

BIOPHILATELY

OFFICIAL JOURNAL OF THE BIOLOGY UNIT OF ATA
DECEMBER 2020 VOLUME 69 NUMBER 4

Now you see it, Now you don't: Transparency



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Vacant

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

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PLEASE NOTE: Material for the next issue should be in the hands of the editor before 15 February 2021.

FROM THE INTERIM EDITOR'S DESK

Chris Dahle, BU 1269

This issue of *Biophilately* is smaller than usual. We are missing several submissions from our New Issues editors for a variety of reasons: fewer new issues to report; too many other competing projects; and a lack of an editor, in the case Marine Invertebrates. We are looking for volunteers to fill a slot as overall Editor, as well as the Marine Invertebrates editor. Jack Congrove had a bee in his bonnet about introducing a column on Microbiology, so if anyone would like to start that, please step forward.

There is a great deal of philately going on-line as a result of the coronavirus pandemic. Shows are still being canceled, the latest casualty being the Southeastern Stamp Expo in Atlanta in January 2021. But the American Association of Philatelic Exhibitors recently had a virtual Champion of Champions competition of Single-Frame exhibits that was supposed to be held in conjunction with Chicagopex. You can see the exhibits which qualified here: http://www.aape.org/single_frame_c_of_c_qualifiers.asp.

During the month of October, for Stamp Collecting Month, the American Topical Association (ATA) sponsored a number of talks that can still be seen on YouTube. They can be accessed on the new ATA website here:

<https://americantopical.org/Videos-&-Presentations>.

And the American Philatelic Society is temporarily making copies of the *American Philatelist* available to non-members as well, they announced on November 16. For a while now, the American Philatelic Library's journal, *Philatelic Literature Review* has been available on line. You can watch the Library's Postal History Symposium videos. This year the topic was "Postal Innovation of the Classic Era." There were five days of presentations, each of which featured three speakers.

It is again time to renew your membership in the Biology Unit. It is uncertain when or if we will continue to publish a list of members given the restrictions on privacy, especially from the European Union. In the event that we do include a directory, we need to have your permission to publish your mailing address and/or email address. That is why we ask all members, including Life Members, to submit a Renewal Form. You will find a form on the back cover of this issue or as a separate insert.

chris-dahle@biophilately.org

DUES RATES

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 Dr NE, Cedar Rapids, IA 52402.

ADVERTISING RATES

Full page insertion \$20

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Quarter page insertion \$6

PRESIDENT'S MESSAGE

We are all still under Covid lockdown ten months later. This continues as a time of isolation and uncertainty. I personally feel frustration and impatience, as I want to get out and work on my genealogy or browse through stamp stock binders. The Libraries and Historical Societies are still closed down and stamp shows are cancelling left and right. That goodness for the internet.

As I write this, Thanksgiving is next week. No family get togethers this year, as I have to protect my 91 year old mother. As I reflect, I realize that there are still things to be thankful for. There are four new hedgehog stamps released this year! No one close to me has died from Covid. Although some family members have had the virus, they have recovered completely. As much as I wanted to visit towns and explore libraries and graveyards, I do have the internet to help me find information. As people are stuck at home and bored, they are taking DNA tests to explore their ancestry. This surge has helped increase my chances of finding cousins! I have found that many stores are offering great web offers to increase their sales. I am spending more time with the dogs and cat, not sure if this is good or an annoyance. I suppose the greatest positive to come this year is ZOOM. I have it pretty well figured out, except to get my video and audio at the same time. Guess it better to hear me than see me. I certainly have been able to attend more organization meeting and seminars as a result of the shutdowns. Before Zoom I could not attend the out of town meetings. Now I can easily attend and feel more a part of the organization. I think a lot of people feel the same way. I certainly loved the ATA talks from August and October; it was wonderful to keep connected. So glad they will continue next year.

Stay safe this Holiday Season. Remember that the best way to show love to family and friends is to keep them safe and virus free!



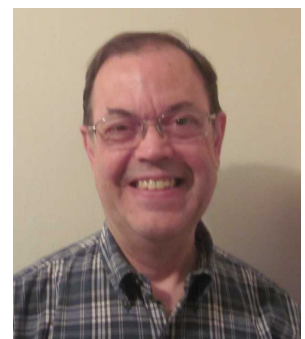
SECRETARY'S CORNER

There were two new members this quarter. There are still 24 members in arrears.

NEW MEMBERS

#1907 Mannan Mashhur Zarif of Dhaka, Bangladesh collects donkeys.

#1908 Heather Burrowes, Troy, NY collects dogs, plants, prehistoric animals, conservation



Members in arrears

| | | | |
|---------|----------|------------|-----------|
| Boorman | Gray | Mauney | Stout |
| Bratlie | Hanks | Nystuen | Van Laere |
| Cooper | Harrison | Odum | Wallach |
| Das | Lobmeyer | Setterberg | Weber |

The last payment of dues from those in the list was for 2019. This will be your last issue of *Biophilately* unless I receive payment. Please also pay your dues for 2021. And please inform me if you wish to drop your membership in the Biology Unit.

NEWS

2021 ATA Distinguished Topical Philatelist Nominations Are Now Being Accepted

It is the hope of the DTP Selection Team that individuals, study units and chapters will actively consider nominating an individual for this very prestigious recognition. The Distinguished Topical Philatelist for 2021 will be the highest award ATA presents in Rosemont, IL during the Great American Stamp Show, a joint show of the American Philatelic Society, American Topical Association and the American First Day Cover Society – Aug. 12-15, 2021.

This recognition is bestowed upon a person who has made significant contributions to topical philately and to ATA in particular. The letter of nomination should detail the person's contribution to philately – in particular – topical philately.

We are especially interested in nominations that highlight the contribution of ATA members to the life and activities of the local, that is chapters and units, levels. It is at that level that a very large portion of the activities of topical and thematic collecting within ATA takes place.

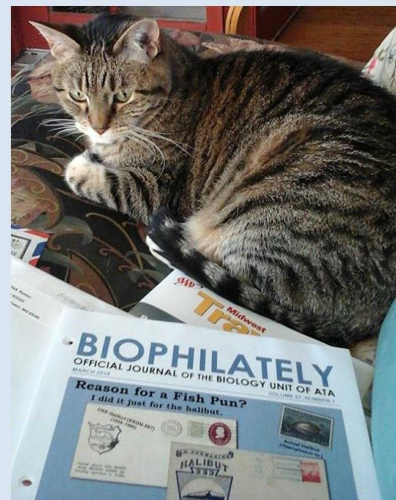
The Distinguished Topical Philatelist award was established in 1952 by the late ATA founder Jerome (Jerry) Husak. Since then, 124 people have received the honor. Recipients have included residents of the United States, Canada, Great Britain and Italy. Find a complete listing of past winners at ATA's website. The url is: <https://americantopical.org/ATA-Awards>

Please consider a worthy person in your ATA Chapter or Study Unit for this honor. It is not only recognition for the awardee but also for the chapter or unit.

For the 2021 award send nominations or questions to DTP Chairperson, Myron Molnau, 1616 E 32nd Ct, Spokane WA 99203-3918. or at hobbies@turbonet.com.

The deadline for nominations is Dec. 31, 2020.

Zoey can't hardly wait for the next issue of Biophilately!



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FASCINATING BUTTERFLIES WITH TRANSPARENT WINGS

Vladimir Kachan, Belarus

Butterflies are one of a lot of varied as well as attractive insects worldwide and are viewed as brightly coloured, day-active and harmless insects reflecting tranquility and harmony. The beauty of each butterfly lies in its wings, in their various colors.

In the tropical forests of South America there are the butterflies that have lost their scaly covering, and their wings are almost completely transparent. When such a butterfly is on the crown of a tree, it is quite unnoticeable because the design of a leaf on which it sits appears through its glassy wings (Figure 1).

