceae	Fr A
1988	2k	Immature nuts on tree, Same species	Burseraceae	Fr A
1989	5k	Mature nuts, Same species	Burseraceae	Fr A
1990	6.90k	Nuts at market, Same species	Burseraceae	Fr A
1991a	6.90k	Same species	Burseraceae	Fr A MS
1991b	6.90k	Same species	Burseraceae	Fr A MS
1991c	6.90k	Same species	Burseraceae	Fr A MS
1991d	6.90k	Same species	Burseraceae	Fr A MS

PAPUA & NEW GUINEA (continued)

1992 20k Man cracking kernels, *Canarium indicum* Burseraceae Fr B SS

PARAGUAY **2019 September 20** (Tree flowers) Set/3

3111 800g Floss silk tree, *Ceiba chodatii* Malvaceae Fl A
 3112 4000g Flamboyant, *Delonix regia* Fabaceae Fl A
 3113 8000g Coconut, *Cocos nucifera* Arecaceae Fr A

PORTUGAL **2019 May 13** (Types of 2014-2017, See Vol. 65(3)p.192, Vol. 67(3)p.189)

4129 I (91c) Oranges, *Citrus sinensis* Rutaceae Fr A
 4130 I (91c) Strawberry tree, *Arbutus unedo* Ericaceae T A

Azores **2019 June 27** (Tea Pickers) Set/3, SS/1

605 53c Tea picker & blossom, *Camellia sinensis* Theaceae Fl B

ROMANIA **2019 August 8** (Floristic patrimony of Romania) Set/6 + labels

6299 1.40l *Daphne blagayana* Thymelaeaceae Fl A
 6299a Sheet of 5 + label
 6300 1.60l Checkered lily, *Fritillaria meleagris* Liliaceae Fl A
 6300a Sheet of 5 + label
 6301 1.70l Alpine aster, *Aster alpinus* Asteraceae Fl A
 6301a Sheet of 5 + label
 6302 3.10l European globeflower, *Trollius europaeus* Ranunculaceae Fl A
 6302a Sheet of 5 + label
 6303 5l Catchfly, *Silene nivalis* Caryophyllaceae Fl A
 6303a Sheet of 5 + label
 6304 19l Alpine toadflax, *Linaria alpina* Plantaginaceae Fl A
 6304a Sheet of 5 + label

2019 August 23 (Flowers of Mt. Cozia) Set/6

6311 1.40l Edelweiss, *Leontopodium nivale* subsp. *alpinum* (= *L. alpinum*) Asteraceae Fl A
 6311a Sheet of 4
 6312 1.60l St. John's wort, *Hypericum richeri* Hypericaceae Fl A
 6312a Sheet of 4
 6313 1.70l Dogtooth violet, *Erythronium dens-canis* Liliaceae Fl A
 6313a Sheet of 4
 6314 7l Oxlip, *Primula elatior* Primulaceae Fl A
 6314a Sheet of 4
 6315 8.50l Trumpet gentian, *Gentiana acaulis* Gentianaceae Fl A
 6315a Sheet of 4
 6316 11.50l Dittany, *Dictamnus albus* Rutaceae Fl A
 6316a Sheet of 4

RUSSIA **2020 January 17** (Berries) Block/4

8111a 50r Raspberry, *Rubus idaeus* Rosaceae Fr A
 8111b 50r Black currant, *Ribes nigrum* Grossulariaceae Fr A
 8111c 50r Blue honeysuckle, *Lonicera caerulea* Caprifoliaceae Fr A
 8111d 50r Strawberry, *Fragaria ananassa* Rosaceae Fr A

SAMOA		2018 April (#1026, 1049, 1050 and 1052 surcharged, See Vol. 53 (3))	
1288	50s on 70s	Wild plantain, <i>Heliconia caribaea</i>	Heliconiaceae Fl A
1290	\$2 on \$1.20	Waxflower, <i>Etilingera cevuga</i>	Zingiberaceae Fl A
1291	\$3 on 80s	Parrot's beak, <i>Heliconia psittacorum</i>	Heliconiaceae Fl A
1292	\$5 on \$4	Frangipani, <i>Plumeria rubra</i>	Apocynaceae Fl A
SERBIA		2020 February 24 (Flowers) Set/3	
895	1d	Lavender, <i>Lavandula angustifolia</i> subsp. <i>pyrenaica</i> (= <i>L. vera</i>)	Lamiaceae Fl A
896	5d	Chicory, <i>Cichorium intybus</i>	Asteraceae Fl A
897	35d	St. John's wort, <i>Hypericum perforatum</i>	Hypericaceae Fl A
SINGAPORE		2019 February 4 (Yusheng, Raw Fish Salad) SS/1	
1952	\$8	Red ginger, <i>Zingiber officinale</i>	Zingiberaceae Fr V A SS Z
		Radish, <i>Raphanus sativus</i> subsp. <i>sativus</i>	Brassicaceae Fr V A SS Z
		Sesame seeds, <i>Sesamum indicum</i>	Pedaliaceae Fr V A SS Z
		Pomelo, <i>Citrus maxima</i>	Rutaceae Fr V A SS Z
		Peanuts, <i>Arachis hypogaea</i>	Fabaceae Fr V A SS Z
		Carrot, <i>Daucus carota</i>	Apiaceae Fr V A SS Z
		2019 May 8 (Diplomatic relations with Israel, 50y) Set/2, SS/1	
1967	\$1.30	Bougainvillea, <i>Bougainvillea spectabilis</i>	Nyctaginaceae Fl B
		Dancing Ladies, <i>Oncidium</i>	Orchidaceae Fl B
		Ixora, <i>Ixora coccinea</i>	Rubiaceae Fl B
		Pigeon Orchid, <i>Dendrobium crumenatum</i>	Orchidaceae Fl B
1968	\$1.30	Anemone, <i>Anemone coronaria</i>	Ranunculaceae Fl B
		Cyclamen, <i>Cyclamen persicum</i>	Primulaceae Fl B
		Narcissus, <i>Narcissus tazetta</i>	Amaryllidaceae Fl B
		Senecio, <i>Senecio vernalis</i>	Asteraceae Fl B
1968a		Souvenir sheet of 2 #1967-68	
SLOVAKIA		2019 October 11 Single	
829	€1.30	Pear fruit and tree, <i>Pyrus communis</i>	Rosaceae Fr T A
SLOVENIA		2020 January 31 (Memorandum on Nature Conservation, 100y) Single	
1368	95c	Yellow Gentian, <i>Gentiana lutea</i>	Gentianaceae Fl B
		2020 March 13 (Tree flowers) Set/3; SS/1	
1379	€1.17	Tulip tree, <i>Liriodendron tulipifera</i>	Magnoliaceae Fl A
1380	€1.31	Catalpa, <i>Catalpa bignonioides</i>	Bignoniaceae Fl A
1381	€1.45	Princess tree, empress tree, <i>Paulownia tomentosa</i>	Paulowniaceae Fl A
1382	€1.51	Horse chestnut, <i>Aesculus hippocastanum</i>	Sapindaceae Fl A SS
SURINAM		2020 March 4 (Flowers) Block/12	
1596a	F (\$3)	Whitemargin sandmat, <i>Euphorbia</i> (= <i>Chamaesyce</i>) <i>albomarginata</i>	Euphorbiaceae Fl A
1596b	\$6	Stinking Gourd, Buffalo Gourd, <i>Cucurbita foetidissima</i>	Cucurbitaceae Fl A
1596c	\$9	Wild cucumber, prickly cucumber, <i>Echinocystis lobata</i>	Cucurbitaceae Fl A
1596d	\$10	Redstem filaree, redstem stork's bill, <i>Erodium cicutarium</i>	Geraniaceae Fl A
1596e	\$11	Wooly geranium, <i>Geranium erianthum</i>	Geraniaceae Fl A
1596f	\$12	Wild geranium, spotted geranium, <i>Geranium maculatum</i>	Geraniaceae Fl A

SURINAM (continued)

1596g	\$13	Richardson's geranium, <i>Geranium richardsonii</i>	Geraniaceae	Fl A
1596h	\$14	Scarlet rosemallow, <i>Malvaviscus</i> (= <i>Hibiscus</i>) <i>coccineus</i>	Malvaceae	Fl A
1596i	\$15	Desert rosemallow, <i>Hibiscus coulteri</i>	Malvaceae	Fl A
1596j	\$16	Balsam gourd, <i>Ibervillea lindheimeri</i>	Cucurbitaceae	Fl A
1596k	\$20	Wild hollyhock, <i>Iliamna grandiflora</i>	Malvaceae	Fl A
1596l	\$21	California manroot, <i>Marah fabaceus</i>	Cucurbitaceae	Fl A

2020 April 1 (Fruits and vegetables) Block/12

1597a	F(\$3)	Cherimoya, <i>Annona cherimola</i>	Annonaceae	Fr A
1597b	\$6	Pond apple, <i>Annona glabra</i>	Annonaceae	Fr A
1597c	\$9	Sugar apple, <i>Annona squamosa</i>	Annonaceae	Fr A
1597d	\$10	Pomelo, <i>Citrus maxima</i> (= <i>grandis</i>)	Rutaceae	Fr A
1597e	\$11	Sea grape, <i>Coccoloba uvifera</i>	Polygonaceae	Fr A
1597f	\$12	Roselle, <i>Hibiscus sabdariffa</i>	Malvaceae	Fr A
1597g	\$13	Ambarella, June plum, <i>Spondias dulcis</i> (= <i>cythera</i>)	Anacardiaceae	Fr A
1597h	\$14	Yellow mombin, <i>Spondias mombin</i> (= <i>lutea</i>)	Anacardiaceae	Fr A
1597i	\$15	Mombin, <i>Spondias mombin</i>	Anacardiaceae	Fr A
1597j	\$16	Brazil plum, <i>Spondias tuberosa</i>	Anacardiaceae	Fr A
1597k	\$20	Tamarind, <i>Tamarindus indica</i>	Fabaceae	Fr A
1597l	\$21	Maize, <i>Zea mays</i>	Poaceae	Fr A

SWEDEN**2020 January 9** (Stylized flowers in hearts) Set/7

2852	(11k)	Daisies	Asteraceae	Fl B S
2853	22k	Unidentified flowers		Fl B S
2854		Strip of 5		Fl B S
2854a	(11k)	Daisies	Asteraceae	Fl B S
2854b	(11k)	Unidentified flowers		Fl B S
2854c	(11k)	Tulips, <i>Tulipa x hybrida</i>	Liliaceae	Fl B S
2854d	(11k)	Tulips, <i>Tulipa x hybrida</i>	Liliaceae	Fl B S
2854e	(11k)	Unidentified flowers		Fl B S

SWITZERLAND**2020 May 7** (Photomicrographs of plants) Set/2

1759	85c	Forget-me-not pollen grains, <i>Myosotis sylvatica</i>	Boraginaceae	V A
1760	100c	Rose petal, <i>Rosa sp.</i>	Rosaceae	Fl A

2020 May 7 (Swiss Florists' Association) Single

1766	100c	Hydrangea, <i>Hydrangea macrophylla</i>	Hydrangeaceae	Fl A
		Gloriosa, <i>Gloriosa superba</i>	Colchicaceae	Fl A
		Montbretia, <i>Crocasmia sp.</i>	Iridaceae	Fl A
		Dahlia, <i>Dahlia x hybrida</i>	Asteraceae	Fl A
		Roses, <i>Rosa sp.</i>	Rosaceae	Fl A
		Burnets, <i>Sanguisorba officinalis</i>	Rosaceae	Fl A

SYRIA**2019 July** (Flowers) Set/5

1785		Horiz strip 5		
1785a	£400	Lawsonia, henna, <i>Lawsonia inermis</i>	Lythraceae	Fl A
1785b	£400	Saffron, <i>Crocus sativus</i>	Iridaceae	Fl A

SYRIA (continued)

1785c	£400	Dahlias, <i>Dahlia x hybrida</i>	Asteraceae	Fl A
1785d	£400	Sage, <i>Salvia officinalis</i>	Lamiaceae	Fl A
1785e	£400	Arabian jasmine, <i>Jasminum sambac</i>	Oleaceae	Fl A

2019 November (World Environment Day) Single

1801	£250	Unidentified tree		T A U
------	------	-------------------	--	-------

TAJIKISTAN **2018 December 20** (Cacti and insects) Block/4

508a	1.60s	Unidentified cactus	Cactaceae	Fl V A U
508b	2.50s	Unidentified cactus	Cactaceae	Fl V A U
508c	3.50s	Unidentified cactus	Cactaceae	Fl V A U
508d	5s	Unidentified cactus	Cactaceae	Fl V A U

TONGA **2019 June 14** (Gardens of the World) Sheet/6, SS/1

1359a	2.30pa	Kirstenbosch, South Africa		V B U
1359b	2.30pa	Keukenhof, Netherlands, <i>Tulipa x hybrida</i>	Liliaceae	Fl B U
1359c	2.30pa	Buchart Gardens, Canada		Fl B U
1359d	2.30pa	Botanical Garden of Curitiba, Brazil		V B U
1359e	2.30pa	Nong Nooch Garden, Thailand		V B U
1359f	2.30pa	Kenrokuen Garden, Japan		Fl B U
1360	\$9.50	Monet's Garden, Fance		
Fl B U				

TRINIDAD & TOBAGO **2019 June** (Diplomatic relations with China 45 y) Set/5

950a	\$5	Chinese peony, <i>Paeonia officinalis</i>	Paeoniaceae	Fl A
950b	\$10	Double chaconia, <i>Warszewiczia coccinea</i>	Rubiaceae	Fl A

2019 (Cut down sheets of #848-849, surcharged, see Vol. 60(3))

951c	\$2 on \$2.50	Butterfly orchid, <i>Psychopsis papilio</i>	Orchidaceae	Fl A SS
951d	\$2 on \$2.50	Hot peppers, <i>Capsicum sp.</i>	Solanaceae	Fr A SS
951h	\$2 on \$4.50	Royal Poinciana, <i>Delonix regia</i>	Fabaceae	Fl A SS
951i	\$2 on \$5.25	Hybrid cacao, <i>Theobroma cacao</i>	Malvaceae	Fr A SS
951k		As 951 with inverted surcharge frame		
952j	\$2 on \$5.25	<i>Selenipedium palmifolium</i>	Orchidaceae	Fl A SS
952k		As 952 with inverted surcharge frame		

TURKEY **2019 June 14** (Diplomatic relations with Mongolia, 50y) Sheet/2

3663a	2l	Tulip, <i>Tulipa gesneriana</i>	Liliaceae	Fl B Z
3663b	2l	Scabiosa, <i>Scabiosa</i> 'Butterfly Blue'	Caprifoliaceae	Fl B Z

TURKISH REP. OF NORTHERN CYPRUS **2019 September 24** Set/2

831a	250l	<i>Echinocereus chisoensis</i> (=metornii)	Cactaceae	Fl A
831b	250l	Miniature barrel cactus, <i>Thelocactus</i> (=Hamatocactus) <i>setispinus</i>	Cactaceae	Fl A

UKRAINE **2019 May 25** (City of Kyiv) Sheet/5

1214		Lilacs, <i>Syringa vulgaris</i>	Oleaceae	Fl B MS Z
		Horse chestnuts, <i>Aesculus hippocastanum</i>	Sapindaceae	

2019 July 5 (Donetsk Oblast) Sheet/4

1219d	8h	Mine tailings and sunflower field, <i>Helianthus annuus</i>	Asteraceae	Fl A MS Z
-------	----	---	------------	-----------

UKRAINE (continued)**2019 July 27** (Flora & Fauna of Mezynskyi Nat. Nature Park) sheet/51221d 8h Fringed water lily, *Nymphoides peltata* Menyanthaceae Fl A MS**URUGUAY****2019 November 25** (Plants, birds & insects) Block or strip/42696a 25p *Myrrhinium atropurpureum* var. *octandrum* Myrtaceae Fl B2696b 25p *Tillandsia aeranthos* Bromeliaceae Fl B2696c 25p *Luehea divaricata* Malvaceae Fl B2696d 25p *Hypericum connatum* Hypericaceae Fl B**UNITED STATES****2020 April 24**

Single

5460 (\$1.20) Chrysanthemum, *Chrysanthemum x hybrida* Asteraceae Fl A**2020 May 13** (American Gardens) Set/10

5461 (55c) Brooklyn Botanic Garden Fl B U

5462 (55c) Stan Hywet Hall & Gardens, Ohio, *Betula papyrifera* Betulaceae T B

5463 (55c) Dumbarton Oaks, District of Columbia Fl B U

5464 (55c) Coastal Maine Botanical Gardens Fl B U

5465 (55c) Chicago Botanical Garden T B U

5466 (55c) Winterthur Garden, Delaware Fl B U

5467 (55c) Biltmore Estate Gardens, North Carolina Fl B U

5468 (55c) Alfred B. Maclay Gardens State Park, Florida T B U

5469 (55c) The Huntington Botanical Gardens, California T B U

5470 (55c) Norfolk Botanical Garden, Virginia Fl B U

UZBEKISTAN**2019 July 11** (Fruit) Sheet/3891a 1800s Black mulberries, *Morus nigra* Moraceae Fr A MS891b 3200s Apples, *Malus domestica* Rosaceae Fr A MS891c 3600s Pears, *Pyrus communis* Rosaceae Fr A MS**2019 December 10** (Flora & fauna of Kyzylkum State Reserve) Sheet/6906b 3400s White saxaul, *Haloxylon persicum* Amaranthaceae T A MS906c 3500s Camelthorn, *Alhagi maurorum* Fabaceae V A MS**VATICAN CITY****2020 February 14** (Earth Day, 50y) SS/21739a 30c Dandelion seeds, flower bud, *Taraxacum campylodes* Asteraceae Fr B1739b Dandelion seeds, *Taraxacum campylodes* Asteraceae Fr B**WALLIS & FUTUNA** **2019 November 7** (Traditions with Plants & Plant products) Strip/4818a 115fr Dancers wearing flowers, *Hibiscus tileaceus* Malvaceae Fl B818b 115fr Clothing from leaves, *Pandanus odoratissimus* Pandanaceae V B818c 115fr Cloth from paper mulberry, *Broussonetia papyrifera* Moraceae V B818d 115fr Making kava, *Piper methysticum* Piperaceae Fr B

New Plants in the Philatelic Herbarium

By Christopher E. Dahle, BU 1269

Platanthera leucophaea ORCHIDACEAE

Common names: Eastern prairie fringed orchid, prairie white fringed orchid

Synonyms: *Blephariglottis leucophaea*, *Fimbriella leucophaea*, *Habenaria leucophaea*, *Orchis leucophaea*

Terrestrial, herbaceous perennial 30-120 cm. Leaves alternate, Raceme of up to 40 white flowers. Labellum deeply lobed and fringed. Grows in bogs, marshes and meadows. Found in mid-western United States and Canada from Oklahoma to Ontario.



United States Scott #5443, 5450. Issued 21 Feb. 2020. Designed by Ethel Kessler from photographs by Jim Fowler. Printed by Banknote Corporation of America as booklets and coils. Booklets printed at 800 stamps per revolution on phosphor tagged paper in a double-sided booklet with pressure sensitive adhesive. Print run of 500 million stamps. Coils printed at 540 stamps per revolution on nonphosphored Type III paper in coils of 3,000 stamps. Print run of 15 million.

Telipogon humboldtiana ORCHIDACEAE

Telipogon is a Neotropical genus with around 200 species. Most are epiphytes.

T. humboldtiana is a new species revealed on the day the stamps were issued.

Ecuador Scott #2236a. Issued 26 Sep. 2019 for the 250th Anniversary of the birth of Alexander von Humboldt in a strip of 5. Printed by offset lithography.



Dichaea bonplandiana ORCHIDACEAE

New species. No description in open publications.

Ecuador Scott #2236b, Issued 26 Sep. 2019 for the 250th Anniversary of the birth of Alexander von Humboldt in a strip of 5.



Telipogon montufanriana ORCHIDACEAE

New species. No description in open publications.

Ecuador Scott #2236e. Issued 26 Sep. 2019 for the 250th Anniversary of the birth of Alexander von Humboldt in a strip of 5.



Abies sibirica subsp. *semenovii* PINACEAE

Common name: Semonov's fir, Tianshan fir

Synonyms: *Abies semenovii*, *Abies sibirica* var. *semenovii*

Evergreen tree to 30 m. Differs from *A. sibirica* with grooved shoots and needles with marginal resin channels. Female cones brown/yellow when mature. Confined to Kyrgyzstan on north-facing slopes of Tein Shan mountains or steep ravines at 1300 to 2850 m.

Kyrgyzstan Scott # 614. Issued 23 Nov. 2019 in a set of 3 featuring flora of the Kyrgyzstan Republic.



***Saussurea laniceps*** ASTERACEAE

Common name: Snow lotus

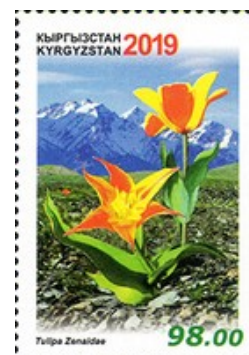
Herbaceous perennial 15-45 cm with rosette growth habit. Leaves persistent at base. Leaves 5-15 by 1-2 cm, green or blackish purple, tomentose. Flowerheads, 6-36, in inflorescence to 8 cm tall appear August to October. White and purple flowers. Grow on alpine scree slopes 3,200-5,500 m in Kyrgyzstan mountains and the Himalayas in China and India. Used medicinally.

Kyrgyzstan Scott #615. Issued 23 Nov. 2019 in set of flora of the Kyrgyzstan Republic.

Tulipa zenaidae LILIACEAE

Bulbous perennial with stem 10-15 cm. Leaves, 3 oblong, glaucous, pale green. Single flower, red outside, yellow inside 5 cm long. Flowers April-May. Grows on fine earth rubble slopes among montane grasslands and brush. Alatau Mountains of Kyrgyzstan 1,300 -2,100 m.

Kyrgyzstan Scott #616. Issued 23 Nov. 2019 in set of flora of the Kyrgyzstan Republic.

***Mangifera pajang*** ANACARDIACEAE

Common name: bambangan

Tree 15-33 m. Leaves deciduous. Fruit globose 10-12 cm diameter, brown, edible flesh orange-yellow in color, with single large seed. Grows in lowland dipterocarp forests of Borneo. Cultivated.

Malaysia Scott #1821. Issued 19 June 2019 in a set of 3 Sour Fruits with a souvenir sheet. Printed by Southern Colour Print, New Zealand in sheets of 20

***Garcinia xanthochymus*** CLUSIACEAE

Common name: False mangosteen, yellow mangosteen, gamboge, Himalayan garcinia

Synonyms: *Garcinia pictoria*, *G. roxburghii*, *G. tinctoria*, *Stalagmitis pictoria*, *Xanthochymus pictorius*, *X. tinctorius*

Evergreen tree to 12 m with pyramidal crown. Drooping leaves oblong to lanceolate 15-30 cm by 6-12 cm. Greenish white unisexual flowers, 1.3 cm, in dense clusters of 4-10 after dry spell. Mature fruit globose or ovoid, yellow 5-8 cm diameter. Fruit eaten raw or cooked; pleasant acid taste. Hot humid tropics of southern China, India and SE. Asia 600 to 1,400 m.



Malaysia Scott #1822. Issued 119 June 2019 as Sour Fruits.

Cymbaria daurica OROBANCHACEAESynonyms: *C. dahurica*

Herbaceous perennial 6-23 cm, white sericeous. Leaves opposite linear 1-2 cm x 2-3 cm. Flowers solitary 3-4.5 cm yellow, June-Aug. Grow on dry mountain slopes and sandy grassland, 600-1100 m, China, Mongolia and eastern Siberia.



Mongolia Scott #2921. Issued 18 Nov. 2019 for Beautiful Landscapes of Mongolia II, in a set of 7. Printed in sheets of 12 by offset lithography by Cartor Security Printing.



Daphne bholua THYMELAEACEAE

Common names: Nepalese paper plant, baruwa

Synonyms: *Daphne bholua* var. *bholua*

Evergreen shrub to 2.5 m with open habit. Leaves leathery. Flowers pink, fragrant, 4-petalous in clusters of 8-15, in late winter. Grows in evergreen thickets and forest margins, Himalayas from Nepal to southern China and Vietnam, 1700-3500 m. horticultural cultivars are grown.

Nepal Scott #1098. Issued in 2019 in a series of 3 stamps of Nepal Flora.



Girardinia diversifolia URTICACEAE

Common name: Himalayan nettle, Nilghiri nettle

Synonyms: 34 synonyms

Erect herbaceous annual or perennial 25-250 cm, in a clump with many hollow stems. Stinging hairs on leaves and stems. Leaves alternate, elliptical to ovate with heart-shaped base, 6-20 cm x 3.5-18 cm with toothed margin. Flowers dioecious, Sep.-Oct. Male flower inflorescence to 10 cm with flowers 1 mm diameter in dense clusters. Female flowers sessile, 1.5-2 mm on inflorescence 10-28 cm. Elevations 1200-3000 m in moist shady forested areas of Himalayas from India to China and in tropical Africa. Cultivated in Nepal for use as vegetable or fiber or medical purposes.

Nepal Scott #1099. Issued in 2019 in series of 3, Nepal Flora.

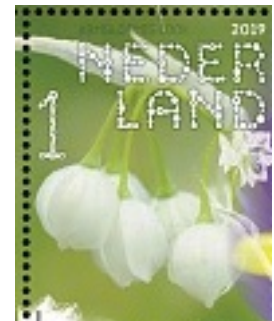
Allium paradoxum AMARYLLIDACEAE

Common names: Few-flowered garlic, few-flowered leek

Synonyms: *Scilla paradoxa*

Herbaceous, perennial plant growing from a bulb to 30 cm. Leaves to 33 cm, 5-25 mm wide. Flowers April to May on single scape, 15-30 cm. Deciduous woodland habitat. W. Asia Caucasus, Iran and Turkmenistan. Used as wild food in Europe.

Netherlands Scott #1588a Issued 25 Feb. 2019 in a sheet of 10, the sixth in a series "Experience Nature" displaying "Stinzen Plants". Designed by Frank Janse who operates Frank Grafisch Ontwerp in Gouda, using photographs from Buiten-Beeld, a Dutch image bank. Printed by offset in four colors by Joh. Enschedé Security Print, Haarlem.



Allium vineale AMARYLLIDACEAE

Common name: Crow garlic, wild garlic

Synonyms: 33 synonyms

Perennial herbaceous plant growing from a bulb, to height of 30-90 cm. Leaves to 15-60 cm by 2-4 mm, linear, hollow. Inflorescence a tight umbel with pinkish green flowers. Bulbils form during flowering. Native to Europe and North Africa and Middle East.

Netherlands Scott #1588g. Issued 25 Feb. 2019 for the "Experience Nature" series.



Canarium indicum BURSERACEAE

Common name: Canarium nut, galip nut, Java almond

Synonyms: 11 synonyms

Evergreen tree to 35 m. Leaves compound, 3-7 oblong-ovate leaflets on rachis to 30 cm. Flowers, in terminal panicles 15-40 cm, are 1 cm diameter, yellowish white. Flowers at beginning of wet season. Fruit dark purple on drooping stems. Seeds eaten raw or cooked. Yields edible oil. Used medicinally and for timber. Lowland humid tropics 0-600 m where dry season is less than 2 months, in medium to heavy soils. Eastern Indonesia, Papua New Guinea, Solomon Islands and Vanuatu.



Papua New Guinea Scott #1987. Issued 1 Oct. 2019 in a series featuring Galip Nuts with a sheetlet of 4 and souvenir sheet of 1. Illustrations by Billy Telek, designed by Yang Yansom. Printed on unwatermarked Tullis Russel non-phosphor 104 gsm paper with PVA gum using Multicolour Offset Lithography by Southern Colour Print, Dunedin, New Zealand.

Euphorbia albomarginata EUPHORBIACEAE

Common names: Whitemargin sandmat, rattlesnake weed

Synonyms: *Chamaesyce albomarginata*, *C. hartwegiana*, *Euphorbia hartwegiana*, *E. stipulacea*

Perennial herb, stems prostrate, forming mats. Leaves opposite, orbicular to oblong, 3-8 mm long, with white margins. Flowers modified into cyathia, subtending bracts, red and white, 2.5 mm diameter, April - September. Coastal sage scrub, chaparral, creosote bush scrub, pinyon-juniper woodland and Joshua tree woodland of California and N. Mexico, 75 -2040 m.

Surinam Scott #1596a. Issued 4 March 2020 in a block of 12. Perforated 13¾ x 14. Designed by Studio Labranda. Printed in four color offset on paper with synthetic gum as sheets of 24 with two blocks of 12.

***Cucurbita foetidissima*** CUCURBITACEAE

Common names: Stinking gourd, buffalo gourd, Missouri gourd

Synonyms: *Cucumis foetidissimus*, *C. perennis*, *Cucurbita foetidissima* var. *foetidissima*, *Cucurbita perennis*, *Ozodycus perennis*, *Pepo foetidissima*

Perennial foul-smelling xerophytic herb, vining stems with tendrils and alternate, hairy leaves to 30 cm. Bell-shaped flowers to 10 cm, yellow to orange, June -August. Fruits globular to 10 cm. Grows in open areas on plains and deserts from S. California to eastern Colorado and Missouri, south to Mexico.

Surinam Scott # 1596b. Issued 4 March 2020 in block of 12.

***Echinocystis lobata*** CUCURBITACEAE

Common names: Wild cucumber, prickly cucumber

Synonyms: *E. echinata*, *Hexameria echinata*, *Micrampis echinata*, *M. lobata*, *Momordica echinata*, *Sicyos lobatus*

Annual herbaceous climbing plant 8-12 m with branching stems. Leaves 5-lobed, alternate, hairy 8 cm. White female flowers borne singly, male flowers in erect panicles. Fruit ellipsoid to cylindrical, prickly. Wet to moist habitats from Nova Scotia to Rocky Mountains, south to Ohio River.

Surinam Scott # 1596c. Issued 4 March in block of 12.

Erodium cicutarium GERANIACEAE

Common names: Redstem filaree, redstem stork's bill, common stork's bill

Synonyms: 50 synonyms

Annual herb to 60 cm growing as a rosette, with later hairy stems. Leaves 15 cm long, pinnate, hairy, leaflets ovate. 5-12 flowered umbels produce pink or mauve flowers 10 mm diameter, June-September. Fruit beak 3-3.5 cm, hairy. Native to Europe, north Africa and temperate Asia. Grows in fields, disturbed areas. Invasive in many parts of the world.

Surinam Scott #1596d. Issued 4 March 2020 in block of 12.

***Geranium erianthum*** GERANIACEAE

Common name: Woolly geranium

Synonyms: *Geranium pratense* var. *erianthum*

Herbaceous perennial to 30 cm. Leaves pinnate. Flowers pink or violet, rarely white, May-July. Moist soils in woods, sub-alpine meadows and thickets. Northwest British Columbia and southwest Yukon to Alaska, Russia, China and Japan.

Surinam Scott #1596e. Issued 4 March 2020 in block of 12.

***Geranium richardsonii*** GERANIACEAE

Common name: Richardson's geranium

Synonyms: *G. albiflorum*, *G. hookerianum*, *G. loloense*, *G. pentagynum*, *G. richardsonii* var. *intermedium*

Perennial herb 20-80 cm. Leaves 15 cm wide palmate with 3-7 lobes. Flowers white to purple with prominent veins, 2-4 cm, April-October. Riparian and moist areas and meadows, 1,100-3,500 m. Yukon Territory south to California, New Mexico and South Dakota.

Surinam Scott #1596g. Issued 4 March 2020 in block of 12.

Ibervillea lindheimeri CUCURBITACEAE

Common name: Balsam gourd, Lindheimer's Globeberry

Synonyms: *I. tenella*, *I. tripartita*, *Maximowiczia tripartita*, *M. tripartita* var. *tenella*, *Sicydium lindheimeri*, *S. tenellum*, *S. tripartita*

Perennial vine to 3 m growing from large caudex. Leaves alternate, deciduous, 3-5 lobed. Flowers yellow April-September. Fruit to 2-3.5 cm globular, bright red. Dry woods and thickets in New Mexico, Oklahoma and Texas.

Surinam Scott #1596j. Issued 4 March 2020 in block of 12.

***Marah fabacea*** CUCURBITACEAE

Common name: California manroot, coast wild cucumber

Synonyms: *Echinocystis fabacea*, *Marah fabacea* var. *fabacea*, *Micrampis fabacea*

Perennial vine with hairy stems to 6 m. Leaves alternate, 5-lobed, deciduous in summer. Flowers white March-June. Male flowers on spike, female flowers single, yellow-green or white. Fruit 4-5 cm diameter with prickles 1 cm long, turn yellow when ripe. Streams banks and washes as well as dry chaparral, up to 1,600 m in most of California where it is endemic.

Surinam Scott #1596l. Issued 4 March 2020 in block of 12.

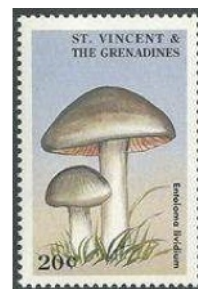




FUNGI

Editor

Paul A. Mistretta, BU2002



New Listings

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

PHILIPPINES

2019 11 November (Mushrooms) 4SF & 1MS, SS/4

3835a	25p	Brittle gill fungus; <i>Russula</i>	Russulaceae	A
3835b	25p	Earthstar	Geastraceae	A
3835c	25p	Circular bracket fungus	--	A
3835d	25p	Parasol mushrooms, <i>Macrolepiota procera</i>	Agaricaceae	A
3835	4 x 25p	SS of 4 – 1 each Sc#3835a-Sc#3835d	as above	A

ST. PIERRE & MIQUELON

2019 7 November (Mushrooms)

1082	1.50€	Cèpe d'Amérique; <i>Boletus chippewaensis</i>	Boletaceae	A
------	-------	---	------------	---

SWEDEN

2019 7 November (Mushrooms)

2849	10 x 8.50k	2 very small mushrooms in selvedge of Christmas tree issue	--	C G
		10 SA stamp pane; mushrooms not in stamps		

TAJIKISTAN

2018 20 December (Mushrooms) Block/4

507c	5s	Hedgehog, mushrooms & bird	--	C G
------	----	----------------------------	----	-----

2019 2 July (Mushrooms) Seet/3

514	3.5s	Mushrooms, butterflies, grasshoppers and snail		B
515	4.2s	Mushrooms, butterflies and hedgehog		B
516	5.8s	Mushrooms, butterflies, dragonfly and frog		B

#514-516 were printed in sheets of 9 stamps plus 1 label

TONGA

(Owls & Mushrooms)

1384	30pa	Mushrooms & tawny owl	--	B
1385d	30pa	as Sc#1384 without white frames; from block of 4 or vertical strip of 4	--	B
1385e	90pa	MS containing a strip of 1 ea Sc#1385a-d; stamps have white frames on 2 sides	--	B

Editor's alert -- This is an extremely pricey group of stamps with Scott values as follows: 1384 - \$22.50 (set 1381-1384 - \$77.00); Sc#1385d - \$22.50 (set 1385a-d - \$77.50); and, Sc#1385e - \$77.00.

UZBEKISTAN

10 December 2019 (Mushrooms) MS/4

905a	3200s	Common morel, morel, yellow morel, + 3; <i>Morchella esculenta</i>	Morchellaceae	A
905b	3400s	Oyster mushroom, <i>Pleurotus ostreatus</i>	Pleurotaceae	A
905c	3500s	King trumpet mushroom, French horn mushroom, +5; <i>Pleurotus eryngii</i>	Pleurotaceae	A
905d	5800s	Field blewit, <i>Lepista saeva</i>	Tricholomataceae	A

Issued as a miniature sheet of 4, 1 each as above



MAMMALIA

Editor
Michael Prince, LM68



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ARMENIA				
2019 November 12 (Fauna) Set/2				
1201	330d	Leopard, <i>Panthera pardus ciscaucasica</i>	Felidae	A
BOTSWANA				
2019 December 5 (Tourist Attractions) Set/4				
1083	5p	African Buffalo, <i>Syncerus caffer</i>	Bovidae	B
1084	7p	Dent's Horseshoe Bat, <i>Rhinolophus denti</i>	NEW Rhinolophidae	B
KAZAKHSTAN				
2019 December 31 (Barsa-Kelmes Nature Reserve) SS/3				
907a	500te	Steppe Saiga, <i>Saiga tatarica</i>	Bovidae	A SS
907b	500te	Onager, <i>Equus hemionus kulan</i>	Equidae	A SS
KYRGYZSTAN				
2019 June 11 (China 2019, World Stamp Exhibition, Wuhan) Set/2				
602a	20s	Tiger, <i>Panthera tigris</i>	Felidae	A
602b	130s	Same species	Felidae	A
LIBERIA				
2019 February 25 (Rhinoceros) Sheet/3, SS/1				
3309a	\$100	White Rhinoceros, <i>Ceratotherium simum</i>	Rhinocerotidae	A
3309b	\$100	Same species	Rhinocerotidae	A
3309c	\$100	Same species	Rhinocerotidae	A
3310	\$800	Same species	Rhinocerotidae	A Z
2019 April 8 (Dolphins) Sheet/6, SS/1				
3320a	\$100	Long-beaked Common Dolphin, <i>Delphinus capensis</i>	Delphinidae	A
3320b	\$100	Same species	Delphinidae	A
3320c	\$200	Same species	Delphinidae	A
3320d	\$200	Same species	Delphinidae	A
3320e	\$300	Same species	Delphinidae	A
3320f	\$300	Same species	Delphinidae	A
3321	\$800	Same species	Delphinidae	A Z
2019 April 19 (Buffalo) Sheet/4, SS/1				
3324a	\$150	African Buffalo, <i>Syncerus caffer</i>	Bovidae	A
3324b	\$250	Same species	Bovidae	A
3324c	\$350	Same species	Bovidae	A
3324d	\$450	Same species	Bovidae	A
Margin		African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A Z
2019 May 1 (Chimpanzees) Sheet/4, SS/2				
3328a	\$150	Common Chimpanzee, <i>Pan troglodytes</i>	Hominidae	A
3328b	\$250	Eastern Chimpanzee, <i>Pan troglodytes schweinfurtii</i>	Hominidae	A
3328c	\$350	Common Chimpanzee, <i>Pan troglodytes</i>	Hominidae	A

LIBERIA (continued)

3328d	\$450	Eastern Chimpanzee, <i>Pan troglodytes schweinfurtii</i>	Hominidae	A
3329a	\$500	Common Chimpanzee, <i>Pan troglodytes</i>	Hominidae	A
3329b	\$500	Eastern Chimpanzee, <i>Pan troglodytes schweinfurtii</i>	Hominidae	A Z
2019 June 8 (Mongoose) Sheet/4, SS/2				
3334a	\$150	Slender Mongoose, <i>Galerella sanguinea</i>	Herpestidae	A
3334b	\$250	Same species	Herpestidae	A
3334c	\$350	Same species	Herpestidae	A
3334d	\$450	Same species	Herpestidae	A
3335a	\$500	Same species	Herpestidae	A Z
3335b	\$500	Same species	Herpestidae	A Z

MALAYSIA**2019 July 28** (Wildlife Conservation) Set/3, SS/2

1825	60c	Sun Bear, <i>Helarctos malayanus</i>	Ursidae	A
1826	60c	Sunda Pangolin, <i>Manis javanica</i>	Manidae	A
1827	60c	Asian Elephant, <i>Elephas maximus</i>	Elephantidae	A
1828	\$5	Sumatran Rhinoceros, <i>Dicerorhinus sumatrensis</i>	Rhinocerotidae	A
1829	\$5	Tiger, <i>Panthera tigris</i>	Felidae	A

MALDIVE ISLANDS**2017 March 16** (Flora, Fauna and Mushrooms) Set/4, SS/1

3818a	20r	Dugong, <i>Dugong dugon</i>	Dugongidae	A
3818b	20r	Same species	Dugongidae	A
3818c	20r	Same species	Dugongidae	A
3818d	20r	Same species	Dugongidae	A
3823a	22r	Lesser False Vampire Bat, <i>Megaderma spasma</i>	NEW Megadermatidae	A
3823b	22r	Indian Flying Fox, <i>Pteropus giganteus</i>	Pteropodidae	A
3823c	22r	North American Long-nosed Bat, <i>Leptonycteris yerbabuenae</i>	Phyllostomidae	A
3823d	22r	Pallid Bat, <i>Antrozous pallidus</i>	Vespertilionidae	A
3833	70r	Greater Horseshoe Bat, <i>Rhinolophus ferrumequinum</i>	Rhinolophidae	A

MARSHALL ISLANDS**2019 March 29** (Marine Life) Set/5

1230	11c	Indo-Pacific Bottlenose Dolphin, <i>Tursiops aduncus</i>	Delphinidae	A
1233	\$1.05	Sperm Whale, <i>Physeter macrocephalus</i>	Physeteridae	A

MEXICO**2019 March 27** (Jaguar) Single

3139	15p	Jaguar, <i>Panthera onca</i>	Felidae	A
------	-----	------------------------------	---------	---

MONGOLIA**2019 November 18** (Landscapes) Type of 2018, Set/7

2922	1300t	Brown Bear, <i>Ursus arctos gobiensis</i>	Ursidae	B
2923	1300t	Pallas's Cat, <i>Otocolobus manul</i>	Felidae	B
2924	1300t	Wild Horse, <i>Equus przewalskii</i>	Equidae	B
2927	1300t	Wild Bactrian Camel, <i>Camelus ferus</i>	Camelidae	B

NAMIBIA**2018 July 18** (Wild Cats) Set/4

1375	NVI (\$7.10)	Serval, <i>Leptailurus serval</i>	Felidae	A
1376	NVI (\$8.10)	Caracal, <i>Caracal caracal</i>	Felidae	A
1377	NVI (\$9.50)	Common Wild Cat, <i>Felis silvestris</i>	Felidae	A
1378	NVI (\$34.40)	Black-footed Cat, <i>Felis nigripes</i>	Felidae	A

NAMIBIA (continued)

2019 March 19 (Whales) Set/6

1379	NVI (\$4.60)	Blue Whale, <i>Balaenoptera musculus</i>	Balaenopteridae	A
1380	NVI (\$7.60)	Southern Right Whale, <i>Eubalaena australis</i>	Balaenidae	A
1381	NVI (\$8.60)	Strap-toothed Whale, <i>Mesoplodon layardii</i>	Ziphiidae	A
1382	NVI (10.10)	Pygmy Right Whale, <i>Caperea marginata</i>	Neobalaenidae	A
1383	NVI (\$32)	Pygmy Killer Whale, <i>Feresa attenuata</i>	Delphinidae	A
1384	NVI (\$32)	Pygmy Sperm Whale, <i>Kogia breviceps</i>	Kogiidae	A

PALAU

2019 July 31 (Macaques) Sheet/4, SS/1

1438a	\$1	Long-tailed Macaque, <i>Macaca fascicularis</i>	Cercopithecidae	A
1438b	\$1	Same species	Cercopithecidae	A
1438c	\$2	Same species	Cercopithecidae	A
1438d	\$2	Same species	Cercopithecidae	A
1439	\$5	Same species	Cercopithecidae	A

PHILIPPINES

2019 June 14 (Diplomatic Relations with Thailand) Horiz. pair

3820a	12p	Asian Elephant, <i>Elephas maximus</i>	Elephantidae	A
3820b	45p	Water Buffalo (Carabao), <i>Bubalus bubalis cara</i>	Bovidae	A

PORTUGAL

2019 October 22 (Christmas) Set/3, SS/1

4177	53c	Dromedary, <i>Camelus dromedarius</i>	Camelidae	A
4178	86c	Same species	Camelidae	A
4179	91c	Same species	Camelidae	A

ROMANIA

2019 November 19 (Animals and Thought Balloons) Set/4 + labels

6341	1.60l	Polar Bear, <i>Ursus maritimus</i>	Ursidae	A
6342	3.10l	Barbary Macaque, <i>Macaca sylvanus</i>	Cercopithecidae	A
6343	5l	St Bernard Dog, <i>Canis lupus familiaris</i>	Canidae	A
6344	19l	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A

RUSSIA

2019 July 23 (Endangered Animals) Set/4

8040a	50r	Dhole, <i>Cuon alpinus</i>	Canidae	A
8040b	50r	Narwhal, <i>Monodon monoceros</i>	Monodontidae	A
8040c	50r	Arctic Fox, <i>Vulpes lagopus</i>	Canidae	A
8040d	50r	White-beaked Dolphin, <i>Lagenorhynchus albirostris</i>	Delphinidae	A

SERBIA

2020 January 24 (Year of the Rat) Set/2

891	27d	Black Rat, <i>Rattus rattus</i>	Muridae	A
892	70d	Same species	Muridae	A

SINGAPORE

2019 August 9 (Parks) Set/4, SS/1

1989	70c	Smooth-coated Otter, <i>Lutrogale perspicillata</i>	Mustelidae	B
------	-----	---	------------	---

SRI LANKA

2019 October 5 (Fauna of Wasgamuwa National Park) Set/6, with SS

2199	15r	Purple-faced Langur, <i>Trachypithecus vetulus</i>	Cercopithecidae	A
2199a		SS/1 perf. 13½x13¼		
2200	45r	Asian Elephant, <i>Elephas maximus</i>	Elephantidae	A
2200a		SS/1 perf. 13½x13¼		

SURINAM**2019 December 27** (Flora and Fauna)

1588	\$5	Black-and-White Ruffed Lemur, <i>Varecia variegata</i>	Lemuridae	A
590	\$5	Fat-tailed Dwarf Lemur, <i>Cheirogaleus medius</i>	NEW Cheirogalidae	A

SWITZERLAND**2020 May 7** (Adult and Juvenile Animals) Set/4

1768	100c	Alpine Marmot, <i>Marmota marmota</i>	Sciuridae	A
1769	150c	Eurasian Lynx, <i>Lynx lynx</i>	Felidae	A
1770	200c	Alpine Ibex, <i>Capra ibex</i>	Bovidae	A

TAJIKISTAN**2018 December 20** (Wildlife) Block /4

507a	1s60	Leopard, <i>Panthera pardus</i>	Felidae	A
507c	5s	Southern White-breasted Hedgehog, <i>Erinaceus concolor</i>	Erinaceidae	A

2019 April 1 (WWF) Block/4

513a	2s	Snow Leopard, <i>Panthera uncia</i>	Felidae	A
513b	3s50	Same species	Felidae	A
513c	4s80	Same species	Felidae	A
513d	5s	Same species	Felidae	A

TONGA**2019 August 12** (Activities in Tonga) Set/10

1366	20s	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	A
------	-----	---	-----------------	---

TRISTAN DA CUNHA**2019 August 12** (Whaling and Sealing Ships) Set/4

1169	45p	Subantarctic Fur Seal, <i>Arctocephalus tropicalis</i>	Otariidae	B
1170	70p	Subantarctic Fur Seal, <i>Arctocephalus tropicalis</i>	Otariidae	B
1171	£1.15	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	B
1172	£1.50	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae	B

UKRAINE**2019 July 27** (Flora and Fauna of Mezynskyi National Nature Park) Sheet/5

1221b	8h	Grey Wolf, <i>Canis lupus</i>	Canidae	A
1221c	8h	Western Roe Deer, <i>Capreolus capreolus</i>	Cervidae	A

UZBEKISTAN**2019 June 21** (Tashkent Zoo Animals) Set/4, SS/1

888	3700s	Domestic Horse, <i>Equus caballus</i>	Equidae	A
889	6500s	Tiger, <i>Panthera tigris altaica</i>	Felidae	A
890	7200s	Giraffe, <i>Giraffa camelopardalis giraffa</i>	Giraffidae	A

2019 August 27 (Animals) Set/4

894	3200s	Kulan, <i>Equus hemionus</i>	Equidae	A
896	6500s	Snow Leopard, <i>Panthera uncia</i>	Felidae	A

2019 December 10 (Flora and Fauna of Kyzylkum State Reserve) Sheet/6

906a	3200s	Goitered Gazelle, <i>Gazella subgutturosa</i>	Bovidae	A
906d	5800s	Golden Jackal, <i>Canis aureus</i>	Canidae	A

ZAMBIA**2014 June 26** (Animals) Type of 2014 and Set/15

1186	1k	Honey Badger, <i>Mellivora capensis</i>	Mustelidae	A
1187	1k	Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae	A
1188	1k	Beecroft's Flying Squirrel, <i>Anomalurus beecrofti</i>	Anomaluridae	A
1189	1k	Black Lechwe, <i>Kobus leche smithmani</i>	Bovidae	A
1190	1k50	Chacma Baboon, <i>Papio ursinus</i>	Cercopithecidae	A
1191	1k50	African Buffalo, <i>Syncerus caffer</i>	Bovidae	A

ZAMBIA (continued)

1192	2k50	Serval, <i>Leptailurus serval</i>	Felidae	A
1193	2k50	Small-spotted Genet, <i>Genetta genetta</i>	Viverridae	A
1194	2k50	Lion, <i>Panthera leo</i>	Felidae	A
1195	2k50	Black-and-Red Bush Squirrel, <i>Paraxerus lucifer</i>	NEW Sciuridae	A
1196	2k50	Blue Wildebeest, <i>Connochaetes taurinus</i>	Bovidae	A
1197	3k50	African Hunting Dog, <i>Lycaon pictus</i>	Canidae	A
1198	3k50	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A
1199	3k50	Boehm's Bush Squirrel, <i>Paraxerus boehmi</i>	Sciuridae	A
1200	3k50	Klipspringer, <i>Oreotragus oreotragus</i>	Bovidae	A
1201	4k95	Leopard, <i>Panthera pardus</i>	Felidae	A
1202	4k95	Gambian Sun Squirrel, <i>Heliosciurus gambianus</i>	Sciuridae	A
1203	4k95	Spotted Hyena, <i>Crocuta crocuta</i>	Hyaenidae	A

ZIMBABWE

2019 December 17 (Juvenile Animals) Set/4

1253	NVI (40c)	Giraffe, <i>Giraffa camelopardalis</i>	Giraffidae	A
1254	NVI (\$1)	Lion, <i>Panthera leo</i>	Felidae	A
1255	NVI (\$1.60)	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae	A
1256	NVI (\$2)	White Rhinoceros, <i>Ceratotherium simum</i>	Rhinocerotidae	A

TREASURER'S REPORT

Christopher Dahle, BU1269

Assets As of 31 May 2020:

Checking	<u>\$6,286.61</u>
Total	\$6,286.61

Expenses June 1 2019 to May31 2020:

Credit card fees to ATA	\$ 2.75
PayPal charges	\$ 14.50
Domain name	\$ 13.95
Website Charges	\$ 101.49
Post Office box rental	\$ 212.00
Postage Canada	\$ 107.43
Postage Foreign	\$ 255.96
Postage U.S.	\$ 524.75
Printing	\$1,351.12
Supplies	\$ 134.28
Sales tax	\$ 99.87
ATA Handbook publishing	\$ 200.00
GASS booth sharing	<u>\$ 50.00</u>
Total	\$3,068.10

Income June 1 2019 to May 31 2020:

Dues	\$1,917.45
Donations	<u>\$ 146.00</u>
Total	\$2,063.45

The good news is that we managed to reduce expenses for 2019-2020 by \$534.44. However, income also fell, by \$227.36. The major expense that we have is printing and postage for **Biophilately**. Dick Roman managed to reduce our costs from over \$500 for the first issue in this period, to just over \$200 for the last two issues pre COVID-19. However, the June 2020 issue of **Biophilately** went to a printing firm in Minnesota and costs rose substantially. When Dick was doing the publishing, we reimbursed him for expenses, but did not pay him for his time. Total postage costs also fell from 2019 to 2020.