Clear-winged butterflies, also called glasswing butterflies, live mostly in Central America and South America. They look like other butterflies in every way except one: Instead of sporting brilliant color displays, they have wings you can see through. Their wings are shaped like those of other butterfly species, but clear-winged butterflies lack the tiny scales necessary to create color. The overlapping scales provide multicolor displays on the wings of many butterflies, but the clear-winged variety has only a few concentrated around the outer edges, often in brown or orange. Veins appear like webs throughout the wings, but these don't add much color -- they typically look brown.

The butterfly with scientific name *Greta oto* (Figure 2) is known by the common name glasswing butterfly for its unique transparent wings that allow it to camouflage without



Figure 2 – Stamp of Romania 2011, Scott #5249, with tab and butterfly *Greta oto*

extensive coloration. The butterfly is mainly found in Central and northern regions of South America with sightings as far north as Texas and as far south as Chile. While its wings appear delicate, the butterfly is able to carry up to 40 times its own weight. In addition to its unique wing physiology, the butterfly is known for behaviors such as long migrations and the ability to fly up to eight miles per hour for short periods of time. The transparent wings help the butterfly blend in with the environment to avoid predators while in flight and while at rest. In order for its wings to be transparent, the tissues of the wings must not absorb light. The irregular structure of the butterfly wing causes little to no

reflection of light, causing the glass-like effect on the wings of the butterfly. This irregular structure has even been a source of biomimicry to create anti-reflective coatings for technology. Engineers are copying the butterfly's wing to create surfaces that sieve light with exquisite precision.

The clear tissue that makes up the wings (Figure 3) does not contain the colour-producing scales present in most butterfly wings. As a result, the tissue does not absorb or scatter much light, instead letting most of it pass through. Not much light is reflected, either, due to microscopic structures on the surface called 'nanopillars'. The nanopillars have a random distribution of sizes and positions, which means that there is a gradual transition between the refractive index of the wing and that of the surrounding air. This



Figure 1 – Stationery card of Costa Rica 1999 with glasswing butterfly *Greta oto*



Figure 3 – Souvenir sheet of Nicaragua 1991, Scott #1870, with glasswing butterfly *Ithomia derasa*

solve issues involved in screen glare. The team seeks to develop a perfect anti-glare display for laptops, smartphones, and other devices. This, however, is not the only biomimetic study that glasswing butterflies have inspired. The most recent development in glasswing butterfly biomimicry comes from the California Institute of Technology. Engineers took the antireflective property of the wings of longtail glasswing butterflies with scientific name *Chorinea faunus* (Figure 5) as a model to develop an ultrathin eye implant to monitor intra-eye pressure. With Caltech’s biophotonic eye implant, which comes with a



Figure 5 – Stamp of Grenada-Grenadines 1991, Scott #1285, with butterfly *Chorinea faunus*

handheld reader device, glaucoma patients can monitor the pressure inside their eyes constantly at home, and take medications if there’s a spike. Also known as the Glasswing Swallowtail, this butterfly is found in the more North-Eastern countries of South America. The wings of this butterfly are mostly transparent with bright red tails - beautiful and delicate long tailed glasswing swallowtail.

A similar butterfly *Chorinea licursis* species can be found in the forests of Brazil (Figure 6). *Chorinea licursis* has a wingspan reaching



Figure 7 – Souvenir sheet of Guyana 2007, Scott #3965, with butterfly *Cithaerias aurorina*

ensures very low reflection over a wide range of wavelengths. The end result is that the wings appear optically transparent.

The look of these beautiful glasswing butterflies fluttering their transparent wings has brought inspiration to engineers studying biomimetics, especially in optics. In the case of glasswing butterflies, scientists focus on the irregular nanostructure of their wings which gives them this ability to let light pass through (Figure 4). For example, German engineers from the Karlsruhe Institute of Technology have been studying glasswing butterflies to



Figure 4 - Stamp of Grenada-Grenadines 2019 with glasswing butterfly *Pteronymia cotyttot*

about 30–35 millimetres. These butterflies are quite variable with respect to the size of the transparent region and of spots on the hindwings. They have transparent wings outlined with black and long tails on the hindwings. Forewings and hindwings are crossed by black veins and by two black transverse bands. At the base of the hindwing tails there are bright red marks.



Figure 6 – Stamp of Brazil 2016, Scott #3347o, with butterfly *Chorinea licursis*

In fact, there are many dazzling species with transparent wings. For example, this the Pink Glasswing Butterfly, sometimes known as the Blushing Phantom. This transparent butterfly with scientific name *Cithaerias aurorina* (Figure 7) simply cannot be photographed. The

effect in real life is of glowing pink matter floating through the dark jungle, one of the great sites of the rainforest to behold.

In the Brazilian jungles butterflies *Cithaerias aurora* species emerge in a variety of ornamental colors. Normally their transparent wings are beautifully colored with eye-like spots ringed with several circles and a reddish flush on the hindwings. Although they are colorful, these wings are weak. Rather than flying with their thin wings, they flit and dance among the herbage, often hiding from their enemies in tall grass and trees (Figure 8).

One special species of glasswing butterfly *Cithaerias merolina* out there has a special “blush” look to it (Figure 9). The pink glasswing butterfly – which can be found in the Amazon region – has clear wings at the top, which turn pinkish towards the bottom, making for a butterfly with matching blushing wings. A stunning clearwing butterfly from the undergrowth of a rainforest. Clear wings transition into pink at the tip of the hindwing. A small eyespot is found in the pink shading.



Figure 9 – Stamp of Grenada 2005, Scott #3491c, with butterfly *Cithaerias merolina*



Figure 8 – Stamp of Brazil 1979, Scott #1620, with butterfly *Cithaerias aurora*

One of the greatest treasures of tropical forest in South America is *Cithaerias esmeralda*, a butterfly whose wings are transparent except for a bright violet patch on the hind wing (Figure 10). This



Figure 10 – Stamp of Grenada-Grenadines 2000, Scott #2195d, with butterfly *Cithaerias esmeralda*

dusk-flying butterfly with wingspan about 5 centimeters uses its wings to remain hidden, tricking observers with false eyes, or hiding in flight on see-through wings.

Glasswing butterflies are widespread throughout much of Central America and South America inhabiting the lowland rain forests. One such stunning butterfly species is *Haetera piera*.



Figure 11 – Stamp of Guyana 1994, Scott #2827d, with butterfly *Haetera piera*

The butterfly is known as the amber phantom, with light yellow in the bottom wing (Figure 11). These butterflies can be recognized by their largely transparent wings with delicate colors and two bold ocellions on the outer margin of the hindwings. Butterflies glide through the understory along the forest floor, and it is during flight that the hind wing colors are most conspicuous. This butterfly thrives in the tropical conditions of the rainforests.

Butterflies attract by virtue of their remarkable appearance, but, among other things, they

also play an important role in natural ecosystems, serving as pollinators of many species of flowering plants. The delicacy of their finely patterned wings, some of which are painted in vivid colours, their energetic behaviour and conspicuous presence in our gardens and nature reserves all contribute to our fascination with them (Figure 12).

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 12 – Stationery card of Cuba 2012 with glasswing butterfly *Greta cubana*

How are fossils made? A look at fossilization portrayed on stamps.

Peter Voice

Western Michigan University and the Michigan Geological Survey

A fossil is the remains or traces of a once living organism preserved in the geologic record. My historical geology professor added to the definition that the organism had to have lived 10,000 or more years ago (I actually teach this as well – it is a bit arbitrary, but provides a working cut-off between paleontological and archaeological research). The remains can include mineralized hard parts of the skeleton (shells, teeth, bones) or soft flesh (tissues, hair, feathers). Traces are an intriguing (and at times very frustrating) part of the definition – as these are geologic structures formed by organisms that exhibit that a.) the animal was present in the environment and b.) it was actively doing some behavior. Trace fossils include footprints, nests, coprolites (fossilized feces) and many other structures. They can be frustrating because we cannot be certain that we know what kind of organism produced the structure (and some simple burrows for example are known to be made by multiple species in modern environments). The study of trace fossils is called ichnology (Figure 1).