ORNITHOLOGY

Editor

Glenn G. Mertz, BU 1455

Corrections/Updates



BRAZIL, V67(2), p123

Correction: Issue of 6/19/2017, Araripe Manakin, *Antilophia bokermanni*, Sc#3352c (1.25r) and Sc#3353c (1.25r) were listed in the family of Columbidae, but belong in the family of Pipridae.

Maldive Islands, V67(3) on pages 222 & 223 have been assigned Scott Numbers.

Update: Wild Life of Maldives: Ducks. Remove Mi6763-6766 & List Sc#3824a-d

Remove Mi 6767 for SS & list Sc#3834

Remove Mi6768-6771 (Doves) & list Sc#3819a-d

Remove Mi# and list SS (Doves) as Sc#3829

Remove N/A for Owls & Mushrooms and list Sc#3825a-d

Remove NA SS for Owls & Mushrooms and list Sc#3835

Remove Mi7033-7036 for Birds of Prey & list Sc#3884a-d

Remove Mi7037 & list Sc3894

Remove Mi7028-Mi7031 for Hornbills & list Sc#3879a-d

Remove Mi7032 & list SS as Sc#3889

Remove Mi7043-Mi7046 for Owls & list Sc\$3878a-d

Remove Mi7047 & list Sc#3888 for SS

Remove Mi7048-7051 & list for (Seabirds), Sc#3881a-d

Remove Mi7052, for SS & list Sc#3891

Remove Mi7038-7041, for (Parrots) & list Sc#3883a-d

Remove Mi7042 for SS, & list Sc#3893

Remove Mi7023-7026 for (Indigo Birds) & list Sc#3880a-d

Remove Mi7027 for SS & list as Sc#3890

Remove Mi7018-Mi7021 for (Kingfishers) & list Sc#3885a-d

Remove Mi7022 for SS & list Sc#3895

New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ARMENIA				
2019 November 12 (Fauna) Seet/2				
1200	230d	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	A*

AUSTRALIA

A sheet of seven se-tenant stamps, four in the top row, and three in the 2nd row, entitled "Finches of Australia". No date is listed for this sheet. I'm listing the stamps and will follow-up with an editorial comment.

Top Row

N/A	\$1.00	Beautiful Firetail, <i>Stagonopleura bella</i>	Estrildidae
N/A	\$2.00	Black-throated Finch, <i>Poephila cincta</i>	Estrildidae
N/A	\$1.00	Gouldian Finch, <i>Erythrura gouldiae</i>	Estrildidae

AUSTRALIA (continued)

N/A	\$1.00	Zebra Finch, <i>Taeniopygia guttata</i>	Estrildidae
		2nd Row	
N/A	\$1.00	Star Finch, <i>Neochmia ruficauda</i>	Estrildidae
N/A	\$1.00	Double-barred Finch, <i>Taeniopygia bichenovii</i>	Estrildidae
N/A	\$1.00	Blue-faced Parrot-Finch, <i>Erythrura trichroa</i>	Estrildidae

This sheet has no Scott number as can be seen by my listing N/A. When I checked with the New Issues Editor, Martin Frankevicz, at Scott Publishing as to why no numbers.

His reply is as follows: "The finch stamps were issued in February and June of 2018. They saw nothing in any of the Australia Product guides of any sheet of seven stamps being issued in November of 2018, nor did he see anything online about such an item. He asked if I had received them Australia Post, if so, do you have a product and price paid for this item. He asked is this sheet was issued with a Philatelic Show Emblem on the sheet or in the margin".

When I replied back that I got my sheet from my New Issues dealer, who receives all his Stamps from Bombay Philatelic Stamps, and that I had none of what he was asking.

His subsequent reply was as follows; "If the sheet is from a yearbook, it's not something Scott Publishing would list. Australia Post and many other postal authorities put out all sorts of "Proucts" some of which are sold for well above face value, some being high-priced and in extremely limited quantities and anything to make a buck. Scott has a Catalogue listing policy and they don't list items that stray beyond the boundaries set by the policy".

So collectors out there, keep in mind, that many postal authorities do just as Australia Post, as well as does our own USPS, so be alert to what you are willing to pay to have some of the items for your "collecting interests". I myself prefer items that Scott Publishing will assign a Scott number to based on their existing policy guidelines and internal regulations.

This last paragraph is my own comments, but collectors are free to buy what they feel makes a "complete collection."

CYPRUS (TURKISH) 2019 June 20 (Europa) Set/2 A*

830a	5.251	Bonelli's Eagle, <i>Aquila fasciata</i>	Accipitridae
830b	5.251	Barn Owl, <i>Tyto alba</i>	Tytonidae

ESTONIA 2019 Oct.tober 17 Single A*

907	€0.65	Eurasian Nightjar, <i>Caprimulgus europaeus</i>	Caprimulgidae
-----	-------	---	---------------

GREAT BRITAIN Alderney 2020 January 21 Set/16 A*

645	1p	Dunnock, <i>Prunella modularis</i>	Prunellidae
646	2p	European Robin, <i>Erithacus rubecula</i>	Muscicapidae
647	3p	Black Redstart, <i>Phoenicurus ochruros</i>	Muscicapidae
648	4p	Whinchat, <i>Saxicola rubetra</i>	Muscicapidae
649	5p	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae
650	6p	Western Yellow Wagtail, <i>Motacilla flava</i>	Motacillidae
651	7p	European Goldfinch, <i>Carduelis carduelis</i>	Fringillidae
652	8p	Meadow Pipit, <i>Anthus pratensis</i>	Motacillidae
653	9p	Eurasian Blue Tit, <i>Cyanistes caeruleus</i>	Paridae
654	10p	Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae
655	20p	Ruddy Turnstone, <i>Arenaria interpres</i>	Scolopacidae
656	40p	Common Ringed Plover, <i>Charadrius hiaticula</i>	Charadriidae
657	50p	European Shag, <i>Phalacrocorax aristotelis</i>	Phalacrocoracidae
658	£1	European Kestrel, <i>Falco tinnunculus</i>	Falconidae
659	£2	Barn Owl, <i>Tyto alba</i>	Tytonidae
600	£4	Long-eared Owl, <i>Asio otus</i>	Strigidae

GREAT BRITAIN Isle of Man 2019 October 28 (Christmas) Set/10 A*

2067e (57p)		European Robin, <i>Erithacus rubecula</i>	Muscicapidae
-------------	--	---	--------------

FRENCH SOUTHERN & ANTARCTIC TERR.		2020 January 2	Single	A*
624	€1.55	Dimorphic Egret, <i>Egretta garzetta dimorpha</i> (ssp of Little Egret)	Ardeidae	
		2020 January 2	SS/1	A*
628	€1	Amsterdam Albatross, <i>Diomedea exulans amsterdamensis</i> (ssp of Wandering Albatross)	Diomedeidae	
		2020 January 2	SS/1	B*
629	€6.45	Emperor Penguin, <i>Aptenodytes forsteri</i>	Spheniscidae	
GREENLAND		2019 October 21	Single	A*
825	25k	Birds species not known.		
GRENADA		2019 September 8	(Roseate Spoonbill) Set/4, SS/2	A*
4344a	\$4.00	Roseate Spoonbill, <i>Platalea ajaja</i> (Bird is facing right)	Threskiornithidae	
4344b	\$5.00	Same species, bird facing left		
4344c	\$6.00	Same species, in flight to the right		
4344d	\$7.00	Same species, wading, facing left		
4345a	\$4.00	SS Same species, facing right		
4545b	\$4.00	SS Same species, facing left (These two on the SS are facing each other)		
GRENADA-GRENADINES		2019 May 24	(Colorful Birds) Set/4, SS/1	A*
3025a	\$3.00	Ringed Kingfisher, <i>Megaceryle torquatus</i>	Alcedinidae	
3025b	\$3.00	Pearly-eyed Thrasher, <i>Margarops fuscatus</i>	Mimidae	
3025c	\$4.00	Bananaquit, <i>Coereba flaveola</i>	Thraupidae	
3025d	\$4.00	Shiny Cowbird, <i>Molothrus bonariensis</i>	Icteridae	
3025e	\$5.00	Tropical Mockingbird, <i>Mimus gilvus</i>	Mimidae	
3025f	\$5.00	Lesser Antillean Bullfinch, <i>Loxigilla noctis</i>	Emberizidae	
3026	\$14.00	SS Purple Gallinule, <i>Porphyrio martinicus</i>	Rallidae	
INDONESIA		2018 November 5	(Flora and Fauna) Set/6	A*
2490a	3,000r	Knobbed Hornbill, <i>Rhyticeros cassidix</i>	Bucerotidae	
2491	10,000r	SS Same species		
IRELAND		2019 April 11	(Europa) Set/2	A*
2226	(€1.00)	Roseate Tern, <i>Sterna dougallii</i>	Laridae	
2227	(€1.70)	European Golden-Plover, <i>Pluvialis apricaria</i>	Charadriidae	
JAPAN		2019 February 20	Set/10	B*
4275b	62¥	Red-flanked Bluetail, <i>Tarsiger cyanurus</i>	Muscicapidae	
		2019 February 22	Set/2	A*
4277	82¥	Red-crowned Crane, <i>Grus japonensis</i>	Gruidae	
		2019 April 12	(Flora & Fauna of Kurobe Gorge) Sheet/10	A*
4283a	82¥	Red-flanked Bluetail, <i>Tarsiger cyanurus</i>	Muscicapidae	
4283d	82¥	Blue-and-white Flycatcher, <i>Cyanoptila cyanomelana</i>	Muscicapidae	
4283j	82¥	Alpine Accentor, <i>Prunella collaris</i>	Prunellidae	
		2019 November 6	(Japanese Traditional Color Series #3) Sheet/10	A*
4357j	63¥	Red-crowned Crane, <i>Grus japonensis</i>	Gruidae	

KAZAKHSTAN		2019 December 12 (Europa) Set/3	A*
903a	500te	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae
903b	500te	Same species, head but lower body section in 903c	
903c	500te	Same species, chick	
KOREA (SOUTH)		2019 November 27 (Falconry, UNESCO Intangible Cultural Heritage) Set/2	A*
2563b	380w	Northern Goshawk, <i>Accipiter gentilis</i>	Accipitridae
2563b	380w	Same species	
		Ringled Pheasant, <i>Phasianus colchicus</i>	Phasianidae
KOSOVO		2019 May 9 (Europa) Set/2	A*
410	1,00€	Common Buzzard, <i>Buteo buteo</i>	Accipitridae
411	2,00€	European Turtle-Dove, <i>Streptopelia turtur</i>	Columbidae
412	2,00€	SS Western Yellow Wagtail, <i>Motacilla flava</i>	Motacillidae
		(Cap. as Great Tit, <i>Parus major</i>)	
		Red-backed Shrike, <i>Lanius collurio</i>	Laniidae
		Rufous-tailed Rock-Thrush, <i>Monticola saxatilis</i>	Turdidae
KYRGYZSTAN		2019, May 19 (Bird of the Year with "Birdlife International" logo) Single	A*
114	150s	Little Bustard, <i>Tetrax tetrax</i>	Otididae
LEBANON		2019 May 13 (International Migratory Bird Day) Set/3	A*
807	2250£	European Goldfinch, <i>Carduelis carduelis</i>	Fringillidae
808	2250£	Great Tit, <i>Parus major</i>	Paridae
		(Stamp has <i>Cyanistes caeruleus</i>)	
809	2250£	White Stork, <i>Ciconia ciconia</i>	Ciconiidae
LIBERIA		2018 December 31 (National Bird of Liberia) Set/4	A*
3308a	\$100	Common Bulbul, <i>Pycnonotus barbatus</i> (on perch)	Pycnonotidae
3308b	\$200	Same species, head of bird.	
3308c	\$300	Same species, bird on branch	
3308d	\$400	Same species, two birds.	
		2019 March 11 (Marabou Stork) Set/4	A*
3311a	\$250	Marabou Stork, <i>Leptoptilos crumenifer</i> (facing left)	Ciconiidae
3380b	\$300	Same species, landing or taking off.	
3311c	\$350	Same species, facing front	
3311d	\$400	Same species, in flight	
		2019 March 11 (African Openbill Stork) SS/3	A*
3312a	\$200	African Openbill, <i>Anastomus lamelligerus</i>	Ciconiidae
		(Facing right)	
3312b	\$300	Same species, facing right, wings upheld	
3312c	\$400	Same species, facing right, wading	
		2019 March 11 (White-necked Rockfowl) SS/2	A*
3313a	\$400	White-necked Rockfowl, <i>Picathartes gymnocephalus</i>	Picathartidae
3313b	\$500	Same species, but a drawing with upper head & body within the stamp frame	

LIBERIA (continued)

		2019 March 13	(Cuckooshrike of Liberia) Set/4	A*
3314a	\$300	Blue Cuckooshrike, <i>Cyanograucalus azureus</i>	Campephagidae	
		(Stamp has genus of <i>Coracina azurea</i>)		
3314b	\$300	Ghana Cuckooshrike, <i>Lobotos lobatus</i>	V68(2) Campephagidae	
		(Stamp has scientific name of <i>Campephaga lobata</i>)		
3314c	\$300	Red-shouldered Cuckooshrike, <i>Campephaga phoenicea</i> (♀)	V68(2) Campephagidae	
3314d	\$300	Same species (♂)	Campephagidae	
		2019 April 18 (Piapiac) Set/3, SS/1		A*
3322a	\$250	Piapiac, <i>Ptilostomus afer</i> (facing right)	Corvidae	
3322b	\$300	Same species, two birds on branch		
3322c	\$350	Same species, facing right		
3323	\$800	SS Same species, on back of animal		
		2019 April 19 (African Buffalo) Set/4		A*
3324b	\$250	Cattle Egret, <i>Bubulcus ibis</i>	Ardeidae	
3325	\$800	SS Piapiac, <i>Ptilostomus afer</i> (on back of buffalo)	Corvidae	
		2019 June 8 (Guinea Turaco) Set/3, SS/1		A*
3332a	\$200	Guinea Turaco, <i>Tauraco persa</i>	Musophagidae	
3332b	\$300	Same species, two birds on branch		
3332c	\$400	Same species, facing left		
3333	\$800	SS Same species		
		MARSHALL ISLANDS		
		2018 December 21 (Owls of the World) Set/6		A*
1219a	\$0.50	Striped Owl, <i>Asio clamator</i>	Strigidae	
1219b	\$0.75	Barred Owl, <i>Strix varia</i>	Strigidae	
1219c	\$1.00	Short-eared Owl, <i>Asio flammeus</i>	Strigidae	
1219d	\$1.25	Rufous-legged Owl, <i>Strix rufipes</i>	Strigidae	
1219e	\$1.50	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae	
1219f	\$1.75	Long-eared Owl, <i>Asio otus</i>	Strigidae	
		2019 March 10 (Birds of Marshall Islands) set/6. SS/1		A*
1225a	\$1.50	White Tern, <i>Gygis alba</i>	Laridae	
1225b	\$1.50	Sacred Kingfisher, <i>Todiramphus sanctus</i>	Alcedinidae	
1225c	\$1.50	Black Noddy, <i>Anous minutus</i>	Laridae	
1225d	\$1.50	Pectoral Sandpiper, <i>Calidris melanotos</i>	Scolopacidae	
1225e	\$1.50	Brown Noddy, <i>Anous stolidus</i>	Laridae	
1225f	\$1.50	Great Crested Tern, <i>Thalasseus bergii</i>	Laridae	
1226	\$5.00	SS Crimson-crowned Fruit-Dove, <i>Ptilinopus porphyraceus</i>	Columbidae	
		MONTENEGRO		
		2019 May 9 (Europa) SS/1		A*
442a	€0.95	Eurasian Capercaillie, <i>Tetrao urogallus</i>	Phasianidae	
		Note: In V69(1), I listed the date for the single stamp as 5/19/2019 instead of 5/9/2019.		
		MONTSERRAT		
		2019 August 15 (The Caribbean Flamingo) Set/4, SS/1		A*
1824a	\$4.00	American Flamingo, <i>Phoenicopterus ruber</i> (Head)	Phoenicopteridae	
1824b	\$5.00	Same species, feeding		
1824c	\$6.00	Same species, two in flight		

MONTSERRAT (continued)

1824d \$7.00 Same species, two in water

1825 \$12.00 SS Same species and in margins

NAMIBIA**2017 September 17** Set/5

B*

1363 (\$6.60) Lappet-faced Vulture, *Torgos tracheliotos* Accipitridae**2018 May 18** (Francolins) Set/5

A*

1370 (\$4.30) Red-billed Francolin, *Pternistis adspersus* Phasianidae1371 (\$7.10) Crested Francolin, *Dendroperdix sephaena* Phasianidae1372 (\$7.90) Swainson's Francolin, *Pternistis swainsonii* Phasianidae1373 (\$8.10) Coqui Francolin, *Peliperdix coqui* Phasianidae1374 (\$34.40) Orange-River Francolin, *Scleroptila gutturalis* Phasianidae**NETHERLANDS****2019 April 23** (Europa) set/2

A*

1590a (€1.45) European Goldfinch, *Carduelis carduelis* Fringillidae1590b (€1.45) Bohemian Waxwing, *Bombycilla garrulus* Bombycillidae**2019 May 20** Minisheet/6

A*

1591a (87c) Eurasian Blue Tit, *Cyanistes caeruleus* Paridae1591b (87c) Eurasian Wren, *Troglodytes troglodytes* Troglodytidae1591c (87c) European Robin, *Erithacus rubecula* Muscicapidae1591d (87c) House Sparrow, *Passer domesticus* Passeridae1591e (87c) Goldcrest, *Regulus regulus* Regulidae1591f (87c) Great Tit, *Parus major* Paridae**NEW CALEDONIA****2019 August 9**

A*

Three stamp of the Kagu type issue of 2016 were issued, all date “2019”; also a SA was also issued and a booklet of ten, also dated “2019”. No values were listed in the Scott listing so I emailed the New Issues Editor for price values. This was his reply: “When we list minors that are not following majors in the update, as in the case of New Caledonia 1219b, etc. the June update, we don’t include the face value for the minor in the listing. When these listing lines are merged into the catalog, 1219f will appear under the 1219a. For stamps with actual face values shown on them, the face value of the minors will be the same as the major stamp. If the stated denomination were different, the new stamp would be a new major listing. In the case of non-denominated stamps, the selling price of a minor variety can be a different than the original stamp if the of a stamp covered by the non-denominated rate has changed after the original stamp was issued. We will generally note such changes in selling prices in a footnote when we are aware of them. We cannot keep track of every time a non-denominated stamp changes its selling price. Some countries change rates frequently, particularly when there is a fair amount of inflation of the country’s currency.”

Hopefully this explanation will answer why no price values were listed in the Scott listings shown in the new issues that appeared in the Linn’s Stamp News for these New Caledonia listings.

NEW ZEALAND**2020 March 4** (Parakeets) Set/5

A*

2908 \$1.30 Yellow-crowned Parakeet, *Cyanoramphus auriceps* Psittaculidae2909 \$1.30 Malherbe’s Parakeet, *Cyanoramphus malherbi* Psittaculidae2910 \$2.60 Red-crowned Parakeet, *Cyanoramphus novaezelandiae* Psittaculidae2911 \$3.30 Chatham Parakeet, *Cyanoramphus forbesi* Psittaculidae

(Cap. as Forbes’ Parakeet)

NEW ZEALAND (continued)

2912	\$4.00	Antipodes Parakeet, <i>Cyanoramphus unicolor</i>	Psittaculidae
		(Cap. as Antipodes Island Parakeet)	
2912a		SS of 5, #2908-2912 in a se-tenant format of the 5	
NIUAFO'OU		2018 December 18 Set/12 with white frames, set/12 without frames	A*
381	\$0.05	Black-and-white Owl, <i>Ciccaba nigrolineata</i>	Strigidae
		[Stamp also has listed Band-bellied Owl, (<i>Pulsatrix melanota</i> -Hybrid) but I see only one owl on the stamp and the first name listed on the stamp has genus of Strix.]	
382	\$0.10	Powerful Owl, <i>Ninox strenua</i>	Strigidae
383	1.40pa	Martial Eagle, <i>Polemaetus bellicosus</i>	Accipitridae
384	2.30pa	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae
385	2.50pa	Crested Goshawk, <i>Accipiter trivirgatus</i>	Accipitridae
386	2.80pa	Jungle Owlet, <i>Glaucidium radiatum</i>	Strigidae
386a		SS of 6, #381-386	
387	4.30pa	Short-toed Snake-Eagle, <i>Circaetus gallicus</i>	Accipitridae
388	5.20pa	Minahassa Masked-Owl, <i>Tyto inexpectata</i> V68(2)	Tytonidae
389	6.90pa	Gray-headed Fish-Eagle, <i>Ichthyophaga ichthyaetus</i>	Accipitridae
390	9.30pa	White-eyed Buzzard, <i>Butastur teesa</i>	Accipitridae
391	9.50pa	Eurasian Marsh-Harrier, <i>Circus aeruginosus</i>	Accipitridae
392	11.50pa	African Hawk-Eagle, <i>Aquila spilogaster</i>	Accipitridae
		(Cap. as species name of <i>Hieraetus/aquila spilogaster</i>)	
392a		SS of 6 #387-392	
393a-l		Same bird species for stamps with no white frames	
		2019 November 18 Set/4 with white frames, set/4 without frames	A*
398	2.25pa	Sharp-shinned Hawk, <i>Accipiter striatus</i>	Accipitridae
399	2.70pa	Philippine Eagle, <i>Pithecophaga jefferyi</i>	Accipitridae
400	4.20pa	Palm-nut Vulture, <i>Gypohierax angolensis</i>	Accipitridae
401	9.20pa	Crested Serpent-Eagle, <i>Spilornis cheela</i>	Accipitridae
402a-d		Same bird species and values as listed above, but with no white frames.	
402e		SS 402a-d, but have two stamps with white frames on two sides.	
		2019 November 25 Set/4 with white frames, set/4 without frames	A*
403	14.40pa	Victoria's Riflebird, <i>Ptiloris victoriae</i>	Paradisaeidae
404	20.60pa	Ribbon-tailed Astrapia, <i>Astrapia mayeri</i>	Paradisaeidae
405	25pa	Raggiana Bird-of-Paradise, <i>Paradisaea raggiana</i>	Paradisaeidae
406	30pa	Wilson's Bird-of-Paradise, <i>Cicinnurus respublica</i>	Paradisaeidae
407a-d		Same birds and values as above, but no white frames	
407e		SS #407a-407d, but two stamps have white frames on two sides.	
PALAU		2018 December 27 (Pacific Waterfowl) Minisheets/6	A*
1412a	\$0.50	Eurasian Teal, <i>Anas crecca</i> (♂)	Anatidae
1412b	\$0.75	Same species (♀)	Anatidae
1412c	\$1.00	Eurasian Wigeon, <i>Mareca penelope</i> (♂)	Anatidae
1412d	\$1.25	Same species (♀)	Anatidae

PALAU (continued)

1412e	\$1.50	Mallard, <i>Anas platyrhynchos</i> (♂)	Anatidae
1412f	\$1.75	Same species (♀)	Anatidae
1413a	\$0.50	Northern Pintail, <i>Anas acuta</i> (♂)	Anatidae
1413b	\$0.75	Same species (♀)	Anatidae
1413c	\$1.00	Northern Shoveler, <i>Spatula clypeata</i> (♂)	Anatidae
1413d	\$1.25	Same species (♀)	Anatidae
1413e	\$1.50	Tufted Duck, <i>Aythya fuligula</i> (♂)	Anatidae
1413f	\$1.75	Same species (♀)	Anatidae

PENRHYN ISLAND **2018 May 4** (Birdpex 2018 Philatelic Exhibition) Blk/4 A*

583a	\$1.50	Marbled Godwit, <i>Limosa fedoa</i>	Scolopacidae
583b	\$1.50	Temminck's Stint, <i>Calidris temminckii</i>	Scolopacidae
583c	\$1.50	Wilson's Phalarope, <i>Phalaropus tricolor</i>	Scolopacidae
583d	\$1.50	Common Sandpiper, <i>Actitis hypoleucos</i>	Scolopacidae

2018 December 20 Set/12 with white frames, set/12 without frames A*

588	\$0.20	Secretary-bird, <i>Sagittarius serpentarius</i>	Sagittariidae
589	\$0.30	White-tailed Eagle, <i>Haliaeetus albicilla</i>	Accipitridae
590	\$0.40	European Honey-Buzzard, <i>Pernis apivoris</i>	Accipitridae
591	\$0.50	Black-shouldered Kite, <i>Elanus axillaris</i>	Accipitridae
592	\$1.00	Swallow-tailed Kite, <i>Elanoides forficatus</i>	Accipitridae
593	\$2.00	Osprey, <i>Pandion haliaetus</i>	Pandionidae
593a		SS of six, #588-593	
594	\$2.40	Snail Kite, <i>Rostrhamus sociabilis</i>	Accipitridae
595	\$2.60	Pallas's Fish-Eagle, <i>Haliaeetus leucoryphus</i> (Cap. as Sea-Eagle)	Accipitridae
596	\$4.50	Steller's Sea-Eagle, <i>Haliaeetus pelagicus</i>	Accipitridae
597	\$5.00	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae
598	\$7.50	Yellow-billed Kite, <i>Milvus aegyptius</i>	Accipitridae
599	\$10.00	Bearded Vulture, <i>Gypaetus barbatus</i>	Accipitridae
599a		SS of 6, #594-599	

600a-600l are the same species as listed above, but have no white frames; but 598a and 599a have white frames on two sides, which are the top and bottom stamps on the right side of the block of the souvenir sheets.

2019 October 11 Set/4 with white frames, set/4 without frames A*

603	\$5.50	Military Macaw, <i>Ara militaris</i>	Psittacidae
604	\$6.70	Blue-throated Macaw, <i>Ara glaucogularis</i>	Psittacidae
605	\$22.40	Scarlet Macaw, <i>Ara macao</i>	Psittacidae
606	\$29.90	Chestnut-fronted Macaw, <i>Ara severus</i>	Psittacidae

607a-d Same species as listed above, have no white frames.

607e SS of 4, #607a-607d. This SS has white frames on two sides, which are the top and bottom stamps on the right side of the SS.

2019 November 15 Set/4 with white frames, Set/4 without frames A*

608	\$2.50	Mississippi Kite, <i>Ictinia mississippiensis</i>	Accipitridae
-----	--------	---	--------------

PENRHYN ISLAND (continued)

609	\$3.00	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae
610	\$4.00	Black Kite, <i>Milvus migrans</i>	Accipitridae
611	\$6.00	African Goshawk, <i>Accipiter tachiro</i>	Accipitridae
612a-d		Same species and values as shown above, have no white frames.	
612e		SS of 4, #612a-d, have white frames on two sides only, which are the top and bottom stamps on the right side of the SS.	

PHILIPPINES**2019 November 20** Set/4 + labels

A*

3834a	25p	Blue-tailed Bee-eater, <i>Merops philippinus</i>	Meropidae
3834b	25p	Visayan Broadbill, <i>Eurylaimus samarensis</i> V69(1)	Eurylaimidae
3834c	25p	Warbling White-eye, <i>Zosterops japonicus</i>	Zosteropidae
3834d	25p	Fire-breasted Flowerpecker, <i>Dicaeum ignipectus</i>	Dicaeidae

PITCAIRN ISLAND**2019 June 14** (Warblers) Set/3

A*

859a	\$1.80	Pitcairn Reed Warbler, <i>Acrocephalus vaughani</i>	Acrocephalidae
859b	\$2.10	Same species	
859c	\$3.40	Same species	

PORTUGAL**2019 March 20** (Calouste Sarkis Gulbenkian, philanthropist) Set/2 B*

4109	53c	Indian Peafowl, <i>Pavo cristatus</i>	Phasianidae
------	-----	---------------------------------------	-------------

2019 May 9 (Europa) Set/2

A*

4124	86c	Bluethroat, <i>Luscinia svecica</i>	Muscicapidae
4125a	86c	European Robin, <i>Erithacus rubecula</i>	Muscicapidae
4125		SS of 2, #4124, 4125a. Both values 86c	

QATAR**2016 December 17** (National Day) Set/2

A*

1127b	500r	Falcon species, not identified.	
-------	------	---------------------------------	--

ROMANIA**2019 August 14** (Exotic Birds) Set/6 + label

A*

6305	1.40l	Greater Bird of Paradise, <i>Paradisaea apoda</i>	Paradisaeidae
6306	1.60l	Resplendent Quetzal, <i>Pharomachrus mocinno</i>	Trogonidae
6307	1.70l	Red-breasted Toucan, <i>Ramphastos dicolorus</i>	Ramphastidae
6308	3.10l	Northern Royal Flycatcher, <i>Onychorhynchus mexicanus</i> (Now a ssp of Royal Flycatcher)	Tyrannidae
6309	5l	American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae
6310	19l	Magnificent Riflebird, <i>Ptiloris magnificus</i>	Paradisaeidae

SINGAPORE**2019 May 8** (Diplomatic Relations with Israel, 50y) Set/2

A*

1967	\$1.30	Crimson Sunbird, <i>Aethopyga siparaja</i> (LS)	Nectarinidae
		Eurasian Hoopoe, <i>Upupa epops</i> (RS)	Upupidae
1968	\$1.30	Same species, but birds are reversed on the stamps	
1968a		SS of 2, #1967-1968	

2019 October 30 (Diplomatic Relations with Poland 50y) Set/2

A*

1997	\$1.30	Oriental Pied-Hornbill, <i>Anthracoceros albirostris</i>	Bucerotidae
1998	\$1.30	Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae
1998a		SS of 2, #1997-1998	

SLOVAKIA		2019 May 3 (Europa) Single, perf and SA	A*
815	€1.70	European Roller, <i>Coracias garrulus</i>	Coraciidae
816	€1.70	Same species, SA format	Coraciidae
816a		Booklet pane of 6	
SPAIN		2019 April 23 (Europa) Single	A*
4356	€1.0	Bearded Vulture, <i>Gypaetus barbatus</i>	Accipitridae
SRI LANKA		2019 October 5 (Fauna of Wasgamuwa National Park) Set/5, SS/1	A*
2201	45r	Red-faced Malkoha, <i>Phaenicophaeus pyrrhocephalus</i>	Cuculidae
SURINAM		2019 October 9 (Cockatoos) Block/12	A*
1574a	\$2.00	Yellow-crested Cockatoo, <i>Cacatua sulphurea citrinocristata</i>	Cacatuidae
1574b	\$4.00	Same species as above but not listed as a ssp	Cacatuidae
1574c	\$6.00	Long-billed Corella, <i>Cacatua tenuirostris</i>	Cacatuidae
1574d	\$7.00	Gang-Gang Cockatoo, <i>Callocephalon fimbriatum</i>	Cacatuidae
1574e	\$9.00	Red-tailed Black-Cockatoo, <i>Calyptorhynchus banksii</i>	Cacatuidae
1574f	\$10.00	Baudin's Black-Cockatoo, <i>Calyptorhynchus baudinii</i>	Cacatuidae
		(Previously shown in the margin of a Guinea sheet of 12/7/07)	
1574g	\$11.00	Yellow-tailed Black-Cockatoo, <i>Calyptorhynchus funereus</i> V69(1)	Cacatuidae
1574h	\$12.00	Glossy Black-Cockatoo, <i>Calyptorhynchus lathami</i>	Cacatuidae
1574i	\$14.00	Carnaby's Black-Cockatoo, <i>Calyptorhynchus latirostris</i>	Cacatuidae
1574j	\$18.00	Galah, <i>Eolophus roseicapilla</i>	Cacatuidae
1574k	\$20.00	Cockatiel, <i>Nymphicus hollandicus</i>	Cacatuidae
1574l	\$22.00	Palm Cockatoo, <i>Probosciger aterrimus</i>	Cacatuidae
		2019 July 27 Set of 6 SSs	A*
1578	\$5.00	Burnished-buff Tanager, <i>Stilpua cataba</i> (Cap. <i>Tangara</i> as genus)	Thraupidae
1579	\$5.00	Rose-breasted Chat, <i>Granatellus pelzelni</i>	Cardinalidae
1582	\$5.00	Caica Parrot, <i>Pyrilia caica</i> (Cap. as genus of <i>Pionopsitta</i>)	Psittacidae
1583	\$5.00	Yellow-hooded Blackbird, <i>Chrysomus icterocephalus</i> V69(1) (Genus listed as <i>Agelaius</i>)	Icteridae
1584	\$5.00	Spotted Tanager, <i>Ixothraupis punctata</i> (Genus listed as <i>Tangara</i>)	Thraupidae
1586	\$5.00	Green-rumped Parrotlet, <i>Forpus passerinus</i>	Psittacidae
1589	\$5.00	Orange-winged Parrot, <i>Amazona amazonica</i>	Psittacidae
SWEDEN		2019 November 7 Coil single	B*
2848	(9k)	European Goldfinch, <i>Carduelis carduelis</i> (LS) Yellowhammer, <i>Emberiza citrinella</i>	Fringillidae Emberizidae
TAJIKISTAN		2018 December 20 (Nature Reserve) Set/4	A*
507b	3s	Chukar, <i>Alectoris chukar</i>	Phasianidae
507c	5s	White-browed Tit-Warbler, <i>Leptopoecile sophiae</i> White-capped Redstart, <i>Phoenicurus leucocephalus</i> V68(1)	Aegithalidae Muscicapidae
507d	5.40s	Common Buzzard, <i>Buteo buteo</i> Blue Whistling Thrush, <i>Myophonus caeruleus</i>	Accipitridae Muscicapidae

TAJIKISTAN (continued)

2019 July 26 (Owls) Set/4

A*

517	3.50s	Tawny Owl, <i>Strix aluco</i>	Strigidae
518	4.50a	Boreal Owl, <i>Aegolius funereus</i>	Strigidae
519	5.80s	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae
520	6.00s	Barn Owl, <i>Tyto alba</i>	Tytonidae

TOGO

2020 February 28 (Hornbills) Set/4, SS/1

A*

N/A	800f	Northern Red-billed Hornbill, <i>Tockus erythrorhynchus</i>	Bucerotidae
N/A	800f	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae
N/A	800f	Abyssinian Ground-Hornbill, <i>Bucorvus abyssinicus</i>	Bucorvidae
N/A	800f	Von der Decken's Hornbill, <i>Tockus deckeni</i>	Bucerotidae
N/A	3300f	SS Silvery-cheeked Hornbill, <i>Bycanistes brevis</i>	Bucerotidae
Margin		White-crested Hornbill, <i>Horizocerus albocristatus</i>	Bucerotidae
		Southern Yellow-billed Hornbill, <i>Tockus leucomelas</i>	Bucerotidae

2020 February 28 (Pigeons) Set/4, SS/1

A*

N/A	800f	Speckled Pigeon, <i>Columba guinea</i>	Columbidae
N/A	800f	Metallic Pigeon, <i>Columba vitiensis griseogularis</i>	Columbidae
N/A	800f	Oriental Turtle-Dove, <i>Streptopelia orientalis</i>	Columbidae
N/A	800f	Pink Pigeon, <i>Nesoenas mayeri</i>	Columbidae
N/A	3300f	SS Black-billed Wood-Dove, <i>Turtur abyssinicus</i>	Columbidae
Margin		Scaled Pigeon, <i>Patagioenas speciosa</i>	Columbidae

2020 February 28 (Cuckoos) Set/4, SS/1

A*

N/A	800f	Pallid Cuckoo, <i>Cacomantis pallidus</i>	Cuculidae
N/A	800f	Common Cuckoo, <i>Cuculus canorus</i>	Cuculidae
N/A	800f	Same species	
N/A	800f	Same species	
N/A	3300f	SS Common Cuckoo, <i>Cuculus canorus</i>	Cuculidae
Also in margin			

2020 February 28 (Nightjars) Set/4, SS/1

A*

N/A	800f	Eurasian Nightjar, <i>Caprimulgus europaeus</i>	Caprimulgidae
N/A	800f	Gray Nightjar, <i>Caprimulgus jotaka</i>	Caprimulgidae
N/A	800f	Australian Owlet-Nightjar, <i>Aegotheles cristatus</i>	Aegothelidae
N/A	800f	Eurasian Nightjar, <i>Caprimulgus europaeus</i>	Caprimulgidae
N/A	3300f	SS Large-tailed Nightjar, <i>Caprimulgus macrurus</i>	Caprimulgidae
Margin		Gray Nightjar, <i>Caprimulgus jotaka</i>	Caprimulgidae

2020 February 28 (Bee-eaters) Set/4, SS/1

A*

N/A	800f	Red-throated Bee-eater, <i>Merops bulocki</i>	Meropidae
N/A	800f	Blue-bearded Bee-eater <i>Nyctornis athertoni</i>	Meropidae
N/A	800f	European Bee-eater, <i>Merops apiaster</i>	Meropidae
N/A	800f	Southern Carmine Bee-eater, <i>Merops nubicooides</i>	Meropidae
N/A	3300f	SS European Bee-eater, <i>Merops apiaster</i>	Meropidae
Margin		European Bee-eater, <i>Merops apiaster</i>	Meropidae
		Southern Carmine Bee-eater, <i>Merops nubicooides</i>	Meropidae

TOGO (continued)

		2020 February 28 (Sunbirds) Set/4, SS/1		A*
N/A	800f	Southern Double-collared Sunbird, <i>Cinnyris chalybeus</i>	Nectariniidae	
N/A	800f	Olive-backed Sunbird, <i>Cinnyris jugularis</i>	Nectariniidae	
N/A	800f	Same species Malachite Sunbird, <i>Nectarinia famosa</i> (LR)	Nectariniidae	
N/A	800f	Crimson Sunbird, <i>Aethopyga siparaja</i>	Nectariniidae	
N/A	3300f SS	Scarlet-chested Sunbird, <i>Chalcomitra senegalensis</i>	Nectariniidae	
Margin		Malachite Sunbird, <i>Nectarinia famosa</i>	Nectariniidae	

		2020 February 28 (Warblers) Set/4, SS/1		A*
N/A	800f	Magnolia Warbler, <i>Setophaga magnolia</i>	Parulidae	
N/A	800f	Cerulean Warbler, <i>Setophaga cerulea</i>	Parulidae	
N/A	800f	Black-throated Blue-Warbler, <i>Setophaga caerulescens</i>	Parulidae	
N/A	800f	American Redstart, <i>Setophaga ruticilla</i>	Parulidae	
N/A	3300f SS	Blackburnian Warbler, <i>Setophaga fusca</i>	Parulidae	
Margin		Yellow Warbler, <i>Setophaga petechia</i> (LS)	Parulidae	
		Cerulean Warbler, <i>Setophaga cerulea</i> (UR)	Parulidae	

TONGA		2019 November 18 (Birds of Prey) Set/4 with white frames, Set/4 without frames		A*
1376	2.25pa	Harpy Eagle, <i>Harpia harpyja</i>	Accipitridae	
1377	2.70pa	Rough-legged Hawk, <i>Buteo lagopus</i>	Accipitridae	
1378	4.20pa	African Fish-Eagle, <i>Haliaeetus vocifer</i>	Accipitridae	
1379	9.20pa	Black-and-chestnut Eagle, <i>Spizaetus isidori</i>	Accipitridae	
1380a-d		Same species and values as listed above, have no white frames.		
1380e		SS of four, #1380a-1380d, but 2.70pa and 9.20pa has white frames on two sides.		

		2019 November 25 (Owls) Set/4 with white frames, Set/4 without frames		A*
1381	14.40pa	Eastern Screech-Owl, <i>Megascops asio</i>	Strigidae	
1382	20.60pa	Long-eared Owl, <i>Asio otus</i>	Strigidae	
1383	25pa	Northern Hawk-Owl, <i>Surnia ulula</i>	Strigidae	
1384	30pa	Tawny Owl, <i>Strix aluco</i>	Strigidae	
1385a-d		Same species has listed above, but with no white frames.		
1385e		SS of 4, #1385a-1385d, but with two of the stamps with frames on two sides.		

TURKEY		2019 May 9 (Europa) Set/2		A*
3653	2l	Pallid Scops-Owl, <i>Otus bucei</i>	Strigidae	
3654	4l	Kruper's Nuthatch, <i>Sitta kruperi</i>	Sittidae	

		2019 October 24 Set/2		A*
3678	2.40l	Red Junglefowl, <i>Gallus species</i> (Domesticated)	Phasianidae	
3679	5.50l	Red Junglefowl, <i>Gallus gallus</i>	Phasianidae	

UKRAINE		2019 May 22 (Europa) Set/2 (bklt stamps w/o frame)		A*
1211	Z (26.90h)	White Stork, <i>Ciconia ciconia</i>	Ciconiidae	
1212	Z (26.90h)	Thrush Nightingale, <i>Luscinia luscinia</i>	Muscicapidae	

		2019 July 27 (Flora and Fauna of Mezynskyi National Nature Park) Set/5+ label		A*
1221a	8h	Common Cuckoo, <i>Cuculus canorus</i>	Cuculidae	

UZBEKISTAN**2019 February 1** Single, type of 2017

A*

879 1510s Thrush Nightingale, *Luscinia luscinia*

Muscicapidae

2019 August 19 Set/4

A*

893 3200s Golden Eagle, *Aquila chrysaetos*

Accipitridae

895 3700s Greater Flamingo, *Phoenicopterus roseus*

Phoenicopteridae

2019 December 10 (Flora and fauna of Kyzylkum State Reserve) Sheet/6

A*

906f 10,400s Black-bellied Sandgrouse, *Pterocles orientalis*

Pteroclididae

OPALIZED FOSSILS

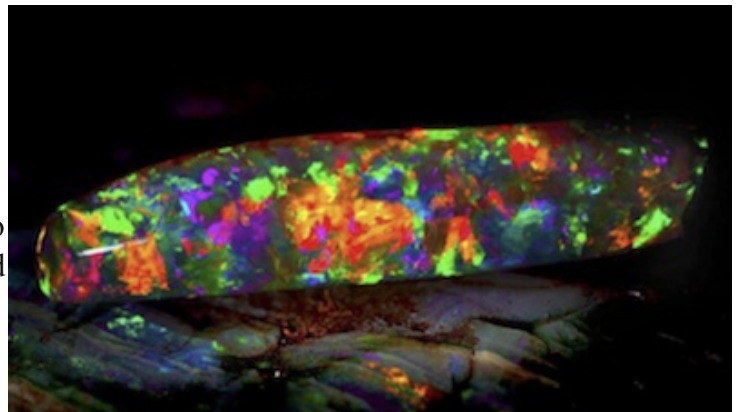
By Michael Kogan

Over millions of years, some of the plant and animal remains buried in its ancient waterways were transformed into opalised fossils. Opals are a form of amorphous hydrated silica with up to 20% water locked within the silica structure.

The opal fields of South Australia have yielded a treasure trove of opalised fossils over the century, since the first discovery of precious opal at Coober Pedy in 1915. South Australian opal occurrences are chiefly restricted to the sedimentary rocks of what is now the Great Artesian Basin.

In July 2016 Forbes magazine reported about the biggest and most expensive Opal found in Australia – the “Virgin Rainbow” [*2]

“This extremely rare opal exhibits incredible fluorescence with a rainbow of different colors that make opal so distinctly unique. The opal was found in Coober Pedy of southern Australia by miner John Dunstan, working solo in the opal field. It is worth over \$1 million and is now owned by the Southern Australia Museum in Adelaide.” The “Virgin Rainbow” is actually an opalized fossil of *Belemnite* (ancient ancestor of today’s Cuttlefish) when the shape of the prehistoric animal replaced by opal.



[*2]<https://www.forbes.com/sites/trevornace/2016/07/25/virgin-rainbow-is-the-worlds-rarest-opal/#6f0c32d33f19>

[Ed: See Australia "Opalised Fossils" issue of 2020 August 17 in the Paleontology section, page 212.]

New Birds in the Philatelic Aviary

By Charles E. Braun, BU 1364

New Birds

NORTH ISLAND GIANT MOA, *Dinornis novaezealandiae*, Dinornithidae

Maldives, 2020, not yet cataloged, 20 r

Length: 8 feet (male), 10 feet (female), resident. All shaggy brown. Extinct around 1500 A.D.

Habitat: Lowlands.

Range: North Island, New Zealand.

Reference: Davis, S. J. J. F. "Moas" in Hutchins, M., Ed. Grzimek's Animal Life Encyclopedia, Volume 8.

BLACK-BILLED WOOD-DOVE, *Turtur abyssinicus* Columbidae

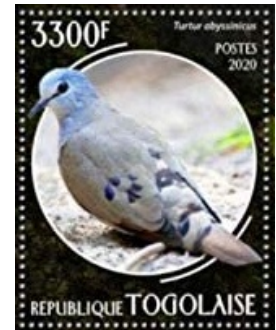
Togo, 2020, not yet cataloged, 3300 f

Length: 8 inches, sexes alike, resident. Light brown to grayish fawn above and light pinkish mauve below with a gray head and dark blue wing-spots.

Habitat: Arid savanna woodland, forest and plantations.

Range: Southern Mauritania to Eritrea and northwestern Kenya.

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



PALLID CUCKOO, *Cuculus pallidus* Cuculidae

Togo, 2020, not yet cataloged, 800 f



Length: 13 inches, sexes alike, migratory. Gray above and pale gray below with a pale superciliun and a dark gray line through the eye.

Habitat: Woodland, forest, scrub and gardens.

Range: Breeds in Australia and Tasmania; winters in northern Australia and Wallacea,

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

SRI LANKA FROGMOUTH, *Batrachostamus monliger* Podargidae

Liberia, 2020, not yet cataloged, \$300

Length: 9 inches, resident. The male (shown on the stamp) is vermiculated brownish-gray above and spotted brownish-gray below with a narrow white hind-collar; the female is rufous with white spots on the breast and a pale belly.

Habitat: Woodland and forest.

Range: Southwestern India and central and southwestern Sri Lanka. Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 5.

LARGE-TAILED NIGHTJAR, *Caprimulgus macrurus* Caprimulgidae

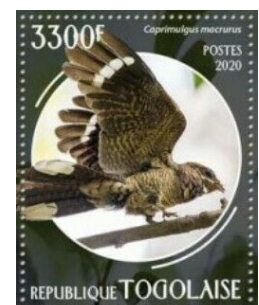
Togo, 2020, not yet cataloged, 800 f

Length: 10 to 12 inches, sexes similar, resident. Blackish-brown-streaked grayish-brown above and buff-specked brownish below with white spots near the wingtips.

Habitat: Forest and woodland.

Range: Northeastern Pakistan to the Philippines and northern and eastern Australia.

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





GRAY NIGHTJAR, *Caprimulgus jotaka* Caprimugidae
Togo, 2020, not yet cataloged, 800 f

Length: 12 inches, resident. The male (shown on the stamp) is grayish brown with dark-brown streaks above and grayish-barred below, with white wing spots and throat patches; the female has tawny wing spots and brownish tips to the tail.

Habitat: Forest, woodland and scrub.

Range: Breeds from southeastern Siberia to Japan and eastern China; winters from southern China to the Philippines and Java.

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



AUSTRALIAN OWLET-NIGHTJAR, *Aegotheles cristatus* Aegothelidae
Togo, 2020, not yet cataloged, 800 f

Length: 8 to 10 inches, resident. The male (shown on the stamp) is vermiculated dark gray above, paler below with a dark crown and eye-stripe; the female is rufous instead of gray.

Habitat: Open woodland.

Range: Australia and Tasmania.

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

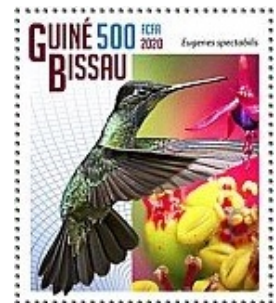
TALAMANCA HUMMINGBIRD, *Eugenes spectabilis* Trochilidae
Guinea-Bissau, 2020, not yet cataloged, 500 f

Length: 5.5 inches, resident. The male (shown on the stamp) is dark green above and blackish below, with an iridescent purple crown and a small white spot behind the eye; the female is whitish below and lacks the purple crown.

Habitat: Humid highland cloudforest.

Range: Costa Rica and western Panama.

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



GOLDEN-BELLIED STARFRONTLET, *Coeligena bonapartei* Trochilidae
Guinea-Bissau, 2020, not yet cataloged, 3000 f

Length: 6 inches, resident. The male (shown on the stamp) is green, with a black head, golden rump and belly and a small white spot behind the eye; the female has a green head.

Habitat: Highland forest and open areas with scattered vegetation.

Range: Eastern Andes of Colombia.

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



BLUE-THROATED STARFRONTLET, *Coeligena helianthea* Trochilidae
Colombia, 2020, not yet cataloged, 500 p

Length: 5 inches, resident. The male (shown on the stamp) is green above and dark gray below with a blue-violet throat and rump, rosy belly and a green frontlet; the female is golden-green above and green-spotted rufous below.

Habitat: Cloud forest.

Range: Colombian Andes and western Venezuela.