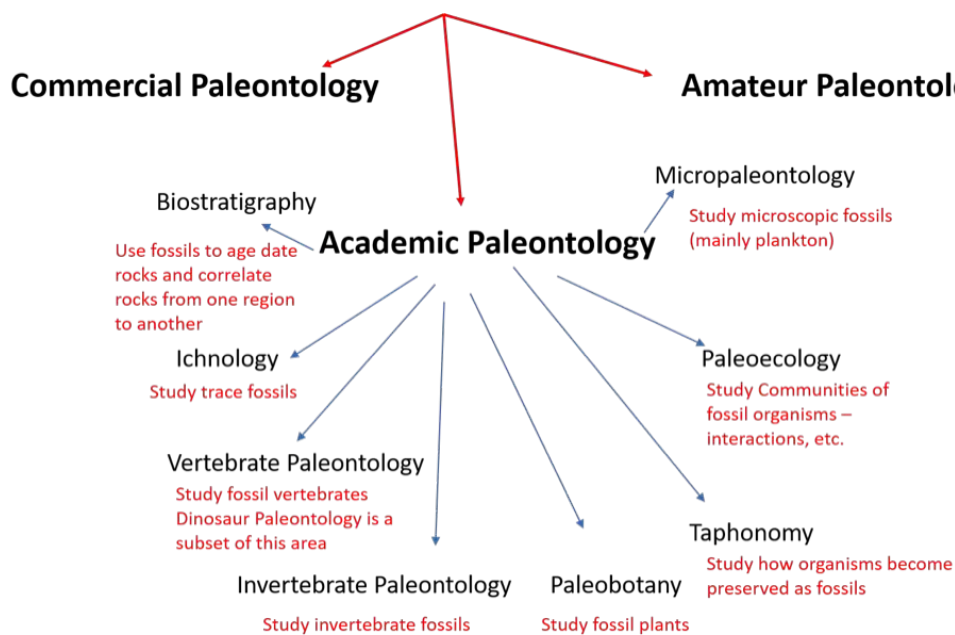


Figure 1: Types of Paleontology with brief descriptions of the various sub-disciplines in Paleontology.

How does an organism become a fossil? Paleontologists have spent the better part of two centuries working to figure this out. There is even a sub-branch of paleontology (Figure 1) called taphonomy that focuses in part on fossilization. Taphonomic research includes understanding how an animal dies (illness, predation), how the body becomes buried, how the fossil

becomes preserved and later is brought to the surface where paleontologists can find it. Some illnesses as well as parasitism can leave traces of symptoms preserved in the bones of the affected animals. Examples include parasitic sores from trichomonas in Tyrannosaurus Rex jaws and silicosis in the joints of North American Rhinocerids. Some taphonomists study the traces of predation – abrasion on bone or shell from teeth of predators. Some naticid snails for example use their tongue-like radula to bore into the shells of other snails or clams, leaving a distinctive circular boring in the shell. Some fossils even exhibit partial healing with new shell or bone growth partially filling in the predation scar.

Taphonomists define several mechanisms that might preserve an organism as a fossil. These mechanisms include unaltered remains, recrystallization, replacement, and carbonization and

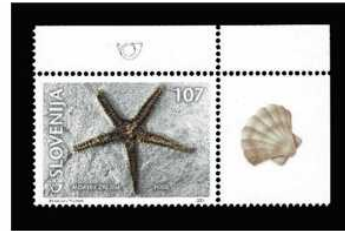
compression. In addition, one mechanism preserves the shape of the organism but not the actual remains – casts and molds. Each mechanism will briefly be described below with examples of stamps that illustrate the mechanism (Figure 2). In all cases, burial is key to fossilization – as quickly burying an



Theropod dinosaur footprints, Lesotho, 1984, SC 445-447



Helminthoides burrows France, 2018 SC 5365



Recrystallized Starfish Slovenia, 2001, SC 454



Carbon films of ferns British Antarctic Territory 2008, SC 401-404



External Casts of Ammonoid and Trilobite head, Local Issues, Spain, 2019



Recrystallized Gryphea (Oyster) Luxembourg, 1984 SC 715



Internal Mold, Bivalve Slovenia, 2014, Local Issue



Apatite Replacement and Recrystallization, Gigantosaurus Serbia, 2009 SC 489



Opalized fossils - Replacement with Opal Australia, 2020, SC - Not Available Yet



Carbon films of insects Brazil, 2016, SC 3349a and b



Fossil Insect in Amber Lebanon, 2003, SC 570

Figure 2: Selected images illustrating different fossilization mechanisms on stamps. Scans courtesy of Michael Kogan's paleophilatelie.eu.

organism will prevent scavenging (and the breakdown of the body into scattered pieces by messy eaters), but also removes the organism from the effects of oxygen and microbially- and fungally-mediated decomposition.

Unaltered remains are rare and are limited to relatively recent rocks. Soft-bodied preservation as unaltered remains are known from highly specialized environments. Probably the best examples come from Pleistocene mammals preserved frozen in the permafrost in northern North America and Siberia. In

these cases, cold, dry air mummifies the body followed by burial and can preserve fine details like the stomach contents. A variety of frozen animals including bison, horses, mammoths, caribou and wolves have been found. Other cases of soft-bodied preservation include desiccation and mummification in arid settings or preservation in tar pits such as the La Brea Tar Pits of California. Fossils in amber preserve the shape of the animal, though over time decay will alter the chemistry of the preserved remains. The oldest unaltered skeletal materials include Mother of Pearl shells in ammonoids (a coil-shelled animal related to squids and the nautilus) that date back to the Early Jurassic.

Recrystallization is a common process that preserves many mineralized skeletal elements – especially shells. Most marine animals today secrete shells made of up calcium carbonate in the form of aragonite. Aragonite is one of two common polymorphs of calcium carbonate – the other being the mineral calcite. Calcite and aragonite are chemically the same, but the way the calcium and carbonate ions are arranged is different in each mineral. Aragonite is less stable at Earth surface conditions. A clam shell is made up of tiny crystals of aragonite embedded in a framework of collagen and chitin. After burial, as groundwater flows through the porous structure, chemical reactions can slowly reorganize the aragonite into calcite, while also growing the crystals larger to fill in the void left as the collagen and chitin decay. After fossilization, a recrystallized fossil exhibits a chemistry that is very similar to the original skeletal composition.

Replacement generates some of the prettiest fossils that paleontologists have described. As the name suggests, the original hard (or soft parts in the case of wood) parts are replaced by new minerals. There are two flavors of replacement: petrification and permineralization. During petrification, the organism is quickly dissolved and replaced generating a fossil that shows the coarse features of the original plant or animal. Permineralization is a slower process – operating at the atomic scale by slowly replacing one atom at a time. Because Permineralization is a slow process, permineralized fossils generally exhibit exceptional detail that can include the structure of individual cells in the body! Replacement usually generates a fossil with a completely new chemistry – common replacement minerals include pyrite (FeS_2), silica (SiO_2) and Opal (hydrated SiO_2), and apatite (more common in porous bone where this Calcium Phosphate mineral fills the pores left behind after decay of collagen).

Carbonization and compression is another mechanism that preserves soft-bodied organisms or the soft-bodied tissues of organisms with mineralized skeletons. After burial, as more and more sediments are laid down on top of the animal, heat and pressure volatilize organic compounds and slowly convert the body to pure carbon (graphite). The fossil tends to be compressed into a 2-d sheet. Organisms like plants and jellyfish are commonly preserved as carbon films. In some cases, carbonization will preserve carbon films around the skeleton of an animal – showing the shape of the animal with flesh on the bone. Carbon films often form in fine-grained rocks like some limestones and shales – and some taphonomists think that clay minerals may be partly responsible for the preservation of carbon films.

The last mechanism does not preserve the actual animal but instead both an impression of the organism (a mold) and a replica of the organism (a cast). After death, the animal falls into mud – if you were to come across the body later on, you could pull the animal from the ground and see the impression left behind. Footprints are a similar idea – as you step in mud, the mud conforms to your feet. Then as you take your next step, pulling your foot out of the mud and leaving behind an impression of the sole of your foot. If the animal is completely buried, and groundwater has dissolved the shell and flesh, a void space can be left in the rock. This void space has the shape of the animal that decayed away. Later on sediment can filter down into the void or cement can be precipitated by groundwater to fill the void. In

both cases, the material forms a 3-dimensional replica of the animal. Molds and casts are complicated by the observation that some animals can form multiple molds (think of snails – where sediment can conform to the outer surface of the shells as well as fill in the hollow after the snail's body decayed away. This has led to more nomenclature – with internal molds and external molds. In a clam, the external mold shows the surface ornamentation – ribs, spines etc., while the internal mold exhibits the muscle scars and pallial line (where the flesh of the mantle attaches to the shell).

Unfortunately, fossilization is a rare process. Paleontologists recognize that most organisms have very little chance of making it into the fossil record. Fossilization is more likely for organisms with mineralized skeletons that lived in marine environments where burial was rapid. In terrestrial environments, weathering and erosion may break down the organism before it gets buried (and scavengers and decomposers can also attack the remains). Paleontologists also recognize the fossilization is more likely if the species was very abundant (so future paleontologists exploring our era might find a lot of cow and human remains – due to both abundance and for humans – burial customs).

Acknowledgements

Michael Kogan kindly reviewed several drafts of this article, providing very useful feedback to improve it.

References

Parasitism in Tyrannosaurus Rex

(<https://www.nationalgeographic.com/science/phenomena/2009/10/06/the-plague-of-tyrants-a-common-bird-parasite-that-infected-tyrannosaurus/>)

Silicosis in Rhinocerids the aftermath of one of the Yellowstone hotspot Eruptions

(<https://www.youtube.com/watch?v=2ofNufZVcMU>)

Permafrost Fossils

<http://www.bbc.com/earth/story/20141105-animal-mummies-from-the-ice-age>

<https://allthatsinteresting.com/ice-age-wolf-pup-caribou-canada>

Fossilization

<https://www.livescience.com/37781-how-do-fossils-form-rocks.html><http://scienceviews.com/dinosaurs/fossilformation.html>

and any basic Historical Geology textbook (I use Stanley and Luczaj's Earth System History).

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BOTANY

Editor

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New Listings

| Scott# | Denom | Common Name/Scientific Name | Family/Subfamily | Code |
|--|-----------|---|------------------|-------------|
| AUSTRALIA 2020 April 29 (Voyage of HMS Endeavour type of 2020) Sheet/10 SA, die cut 11 ³ / ₄ | | | | |
| 5147d | 55c | Banksia flower, <i>Banksia sp.</i> | Proteaceae | Fl B MS |
| 2020 July 21 (Australian Alps) Set/3, SS/3 Perf 14x14 ³ / ₄ | | | | |
| 5167 | \$1.10 | Snow gum trees, <i>Eucalyptus pauciflora</i> | Myrtaceae | T A |
| 5169a | | Souvenir sheet of 3 #5167-69 | | |
| Set/3 Coil SA die cut 11 ¹ / ₄ | | | | |
| 5170 | \$1.10 | Snow gum trees, <i>Eucalyptus pauciflora</i> | Myrtaceae | T A |
| 5172a | | Strip of 3 #5170-72 | | |
| BELGIUM 2020 January 27 (Pentagonal items in nature) Sheet/5+ labels | | | | |
| 2909c | 1 (€1.55) | Balloon flower bud, <i>Platycodon grandiflorus</i> | Campanulaceae | Fl A |
| 2909e | 1 (€1.55) | Sliced okra pod, <i>Abelmoschus esculentus</i> | Malvaceae | Fr A |
| CHINA (Taiwan) 2020 April 24 (Taijiang National Park) Set/4 | | | | |
| 4533 | \$15 | Beach morning glories and Sand Bar, <i>Ipomoea pes-caprae</i> | Convolvulaceae | Fl B |
| 4534 | \$28 | Mangrove flower and Sicao Mangrove Green Tunnel | | Fl B U |
| COLOMBIA 2019 October 9 (Traditional dishes) Sheet/4 | | | | |
| 1516a | 2000p | Sugar cane, <i>Saccharum officinale</i> | Poaceae | V B Z |
| 1516c | 2000p | Plantains, <i>Musa × paradisiaca</i> | Musaceae | Fr B Z |
| 2019 December 27 (Department type of 2003: Putumayo) Minisheet /12 | | | | |
| 1533j | 2000p | Inca nut, <i>Plukenetia volubilis</i> | Euphorbiaceae | Fr A MS |
| DJIBOUTI 2019 December 12 (Chinese Paintings) Sheet/16 | | | | |
| 1898-1913 | | Unidentified plants | | Fl T A U MS |
| FINLAND 2019 September 11 Single | | | | |
| 1596 | (€1.60) | Calla lily, <i>Zantedeschia aethiopica</i> | Araceae | Fl A |
| Åland 2019 September 20 (Harvest Festival) Vert. strip/3 | | | | |
| 424c | (€1.60) | Woman with apple, <i>Malus domestica</i> | Rosaceae | Fr B |
| 424d | | Booklet pane of 9, 3 each 424a-c | | |
| 2019 October 24 (Year of the Rat) Sheet/2 | | | | |
| 427 | 60c | Blackberries, <i>Rubus fruticosus</i> | Rosaceae | Fr B MS |
| FRANCE 2020 March 6 (Cabinet of Curiosities) Set/12 | | | | |
| 5799 | (97c) | Drawing of tulips, <i>Tulipa x hybrida</i> | Liliaceae | Fl A |
| 5810a | | Booklet pane of 12 #5799-5810 | | |
| 2020 April 30 (Cosmos flowers) Set/12 | | | | |
| 5830-41 | (97c) | Four images in various colors, <i>Cosmos bipinnatus</i> | Asteraceae | Fl A |
| 5841a | | Booklet pane of 12 | | |