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



SURUCUA TROGON, *Trogon surrucura surrucura* Trogonidae
Surinam, 2020, not yet cataloged, \$20

Length: 10 inches, resident. The male (shown on the stamp) is metallic bronzy-green above and red below with a blackish head and black-tipped white tail; the female is gray, paler on the breast, with a red belly.

Habitat: Forest and woodland.

Range: Eastern Paraguay to southeastern Brazil.

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



RUFOUS-CAPPED MOTMOT, *Baryphthengus ruficapillus*

Momotidae

Surinam, 2020, not yet cataloged, \$6

Length: 17 inches, sexes alike, resident. Green, with a rufous crown, black eye-mask and a rufous band across the belly.

Habitat: Forest along watercourses.

Range: Eastern Brazil to eastern Paraguay and northeastern Argentina.

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



GREAT-BILLED KINGFISHER, *Pelargopsis melanorhynchus*,
melanorhynchus Alcedinidae

Niger, 2020, not yet cataloged, 500 f

Length: 14 inches, sexes alike, resident. The stamp shows the nominate subspecies. Whitish with a black bill, wings, back and tail.

Habitat: Wetlands and coasts.

Range: Sulawesi and nearby islands, Indonesia.

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

WHITE-EARED PUFFBIRD, *Nystalus chacuru* Bucconidae
Surinam, 2020, not yet cataloged, \$18

Length: 9 inches, sexes alike, resident. Dark brown above and white below, with a brown crown, black ear patch and a white eye stripe and collar.

Habitat: Forest, woodland, grassland and open areas.

Range: Eastern Peru and northeastern Brazil to northeastern Argentina,

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



BLACK-FRONTED NUNBIRD, *Monasa nigrifrons* Bucconidae

Surinam, 2020, not yet cataloged, \$14

Length: 10.5 to 11.5 inches, sexes alike, resident. Sooty black, darker around the red bill.

Habitat: Near riverbanks and lakes.

Range: Southeastern Colombia and eastern Bolivia to coastal Brazil.

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



BAUDIN'S BLACK COCKATOO, *Calyptorhynchus baudinii* Cacatuidae
Surinam, 2020, not yet cataloged, \$10

Previously in the surrounds of a 2007, 25.000 f stamp from Guinea. Length: 22 to 24 inches, sexes similar, resident. Dull black with a grayish white ear patches and white patches on the tail.

Habitat: Wet forests.

Range: Southwestern Australia.

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

ORANGE-BILLED LORIKEET. *Neopsittacus pullicauda* Psittaculidae
Grenadines, 2000, 2148f, \$1

Length: 7 inches, sexes alike, resident. Dark green above and pale green below with red center of the breast and an orange bill.

Habitat: Highland cloud forest and adjacent areas.

Range: Central New Guinea.

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



BROAD-BILLED PARROT, *Lophopsittacus mauritinius* Psittacidae
Maldives, 2020, not yet cataloged, 60 r

Length: 18 to 22 inches (male), 18 to 22 inches (female), resident. Brightly colored with a broad bill, tufted at the base. Extinct around 1680.

Habitat: Forest floor.

Range: Mauritius, Indian Ocean.

Reference: Day, D. Vanished Species.



STRIOLATED MANAKIN, *Machaeropterus striolata* Pipridae
Colombia, 2020, not yet cataloged, 5000 p

Length: 3.5 inches, resident. The male (shown on the stamp) is olive above and whitish-streaked reddish chestnut below with a red cap and nape; the female is olive above and dingy white below with a brownish-tinged breast.

Habitat: Humid forest and mature secondary woodland.

Range: Northwestern Venezuela and central Colombia to western Brazil and northeastern Peru.

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



SUBTROPICAL DORADITO, *Pseudocolopteryx acutipennis* Tyrannidae
Colombia, 2020, not yet cataloged, 5000 p

Length: 4.5 inches, sexes similar, migratory. Bright olive-green above and and bright golden-yellow below.

Habitat: Reedbeds, marshes and moist sedge.

Range: Breeds from Colombia to northwestern Argentina and western Paraguay, winters from Bolivia to western Paraguay.

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

of the World, Volume 9.

REGENT HONEYEATER, *Anthochaera phrygia* Meliphagidae

Australia, 2020, not yet cataloged, \$1.10

Length: 8 to 10 inches, sexes alike, resident. Pale yellow scalloped dark above and pale yellow chevroned below, with a black head and a small gray bare patch around the eye.

Habitat: Eucalyptus woodlands and forests.

Range: Southwestern Australia.

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

**POHNPEI CICADABIRD, *Edolisima tenuirostris inspiratum***

Campephagidae

Micronesia, 1991, 149r, 29 c

Length: 10 inches, resident. The male is dark slaty-gray with black around the bill; the female (shown on the stamp) is gray-brown above and rufous-cinnamon below with a slaty-gray head and black wings and tail.

Habitat: Forest.

Range: Pohnpei, Micronesia.

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

PRIRIT BATIS, *Batis pririt* Platysteiridae

Namibia, 2020, not yet cataloged, *

Length: 5 inches, resident. The male (shown on the stamp) is gray above and white below with a black breast and a white wing stripe; the female has a yellow-ocher chin, throat and breast.

Habitat: Woodland and grassland along watercourses.

Range: Southwestern Angola to central Botswana and western South Africa.

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

**YELLOW-BELLIED GREENBUL, *Chlorocochla flaviventris*** Pycnonotidae

Gambia, 1991, 1092, 1.50 d

Length: 8 inches, sexes alike, resident. Olive-brown above and pale yellow below with white eyelids.

Habitat: Forest, dense bush and wooded savanna.

Range: Southern Somalia to northern South Africa and Angola.

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

**EASTERN OLIVACEOUS WARBLER, *Idena pallida*** Sylviidae

Benin, 2000, 1281, 270 f

Length: 5 inches, sexes alike, migratory. Brownish-gray above and off-white below with a pale white superciliary and eyering.

Habitat: Trees and tall bushes.

Range: Breeds from Hungary to northern Afghanistan and northern Africa; winters in central Africa.

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



LONG-TAILED PARADISE-WHYDAH, *Vidua interjecta* Viduidae
Congo (Brazzaville), 1993, 1030, 120 f

Length: 15 to 16 inches, resident. The male (shown on the stamp) is black above and whitish below with a black head and a brownish-red neck and breast; the female (5 inches) is black-streaked light brown above and buff below with a pale superciliary.

Habitat: Woodland, bushes and rocky hillsides.

Range: Senegal to Sudan and northeastern Congo.

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

TOGO Fossil Dragonfly

TOGO

2019 November 5. (Stamperija TG-190556a&b) (Fossils)

b, 800fr *Misofaeschnidium densum* Hagen Caption: *Meganeura monyi* Aeschnidiidae B



Jose Reis questioned the identification on the stamp and contacted Dr. Gunther Bechly, a specialist in this field.

His reply: Indeed the fossil on this stamp is not a *Meganeura* from the Carboniferous, but a female (see ovipositor) specimen of a much more modern dragonfly (Anisoptera) of the extinct family Aeschnidiidae (not to be confused with the living family Aeshnidae). The fossil is not from Jurassic Solnhofen limestone, but most probably from the Lower Cretaceous of China.

Jose: I compared some photos on the Internet and it seems that it is *Sinaeschnidia* (meaning "Chinese Aeschnidium") and is a genus of prehistoric dragonfly, possibly *Sinaeschnidia cancellosa*.

Again from Dr. Bechly: I checked the high resolution photo of this specimen at Wikimedia (https://upload.wikimedia.org/wikipedia/commons/2/25/Mesuropetala_koehleri_-_Museum_fur_Naturkunde%2C_Berlin_-_DSC09919.JPG).

The dragonfly was incorrectly determined and is definitely NOT a *Mesuropetala muensteri*, but again an Aeschnidiidae cf. *Misofaeschnidium densum* Hagen (http://fossilworks.org/bridge.pl?a=taxonInfo&taxon_no=179601) from the Upper Jurassic Solnhofen limestone in Bavaria (Germany). I attached a photo of this species from another collection for comparison. Unfortunately, fossil dragonflies are very often misdetermined even in museum collections, because the determinations were not made by a specialist on the group.

This is a new Family and genus on stamps.



HERPETOLOGY

Associate Editor

Dick Roman, LM83

New Issues



Ed. Note: Occasionally in this section and also in the Fungi section, we will note a species that is known to be poisonous or venomous by marking it with a ☠ symbol. One should not infer that other species that are not so marked are non-poisonous or non-venomous or safe to handle/eat.

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AUSTRALIA 2019 October 29 (Start with same letter)				
5032	\$1	U/I python	Pythonidae	
5032a	SS sheet of 6			
5038	booklet \$1	U/I python		
5038a	Pane of 10	U/I python		
BOSNIA & HERZEGOVINA (CROAT Admin.) 2019 November 1 (Turtles) Set/4				
402		Horizontal strip of 4		
402a	3.10m	Hermann's Tortoise, <i>Testudo hermanni</i>	Testudinidae	A
402b	3.10m	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae, Cheloniinae	A
402c	3.10m	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A
402d	3.10m	European Pond Turtle, <i>Emys orbicularis</i>	Emydidae, Emydinae	A
CAYMAN ISLANDS 2019 November 15 (Christmas)				
1218	75c	Stylized iguana	Iguanidae	A
1219	80c	Stylized iguana	Iguanidae	A
CHRISTMAS ISLAND 2019 January 8 (Year of the Pig)				
580f	30c	Frilled Lizard, <i>Chlamydosaurus kingii</i>	Agamidae, Amphibolurinae	A
580j	50c	Unidentified snake		
580o	30c	Booklet pane with 580f		
580p	50c	Booklet pane with 580j		
2020 January 8 (Year of the Rat)				
592k	\$1.10	Zodiac snake		
CROATIA 2019 September 27 (Emblems of Special Police)				
1142p	3.60k	Stylized snake		
CURACAO 2019 January 1 (Life in Curacao)				
355	68c	Stylized iguana		
CZECH REPUBLIC 2019 September 4 (Animals in Czech zoos)				
3802a	19k	Philippine crocodile, <i>Crocodylus mindorensis</i>	Crocodylidae	A
DJIBOUTI 2019 February 27 (Turtles) Set/3, SS/1				
1624a	240fr	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A
1624b	240fr	European Pond Turtle, <i>Emys orbicularis</i>	Emydidae, Emydinae	A
1624c	240fr	Pig-nosed Turtle, <i>Carettochelys insculpta</i>	Carettochelyidae	A
1624d	240fr	Brown-roofed Turtle, <i>Pangshura smithii</i>	Geoemydidae	A
1634	950fr	Black Pond turtle, <i>Geoclemys hamiltonii</i>	Geoemydidae	A

DJIBOUTI (continued)**2019 June 12** (Snakes) Set/1, SS/1

1729a	250fr	White-lipped island pitviper, <i>Trimeresurus insularis</i> ☠	Viperidae, Crotalinae	A
1729b	250fr	Grass Snake, <i>Natrix natrix</i>	Colubridae	A
1729c	250fr	Green Tree Python, <i>Morelia viridis</i>	Pythonidae	A
1729d	250fr	Usambara-Bushviper, <i>Atheris ceratophora</i> ☠	Viperidae, Viperinae	A
1739	1000fr	Black-collared Snake, <i>Drepanoides anomalus</i>	Colubridae, Dipsadinae	A

2019 July 27 (Turtles) Set/4, SS/1

1797a	250fr	Spotted Turtle, <i>Clemmys guttata</i>	Emydidae	A
1797b	250fr	Spiny Softshell, <i>Apalone spinifera</i>	Trionychidae	A
1797c	250fr	Pond Slider, <i>Trachemys scripta</i>	Emydidae, Deirochelyinae	A
1797d	250fr	Common Snapping Turtle, <i>Chelydra serpentina</i>	Chelydridae	A
1809	1000fr	Florida Redbelly Turtle, <i>Pseudemys nelsoni</i>	Emydidae, Deirochelyinae	A

ECUADOR**2019 May 29** (Glass Frogs) Set/24

2231		Booklet pane of 8		
2231a	25c	Rio Azuela Glass Frog <i>Hyalinobatrachium pellucidum</i>	Centrolenidae	A
2231b	25c	Napo Cochran Frog, <i>Nymphargus anomalus</i>	Centrolenidae	A
2231c	50c	<i>Nymphargus cochranae</i>	Centrolenidae	A
2231d	50c	Red spotted Glass Frog, <i>Nymphargus grandisonae</i>	Centrolenidae	A
2231e	75c	<i>Nymphargus griffithsi</i>	Centrolenidae	A
2231f	75c	Yellow-flecked Glass Frog, <i>Sachatamia albomaculata</i>	Centrolenidae	A
2231g	\$1	Ghost Glass Frog, <i>Sachatamia ilex</i>	Centrolenidae	A
2231h	\$1	Powdered Glass Frog, <i>Teratohyla pulverata</i>	Centrolenidae	A
2232		Booklet pane of 8		
2232a	25c	<i>Centrolene ballux</i>	Centrolenidae	A
2232b	25c	<i>Centrolene buckleyi</i>	Centrolenidae	A
2232c	50c	<i>Centrolene condor</i>	Centrolenidae	A
2232d	50c	<i>Centrolene heloderma</i>	Centrolenidae	A
2232e	75c	Sun Glass Frog, <i>Hyalinobatrachium aureoguttatum</i>	Centrolenidae	A
2232f	75c	Powdered Glass Frog <i>Teratohyla pulverata</i> (underside)	Centrolenidae	A
2232g	\$1	<i>Nymphargus griffithsi</i> (underside)	Centrolenidae	A
2232h	\$1	<i>Teratohyla spinosa</i> (two)	Centrolenidae	A
2233		Booklet pane of 8		
2233a	25c	<i>Cochranella balionota</i>	Centrolenidae	A
2233b	25c	Litoral Glass Frog, <i>Cochranella litoralis</i> (Right)	Centrolenidae	A
2233c	50c	Ecuadorian Blue Glass Frog, <i>Cochranella mache</i>	Centrolenidae	A
2233d	50c	Red spotted Glass Frog, <i>Nymphargus granisonae</i> (right)	Centrolenidae	A
2233e	75c	Sun Glassfrog, <i>Hyalinobatrachium aureoguttatum</i> (underside)	Centrolenidae	A
2233f	75c	Powdered Glass Frog <i>Teratohyla pulverata</i> (underside)	Centrolenidae	A
2233g	\$1	<i>Nymphargus griffithsi</i> (underside)	Centrolenidae	A
2233h	\$1	<i>Teratohyla spinosa</i> (two)	Centrolenidae	A

2019 September 24 (Rio Plátano Biosphere) Set/5?

2244d	\$3	Galapagos Land Iguana, <i>Conolophus subcristatus</i>	Iguanidae	A
2245c	50c	Unidentified Iguana	Iguanidae	A

ECUADOR (continued)

2246e 75c Unidentified lizard head

GREAT BRITAIN 2019 October 10 (The Gruffalo children's book)

3899 1st Stylized snake

GREAT BRITAIN Isle of Man 2019 February 12

2005e 1st U/I common lizard

2010 1st Same species

GRENADA 2019 March 27 (Green Iguanas) Set/4, SS/14326a \$4 Green Iguana, *Iguana iguana* Iguanidae, Iguania A

4326b \$5 Same species, large male facing left

4326c \$6 Same species, on rock

4326d \$7 Same species, facing right

4327 SS \$14 Same species

HONDURAS 2019 September 24 (Rio Plátano Biosphere)C1430 5L Red-Eyed Tree Frog, *Agalychnis callidryas* Hylidae, Phyllomedusinae A

4596c \$200 Frog and snake

4596f \$400 U/I snake

HONG KONG 2019 July 16 (Marine life)

2017 \$3.40 U/I sea turtle

2017a MS Same species block of 4

2020b MS Same species

INDIA 2018 November 28 (Sports)

3073 5r Stylized Ninja turtle

3075a SS 5r same species

JAPAN 2019 February 22 (Crane and Tortoise)

4277 82y Stylized Tortoise

2019 March 6 (Tadpoles) Set/10

4279e 62y Stylized tadpoles

2019 July 30

4311 62y Stylized frogs

2019 October 2

4339i 63y Origami tortoise

2019 October 23

4352j 84y Stylized tortoise

2019 November 28 (Guri and Gura, children's book)

4361 84y Stylized tortoise

KAZAKHSTAN 2019 July 22 (Year of the pig)

889 500te Zodiac snake

2019 December 31 (Barsa Kelmes Nature Reserve) SS/1

907 500te Margin U/I lizard

SS Z

KOREA (SOUTH) 2017 September 1 (Joseon dynasty seals) Set/4, SS/1

2503a 330y Stylized tortoise

2503c 330y Stylized tortoise

KOREA (continued)

2503e 330y Strip of 4, same species

KYRGYZSTAN (KYRGYZ EXPRESS POST) 2019 September 6

(Endangered Reptiles & Amphibians) Set/4, SS/1

117	50s	Desert Monitor, <i>Varanus griseus</i>	Varanidae	A
118	75s	Horsfield's Tortoise, <i>Testudo horsfieldii</i>	Testudinidae	A
		Cap: <i>Agrionemys</i>		
119	100s	Central Asiatic Frog, <i>Rana asiatica</i>	Ranidae	A
		Spp. <i>Bedriaga</i>		
120	150s	Steppe Viper, <i>Vipera renardi</i> ☠	Viperidae, Viperinae	A
120a	SS	Set of all 4		

LAOS**1958**

2000k Zodiac snake
 1964a SS Zodiac snake

LIBERIA**2018 December 25** (African Lizards) Sheet/6

3305a	\$170	Common Agama, <i>Agama agama</i>	Agamidae, Agaminae	A
		Cap: Red-headed rock agama		
3305b	\$170	Mwanza flat-headed agama, <i>Agama mwanzae</i>	Agamidae, Agaminae	A
3305c	\$170	Ground agama, <i>Agama aculeata</i>	Agamidae, Agaminae	A
3305d	\$180	Mwanza flat-headed agama, <i>Agama mwanzae</i>	Agamidae, Agaminae	A
3305e	\$180	Ground agama, <i>Agama aculeata</i>	Agamidae, Agaminae	A
3305f	\$180	Common Agama, <i>Agama agama</i>	Agamidae, Agaminae	A
		Cap: Red-headed rock agama		

2019 March 11 (Marabou Stork)

3311 SS U/I crocodile (margin)

2019 April 24 (Reptiles)

3326a	\$150	Nile Monitor, <i>Varanus niloticus</i>	Varanidae	A
3326b	\$200	African Spurred Tortoise, <i>Centrochelys sulcata</i>	Testudinidae	A
3326c	\$250	West African Dwarf Crocodile, <i>Osteolaemus tetraspis</i>	Crocodylidae	A
3326d	\$300	African Rock Python, <i>Python sebae</i>	Pythonidae, Henophidia	A
3326e	\$350	Namaqua Chameleon, <i>Chamaeleo namaquensis</i>	Chamaeleonidae	A
3327	\$800	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	A

MALDIVE ISLANDS**2017 March 16** (Lizards) Set/4, SS/1

3826a	22r	Common Garden Lizard, <i>Calotes versicolor</i>	Agamidae, Draconinae	A
3826c	22r	Common House Gecko, <i>Hemidactylus frenatus</i>	Gekkonidae	A
3826b	22r	Same species		
3826d	22r	Common Garden Lizard, <i>Calotes versicolor</i>	Agamidae, Draconinae	A
3836	SS 70r	Same species		

MONTENEGRO**2019 April 12** (*Dinarolacerta montenegrina*)441 95c Prokletije Rock Lizard, *Dinarolacerta montenegrina* Lacertidae A**NEVIS****2018 December 20** (Red-Footed Tortoise) Set/4, SS/11980a \$4 Red-Footed Tortoise, *Chelonoidis carbonaria* Testudinidae A

NEVIS (continued)

- 1980b \$5 same species facing left
 1980c \$6 same species facing forward
 1980d \$7 same species facing right
 1981 \$10 Same species

SS

NEW ZEALAND**2019 June 5** (Legend of Kupe) Set/8

- 2868 Block of 8
 2868e \$1.30 Stylized snake, stylized turtle
 2868i \$1.30 Stylized snake

NICARAGUA**1980 May 3** (Endangered Turtles, overprint red blue)

- C970Cd 5cor Correoso turtle

I can find no such common name, possibly extinct genus

- C970Ce 15cor Green Sea Turtle, *Chelonia mydas* Cheloniidae, Cheloniinae A

OMAN**2019 September 29** (Turtles) Set/5 MS/5

- 631 100b Leatherback Sea Turtle, *Dermochelys coriacea* Dermochelyidae A
 632 100b Green Sea Turtle, *Chelonia mydas* Cheloniidae, Cheloniinae A
 633 100b Hawksbill Sea Turtle, *Eretmochelys imbricata* Cheloniidae A
 634 100b Loggerhead Sea Turtle, *Caretta caretta* Cheloniidae A
 635 500b Olive Ridley Sea Turtle, *Lepidochelys olivacea* Cheloniidae A
 636a 100b Leatherback Sea Turtle, *Dermochelys coriacea* Dermochelyidae A
 636b 100b Green Sea Turtle, *Chelonia mydas* Cheloniidae, Cheloniinae A
 636c 100b Hawksbill Sea Turtle, *Eretmochelys imbricata* Cheloniidae A
 636d 100b Loggerhead Sea Turtle, *Caretta caretta* Cheloniidae A
 636e 500b Olive Ridley Sea Turtle, *Lepidochelys olivacea* Cheloniidae A

PAPUA NEW GUINEA**2019 February 18** (Chinese zodiac)

- 1960f 1k Zodiac snake

PORTUGAL**2019 August 27** (Characters from Harry Potter)

- 4146 91c Stylized snake (with Voldemort)

ST. HELENA**2019 September 15** (Johnathan the oldest land animal) Set/4

- 1156 50p Seychelles giant tortoise, *Aldabrachelys gigantea* Testudinidae A
 1157 60p same species
 1158 80p same species
 1159 £1.30 Same species

2020 February 1 (Seven wonders of St. Helena) Set/7

- 1166 £1 Seychelles giant tortoise, *Aldabrachelys gigantea* Testudinidae A

SERBIA**2020 January 24** (Year of the rat)

- 891 27d Zodiac snake
 892 70d Zodiac snake

SRI LANKA**2019 October 5** (Fauna of Wasgamuwa National Park)

- 2196 12r Orange-lipped Forest lizard, *Microauris aurantolabium* Agamidae A
 Cap: Painted-lipped lizard

Scientific name identified since it is native to India, near Sri Lanka

2196a SS 12r Same species

SURINAM**2019 July 10** (Frogs) Set/7

1564	D	<i>Dendropsophus leucophyllatus</i>	Hylidae, Hylinae	A
1565	\$7	<i>Dendrophophus triangulum</i>	Hylidae, Hylinae	A
1566	\$12	Mediterranean Tree Frog, <i>Hyla meridionalis</i>	Hemiphractidae	A
1567	\$14	Green Tree Frog, <i>Litoria caerulea</i>	Hylidae, Hylinae	A
1568	\$15	Splendid Treefrog, <i>Litoria splendida</i>	Hylidae, Hylinae	A
1569	\$20	African bullfrog, <i>Pyxicephalus adspersus</i>	Pyxicephalidae, Pyxicephalinae	A
1570	\$25	Boatman frog, <i>Trachycephalus resinifictrix</i>	Hylidae, Hylinae	A

2019 December 27 (Flora and Fauna) Set/12

1577	Y	Green Bright-eyed Frog, <i>Boophis viridis</i>	Mantellidae, Boophinae	A
1581	\$5	Anguilla Anole, <i>Anolis gingivinus</i>	Polychrotidae	A

TAJIKISTAN**2019 July 2** (Mushrooms)

516 5.80s Stylized frog

TRINIDAD & TOBAGO**2019** (Surcharges of #848-849)

952g	\$2 on \$4.50	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A
952k	\$2 on \$4.50	Same species inverted surcharge		

TUVALU**2019 July 31** (Hawksbill Sea Turtle) Set/4, SS/1

1449a	\$1	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A
1449b	\$2	Same species, swim left		
1449c	\$3	Same species, swim right		
1449d	\$4	Same species, on rock face left		
1450	SS \$7	Same species		

URUGUAY**2019 June 5** (Loggerhead and plastic bag)

2673	65p	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A
------	-----	---	-------------	---

UZBEKISTAN**2019 June 21** (Tashkent Zoo Animals)

886	3600s	Indian Rock Python <i>Python molurus</i>	Pythonidae	A
		Spp. <i>Bivittatus</i> not a recognized subspecies		

2019 December 10 (Flora and Fauna of Kyzylkum State Reserve)

906e	6200s	Steppe Agama, <i>Trapelus sanguinolentus</i>	Agamidae	A
------	-------	--	----------	---

VANUATU

1109 180v U/I turtle

WALLIS & FUTUNA ISLANDS **2019 October 17** (World Ocean Day)

816 90fr Stylized sea turtle



ICHTHYOLOGY

Editor

J. Dale Shively, BU1832



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AITUTAKI 2018 December 27 (Birds of Prey) (Set/12 & MS/12)				
679	\$7.50	White-bellied Sea Eagle with U/I fish in talons (w/ white frame)		BU
680a	SS/6	Sc#679 (w/ white frame)		BU
681k	MS/12	Sc#679 (w/o white frame)		BU
BRAZIL 2018 November 6 (Pets w/Names) (Sht/30)				
3384aa	1.55r	Convict Cichlid, <i>Amatitlania nigrofasciata</i> eu, "Morfeu"	Cichlidae	A
CAYMAN ISLANDS 2019 November 15 (Christmas) (Set/4)				
1219	80c	Stylized stingray	Dasyatidae	S
CURACAO 2018 May15 (Children) (Set/6)				
384	456c	Stylized fish with girl sitting horiz.		S
DOMINICAN REPUBLIC 2019 October 9 (Corals) (2 sets of MS/12)				
1655a	20p	LL: U/I Trumpet Fish with <i>Plexaurella nutans</i>	Aulostomidae	CU
1655b	20p	TOP: U/I fish with <i>Madracis auretenra</i>		CU
1655c	20p	U/I fish with <i>Montastraea cavernosa</i>		BU
1655e	20p	TOP: U/I fish with <i>Acropora palmata</i>		CU
1655g	20p	TOP: U/I fish with <i>Orbicella annularis</i>		CU
1655h	20p	TOP: U/I fish with <i>Colpophyllia natans</i>		CU
1656a	20p	R: U/I fish with <i>Acroporia cervicornis</i>		CU
1656d	20p	R: Rock Beauty, <i>Holacanthus tricolor</i> w/ <i>Dendrogyra cylindrus</i>	Pomacanthidae	BU
		L: U/I fish		CU
1656e	20p	UL: U/I fish with <i>Pseudopterogorgia sp.</i>		CU
1656i	20p	L: U/I fish with <i>Millepora complanata</i>		CU
1656j	20p	LL: U/I fish with <i>Agaricia tenuifolia</i>		CU
1656k	20p	LL: U/I fish with <i>Gorgonia ventalina</i>		CU
1656l	20p	Squirrelfish, <i>Holocentrus adscensionis</i> (?) w/ <i>Helioseris cucullata</i>	Holocentridae	B
ECUADOR 2019 November 22 (Tourism) (Blk/8)				
2245g	\$1	U/I fish with diver in Galapagos Is. waters		BU
2245h	\$1	U/I Shark in Galapagos Is. waters		AU
FRENCH POLYNESIA 2019 October 18 (Fish) (Set/3, SS/3)				
1235	40fr	Oilfish, <i>Ruvettus pretiosus</i>	Gempylidae	A
1236	80fr	Large-headed Scorpionfish, <i>Pontinus macrocephalus</i>	Scorpaenidae	A
1237	100fr	Deep-water Red Snapper, <i>Etelis carbunculus</i>	Lutjanidae	A

FR. POLYNESIA (continued)

1237a SS/3 Sc# 1235-1237

Margin: Oblique-banded snapper, *Pristipomoides zonatus* Lutjanidae ZLavender Jobfish, *Pristipomoides sieboldii* Lutjanidae Z**2019 November 7** (Painting: *Polynesia, the Sea*, by Matisse)

1239 100fr Stylized fish S

FR. SOUTH. & ANTARCTIC TERR. **2019 November 28** (King Penguins) (SS/2)

619a €1.50 U/I fish with King penguins C

619 Margin U/I fish with King penguins CZ

2019 January 2 (*Channichthys verifier*) (Single)621 €1.50 Sail Icefish, *Channichthys verifier* Channichthyidae A**GREENLAND****2019 October 21** (Fish and Plastics in Water) (Single)

826 26k Stylized fish S

2020 February 28 (Fish) (Single, SS/2)836 3k Black Dogfish, *Centroscyllium fabricii* (Perf. 12¾ x 13¼) Etmopteridae A

836a Same species (Perf. 13¼)

837 32k Atlantic Bluefin Tuna, *Thunnus thynnus* (Perf. 12¾ x 13¼) Scombridae A

837a Same species (Perf. 13¼)

837b SS/2 Sc# 836a, 837a

HONG KONG**2019 July 16** (Marine Life) (Single, MS/4, SS/6)

Note: One perforation shaped like fish on vertical sides (L/R) of each stamp.

2015 \$2 UR: Yellow Boxfish, *Ostracion cubicus* Ostraciidae BL: Threadfin Butterflyfish, *Chaetodon auriga* Chaetodontidae BLR: Brown-banded Butterflyfish, *Roa modesta* Chaetodontidae B

LL: U/I silver fish C

2015a MS/4

2016 \$2.60 UR: Scissortail Sergeant (?), *Abudefduf sexfasciatus* Pomacentridae BLR: No common name (Puffer), *Takifugu niphobles* Tetraodontidae B

2016a MS/4

2017 \$3.40 UL: Scissortail Sergeant (?), *Abudefduf sexfasciatus* Pomacentridae B

2017a MS/4

2018 \$3.70 Yellow-tail Clownfish, *Amphiprion clarkii* Pomacentridae AUR: bottom of Brown-banded Butterflyfish, *Roa modesta* Chaetodontidae C2018a MS/4 2019 \$4.90 L: U/I Spotted Seahorse (?), *Hippocampus kuda* Syngnathidae B

R: U/I Stingray Dasyatidae B

LL: U/I Wrasse Labridae B

2019a MS/4

2020 \$5 L: U/I Wrasse Labridae B

2020a MS/4

2020b SS/6 Sc# 2015-2020

Margin LL: Yellow-tail Clownfish, *Amphiprion clarkii* Pomacentridae ZLR: Paletail Chromis, *Chromis xanthurus* Pomacentridae ZLR: Red Lionfish, *Pterois volitans* Scorpaenidae Z

UL/LR: U/I fish Z

IRELAND		2020 January 23 (Galway, 2020 European Capital of Culture) (Single, SS/1)	
2266	€1	LL/LR: Stylized fish in Galway scene	S
2266a	SS/1	Sc# 2266	S
		MarginLL: Stylized fish	SZ
ISRAEL		2020 February 4 (CMYK Printing - Parrot Fish w/Marine Life) (Sht/12)	
Note: Sht/12 came w/4 progressive proofs not valid for postage.			
2250	16s	Daisy Parrotfish (?), <i>Chlorurus sordidus</i>	Scaridae A
		UR: Bluecheek Butterflyfish, <i>Chaetodon semilarvatus</i>	Chaetodontidae B
		U/I marine reef fish	B
JAPAN		2019 January 21 (New Year 2019) (Sht/2)	
4271		Margin Stylized carp	S
		2019 April 12 (Flora and Fauna of Kurobe Gorge) (Sht/10)	
4283i	82y	White-spotted Char (2), <i>Salvelinus leucomaenis</i> (32mm diameter)	Salmonidae A
		2019 May 30 (Various Topics – Stylized) (Sht/10)	
4296d	62y	Stylized Butterfly Fish and other fish, (2 each Sc# 4296a-e)	Chaetodontidae S
4297e	82y	Stylized Goldfish, (2 each Sc# 4297a-e)	Cyprinidae S
		2019 June 27 (International Labor Organization Centennial) (Sht/10)	
4306b	82y	Stylized fish with boat	S
4306f	82y	Stylized fish	S
		2019 July 30 (Various Animals) (Sht/10)	
4311c	62y	Stylized Ray (Perf. 13 x 13¼)	Dasyatidae S
4312h	82y	Stylized Tilefish (Perf. 13¼ x 13)	Malacanthidae S
Note: 4312h listed as 4312g in Linn's Stamp News, April 20, 2020.			
		2019 September 4 (My Journey Stamp Series No.5) (Sht/10)	
4330		MarginLR: Stylized fish (3)	S
		2019 October 2 (Various Origami) (Sht/10)	
4339h	63y	Stylized origami Goldfish (Perf. 13¼)	Cyprinidae S
		2019 October 23 (Various Stylized Nature and Animals) (Sht/10)	
4351j	63y	Stylized fish (4) (Perf. 13 x 13¼)	S
		2019 November 6 (Various Stylized Images) (Sht/10)	
4357c	63y	Stylized Salmon on plate (Perf. 13 x 13¼)	Salmonidae S
KAZAKHSTAN		2019 December 31 (Painting - Aquatic Flowers) (Sht/2)	
905		MarginLL/LR: U/I Sunfish	Centrarchidae CUZ
		LL: U/I Perch	Percidae CUZ
		LR: Bowfin, <i>Amia calva</i>	Amiidae CZ
LEBANON		2019 April 9 (Waste Sorting) (Set/3)	
804	£500	TOP: Stylized fish skeleton	BS
LIBERIA		2019 April 9 (Long-beaked Common Dolphin) (Sht/6)	
3320a	\$100	TOP: U/I fish with dolphin	BU
3320d	\$200	UR: U/I fish with dolphin	BU
MALAYSIA		2019 August 22 (Caves) (Set/3)	
1836	60c	No common name (Sarawak rasbora), <i>Rasbora sarawakensis</i>	Cyprinidae B

MALDIVE ISLANDS 2017 March 16 (Flora, Fauna and Mushrooms) (MS/4, SS/1)

Note: These ten MS/4 all have the same design in margin which includes a stylized fish on RT. Each of the ten accompanying SS/1 have differing marginal designs depicting a stylized fish on LT. Only the main topic of each MS and SS is listed below.

3818	MS/4	Dugong
3819	MS/4	Doves
3820	MS/4	Moths and butterflies
3821	MS/4	Crabs and lobsters
3822	MS/4	Flowers and trees
3823	MS/4	Bats
3824	MS/4	Ducks
3825	MS/4	Owls and mushrooms
3826	MS/4	Lizards
3827	MS/4	Spiders
3828	SS/1	Dugong
3829	SS/1	Dove
3830	SS/1	Moth
3831	SS/1	Lobster
3832	SS/1	Flower
3833	SS/1	Bat
3834	SS/1	Duck
3835	SS/1	Owl
3836	SS/1	Lizard
3837	SS/1	Spider

2017 May 17 (Paintings by Henry Matisse, 1869-1954) (MS/4, SS/1)

3900d	20r	Stylized Goldfish (<i>The Goldfish</i> , 1912)	Cyprinidae	SA
3900	MS/4	Sc# 3900a-d3910 Margin Goldfish in bowl (<i>The Dream</i> , 1940)	Cyprinidae	SZ

MARSHALL ISLANDS 2019 March 14 (Fish) (MS/6)

1227a	\$1.20	Orangefin Anemonefish, <i>Amphiprion chrysopterus</i>	Pomacentridae	A
1227b	\$1.20	Achilles Tang, <i>Acanthurus achilles</i>	Acanthuridae	A
1227c	\$1.20	Scissortail Sergeant, <i>Abudefduf sexfasciatus</i>	Pomacentridae	A
1227d	\$1.20	Spotband Butterflyfish, <i>Chaetodon punctatofasciatus</i>	Chaetodontidae	A
1227e	\$1.20	Orangespot (Band) Surgeonfish, <i>Acanthurus olivaceus</i>	Acanthuridae	A
1227f	\$1.20	Pink (Skunk) Clownfish, <i>Amphiprion perideraion</i>	Pomacentridae	A
1227	MarginLL/LR:	Orangespot Surgeonfish, <i>Acanthurus olivaceus</i>	Acanthuridae	Z
		LL: U/I marine fish		Z
1228a	\$1.50	Chocolate Surgeonfish, <i>Acanthurus pyroferus</i>	Acanthuridae	A
1228b	\$1.50	Oval Butterflyfish, <i>Chaetodon lunulatus</i>	Chaetodontidae	A
1228c	\$1.50	Maroon Clownfish (Three-stripe), <i>Amphiprion tricinctus</i>	Pomacentridae	A
1228d	\$1.50	Whitecheek Surgeonfish, <i>Acanthurus nigricans</i>	Acanthuridae	A
1228e	\$1.50	Fire (Cinnamon) Clownfish, <i>Amphiprion melanopus</i>	Pomacentridae	A
1228f	\$1.50	Golden Damsel fish, <i>Amblyglyphidodon aureus</i>	Pomacentridae	A

MARSHALL IS. (continued)

1228	MarginLL/LR:	Orangespot Surgeonfish, <i>Acanthurus olivaceus</i>	Acanthuridae	Z
		LR: Regal Angelfish, <i>Pygoplites diacanthus</i>	Pomacentridae	Z
		LL: Bluecheek Butterflyfish, <i>Chaetodon semilarvatus</i>	Chaetodontidae	Z

2019 March 29 (Marine Life) (Set/5)

1232	55c	Devil Firefish (Lionfish), <i>Pterois miles</i>	Scorpaenidae	A
------	-----	---	--------------	---

2019 August 25 (Ocellaris Clownfish) (MS/4, SS/1)

1254a	\$2	Clown anemonefish, <i>Amphiprion ocellaris</i> (2 facing RT/LT)	Pomacentridae	A
1254b	\$2	Same species (Facing RT)	Pomacentridae	A
1254c	\$2	Same species (Facing RT)	Pomacentridae	A
1254d	\$2	Same species (2 Facing RT)	Pomacentridae	A
1254	\$2	LL/LR: Partial in margin	Pomacentridae	Z
1255	\$7	Same species	Pomacentridae	A

MONGOLIA**2019 March 15** (Landscape Types of 2017) (Set/7)

2925	1300t	Taimen, <i>Hucho taimen</i>	Salmonidae	B
------	-------	-----------------------------	------------	---

NEVIS**2019 July 1** (Red Lionfish) (Sht/4, SS/1)

1989a	\$5	Red Lionfish, <i>Pterois volitans</i> , facing RT	Scorpaenidae	A
1989b	\$5	Same species (Facing LT)	Scorpaenidae	A
1989c	\$6	Same species (Facing RT), black background	Scorpaenidae	A
1989d	\$6	Same species (Facing LT), blue background	Scorpaenidae	A
1989	Sht/4	Sc# 1989a-d Margin Same species	Scorpaenidae	Z
		UR: U/I fish		Z
1990	SS/1 \$14	Same species	Scorpaenidae	A

2020 January 6 (Angelfish) (MS/6, SS/1)

2000a	\$1	Gray Angelfish, <i>Pomacanthus arcuatus</i>	Pomacanthidae	A
2000b	\$2	Regal (Royal) Angelfish, <i>Pygoplites diacanthus</i>	Pomacanthidae	A
2000c	\$3	French Angelfish, <i>Pomacanthus paru</i>	Pomacanthidae	A
2000d	\$4	French Angelfish (juvenile), <i>Pomacanthus paru</i>	Pomacanthidae	A
2000e	\$5	Queen Angelfish, <i>Holacanthus ciliaris</i>	Pomacanthidae	A
2000f	\$7	Queen Angelfish (different), <i>Holacanthus ciliaris</i>	Pomacanthidae	A
2000		Sc# 2000a-f2001 SS/1 \$14 Emperor Angelfish, <i>Pomacanthus imperator</i>	Pomacanthidae	A

Note: Sc# 2001 has banner at bottom of margin discussing “freshwater angelfish.” The Emperor Angelfish is a marine species.

OMAN**2019 September 29** (Marine Turtles) (SS/5)

636	MarginUL:	Bluespine Unicornfish, <i>Naso unicornis</i>	Acanthuridae	BZ
		UL: Foxface, <i>Siganus vulpinus</i>	Siganidae	BZ
		L: Copperband butterflyfish, <i>Chelmon rostratus</i>	Chaetodontidae	BZ
		LL: Horseface Unicornfish (?), <i>Naso fageni</i>	Acanthuridae	BZ
		LL/LR: Clown anemonefish, <i>Amphiprion ocellaris</i>	Pomacentridae	BZ
		LL/LR: Yellowface Angelfish, <i>Pomacanthus xanthurus</i>	Pomacanthidae	CZ
		Middle: U/I Lionfish (partial)	Scorpaenidae	BZ
		UR: Queen Triggerfish, <i>Balistes vetula</i>	Balistidae	BZ

OMAN (continued)

LR: Emperor angelfish, <i>Pomacanthus imperator</i>	Pomacanthidae	BZ
LR: Magenta Dottyback (?), <i>Pictichromis porphyria</i>	Pseudochromidae	BZ
LR: Blue Tang, <i>Paracanthurus hepatus</i>	Acanthuridae	CZ
U/I marine reef fish		CZ

PALAU **2019 May 6** (Clearfin Lionfish) (Sht/4, SS/1)

1432a \$2	Radial Firefish (Clearfin Lionfish), <i>Pterois radiata</i> facing RT	Scorpaenidae	A
1432b \$2	Same species (Facing LT)	Scorpaenidae	A
1432c \$2	Same species (Facing RT)	Scorpaenidae	A
1432d \$2	Same species (Facing LT)	Scorpaenidae	A
1432 MS/4	Sc# 1432a-d	Scorpaenidae	A
	U/I marine fish		CZ
1433 SS/1 \$5	Same (Facing RT)	Scorpaenidae	A

2019 June 14 (Palau Conservation Society, 25th. Anniv.) (Sht/6)

1434b 55c	Clown anemonefish (5), <i>Amphiprion ocellaris</i>	Pomacentridae	B
1435d 55c	Humphead Wrasse, <i>Cheilinus undulates</i>	Labridae	A
1435f 55c	Wahoo, <i>Acanthocybium solandri</i> gaffed with boat	Scombridae	B
1434g \$1.20	Stylized fish inside white "2"		S
1434h \$1.20	Stylized fish inside black "2"		S

PAPUA NEW GUINEA **2019 September 25** (Reef Fish) (Set/4, Sht/4, SS/1)

Note: Sc# 1969-1972 have 10 stylized fish (blue) in RT portion of each stamp. Sc# 1973a-d and 1974 have same stylized fish (white) in margin.

1969 1.60k	Tailspot Lizardfish, <i>Synodus jaculum</i>	Synodontidae	A
1970 2k	Scorpionfish sp.	Scorpaenidae	A
1971 5k	Harlequin sweetlips (juvenile), <i>Plectorhinchus chaetodonoides</i>	Haemulidae	A
1972 6.90k	Pink Anemonefish, <i>Amphiprion perideraion</i>	Pomacentridae	A
1973a 4k	Lionfish, <i>Pterois sp.</i>	Scorpaenidae	A
1973b 4k	Rainbow Parrotfish, <i>Scarus guacamaia</i>	Scaridae	A
1973c 4k	Leopard Coralgroup (Coral Trout), <i>Plectropomus leopardus</i>	Serranidae	A
1973d 4k	Valentin's sharpnose puffer (Black-saddled Pufferfish), <i>Canthigaster valentini</i>	Tetraodontidae	A
1974 SS/1 20k	Clown anemonefish, <i>Amphiprion ocellaris</i>	Pomacentridae	A

PENRHYN **20178 December 20** (Birds) (Single, SS/6)

593 \$2	Osprey with U/I fish in talons (White frame line)		CU
593a SS/6	Sc# 588-593600f \$5 Sc# 593 (w/o White frame line)		CU

PHILIPPINES **2019 October 17** (Sorsogon Province, 125th Anniv.) (Single)

3829 12p	Stylized Whale Shark, <i>Rhincodon typus</i>	Rhincodontidae	B
	U/I Stylized fish		C

ROMANIA **2019 September 19** (EFIRO 2019 Philatelic Exhibition Bucharest) (SS1 imperf.)

6321 28.50 I	Romanian King		
	Margin: Stylized fish on 2 LEI Romanian coat of arms		BZ

RUSSIA **2019 August 26** (Academic Archaeology in Russia, Cent.) (Blk or Strip/4)

8060a 40r	U/I Carved fish figurine		AS
-----------	--------------------------	--	----

SINGAPORE**2019 February 4** (Yusheng – Raw Fish Salad) (Single)

1952	\$8	U/I Salmon slices used in salad	Salmonidae	BU
	Margin	U/I Salmon slices	Salmonidae	BZ

2019 November 22 (Goldfish, Ornamental Varieties) (Single, Blk/10)

1999	5c	Goldfish, <i>Carassius auratus</i> , Tosakin variety	Cyprinidae	A
2000	20c	Same, Black Oranda variety	Cyprinidae	A
2001	30c	Same, Ranchu variety	Cyprinidae	A
2002	30c	Same, Telescope Eye Pearlscale variety	Cyprinidae	A
2003	37c	Same, Red Cap Oranda variety	Cyprinidae	A
2004	60c	Same, Short Tail Ryukin variety	Cyprinidae	A
2005	70c	Same, Red Oranda variety	Cyprinidae	A
2006	80c	Same, Butterfly Tail variety	Cyprinidae	A
2007	90c	Same, Bubble Eye variety	Cyprinidae	A
2008	30c	Same, Ranchu variety	Cyprinidae	A
2008a	Blk/10	Sc# 2008		
2009	30c	Same, Telescope Eye Pearlscale variety	Cyprinidae	A
2009a	Blk/10	Sc# 2009		

Note: Sc# 2001-2002, 2008-2009 are inscribed as “1st Local.” Sc# 2002 inscribed “2nd Local.”

SPAIN**2019** (Abbreviations of Spanish Provinces, Type of 2019) (Single)

4328	A	U/I fish in “AL” Almeria design (issued August 1)		BU
------	---	---	--	----

SRI LANKA**2019 October 5** (Fauna of Wasgamuwa National Park) (Single, SS/1)

2198	15r	Ceylonese Combtail (Sri Lanka Combtail), <i>Belontia signata</i> (Perf. 13½ x 12)		
			Osphronemidae	A
2198a	SS/1	Same species (Perf. 13½ x 13¼)	Osphronemidae	A

ST. MARTIN**2020 February 1** (Seven Wonders of the St. Helena) (Set/7)

1160	15p	Whale Shark, <i>Rhincodon typus</i>	Rhincodontidae	A
		U/I Remora, <i>Remora sp.</i>	Echeneidae	B

ST. VINCENT & THE GRENADINES**2019 July 8** (Doctorfish Tang) (Sht/2 pairs, SS/1)

4173a	\$5	Doctorfish, <i>Acanthurus chirurgus</i> (Facing LT)	Acanthuridae	A
4173b	\$6	Same species (Facing RT)	Acanthuridae	A
4173	Sht	Contains 2 of each (Sc# 4173a-b) Margin	Multiple Doctorfish	Acanthuridae BZ
		LL: Threadfin Butterflyfish, <i>Chaetodon auriga</i>	Chaetodontidae	CZ
		U/I reef fish		Z
4174	SS/1 \$14	Same species (Facing LT)	Acanthuridae	A
	Margin	Multiple of same (Facing RT)	Acanthuridae	BZ

TAJIKISTAN**2018 August 6** (Waters for Sustainable Development, Surcharged in Blue) (SS/1)

495	10s on 500r	Amu Darya Sturgeon, <i>Pseudoscaphirhynchus kaufmanni</i>	Acipenseridae	A
-----	-------------	---	---------------	---

TONGA**2019 August 12** (Activities in Tonga) (Set/10)

1364	5s	LL/LR: Stylized U/I reef fish with SCUBA diver		CSU
		R: Stylized Butterflyfish, <i>Chaetodon sedentarius</i>	Chaetodontidae	BS
		Middle: Stylized French Angelfish, <i>Pomacanthus paru</i>	Pomacentridae	BS
1367	30s	LR: Stylized U/I reef fish with snorkeler		CSU
		LL: False Moorish Idol (?), <i>Heniochus diphreutes</i>	Chaetodontidae	BS

TONGA (continued)

1369 50s U/I Stylized fish caught by fisherman BSU

TONGA (NIUAFO'OU) 2019 June 21 (Sharks) (MS/6, SS/1)394a 2.80pa Pelagic Thresher Shark, *Alopias pelagicus* Alopiidae A394b 2.80pa Zebra Shark, *Stegostoma fasciatum* Stegostomatidae A394c 2.80pa Blacktip Reef Shark, *Carcharhinus melanopterus* Carcharhinidae A394d 2.80pa Whale Shark, *Rhincodon typus* Rhincodontidae A394e 2.80pa Scalloped hammerhead, *Sphyrna lewini* Sphyrnidae A394f 2.80pa Shortfin Mako Shark, *Isurus oxyrinchus* Lamnidae A

394 MS/6 U/I Sharks in background U

395 SS/1 9.30pa Great White Shark, *Carcharodon carcharias* Lamnidae A**TRINIDAD & TOBAGO 2019** (Cut Down Sheets of Nos. 848-849 Surcharged) (Sht/10)

952b \$2 on \$1 Fishermen with net of U/I fish BS

952k \$2 on \$1 Sc#952b with inverted surcharge BS

Note: Some Sc# 952k stamps lack revised denomination but all show obliterator bar.

TUVALU 2019 August 12 (Pacific Island Leaders Meeting) (Sht/4)

1451b \$2.50 U/I fish in pile on shore A

2019 September 9 (Orange Skunk Clownfish) (Sht/4)1454a \$2 Orange Skunk Clownfish (Yellow), *Amphiprion sandaracinos* Pomacentridae A

1454b \$3 Same species (Facing RT) A

1454c \$4 Same species (Facing RT) A

1454d \$5 Same species (Facing LT) A

1454 Margin Same species (Facing LT) Z

2019 September 18 (Surgeonfish) (Sht/6)1455a \$1 Powderblue surgeonfish, *Acanthurus leucosternon* Acanthuridae A1455b \$1 Achilles Tang, *Acanthurus achilles* Acanthuridae A1455c \$1.50 Lined Surgeonfish (Striped), *Acanthurus lineatus* Acanthuridae A1455d \$1.50 Blue Tang, *Paracanthurus hepatus* Acanthuridae A1455e \$2 Bluespine Unicornfish, *Naso unicornis* Acanthuridae A1455f \$2 Orangespine Unicornfish (Blonde Naso), *Naso lituratus* Acanthuridae A**UKRAINE 2019 April 26** (Cyrillic Alphabet) (Sht/11)

1209j 8h Stylized fish Cyrillic letter for "J" BS

2019 December 17 (Endangered Fish) (MS/8)

Note: Stylized fish in front of name on Sc# 1236a/c/d/f/g.