| | | | | |
|----------------------------------|--------|---|------------------|----------|
| GERMANY | | 2020 August 6 (Flower type of 2005) Single | | |
| 3178 | 200c | Purpur-knautie, widow flower, <i>Knautia macedonica</i> | Caprifoliaceae | Fl A |
| GREAT BRITAIN | | | | |
| England | | 2020 March 17 (Regional types of 2018) Set/2 | | |
| 41 | £1.42 | Oak, <i>Quercus robur</i> | Fagaceae | T A |
| 42 | £1.63 | Tudor rose, <i>Rosa sp.</i> | Rosaceae | Fl A |
| Scotland | | 2020 March 17 (Regional types of 2018) Set/2 | | |
| 55 | £1.42 | Thistle, <i>Onopordum acanthium</i> | Asteraceae | Fl A |
| Wales & Monmouthshire | | 2020 March 17 (Regional types of 2018) Set/2 | | |
| 55 | £1.42 | Daffodils, <i>Narcissus pseudonarcissus</i> | Amarylidaceae | Fl A |
| GUYANA | | 2019 December 15 (Plants) Sheet/3, SS/1 | | |
| 4615a | \$300 | Zebra plant, <i>Haworthia fasciata</i> | Xanthorrhoeaceae | V A |
| 4615b | \$400 | Cactus | Cactaceae | V A U |
| 4615c | \$500 | Aloe, <i>Aloe vera</i> | Xanthorrhoeaceae | V A |
| 4616 | \$800 | Cacti | Cactaceae | V A U SS |
| HONG KONG | | 2019 June 11 (Greetings) Set/6 | | |
| 2011 | (\$2) | Roses in hearts, <i>Rosa x hybrida</i> | Rosaceae | Fl A |
| ISRAEL | | 2020 June 9 (Summer Flowers) Set/3 with tabs | | |
| 2261 | 7.40s | False yellowhead, <i>Dittrichia viscosa</i> | Asteraceae | Fl A |
| 2262 | 8.30s | Hairy willowherb, <i>Epilobium hirsutum</i> | Onagraceae | Fl A |
| 2263 | 11.80s | Jerusalem caper, <i>Capparis zoharyi</i> | Capparaceae | Fl A |
| JAPAN | | 2020 January 15 (Food) Bklt/20, bklt/10 | | |
| 4366 | | Pane of 20 | | |
| 4366a | 63¥ | Dried fish and garlic, <i>Allium sativum</i> | Amarylidaceae | V B |
| 4366f | 63¥ | Ramen noodles and strawberries, <i>Fragaria ananassa</i> | Rosaceae | Fr B |
| 4366h | 63¥ | Vegetables, radishes, <i>Raphanus sativus</i> | Brassicaceae | V B |
| 4366i | 63¥ | Pepper and lemons, <i>Citrus limon</i> | Rutaceae | Fr B |
| | | 2020 January 23 (Greetings) Set/6 | | |
| 4366 | | Sheet of 10, 5 each | | |
| 4369a | 63¥ | Pink roses, <i>Rosa x hybrida</i> | Rosaceae | Fl A |
| 4369b | 63¥ | Pink roses, <i>Rosa x hybrida</i> | Rosaceae | Fl A |
| 4370 | | Sheet of 10, 5 each | | |
| 4370a | 84¥ | White roses, <i>Rosa x hybrida</i> | Rosaceae | Fl A |
| 4370b | 84¥ | White roses, <i>Rosa x hybrida</i> | Rosaceae | Fl A |
| 4371 | | Sheet of 10, 5 each | | |
| 4371a | 94¥ | Orchids | Orchidaceae | Fl A |
| 4371b | 94¥ | Orchids | Orchidaceae | Fl A |
| | | 2020 February 7 (Miyakojima Tourist Attractions) Set/5 | | |
| 4375 | | Sheet of 5 | | |
| 4375c | 84¥ | Hibiscus, <i>Hibiscus rosa-sinensis</i> | Malvaceae | Fl A |
| | | 2020 February 20 (Flowers) Set/20 | | |
| 4376 | | Sheet of 20 | | |
| 4376a | 63¥ | Dandelions, <i>Taraxacum campylodes</i> | Asteraceae | Fl A |

JAPAN (continued)

| | | | | |
|-------|-----|--|---------------|------|
| 4376b | 63¥ | Nemophila, <i>Nemophila menziesii</i> | Boraginaceae | Fl A |
| 4376c | 63¥ | Strawberries, <i>Fragaria ananassa</i> | Rosaceae | Fl A |
| 4376d | 63¥ | Primroses, <i>Primula verna</i> | Primulaceae | Fl A |
| 4376e | 63¥ | Daisies, <i>Leucanthemum vulgare</i> | Asteraceae | Fl A |
| 4376f | 63¥ | Winter daphne, <i>Daphne odora</i> | Thymelaeaceae | Fl A |
| 4376g | 63¥ | Peonies, <i>Paeonia officinalis</i> | Paeoniaceae | Fl A |
| 4376h | 63¥ | Poppies, <i>Papaver orientale</i> | Papaveraceae | Fl A |
| 4376i | 63¥ | Pansies, <i>Viola x wittrockiana</i> | Violaceae | Fl A |
| 4376j | 63¥ | Clover, <i>Trifolium pratense</i> | Fabaceae | Fl A |
| 4377 | | Sheet of 10 | | |
| 4377a | 84¥ | Cherry blossoms, <i>Prunus serrulata</i> | Rosaceae | Fl A |
| 4377b | 84¥ | Cherry blossoms, <i>Prunus serrulata</i> | Rosaceae | Fl A |
| 4377c | 84¥ | Peach blossoms, <i>Prunus persica</i> | Rosaceae | Fl A |
| 4377d | 84¥ | Cherry blossoms, <i>Prunus serrulata</i> | Rosaceae | Fl A |
| 4377e | 84¥ | Mimosa, <i>Acacia dealbata</i> | Fabaceae | Fl A |
| 4377f | 84¥ | Rose of Sharon, <i>Hibiscus syriacus</i> | Malvaceae | Fl A |
| 4377g | 84¥ | Spirea, <i>Spiraea japonica</i> | Rosaceae | Fl A |
| 4377h | 84¥ | Camellia, <i>Camellia japonica</i> | Theaceae | Fl A |
| 4377i | 84¥ | Tulips, <i>Tulipa x hybrida</i> | Liliaceae | Fl A |
| 4377j | 84¥ | Rape blossoms, <i>Brassica napus</i> | Brassicaceae | Fl A |

2020 March 3 Set/10

| | | | | |
|-------|-----|--|-----------------|------|
| 4378 | | Sheet of 10, 2 each | | |
| 4378a | 63¥ | Cherry blossoms, <i>Prunus serrulata</i> | Rosaceae | Fl A |
| 4378b | 63¥ | Asian Fawnlily, <i>Erythronium japonicum</i> | Liliaceae | Fl A |
| 4378c | 63¥ | Safflower, <i>Carthamus tinctorius</i> | Asteraceae | Fl A |
| 4378d | 63¥ | Hydrangea, <i>Hydrangea macrophylla</i> | Hydrangeaceae | Fl A |
| 4378e | 63¥ | Japanese iris, <i>Iris japonica</i> | Iridaceae | Fl A |
| 4349 | | Sheet of 10, 2 each | | |
| 4349a | 84¥ | Citrus blossoms, <i>Citrus sp.</i> | Rutaceae | Fl A |
| 4379b | 84¥ | Tulips, <i>Tulipa x hybrida</i> | Liliaceae | Fl A |
| 4379c | 84¥ | Cherry blossoms, <i>Prunus serrulata</i> | Rosaceae | Fl A |
| 4379d | 84¥ | Hydrangea, <i>Hydrangea macrophylla</i> | Hydrangeaceae | Fl A |
| 4379e | 84¥ | Carnations, <i>Dianthus caryophyllus</i> | Caryophyllaceae | Fl A |

KAZAKHSTAN 2019 November 27 (Flowers & "Congratulations" in various languages) SS/1

| | | | | |
|-----|-------|--|----------|-----------|
| 897 | 800te | Apple blossoms, <i>Malus domestica</i> | Rosaceae | Fl A SS Z |
|-----|-------|--|----------|-----------|

KOREA (South)**2019 December 27 (Technology) Set/8**

| | | | | |
|-------|------|--|---------|--------|
| 2565 | | Block of 8 | | |
| 2565a | 380w | Rice growing technology, <i>Oryza sativa</i> | Poaceae | Fr A S |

KOSOVO**2018 August 24 (Flowers) Set/5**

| | | | | |
|-----|-----|-------------------------------------|------------|------|
| 385 | 30c | Yarrow, <i>Achillea clypeolata</i> | Asteraceae | Fl A |
| 386 | 40c | <i>Viola dukadjinica</i> | Violaceae | Fl A |
| 387 | 60c | Yellow crocus, <i>Crocus flavus</i> | Iridaceae | Fl A |

KOSOVO (continued)

| | | | | |
|-----|-----|---|---------------|------|
| 388 | 80c | Red chamomile, <i>Adonis microcarpa</i> | Ranunculaceae | Fl A |
| 389 | 90c | Edelweiss, <i>Leontopodium alpinum</i> | Asteraceae | Fl A |

LATVIA**2020 May 29** (Int. Yr. of Plant Health) Single

| | | | | |
|------|-------|----------------|--|-------|
| 1051 | €2.25 | Stylized plant | | V A S |
|------|-------|----------------|--|-------|

MACAO**2020 April 20** (Medicinal plants) Set/4, SS/1

| | | | | |
|-------|-------|---|----------------|------------|
| 1595a | 2.50p | Rose myrtle, <i>Rhodomyrtus tomentosa</i> | Myrtaceae | Fl Fr A |
| 1595b | 4p | Dwarf ylang-ylang, <i>Desmos chinensis</i> | Annonaceae | Fl Fr A |
| 1595c | 4.50p | Cape jasmine, <i>Gardenia jasminoides</i> | Rubiaceae | Fl Fr A |
| 1595d | 6p | Ivy tree, <i>Schefflera heptaphylla</i> | Araliaceae | Fl Fr A |
| 1596 | 14p | Chinese chrysanthemum, <i>Chrysanthemum indicum</i> | Asteraceae | Fl Fr A SS |
| | | Margin: Frangipani, <i>Plumeria rubra</i> | Apocynaceae | Fl A SS Z |
| | | Honeysuckle, <i>Lonicera japonica</i> | Caprifoliaceae | Fl A SS Z |
| | | Red cotton tree, <i>Bombax ceiba</i> | Malvaceae | Fl A SS Z |

ROMANIA**2020 March 8** (Dimitrie Brandza Botanical Garden, 160 y) Set/4

| | | | | |
|-------|--------|---|--------------|------|
| 6395 | 2.20l | Lily magnolia, <i>Magnolia liliiflora</i> | Magnoliaceae | Fl A |
| 6395a | | Sheet of 5 + label | | |
| 6396 | 2.70l | Mexican pincushion, <i>Mammillaria magnimamma</i> | Cactaceae | Fl A |
| 6396a | | Sheet of 5 + label | | |
| 6397 | 3.30l | <i>Tulipa sylvestris</i> subsp. <i>australis</i> | Liliaceae | Fl A |
| 6397a | | Sheet of 5 + label | | |
| 6398 | 20.50l | Hocus Pocus rose, <i>Rosa</i> 'Hocus Pocus' | Rosaceae | Fl A |
| 6398a | | Sheet of 5 + label | | |

SERBIA**2020 April 22** (Int. Year of Plant Health) SS/1

| | | | | |
|-----|------|--------------------------------|----------|--------------|
| 909 | 108d | Apples, <i>Malus domestica</i> | Rosaceae | Fl Fr A SS Z |
|-----|------|--------------------------------|----------|--------------|

SPAIN**2020 February 4** (Murcia, 2020 Gastronomy capital) Single

| | | | | |
|------|----------|--|------------|------|
| 4417 | A2 (75c) | Tomatoes, <i>Lycopersicon esculentum</i> | Solanaceae | Fr B |
| | | Eggplant, <i>Solanum melanogena</i> | Solanaceae | Fr B |
| | | Banana, <i>Musa x paradisaica</i> | Musaceae | Fr B |
| | | Lemon, <i>Citrus limon</i> | Rutaceae | Fr B |

2020 March 20 (Gastronomy of Asturias) SS/2

| | | | | |
|-------|----|-------------------------------------|----------|-----------|
| 4426 | | Sheet of 2 | | |
| 4426a | €3 | Fava beans, <i>Vicia faba</i> | Fabaceae | Fr B SS Z |
| 4426b | €3 | Apple cider, <i>Malus domestica</i> | Rosaceae | Fr B SS Z |

SRI LANKA**2019 December 13** (Provincial Flowers) Set/3

| | | | | |
|------|-----|--------------------------------|---------------|------|
| 2209 | 12r | <i>Dendrobium maccarthiae</i> | Orchidaceae | Fl A |
| 2210 | 15r | <i>Osbeckia octandra</i> | Melastomaceae | Fl A |
| 2211 | 45r | <i>Rhododendron zeylanicum</i> | Ericaceae | Fl A |

TUVALU**2019 April 2** (Plumeria) Set/3

| | | | |
|-------|---|-------------|-----------|
| 1434 | Sheet of 3 | | |
| 1434a | \$2 Plumeria flowers, <i>Plumeria rubra</i> | Apocynaceae | Fl A MS Z |
| 1434b | \$3 Same species | | |
| 1434c | \$4 Same species | | |

UNITED STATES**2020 July 17** (Fruits and vegetables) Set/10

| | | | |
|-------|--|------------|------|
| 5484 | (55c) Plums, <i>Prunus domestica</i> | Rosaceae | Fr A |
| 5485 | (55c) Tomatoes, <i>Lycopersicon esculentum</i> | Solanaceae | Fr A |
| 5486 | (55c) Carrots, <i>Daucus carota</i> | Apiaceae | V A |
| 5487 | (55c) Lemons, <i>Citrus limon</i> | Rutaceae | Fr A |
| 5488 | (55c) Blueberries, <i>Vaccinium corymbosum</i> | Ericaceae | Fr A |
| 5489 | (55c) Grapes, <i>Vitis vinifera</i> | Vitaceae | Fr A |
| 5490 | (55c) Lettuce, <i>Lactuca sativa</i> | Asteraceae | V A |
| 5491 | (55c) Strawberries, <i>Fragaria ananassa</i> | Rosaceae | Fr A |
| 5492 | (55c) Eggplant, <i>Solanum melongena</i> | Solanaceae | Fr A |
| 5493 | (55c) Figs, <i>Ficus carica</i> | Moraceae | Fr A |
| 5493a | Block of 10, #5484-93 | | |
| 5493b | Booklet pane of 20 #5484-93 | | |

UZBEKISTAN**2020 March 20** (Navroz holiday) SS/1

| | | | |
|-----|--|----------|-----------|
| 911 | 11,200s Apple blossoms, <i>Malus domestica</i> | Rosaceae | Fl B SS Z |
|-----|--|----------|-----------|

VATICAN CITY**2020 June 23** (Int. Year of Plant Health) Single

| | | | |
|------|--|--|-------|
| 1740 | €1.15 Pope & Catholicos Karekin II watering tree | | T B U |
|------|--|--|-------|

New Plants in the Philatelic Herbarium

By Christopher E. Dahle, BU 1269



Echinocereus chisoensis CACTACEAE

Common name: Chisos hedgehog cactus

Synonyms: *E. metornii*, *E. fobeanus* subsp. *metornii*

Succulent perennial with solitary stems to 30 cm, 3-5 cm wide, having 10-16 ridges tipped with numerous spines, 6-20 mm. Pink or red flowers 2.5 to 7 cm wide, 6 cm long appear in March-April. Found in Chihuahuan Desert shrublands or grasslands on gravelly soils, in Texas and Mexico

Turkish Republic of Northern Cyprus Scott #831a. Issued 24 Sept. 2019 in a set of 2 in sheets of 12.



Myrrhinium atropurpureum var. octandrum

MYRTACEAE

Common name: Palo de Fierro

Synonyms: *M. lanceolatum*, *M. loranthoides*, *M. octandrum*, *M. peruvianum*, *M. rubiflorum*, *M. salicinum*, *M. sarcopetalum*, *Tetrastemon loranthoides*

Evergreen shrub to 4.5 m. Leaves leathery 3.2-4.7 cm long, 1-2 cm wide. Flowers in clusters of 11-15, 12-15 mm diameter, directly on branches, have pearly white petals with long red stamens. Found in secondary montane forests to 2,000 m in Colombia, Ecuador, Peru, Brazil, Argentina and Uruguay.

Uruguay Scott # 2696a. Issued 25 Nov. 2019 titled Spring Series 2019. Designed by Daniel Pereyra and printed by Sanfer srl, Montevideo in sheets of 8 in a quantity of 15,000.



Luehea divaricata MALVACEAE

Common name: Francisco Álvarez tree

Synonyms: *Alegria divaricata*, *Brofera mediterranea*, *Thespesia brasiliensis*

Tree to 20 m. Simple, alternate leaves, trinervated, 7-9 cm x 3-5 cm. White flowers with yellow tints, January to July. Wood used in carpentry. Found in riverine mountain areas, from Brazil, Paraguay, Uruguay and Argentina.

Uruguay Scott #2696c. Issued 25 Nov. 2019 for the Spring Series 2019.