1236a 8h Donets Ruffe, *Gymnocephalus acerina* Percidae A1236b 8h Sterlet Sturgeon, *Acipenser ruthenus* Acipenseridae A1236c 8h Crucian Carp, *Carassius carassius* Cyprinidae A1236d 8h Danubian Longbarbel Gudgeon, *Romanogobio uranoscopus* Cyprinidae A1236e 8h Ni common name (Vistula barbel), *Barbus waleckii* Cyprinidae A1236f 8h Burbot, *Lota lota* Lotidae A1236g 8h Lake Minnow, *Rhynchocypris percunurus* Cyprinidae A1236h 8h Danube Streber, *Zingel streber* Percidae A

1236 MS/8 Sc# 1236a-h Margin Stylized fish in front of title SZ

VIET NAM**2019 August 1** (Mekong River Fish) (Set/5, SS/1)

3642	4000d	Giant Barb, <i>Catlocarpio siamensis</i>	Cyprinidae	A
3643	4000d	Scaly Whipray, <i>Brevitrygon walga</i>	Dasyatidae	A
3644	6000d	Mekong Giant Catfish, <i>Pangasianodon gigas</i>	Pangasiidae	A
3645	8000d	No common name, <i>Mystus mysticetus</i>	Bagridae	A
3646	12000d	No common name, <i>Hemibagrus wyckioides</i>	Bagridae	A
3647	SS/1 15000d	Giant Pangasius, <i>Pangasius sanitwongsei</i>	Pangasiidae	A

WALLIS & FUTUNA IS. 2019 October 17 (World Oceans Day) (Horz. Pair + 2 labels)

Note: All fish on Sc# 816 and Labels are stylized.

816	90fr	LL: Unicornfish, <i>Naso sp.</i>	Acanthuridae	BS
		LL: Great White Shark, <i>Carcharodon carcharias</i>	Lamnidae	BS
		LL: Lionfish, <i>Pterois sp.</i>	Scorpaenidae	BS
		LR: Common Dolphinfish, <i>Coryphaena hippurus</i>	Coryphaenidae	BS
		LR: Manta Ray, <i>Mobula sp.</i>	Myliobatidae	BS
		LR: Humphead Wrasse, <i>Cheilinus undlates</i>	Labridae	BS
Label		Banded butterflyfish (?), <i>Chaetodon striatus</i>	Chaetodontidae	S
		Tuna, <i>Thunnus sp.</i>	Scombridae	S

2019 November 7-9 (73rd Philatelic Exhibition, Paris, France)

Note: No Sc# number; issued only at Philatelic Exhibition in Paris, France. Image of stamp in Linn's Stamp News, 20 July 2020, p.81.

500F		Banded-tail Coral-cod, <i>Cephalopholis wallisi</i>	Serranidae	A
------	--	---	------------	---

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

Write for the price list of your choice

EASTERN SHORE STAMP COMPANY

P.O. BOX 204, MIDDLETOWN, DE 19709

e-mail: essc@comcast.net

Phone: (302) 563-2174



ENTOMOLOGY

Editorrs

Don Wright BU243
and Jose Reis BU1889



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AUSTRALIA		2020 May 19 (Citizen Science)		
\$1.10		Stylized Ladybird Beetle. At L	Coccinellidae	B
		Stylized Butterfly. At R	Lepidoptera	B
\$1.10		2 different stylized Butterflies	Lepidoptera	B
\$1.10		Stylized Mosquito represents <i>Aedes aegypti</i> L. and/or <i>A. albopictus</i> Skuse. Both are the zika vectors	CUL, Culicinae	B
BELARUS		2020 August 12 (Beekeeping)		
	P	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
CARIBBEAN NETHERLANDS – Bonaire		2020 July 1		
a	75c	Painted Lady, <i>Vanessa cardui</i> L.	NYM, Nymphalinae	A
b	75c	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A
c	75c	Southern Dogface, <i>Zerene cesonia</i> Stoll	PIE, Coliadae	A
d	75c	Large Skipper, <i>Ochlodes sylvanus</i> Esper	HES, Hesperinae	A
e	75c	Large Canna Skipper, <i>Calpododes ethlius</i> Stoll	HES, Hesperinae	A
CARIBBEAN NETHERLANDS – Saba		2020 July 1		
a	75c	Cassius Blue, <i>Leptotes cassius</i> Cramer	LYC, Polyommatae	A
b	75c	Acis Hairstreak, <i>Strymon acis</i> Drury	LYC, Theclinae	A
c	75c	Great Southern White, <i>Ascia monuste</i> L.	PIE, Pierinae	A
d	75c	Little Yellow, <i>Eurema lisa</i> Boisduval & Leconte	PIE, Coliadae	A
e	75c	Zebra, <i>Heliconius charithonia</i> L.,	NYM, Heliconiinae	A
CARIBBEAN NETHERLANDS – St. Eustatius		2020 July 1		
a	75c	Dorantes Longtail, <i>Urbanus dorantes</i> Stoll	HES, Pyrginae	A
b	75c	Safflower Skipper, <i>Pyrgus carthami</i> Hubner	HES, Pyrginae	A
c	75c	Orange Moth, <i>Angerona prunaria</i> L.	NOC, Ennominae	A
d	75c	Caribbean Buckeye, <i>Junonia evarete</i> Cramer	NYM, Nymphalinae	A
e	75c	Tropical Checkered Skipper, <i>Pyrgus oileus</i> L.	HES, Pyrginae	A
COOK IS		2020		
a	50c	Richmond Birdwing, <i>Troides priamus richmondia</i> Gray	PAP, Papilioninae	A
CYPRUS		2020 February 12		
	34c	Black-veined White, <i>Aporia crataegi</i> L.	PIE, Pierinae	A
	41c	Old World Swallowtail, <i>Papilio machaon</i> L., ♀	PAP, Papilioninae	A
CZECH REPUBLIC		2020		
	B	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	B

ECUADOR	2019 November 22 (Tourism)		
2146f 75c "Butterflies – Zamora"		Pieridae	B
ESTONIA	2020 June 11		
90c Marsh Fritillary, <i>Euphydryas aurinia</i> Rottemburg		NYM, Heliconiinae	A
HUNGARY	2020 August 5 (Natural Assets)		
185ft Spring Dor Beetle, <i>Trycopris vernalis</i> L.		BOL, Bolboceratinae Geotrupidae of some	A
ISRAEL	2019 May 20 (Honey Production)		
a 2.50s Western Honeybee, <i>Apis mellifera</i> L., wildflower honey		API, Apinae	C
b 7.40s Western Honeybee, <i>Apis mellifera</i> L., citrus honey		API, Apinae	C
c 8.30s Western Honeybee, <i>Apis mellifera</i> L., eucalyptus honey		API, Apinae	C
	2020 February 19 (Re-issue of #1885 s/t of 2011 with new date in s/t margin)		
(s) Zeller's Common Blue, <i>Polyommatus icarus zelleri</i> Verity, ♂	LYC, Polyommatinae		A
(s) African Monarch, <i>Danaus chrysippus chrysippus</i> L.	NYM, Danainae		A
(s) Tawny Silverline, <i>Cigaritis acamas acamas</i> Klug	LYC, Theclinae		A
(s) Syrian Old World Swallowtail, <i>Papilio machaon syriacus</i> Verity	PAP, Papilioninae		A
(s) Red Admiral, <i>Vanessa atalanta</i> L.	NYM, Nymphalinae		A
(s) Brown-veined White, <i>Belenois aurota</i> Fabr.	PIE, Pierinae		A
Each of above also appears in the s/t margin			Z
JAPAN	1960 June 19		
j, 84¥ Japanese Rhinoceros Beetle, <i>Allomyrina dichotoma</i> L.		SCA, Dynastinae	A
MALAYSIA	2019 July 18		
1824 \$5 Sarawak #1, s-o-s. No insect			
Margin: Rajah Brooke's Birdwing, <i>Troides brookiana</i> Wallace,		PAP, Papilioninae	Z
Sarawak #180, s-o-s			
MALDIVE IS.	2017 March 16 (Stamperija MLD-17204a&b)		
3318 4x20r Dugongs. Margin UL & LR: Stylized Butterfly		Lepidoptera	Z
3319 4x20r Doves. Margin UL & LR: Stylized Butterfly		Lepidoptera	Z
3320a 20r Crimson-speckled Moth, <i>Utetheisa pulchella</i> L.		ARC, Arctiinae	A
3320b 20r Common Jezebel, <i>Delias eucharis</i> Drury		PIE, Pierinae	A
3320c 20r <i>Racotis boarmiaria</i> Guenee		GEO, Ennominae	A
3320d 20r Dark Blue Tiger, <i>Tirumala septentrionis</i> Butler		NYM, Danainae	A
Margin UL & LR: Stylized Butterfly		Lepidoptera	Z
3821 4x20r Crabs & Lobsters. Margin UL & LR: Stylized Butterfly		Lepidoptera	Z
3822 4x20r Flowers & Trees. Margin UL & LR: Stylized Butterfly		Lepidoptera	Z
3823 4x22r Bats. Margin UL & LR: Stylized Butterfly		Lepidoptera	Z
3824 4x22r Ducks. Margin UL & LR: Stylized Butterfly		Lepidoptera	Z
3825 4x22r Owls & Mushrooms. Margin UL & LR: Stylized Butterfly		Lepidoptera	Z
3826 4x22r Lizards. Margin UL & LR: Stylized Butterfly		Lepidoptera	Z
3827 4x22r Spiders. Margin UL & LR: Stylized Butterfly		Lepidoptera	Z
3828 60r Dugong. Margin UL: Stylized Butterfly		Lepidoptera	Z
3829 60r Duck. Margin UL: Stylized Butterfly		Lepidoptera	Z
3830 60r <i>Hydrillodes lentalis</i> Guenee		NOC, Herminiinae	A

MALDIVE IS. (continued)

Margin UL: Stylized Butterfly	Lepidoptera	Z
ML: <i>Thyas coronata</i> Fabr.	NOC, Catocalinae	Z
Mid-Top: Hummingbird Hawkmoth, <i>Cephonodes hylas</i> L.	SPH, Macroglossinae	Z
Center: Clipper, <i>Parthenos sylvia</i> Cramer	NYM, Limenitidinae	Z
MR: Viceroy, <i>Limenitis archippus</i> Cramer	NYM, Limenitidinae	Z
3831 60r Crab & Lobster. Margin UL: Stylized Butterfly	Lepidoptera	Z
3832 60r Hibiscus flower. Margin UL: Stylized Butterfly	Lepidoptera	Z
3833 70r Bat. Margin UL: Stylized Butterfly	Lepidoptera	Z
3834 70r Duck. Margin UL: Stylized Butterfly	Lepidoptera	Z
3835 70r Owl & Mushroom. Margin UL: Stylized Butterfly	Lepidoptera	Z
3836 70r Lizard. Margin UL: Stylized Butterfly	Lepidoptera	Z
3837 70r Spider. Margin UL: Stylized Butterfly	Lepidoptera	Z

PHILIPPINES 2019 May 15

3812a 12p Common Rose Butterfly, <i>Atrophaneura aristolochiae</i> Fabr.	PAP, Papilioninae	A
3812b 45p Luzon Lacewing, <i>Cethosia luzonica</i> C&R Felder	NYM, Heliconiinae	A
3812c 2x12p & 2x45p #3812a&b in s/t		

SERBIA 2020 April 22 (International Year of Plant Health)

108d Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	C
---	-------------	---

TAJIKISTAN 2018 December 20 (Cactus & Insects)

508a 1.60s Top: Monarch, <i>Danaus sp.</i> , Green wings	NYM, Danainae	B
Ctr: A Birdwing Butterfly, <i>Troides sp.</i>	PAP, Papilioninae	B
508b 2.50s UL: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	B
R: Butterfly	Nymphalidae	B
Bottom: Ants	Formicidae	B
508c 3.50s Top: 2 Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	B
Bottom: Ants	Formicidae	B
508d 5s Top: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	B
R: <i>Danaus sp.</i>	NYM, Danainae	B
Bottom: Ants	Formicidae	B

2019 July 2 (Mushrooms)

514 3.50s Grasshopper. At top	Acrididae	B
LL: Blue Morpho, <i>Morpho rhetenor</i> Cramer.	NYM, Morphinae	B
UR: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	B
LR: Butterfly, ?? <i>Troides sp.</i>	PAP, Papilioninae	B
515 4.20s Monarch, <i>Danaus plexippus</i> L. At UL. Colored green	NYM, Danainae	B
At M-Top: Butterfly	Nymphalidae	B
516 5.80s Monarch, <i>Danaus plexippus</i> L. At UL & UR	NYM, Danainae	B
At M-Top: Damselfly	Odonata	B

BEYOND THE CATALOGS. Issues of doubtful validity**CENTRAL AFRICAN REP. 2019 November 21 (Stamperija CA190910a&b)**

a, 850fr Tawny Emperor, <i>Asterocampa clyton</i> Boisduval & Leconte	NYM, Apaturinae	A
b, 850fr Gulf Fritillary, <i>Agraulis vanillae</i> L.	NYM, Heliconiinae	A

- c, 850fr Blue Wave, *Myscelia ethusa* Doyere NYM, Biblidinae A
 d, 850fr Red-bordered Pixe, *Melanis pixe* Boisduval RIO, Riodininae A
 3300fr Mourning Cloak, *Nymphalis antiopa* L. NYM, Nymphalinae A
 Margin: Common Buckeye, *Junonia coenia* Hubner NYM, Nymphalinae Z

2020 January 27 (Stamperija CA-200112a&b)

- a 850fr Common Blue, *Polyommatus icarus* Rottemburg LYC, Polyommatinae A

CHAD

2020 (Stamps on Stamps) (Stamperija TCH-200311b09)

- 1000fr Monarch, *Danaus plexippus* L. Mexico #1561 s-o-s NYM, Danainae A

DJIBOUTI

2020 February 27 (Stamperija DJB-200117a&b)

- a, 250fr Cairns Birdwing, *Ornithoptera priamus euphorion* Gray PAP, Papilioninae A
 b, 250fr Painted Lady, *Vanessa cardui* L. NYM, Nymphalidae A
 c, 250fr Malabar Tree Nymph, *Idea malabarica* Moore NYM, Danainae A
 d, 250fr Indian Crow, *Euploea core* Cramer PAP, Papilioninae A
 1000fr Tiger Heliconian, *Heliconius ismenius* Latreille NYM, Heliconiinae A
 Margin: Old World Swallowtail, *Papilio machaon* L. PAP, Papilioninae Z

2020 March 13 (Stamperija DJB-200217a&b)

- a, 250fr Builder Bee, *Osmia cornuta* Latreille MEG, Megachilinae A
 b, 250fr Long-horned Mining Bee, *Eucera longicornis* L. API, Apinae A
 c, 250fr Kirby's Nomad Bee, *Nomada subcornuta* Kirby API, Nomadinae A
 d, 250fr Violet Carpenter Bee, *Xylocopa violacea* L. API, Xylocopinae A
 1000fr Northern White-tailed Bumblebee, *Bombus magnus* Vogt API, Apinae A
 Margin: Western Honeybee, *Apis mellifera* L. API, Apinae Z

GUINEA

2020 April 28 (Stamperija GU-200112a&b)

- a, 12,500fr Monarch, *Danaus plexippus* L. NYM, Danainae A
 b, 12,500fr Banded Peacock, *Papilio palinurus* Fabr. PAP, Papilioninae A
 c, 12,500fr Scarce Swallowtail, *Iphiclides podalirius* L. PAP, Papilioninae A
 d, 12,500fr Clipper, *Parthenos sylvia* Cramer NYM, Limenitidinae A
 50,000fr Forest Giant Owl Butterfly, *Caligo eurilochus* Cramer NYM, Morphinae A
 Margin: Giant Swallowtail, *Papilio cresphontes* Cramer PAP, Papilioninae Z

GUINEA-BISSAU

2020 February 27 (Stamperija GU-200204a&b)

- a, 300fr *Rhodanthidium sticticum* Fabr. MEG, Megachilinae A
 b, 300fr Violet Carpenter Bee, *Xylocopa violacea* L. API, Xylocopinae A
 c, 300fr Common Carder Bee, *Bombus pascuorum* Scopoli API, Apinae A
 d, 300fr Buff-tailed Bumblebee, *Bombus terrestris* L. API, Apinae A
 3300fr Little Honeybee, *Apis florea* Fabr. API, Apinae A
 Margin: many Western Honeybees, *Apis mellifera* L. API, Apinae Z

2020 April 27 (Stamperija GB-200304a&b)

- a, 100fr Painted Lady, *Vanessa cardui* L. NYM, Nymphalinae A
 b, 500fr Peacock, *Nymphalis io* L. NYM, Nymphalinae A
 c, 750fr Clouded Apollo, *Parnassius mnemosyne* L. PAP, Parnassiinae A
 d, 1500fr Common Blue, *Polyommatus icarus* Rottemburg LYC, Polyommatinae A
 3000fr Orange Tip, *Anthocharis cardamines* L. PIE, Pierinae A
 Margin: Many Monarchs, *Danaus plexippus* L. NYM, Danainae Z

LIBERIA**2020 March 6** (Stamperija LIB-200226a&b)

a, \$300	Western Honeybee, <i>Apis mellifera</i> L.	Also in margin	API, Apinae	A
b, \$300	Rusty-patched Bumblebee, <i>Bombus affinis</i> Cresson		API, Apinae	A
c, \$300	Buff-tailed Bumblebee, <i>Bombus terrestris</i> L.		API, Apinae	A
d, \$300	Eastern Carpenter Bee, <i>Xylocopa virginica</i> L.		API, Xylocopinae	A
a, \$600	Neon Cuckoo Bee, <i>Thyreus nitidulus</i> Fabr.		API, Xylocopinae	A
b, \$600	Gray Mining Bee, <i>Andrena cineraria</i> L.		AND, Andreninae	A
	Margin UL: European Wool Carder Bee, <i>Anthidium manicatum</i> L.		MEG, Megachilinae	A
	LL: Violet Carpenter Bee, <i>Xylocopa valga</i> Gerstaecker		API, Xylocopinae	A
	UR: Hairy Carpenter Bee, <i>Xylocopa pubescens</i> Spinola		API, Xylocopinae	A
	LT: Blue-banded Bee, <i>Amegilla cingulata</i> Fabr.		API, Apinae	A

2020 March 26 (Stamperija LIB-200227a&b)

a, \$300	Colorado Potato Beetle, <i>Leptinotarsa decemlineata</i> Say		CHRY, Chrysomelinae	A
b, \$300	<i>Lygostopterus sanguineus</i> L.		Lycidae, Calochrominae	A
c, \$300	Forest Dung Beetle, <i>Anoplotrupes stercorosus</i> Scriba		GEOT, Geotrupinae	A
d, \$300	Rose Chafer, <i>Cetonia aurata</i> L.		SCA, Cetoniinae	A
	Margin: European Stag Beetle, <i>Lucanus cervus</i> L.		LUC, Lucaninae	Z
a, \$600	5-horned rhinoceros beetle, <i>Eupatorus gracilicornis</i> Arrow		SCA, Scarabaeidae	A
b, \$600	7-spotted Ladybird, <i>Coccinella septempunctata</i> L.		COC, Coccinellinae	A
	Margin: Lesser Stag Beetle, <i>Dorcus parallelipipedus</i> L.		LUC, Lucaninae	Z

MALDIVE IS.**2020 July 19** (Stamperija MLD-191207a&b)

a, 20r	Black Citrus Swallowtail, <i>Papilio polytes</i> L.		PAP, Papilioninae	A
b, 20r	Zebra Swallowtail, <i>Protographium marcellus</i> Cramer		PAP, Papilioninae	A
c, 20r	Spotted Fritillary, <i>Melitaea didyma</i> Esper		NYM, Nymphalinae	A
d, 20r	Viceroy, <i>Limenitis archippus</i> Cramer		NYM, Limenitidinae	A
60r	Marbled White, <i>Melanargia galathea</i> L.		NYM, Satyrinae	A
	Margin LL: Old World Swallowtail, <i>Papilio machaon</i> L.		PAP, Papilioninae	Z
	UR: Green Swallowtail, <i>Papilio neumoegeni</i> Honrath		PAP, Papilioninae	Z

MOZAMBIQUE**2020 April 15** (Stamperija MOZ-200101a&b)

a, 90.50m	False Zebra Longwing, <i>Heliconius atthis</i> Doubleday		NYM, Heliconiinae	A
b, 90.50m	Montane Phantom, <i>Pseudohaetera hypaesia</i> Hewitson		NYM, Satyrinae	A
c, 90.50m	<i>Euptychoides albofasciata</i> Hewitson		NYM, Satyrinae	A
d, 90.50m	Marbled White, <i>Melanargia galathea</i> L.		NYM, Satyrinae	A
362m	Common Posy, <i>Drupadia ravindra</i> Horsfield		LYC, Theclinae	A
	Margin: Old World Swallowtail, <i>Papilio machaon</i> L.		PAP, Papilioninae	Z

2020 April 15 (Stamperija MOZ-200102a&b)

a, 90.50m	Buff-tailed Bumblebee, <i>Bombus terrestris</i> L.		API, Apinae	A
b, 90.50m	Red-tailed Bumblebee, <i>Bombus lapidarius</i> L.		API, Apinae	A
c, 90.50m	Blue Orchard Bee, <i>Osmia lignaria</i> Say		MEG, Megachilinae	A
d, 90.50m	Common Eastern Bumblebee, <i>Bombus impatiens</i> Cresson		API, Apinae	A
362m	Red Mason Bee, <i>Osmia bicornis</i> L.		MEG, Megachilinae	A
	Margin UL: Western Honeybee, <i>Apis mellifera</i> L.		API, Apinae	Z
	LR: Ivy Bee, <i>Colletes hederiae</i> Schmidt & Westrich		COL, Colletinae	Z

NIGER**2020 March 25** (Stamperija NIG-200106a&b)

a, 800fr	Orange Tip, <i>Anthocharis cardamines</i> L.	PIE, Pierinae	A
b, 800fr	Checkered Skipper, <i>Carterocephalus palaemon</i> Pallas	HES, Heteropterae	A
c, 800fr	Pipevine Swallowtail, <i>Battus philenor</i> L.	PAP, Papilioninae	A
d, 800fr	Small Blue, <i>Cupido minimus</i> Fuessly	LYC, Polyommatae	A
3300fr	Peacock, <i>Nymphalis io</i> L., with larva	NYM, Nymphalinae	A
	Margin UR: Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	Z
	LR: Orange Tip, <i>Anthocharis cardamines</i> L., larva	PIE, Pierinae	Z

2020 March 25 (Stamperija NIG-200115a&b)

a, 800fr	Bed Bug, <i>Cimex lectularius</i> L.	CIM, Cimicinae	A
b, 800fr	Southern Green Stink Bug, <i>Nezara viridula</i> L.	PEN, Pentatominae	A
c, 800fr	European Corn Borer, <i>Ostrinia nubilalis</i> Hubner	CRAM, Pyraustinae	A
d, 800fr	Mottled Shield Bug, <i>Rhaphigaster nebulosa</i> Poda	PEN, Pentatominae	A
3300fr	Green Stink Bug, <i>Palomena prasina</i> L.	PEN, Pentatominae	A
	Margin: Brown Marmorated Stink Bug, <i>Halyomorpha halys</i> Stål	PEN, Pentatominae	Z

ST. THOMAS & PRINCE IS.**2020 March 13** (Stamperija ST-200212a&b)

a, 31d	<i>Pseudochazara pelopea</i> Klug	NYM, Satyrinae	A
b, 31d	<i>Gonepteryx maxima</i> Butler	PIE, Coliadinae	A
c, 31d	Eastern Pale Clouded Yellow, <i>Colias erate</i> Esper	PIE, Coliadinae	A
d, 31d	Purple Emperor, <i>Apatura iris</i> L.	NYM, Apaturidae	A
124d	<i>Sephisa princeps</i> Fixsen	NYM, Apaturinae	A
	Margin UL: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z
	LR: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	Z

2020 March 13 (Dinosaurs) (Stamperija ST-200215a)

b, 31d	<i>Darwinilus sedarisi</i> Chatzimanolis	STA, Staphylinae	A
--------	--	------------------	---

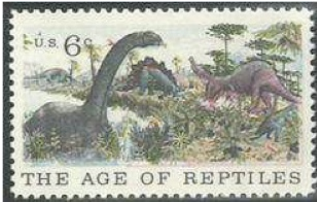
SIERRA LEONE**2020 February 27** (Stamperija SRL-200215a&b)

a, 12,500Le	Mourning Cloak, <i>Nymphalis antiopa</i> L.	NYM, Nymphalinae	A
b, 12,500Le	European Skipper, <i>Thymelicus lineola</i> Ochsenheimer	HES, Hesperinae	A
c, 12,500Le	Orange Tip, <i>Anthocharis cardamines</i> L.	PIE, Pierinae	A
d, 12,500Le	Marbled White, <i>Melanargia galathea</i> L.	NYM, Satyrinae	A
50,000Le	Red Admiral, <i>Vanessa atalanta</i> L. Also in LR margin	NYM, Nymphalinae	AZ
	Margin: Mustard White, <i>Pieris napi</i> L. UL: Adult, UR: larva	PIE, Pierinae	Z

TOGO**2019 November 5.** (Stamperija TG-190556a&b) (Fossils)

b, 800fr	<i>Misofaeschnidium densum</i> Hagen	Caption: <i>Meganeura monyi</i>	Aeschnidiidae B
----------	--------------------------------------	---------------------------------	-----------------

See the article on page 190 about the conversation with Dr. Gunther Bechly about this Togo stamp and the fossil dragonfly.



PALEONTOLOGY

Editor

Michael Kogan, BU1863



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ARMENIA				
2020 June 16 (Flora and fauna of the ancient world (IV)) Set/2				
	230 dram	† <i>Basilosaurus</i>	†Basilosauridae	
	280 dram	† <i>Diplodocus</i>	†Diplodocidae	

Really pity that 3 of 4 stamp sets "Flora and fauna of the ancient world" issued in Armenia since 2017 shows prehistoric animals which never roamed the territory of the country.



AUSTRALIA	2020 August 17 (Opalized Fossils) Set/4
\$1.10	– Opalized pine cone. Lightning Ridge, NSW Pinaceae A
\$1.10	– Opalized theropod tooth. Lightning Ridge, NSW
\$1.10	– Opalized moon snail. Coober Pedy, SA
\$1.10	– Opalized wood. Koroit, QLD

ROMANIA **2020 June 18** (Institute Of Speleology 'Emil Racovita' A Century Of Research) Set/4
Set of 4 stamps. Two stamps depicting some cave landscapes. Other two are:

3.30L	– Cave painting of Woolly Rhinos, † <i>Coelodonta antiquitatis</i>	Rhinocerotidae	A
8.50L	– Skull of Cave Bear, † <i>Ursus spelaeus</i>	Ursidae	A

As usual, recent Romain stamps are very expensive. Total face value of all four stamps in the set is



28.80Leu ~ 7.4USD. The FDC sold by Romanian Post for 16.2USD (!). To attract collectors, Romanian Post issued these stamps not only in sheets of 32, but also in Mini-Sheets of with some nice illustration on the margins. This set of Mini-Sheets has a price of 29.60USD

RUSSIA **2020 June 03** (Paleontological Heritage of Russia) Set/4

40r	- Inostrancevia, † <i>Inostrancevia alexadri</i>	†Gorgonopsidae	A
40r	- Russian pliosaurus, † <i>Pliosaurus rossicus</i>	†Pliosauridae	A
40r	- Woolly mammoth, † <i>Mammuthus primigenius</i>	Elephantidae	A
40r	- Giant Deer, † <i>Megaloceros giganteus</i>	Cervidae	A

Issued as Mini-sheet of two sets. The Mini-Sheet in Souvenir folder contain stamp of type 2 (as defined by Russian Post). When you pass your finger over skulls of the animals on M/S type 2, you feel kind of sand/stone over it. This set is the first stamps set of Russia dedicated to prehistoric animals, hopefully not the last one. These stamps shows a large variety of prehistoric animals from different eras of the Earth's geological history that have been found in rocks in the territory of modern-day Russia. Fossils of

depicted animals are on display in Paleontologic Museum in Moscow.

Official press releases of the museum and Russian Post are, unfortunately, very brief. Therefore I wrote very verbose article about these stamps, as some animals such as *Inostrancevia alexadri* and *Pliosaurus rossicus* are unique to Russia and appeared on stamps for the first time:

http://www.paleophilatelie.eu/description/stamps/russia_2020.html

There are six commemorative postmarks issued by Russian Post for FDC. All of the same design (see in Postmarks section) but introduced in different cities: Moscow, St. Petersburg, Orenburg, Saratov, Yaroslavl, Sevastopol (Sevastopol is the largest city on the Crimean Peninsula and a major Black Sea port. Since annexing Crimea in 2014, the Russian Federation has administered Sevastopol as a federal city. Nevertheless, Ukraine and most of the UN member countries continue to regard Sevastopol as a city with special status within Ukraine.)



More details are in Postmarks section.

CENTRAL AFRICAN REPUBLIC (CAR)

2020 April 27 (Fossils) Set/4, S/S 1 [*1]

850fr - † <i>Mesolimulus walchi</i>	Limulidae	A
850fr - <i>Crocodylus niloticus</i>	Crocodylidae	A
850fr - † <i>Zhenyuanlong suni</i>	†Dromaeosauridae	A
850fr - † <i>Vampyronassa rhodanica</i>	†Vampyroteuthidae	A
S/S 3300fr - † <i>Harpoceras elegans</i>	†Hildoceratidae	A
Margin: † <i>Amphistium paradoxum</i>	†Amphistidiidae	A Z

CHAD

2020 March 30 (Dinosaurs) MS/4, SS/1 [*1]

800fr - † <i>Dimetrodon limbatus</i>	†Sphenacodontidae	A
--------------------------------------	-------------------	---

(An extinct genus of non-mammalian synapsids, not a Dinosaur at all around 295–272 million years ago. Extinct 30 million years before the first Dinosaur appeared on the Earth)

800fr - † <i>Parasaurolophus walkeri</i>	†Hadrosauridae	A
800fr - † <i>Chasmosaurus belli</i>	†Ceratopsidae	A
800fr - † <i>Spinosaurus aegyptiacus</i>	†Spinosauridae	A
S/S 3300fr - † <i>Tsintaosaurus spinorhinus</i>	†Hadrosauridae	A
Margin: † <i>Tyrannosaurus rex</i>	†Tyrannosauridae	A Z

DJIBOUTI

2020 February 27 (Dinosaurs) MS/4, SS/1 [*1]

250 FD - † <i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
250 FD - † <i>Spinosaurus aegyptiacus</i>	†Spinosauridae	A
250 FD - † <i>Velociraptor mongoliensis</i>	†Dromaeosauridae	A
250 FD - † <i>Tarbosaurus bataar</i>	†Tyrannosauridae	A
S/S 1000FD - † <i>Triceratops horridus</i>	†Ceratopsidae	A
Margin: † <i>Tyrannosaurus rex</i>	†Tyrannosauridae	AZ
† <i>Velociraptor mongoliensis</i>	†Dromaeosauridae	AZ

GUINEA-BISSAU	2020 February 27 (Prehistoric humans) Set/3, S/S 1 [*1]		
1100fr - † <i>Homo neanderthalensis</i>		Hominidae	A
1100fr - † <i>Homo georgicus</i>		Hominidae	A
1100fr - † <i>Homo habilis</i>		Hominidae	A
S/S 3300fr - † <i>Australopithecus africanus</i>		Hominidae	A
Margin: † <i>Homo neanderthalensis</i> , stone tools		Hominidae	AZ
LIBERIA	2020 March 26 (Extinct species) MS/2 & MS/4 [*1]		
\$600 - † <i>Kaprosuchus saharicus</i>		†Mahajangasuchidae	
\$600 - † <i>Carcharocles megalodon</i>		†Otodontidae	
Margin: † <i>Deinotherium giganteum</i>		†Deinotheriidae	
† <i>Purgatorius unio</i>		Indeterminate	
† <i>Equus scotti</i>		Equidae	
† <i>Entelodon magnus</i>		†Entelodontidae	
\$300 - † <i>Purgatorius unio</i>		Indeterminate	A
\$300 - † <i>Equus scotti</i>		Equidae	A
\$300 - † <i>Entelodon magnus</i>		†Entelodontidae	A
\$300 - † <i>Deinotherium giganteum</i>		†Deinotheriidae	A
Margin: † <i>Kaprosuchus saharicus</i>		†Mahajangasuchidae	Z
† <i>Carcharocles megalodon</i>		†Otodontidae	Z
MALDIVES	2020 April 12 (Prehistoric water animals) MS/4, SS1/) [*1]		
20r - † <i>Archelon ischyros</i>		†Protostegidae	A
20r - † <i>Shonisaurus popularis</i>		†Shonisauridae	A
20r - † <i>Elasmosaurus platyurus</i>		†Elasmosauridae	A
20r - † <i>Anomalocaris canadensis</i>		†Anomalocarididae	A
S/S 60r - † <i>Helicoprion bessonowi</i>		†Helicoprionidae	A
Margin: † <i>Elasmosaurus platyurus</i>		†Elasmosauridae	AZ
	2020 July 23 (Dinosaurs) MS/4, SS/1 [*1]		
22r - † <i>Dilophosaurus wetherilli</i>		†Dilophosauridae	A
22r - † <i>Tyrannosaurus rex</i>		†Tyrannosauridae	A
22r - † <i>Stegosaurus stenops</i>		†Stegosauridae	A
22r - † <i>Parasaurolophus walker</i>		†Hadrosauridae	A
S/S 70r - † <i>Triceratops horridus</i>		†Ceratopsidae	A
Margin: † <i>Tyrannosaurus rex</i>		†Tyrannosauridae	A
† <i>Parasaurolophus walker</i>		†Hadrosauridae	A
† <i>Dilophosaurus wetherilli</i>		†Dilophosauridae	A
NIGER	2020 March 25 (Flying dinosaurs) [*3] Set/4, SS/1 [*1]		
800fr - † <i>Pterodactylus antiquus</i>		Suborder:†Pterodactyloidea	A
800fr - † <i>Pterodactylus antiquus</i>		Suborder:†Pterodactyloidea	A
800fr - † <i>Anhanguera blittersdorffi</i>		†Anhangueridae	A
800fr - † <i>Dsungaripterus weii</i>		†Dsungaripteridae	A
S/S 300fr - † <i>Eudimorphodon ranzii</i>		†Eudimorphodontidae	A
Margin: † <i>Pterodactylus antiquus</i>		Suborder:†Pterodactyloidea	Z
SÃO TOMÉ AND PRÍNCIPE	2020 March 13 (Flying dinosaurs) [*3] (MS/4, SS/1 [*1]		
Db 31,00 - † <i>Anhanguera blittersdorffi</i>		†Anhangueridae	A
Db 31,00 - † <i>Pterodactylus antiquus</i>		Suborder:†Pterodactyloidea	A

SÃO TOMÉ AND PRÍNCIPE (continued)

Db 31,00 - † <i>Peteinosaurus zambelli</i>	Suborder:†Pterodactyloidea	A
Db 31,00 - † <i>Pterodactylus antiquus</i>	Suborder:†Pterodactyloidea	A
S/S Db 124,00 - † <i>Thalassodromeus sethi</i>	Suborder:†Pterodactyloidea	A
Margin: † <i>Pterodactylus antiquus</i>	Suborder:†Pterodactyloidea	Z

2020 March 13 (Charles Darwin) MS/4, SS/1 [*1]

Db 31,00 – Charles Darwin and <i>Darwinilus sedarisi</i>	Staphylinidae	B
Db 31,00 – † <i>Velociraptor mongoliensis</i>	†Dromaeosauridae	A
Db 31,00 – † <i>Dalmanites myops</i>	†Dalmanitidae	A
Db 31,00 - Charles Darwin and <i>Geospiza magnirostris</i>	Thraupidae	B
S/S Db 124,00 - Charles Darwin and HMS Beagle		
Margin: † <i>Mylodon darwini</i>	†Mylodontidae	Z

SIERRA LEONE 2020 February 27 (Flying dinosaurs) [*3] Set/4, SS/1 [*1]

Le 12500 – † <i>Azhdarcho lancicollis</i>	†Azhdarchidae	A
Le 12500 – † <i>Arambourgiania philadelphiae</i>	†Azhdarchidae	A
Le 12500 – † <i>Quetzalcoatlus northropi</i>	†Azhdarchidae	A
Le 12500 – † <i>Pedopenna daohugouensis</i>	†Anchiornithidae	A
S/S Le 50000 - † <i>Longisquama insignis</i>	Indeterminate	
Margin: † <i>Sharovipteryx mirabilis</i>	†Sharovipterygidae	Z

Stamps of private post companies

Nothing to report this time

Personalized stamps**Iran 2020 July** “Stone age”

The National Museum of Teheran (Iran) issued a set with a number of stamps showing artifacts of their huge collection in 2019. Three stamps are related to the stone age. The stamps themselves are ornamental labels, as on the image at right. More information and images coming soon.

**Other stamps to consider****Spain 2020 May 29** “Minerals - Jet”

“A” rate equal to €0.65 – Jet

The famous Asturian jet (also called black amber) is an organic gemstone, highly valued for its excellent cutting qualities, and attaining a typical shine and intense black colour after polishing.



Specialist studies determine that the woody material, which becomes a humic carbon, perihydrogenated during the Kimmeridgian age (Late Jurassic) around 155 million years ago, underwent particular circumstances while it formed, such as impregnation with hydrocarbons, which gives it some of its unique features and exceptional stability for use in jewellery making.

Postmarks

ARMENIA 2020 June 16 "Flora and fauna of the ancient world (IV)" used on FDC.

Skulls of the same animals as depicted on stamps (*Basilosaurus* and *Diplodocus*) shown on the postmark with text on Armenian and English.

JAPAN 2020 May 08 “Mifune Landscape”

New landscape postmark of Japan, introduced on May 8th 2020 in Mifune town (population of 17,000) - Kamimashiki District, Kumamoto Prefecture. The postmark shows a waterfall and skull of a "Mifune" dinosaur. A tooth of a carnivorous dinosaur discovered at the town in 1979. It became famous as Japan's first carnivorous dinosaur fossil (common name: Mifneryu), perhaps relative of *Allosaurus*. Later on many other fossils and footprints of dinosaurs and pterosaurs found at the place. On April 1998 "Mifune Dinosaur Museum" established in the town.



RUSSIA 2020 June 03 “Paleontological Heritage of Russia” used on FDC.

Six postmarks with the same are introduced. According to "MARKA" company, who is responsible for production of stamps and other philatelic materials in Russia, the cities for cancellation were selected according to the areas where the remains of animals depicted on stamps are found. The cancellation of every issued stamp is carried out in Moscow, regardless of the issue topic. In St. Petersburg, as in a city of federal significance, therefore most cancellations are also carried out in the city. The approval of cities for cancellation, except for Moscow, is also associated with applications from the main post offices of cities.



- Moscow - main Paleontologic Museum of Russia located in Moscow. Fossils of all animals depicting on the stamps are on show there.
- St. Petersburg - St. Petersburg was a capital of Russia between 1712 and 1918 and hosted the main Paleontologic collection of the country during this time. The first Natural History Museum of Russia - Kunstkamera, was established by Peter I in St. Petersburg. There are also big Paleontologic collections in the Zoological Museum of St. Petersburg.
- Orenburg - braincase of *Inostrancevia* unearthed in the region, that allowed Leonid Petrovich Tatarinov to define the new *Inostrancevia* species *Inostrancevia uralensis* in 1974. However, a much bigger and important discovery of Permian fauna fossils was made by Vladimir Prokhorovich Amalitskii in 1899 in the Archangelsk region. Moreover, *Inostrancevia* on one of the stamps is *Inostrancevia alexandri*, a species found and described by Amalitskii.
- Saratov - fossil of *Pliosaurus rossicus* found in 1945 in shale mine near the village of Ozinki near Saratov city. The second species of Russian Plisoaurs, *Pliosaurus irgisensis* was found in March 1933 in the Savelievsky mine, near Saratov city too. Unfortunately its fossils are destroyed due to bad storage condition during World War II.
- Yaroslavl - fossils of Mammoth found in many locations across Russia include Yaroslavl region, but the most important discoveries of Mammoth fossils were made in Siberia at Yakutsk region.
- Sevastopol [1] - fossils of *Megaloceras* (great deer) found in many locations across Russia as well as in occupied Crimean Peninsula. The cancelation there is probably political motivated. The most important discoveries of *Megaloceras* fossils in Russia made near Yekaterinburg and Ryzan cities.

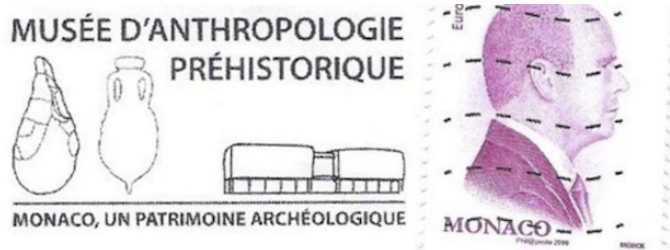
More details and images of official and personalized FDCs associated with the stamp set are here:

http://www.paleophilatelie.eu/description/stamps/details/russia_2020_fdc.html

Other postmarks to consider

Monaco 2020 June 05 “Museum of Prehistoric Anthropology” On June 5th 2020 Post of Monaco introduced new permanent postmark that shows a building and some artifacts of the museum.

The Museum of Prehistoric Anthropology is located within the Jardin Exotique de Monaco. It was opened in 1902 and contains a collection of fossils and other excavated artifacts relating to the prehistory of Monaco and areas nearby.



Future issues

Nothing known on the moment

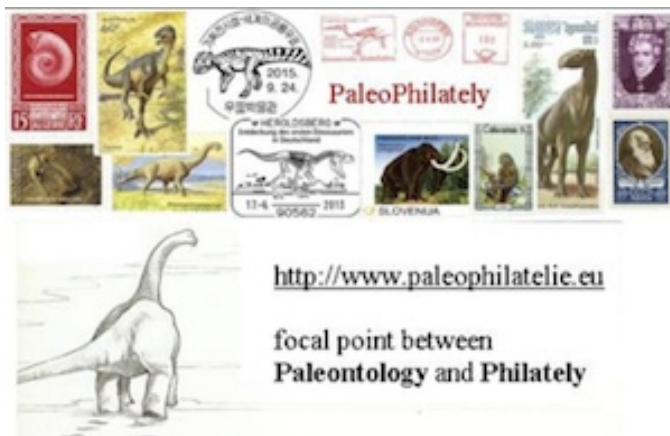
Notes:

[*1] - Commercial issue: stamps are issued with only one purpose - to sell for collectors. Stamps of countries who issued too many or too expensive stamps. Not recommended for serious collectors.[

[*3] It is very common error by Stamperija who produce these stamps. Dinosaurs per definition are terrestrial animals. The flying reptiles called Pterosaurs. Correct title of this set should be just “Pterosaurs”.

If you know about any recent or feature Paleontology related stamp not listed above, please send a short message to our Associated Editor Mr. Michael Kogan admin@paleophilatelie.eu or per post to the magazine, address is on the beginning of the magazine.

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



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

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

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

Contact: admin@paleophilatelie.eu

Join us on Facebook: PaleoPhilately group



BIOLOGY REFERENCE WEBSITES

This section contains a listing of web links to on-line references relating to biology topics on stamps and general philatelic information. We are providing this information to assist members in research and not to endorse the sites listed in any way. If readers know of, or use other useful sites, please send the links to your editor and we will include them in future editions. New or changed entries since the last publication are indicated with an asterisk (*).

STAMP ISSUES

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

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

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

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

Delcampe. Worldwide listings and illustrations of stamps for sale. They have revised their website to make it more user-friendly. *http://www.delcampe.net/en_GB/marketplace/stamps/*

eBay. Worldwide listings and illustrations of stamps, covers, postcards, and other collectibles for sale. *<http://www.ebay.com/>*

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

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

Neofila. Modern issues from Russia, Eastern Europe, and Baltic States. Also includes some African countries. *<http://www.neofila.com/>*

Stamp Collection. On-line postage stamp catalogue of worldwide issues. Includes production information. *<http://colnect.com/en/stamps/countries>*

Stamperija. Listings and illustrations of thematic issues from countries located in Africa, Asia, and Oceania produced by Stamperija, Ltd., under contract to several postal administrations. Requires registration, login. *<http://www.stamperija.eu/>*

Stamp World. Listings and illustrations of issues from all countries by year. Includes production information. Requires free registration and login. *<http://www.stampworld.com/en/maps/Europe/>*

Virtual Stamp Club. Latest news from the world of stamp collecting. Links to other stamp collecting sites and the websites of almost every other collector society or major club.

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

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

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

GENERAL

American Philatelic Society. Listings of dealers, local clubs, stamp shows, and other philatelic events. *<http://stamps.org/>*

American Topical Association. Topical collecting and exhibiting information, youth activities, checklists. *<https://americantopical.org>*

Collect 4 All. Listings of stamps for sale by country and theme. Includes spectrum of animal stamps. *<http://www.collect4all.com/>*

Exploring Stamps. Interesting and professional videos produced by videographer Graham Beck on all sorts of stamp collecting topics.

<https://www.youtube.com/channel/UCkeSM6aOWfaUPIGb5rPOGyA>

The Philatelist. A blog by a philatelic journalist in Portugal. Displayed in several selectable languages. Contains current philatelic news stories and links to archives with past stories. Also

includes links to dozens of other world-wide philatelic websites. Philatelic publication reviews.

<http://o-filatelistablogspot.com/>

Tree of Life Web Project. Worldwide collaborative effort to map the genome of every organism on earth and to establish their relationships to one another. *<http://www.tolweb.org/tree>*

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

<http://zipcodezoo.com/>

BOTANY:

Fungal Biodiversity Institute. 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>

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>*

Bug Guide. Identification, images, and information for insects, spiders, and their kin for the United States and Canada. *<https://bugguide.net/node/view/15740>*

Cerambycidae. Species listing and illustrations of Cerambycidae of the West Palearctic Region organized by subfamily and tribe. *<http://www.cerambyx.uochb.cz/>*

Entomological Data Information System. Internet links to many worldwide websites dealing with biology and ecology, especially Lepidoptera. *<http://www.insects-online.de/linkfram.htm>*

Entomology Today. Entomological Society of America site reporting interesting discoveries in insect science, entomological society news and events, and related articles.

<https://entomologytoday.org/>

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>

Natural History Museum. British site containing Lepidoptera generic names and type species listings. *<http://www.nhm.ac.uk/our-science/data/butmoth/>*

Odonata Society. German site containing listings of Odonata species found in Europe (in German).

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

World Bee Genera. UC Riverside site containing listing of all bee generic names and synonyms by family and subfamily current as of September 2007.

<http://cache.ucr.edu/~heraty/beepage.html>

HERPETOLOGY:

AmphibiaWeb. Provides access to information on amphibian declines, conservation, natural history, and taxonomy. Includes an on-line database of species and links to many related sites.

<http://amphibiaweb.org/index.html>

The Reptile Database. Uetz, P. (Ed.). Taxonomic database that provides basic information about all living reptile species, such as turtles, snakes, lizards, and crocodiles, as well as tuataras and amphisbaenians. It does not include dinosaurs. <http://reptile-database.reptarium.cz/>

Society of the Study of Amphibians and Reptiles. Website devoted to herpetology research and conservation. Database of North American species names. <https://ssarherps.org/>

Turtle Meter Stamps. Updated website containing a worldwide catalog of meter stamps and meter marks that depict turtles and tortoises based on the owners collection of more than 220 items. There is an image of each meter with some short comments on its use and scarcity in English, Italian, and French. <http://turtlemeterstamp.altervista.org/>

World-Wide List of Turtles and Tortoises on Stamps. This on-line listing was produced by Donald N. Riemer, a former member of the Biology Unit and contributor to this journal, who passed away in June 2012. The site contains a checklist of stamps by country along with appendixes listing labels, cinderellas, turtle look-alike stamps, and post offices with “turtle” or “tortoise” in their name. <http://www.personal.psu.edu/crr2/turtstmp/>

ICHTHYOLOGY:

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

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

Burke Museum Ichthyology. Database of the museum’s archival collection of more than 11 million specimens.

<http://www.burkemuseum.org/research-and-collections/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 National Museum of Natural History.

<http://vertebrates.si.edu/mammals/index.html>

ORNITHOLOGY:

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

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

Bird Stamp Society. Website of an organization catering to collectors of bird stamps. They publish a quarterly journal that lists new birds on stamps. <http://www.birdstampsociety.org/index.html>

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

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

PALEONTOLOGY:

Dinosaur Illustrations. Galleries of dinosaur illustrations by species. Includes links to paleontology stamp sites and other related sites. <http://www.search4dinosaurs.com/>

Paleophilately. Edited by our Paleontology Editor, Michael Kogan. Catalogue of Paleontology related philatelic items, such as paleontologists, fossils, prehistoric animals, dinosaurs, early man, and museums on official post stamps, envelopes, and post cards. Contains links to related news items and sites. <http://www.paleophilately.eu/index.html>

GLOSSARY OF TERMS

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

Checklist Codes:

Br	Branch	A	Subject is the primary design element
Fl	Flowers (with or without other plant parts)	B	Subject is only part of the main design
Fr	Fruit (including seeds, nuts, grains, etc.)	C	Subject is a minor representation
FrV	Grain head with sheaf or stalk	G	Subject is a generalized depiction
L	Lichen	R	Related subject (e.g., scientist, equipment)
M	Mushroom or fungus	S	Subject is a stylized or symbolic depiction
T	Trees (without flowers or fruit)	U	Subject is unidentified or unidentifiable
V	Various (vines, vegetables, roots, leaves, etc.)	X	Subject is a lookalike (e.g., mushroom cloud)
Wr	Wreath	Z	Subject is in the Margin or selvage
Wr*	Head wreath (or chaplet)	*	Subject is natural color (no longer in use)

Acronyms and Abbreviations:

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

Entomology Family Abbreviations:

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