Hypericum connatum HYPERICACEAE

Common name: Oreja de gato

Synonyms: *H. chlorifolium*, *H. connatum* var. *chlorifolium*, *H. connatum* var. *fiebrigii*, *H. connatum* var. *paraguariense*, *H. cyathifolium*, *Sarothra connata*

Perennial plant 23-100 cm. Opposite leaves fuse around stems. Ornamental and medicinal plant with yellow flowers. Found in pastures and dry rocky areas to 2,000 m in Argentina, Uruguay, Paraguay, Brazil and Bolivia.

Uruguay Scott #2696d. Issued 25 Nov. 2019 for Spring Series 2019.

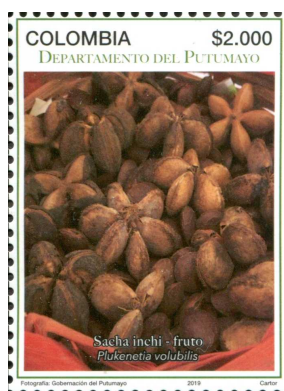
Alhagi psuedalhagi FABACEAE

Common name: Camelthorn

Undershrub 60-90 cm. Leaves simple, alternate, 1 to 2.5 cm by 3-8 mm, obovate or elliptic. Flowers 0.5-1 cm long, 0.2-0.5 cm broad, on spine-tipped branches, appear April-September, pink or reddish violet. Fruit 2-3.5 cm by 2-3 mm. Range: temperate and tropical Eurasia and Middle East. Used in Ayurvedic medicine.



Uzbekistan Scott #906c. Issued 10 Dec. 2019 in a sheet of 6 for Flora and fauna of Kyzylkum State Reserve. Drawn by Kim A. and designed by Kanvets E. Printed by multicolor offset on coated paper in 8,000 copies.

**Plukenetia volubilis** EUPHORBIACEAE

Common names: Inca nut, sacha inchi, sacha peanut, mountain peanut

Synonyms: *Fragariopsis paxii*, *Plukenetia macrostyla*, *P. peruviana*, *Sajorum volubile*

Evergreen climber to 2 m. Leaves 10-12 cm by 8-10 cm, alternate, cordate, serrate, covered with trichomes. Male flowers small white in clusters. Female flowers at base of inflorescence. Grows in disturbed areas or forest edges of lowland moist or wet forest below 900 m. Range: Brazil, Bolivia, Peru, Ecuador, Colombia, Venezuela, Surinam and Caribbean islands. Cultivated for many years. Leaves and roasted seeds are eaten, oil from nuts used in cosmetics.

Colombia Scott #1533j. Issued 27 Dec. 2019 in a minisheet of 12 promoting the Department of Putumayo. Perforated 13½ x 13. Printed by Cartor Security Printing, in a run of 53,892 stamps.

Viola dukadjinica VIOLACEAE

Perennial herb. Flowers yellow. Found on stony slopes, serpentine soils and subalpine meadows. Range: N. & E. Albania to NW. Greece. 1900-2600 m.

Kosovo Scott #386. Issued 24 August 2018 as part of a set of 5 flowers.

**Mammillaria magnimamma** CACTACEAE

Common names: Mexican pincushion

Synonyms: *M. centricirra*, *M. flavovirens*, *M. gladiata*, *M. macrantha*, *M. pentacantha*, *M. phymattothele*, *M. zuccainiana*

Perennial succulent, solitary at first, branching basally to produce a mound 50 cm diameter to 30 cm tall. Stems flattened to globose, 10-13 cm diameter, gray to greenish blue. Flowers in spring, white or cream with red midveins to deep purplish pink, 20-25 mm wide, long and in diameter. Grow on rocky substrates, including lava fields, in open xerophyllous vegetation. Widespread in central Mexico, 100 -2700 m.



Romania Scott #6396. Issued 3 March 2020 in a set of 4 for the 160th anniversary of the Dimitrie Brandza Botanical Garden in Bucharest. Designed by George Ursachi. Printed in sheets of 32 (35,712 stamps printed) and in minisheets of 5 stamps and a label (4,200 printed) by offset in 4 colors on chromo-gummed paper of British origin.

Schefflera heptaphylla ARALIACEAE

Common name: Ivy tree

Synonyms: 15 synonyms

Tree to 25 m. Semi-deciduous with 6-9 leaflets on petioles 10-30 cm. Leaflets elliptic to oblong, 7-18 cm by 3-5 cm. Panicles of yellowish green flowers from fall to early winter. Blueish black berries. Found in open forest and forest edges of evergreen broad-leaved forests on mountain slopes 100-2100 m in China, Japan, Myanmar, Thailand, Laos, Vietnam and Philippines. Bark and leaves used medicinally.



Macao Scott #1595d. Issued 20 April 2020 in a series of Medicinal Plants four stamps and a souvenir sheet. Designed by Lui Chak Keong. Printed by offset lithography with microprinting on paper with security fibers by Joh. Enschedé Security Print, The Netherlands in a quantity of 250,000.

Capparis zoharyi CAPPARACEAE

Common name: Jerusalem caper

Shrub, erect with twigs to 2 m, green to reddish purple. Stipules curved, decurrent, orange 0.3-0.6 cm long. Leaves rounded rarely ovate, 2-4 x 2-4 cm. Flowers March to October. Buds rounded. Flowers white with pink stamens. Found growing on walls, rocks and slopes in Mediterranean Europe, North Africa, Israel, Jordan, Lebanon, Syria at elevations 0-200 m.

Israel Scott #2263. Issued 9 June 2020 in a series of 3 featuring Summer Flowers. Designed by Tuvia Kurtz and Ronen Goldberg. Printed by offset with a microtext security mark by Cartor Security Printing in France in sheets of 15 with 5 labels.



Osbeckia octandra MELASTOMACEAE

Common name: Eight stamen osbeckia, heen bovitiya (Sinhala)

Subshrub with spreading habit to 2 m. Leaves, elliptical 1.5-6 x 0.5-2 cm with prominent veins. Flowers, 5-8 cm, pink to mauve and purple, solitary or in loose clusters. Grows close to water in grasslands or woodlands in Sri Lanka and in evergreen forest in the Western Ghats of India. Used in Ayurvedic medicine for liver ailments.

Sri Lanka Scott #2210. Issued on 13 December 2019 in a set of 3 Provincial Flowers. Designed by P. Isuru Chatthuranga. Printed in 4 colors on sheets of 100, in quantity of 300,000.

POCZTA POLSKA BUTTERFLIES FROM CENTRAL AND SOUTH AMERICA

From the official philatelic site of Poczta Polska comes the following:

On October 8 this year 4 postage stamps with a value of PLN 3.30 issued "Butterflies" were put into circulation.

The individual stamps show butterflies from South and Central America:

1) on the first - the Central American butterfly, *Danaus plexippus*, along the left edge of the stamp there is the name of the butterfly: *Danaus plexippus*, and along the upper edge the name of the issue: Butterflies,



2) on the second - the American butterfly South, *Agrias narcissus*, along the left edge of the stamp there is the name of the butterfly: *Agrias narcissus*, and along the top edge the name of the issue: Butterflies,

3) on the third - South America butterfly, *Morpho helene*, along the left edge of the stamp are the name of the butterfly: *Morpho helene*, and along the top edge top edge issue name: Butterflies,



4) on the fourth - the South American butterfly, *Morpho portis*, along the left edge of the stamp there is the name of the butterfly: *Morpho portis*, and along the top edge the name of the issue: Butterflies.



In the lower right corner of the stamps mentioned in sec. 2 there is an inscription: POLSKA, and in the upper left corner their value is PLN 3.30. The stamps were printed using the offset technique, on fluorescent paper, in the 45 x 45 mm format, in a circulation of 168,000 each. The sales sheet contains 8 stamps.

On this occasion, 4 FDC envelopes were issued.

The author of the project: Andrzej Gosik

<http://filatelistyka.poczta-polska.pl>



MAMMALIA

Editor
Michael Prince, LM68



New Listings

| Scott# | Denom | Common Name/Scientific Name | Family/Subfamily | Code |
|---|-------------|--|----------------------|------|
| AUSTRALIA | | | | |
| 2019 December 16 (Marsupials) Set/4 perf 14x14¼ | | | | |
| 5055 | \$1.10 | Koala, <i>Phascolarctos cinereus</i> | Phascolarctidae | A |
| 5056 | \$1.10 | Common Wombat, <i>Vombatus ursinus</i> | Vombatidae | A |
| 5057 | \$2.20 | Short-beaked Echidna, <i>Tachyglossus aculeatus</i> | Tachyglossidae | A |
| 5058 | \$3.30 | Sugar Glider, <i>Petaurus breviceps</i> | Petauridae | A |
| SA die cut 11¼ | | | | |
| 5059 | \$1.10 | Koala, <i>Phascolarctos cinereus</i> | Phascolarctidae | A |
| 5059a | | Booklet pane of 10 | | |
| 5060 | \$1.10 | Common Wombat, <i>Vombatus ursinus</i> | Vombatidae | A |
| 5060a | | Booklet pane of 20 | | |
| 5060b | | Horiz. coil pair #5059, 5060 | | |
| 2020 January 21 (Tree-dwelling Mammals) Set/3, SS/3 | | | | |
| 5089 | \$1.10 | Bennett's Tree Kangaroo, <i>Dendrolagus bennettianus</i> | NEW Macropodidae | A |
| 5090 | \$1.10 | Spectacled Flying Fox, <i>Pteropus conspicillatus</i> | NEW Pteropodidae | A |
| 5091 | \$1.10 | Lemuroid Ringtail Possum, <i>Hemibelideus lemuroides</i> | NEW Pseudocheiridae | A |
| 5091a | | Souvenir sheet of 3 #5089-91 | | |
| BELARUS | | | | |
| 2020 January 9 (Young Carnivores) Set/4, SS/8 | | | | |
| 1166 | NVI (54k) | Red Fox, <i>Vulpes vulpes</i> | Canidae | A |
| 1167 | NVI (1.32r) | Grey Wolf, <i>Canis lupus</i> | Canidae | A |
| 1168 | NVI (1.56r) | Brown Bear, <i>Ursus arctos</i> | Ursidae | A |
| 1169 | NVI (1.68r) | Eurasian Lynx, <i>Lynx lynx</i> | Felidae | A |
| BULGARIA | | | | |
| 2020 January 29 (New Year 2020 – Year of the Rat) SS/1 | | | | |
| 4928 | 3l | Brown Rat, <i>Rattus norvegicus</i> | Muridae | A |
| CROATIA | | | | |
| 2020 February 20 (Small Mammals) Set/4 | | | | |
| 1166a | 3.10k | Shetland Pony, <i>Equus caballus</i> | Equidae | A |
| 1166c | 3.10k | Four-toed Hedgehog, <i>Atelerix albiventris</i> | Erinaceidae | A |
| 1166d | 3.10k | Vietnamese Pot-bellied Pig, <i>Sus scrofa domesticus</i> | Suidae | A |
| CUBA | | | | |
| 2019 November 22 (Bats) Set/5, SS/1 | | | | |
| 6220 | 5c | Cuban Greater Funnel-eared Bat, <i>Natalus primus</i> | NEW Natalidae | A |
| 6221 | 20c | Cuban Lesser Funnel-eared Bat, <i>Chilonatalus macer</i> | NEW Natalidae | A |
| 6222 | 30c | Lesser Little Mastiff Bat, <i>Mormopterus minutus</i> | NEW Molossidae | A |
| 6223 | 85c | Cuban Yellow Bat, <i>Lasiurus insularis</i> | NEW Vespertilionidae | A |
| 6224 | 90c | Cuban Evening Bat, <i>Nycticeius cubanus</i> | NEW Vespertilionidae | A |
| 6225 | 1p05 | Cuban Flower Bat, <i>Phyllonycteris poeyi</i> | NEW Phyllostomidae | A |
| 6226 | 1p | Pallid Bat, <i>Antrozous pallidus koopmani</i> | Vespertilionidae | A SS |

DENMARK**2020 January 2** (Mammals) Set/5

| | | | | |
|-------|----------------------------|--|-------------|---|
| 1835 | 10k | European Roe Deer, <i>Capreolus capreolus</i> | Cervidae | A |
| 1836 | 10k | West European Hedgehog, <i>Erinaceus europaeus</i> | Erinaceidae | A |
| 1837 | 10k | Red Squirrel, <i>Sciurus vulgaris</i> | Sciuridae | A |
| 1838 | 10k | Hazel Dormouse, <i>Muscardinus avellanarius</i> | Gliridae | A |
| 1839 | 10k | Stoat (Ermine), <i>Mustela erminea</i> | Mustelidae | A |
| 1839a | Booklet pane of 10, 2 each | | | |

ECUADOR**2019 October 29** (Tiputini Biodiversity Station, 25th Anniversary) Sheet/9

| | | | | |
|-------|--------|---|----------------------|---|
| 2242a | 25c | Smoky Bat, <i>Amorphochilus schnablii</i> | NEW Vespertilionidae | A |
| 2242b | 50c | Tschudi's Tailless Bat, <i>Anoura peruana</i> | NEW Phyllostomidae | A |
| 2242c | 75c | Vampire Bat, <i>Desmodus rotundus</i> | Phyllostomidae | A |
| 2242d | \$1 | Northern Ghost Bat, <i>Diclidurus albus</i> | NEW Emballonuridae | A |
| 2242e | \$1.25 | Guainan Bonneted Bat, <i>Eumops maurus</i> | NEW Molossidae | A |
| 2242f | \$1.50 | Lesser Bulldog Bat, <i>Noctilio albiventris</i> | NEW Phyllostomidae | A |
| 2242g | \$1.75 | Visored Bat, <i>Sphaeronycteris toxophyllum</i> | NEW Phyllostomidae | A |
| 2242h | \$5 | Fringe-lipped Bat, <i>Trachops cirrhosus</i> | NEW Phyllostomidae | A |

2019 November 22 (Tourism)

| | | | | |
|-------|------------------------|--|-----------------|---|
| 2245 | Booklet pane of 8, a-h | | | |
| 2245d | 50c | Galapagos Sea Lion, <i>Zalophus wollebaeki</i> | Otariidae | A |
| 2246d | 50c | Humpback Whale, <i>Megaptera novaeangliae</i> | Balaenopteridae | A |

FAROE ISLANDS**2020 February 24** (Seal Pup)

| | | | | |
|--------------------------|-----|--------------------------------------|----------|---|
| 745 | 20k | Grey Seal, <i>Halichoerus grypus</i> | Phocidae | A |
| SA die cut 13x12¾ | | | | |
| 746 | 20k | Grey Seal, <i>Halichoerus grypus</i> | Phocidae | A |

FINLAND**Aland****2020 October 24** (New Year 2020 – Year of the Rat) SS/2

| | | | | |
|------|-----|--|---------|--------|
| 427a | 60c | Long-tailed Field Mouse, <i>Apodemus exulans</i> | Muridae | A SS Z |
| 427b | 60c | Long-tailed Field Mouse, <i>Apodemus exulans</i> | Muridae | A SS Z |

FRANCE**2020 February 7** (Animals and Their Reflections in Water) Set/12

| | | | | |
|------|----------|--|-----------------|---|
| 5783 | NVI(97c) | Plains Zebra, <i>Equus quagga</i> | Equidae | A |
| 5784 | NVI(97c) | Siberian Tiger, <i>Panthera tigris altaica</i> | Felidae | A |
| 5785 | NVI(97c) | Lion, <i>Panthera leo</i> | Felidae | A |
| 5786 | NVI(97c) | Grey Seal, <i>Halichoerus grypus</i> | Phocidae | A |
| 5787 | NVI(97c) | Polar Bear, <i>Ursus maritimus</i> | Ursidae | A |
| 5790 | NVI(97c) | Llama, <i>Lama glama</i> | Camelidae | A |
| 5794 | NVI(97c) | Humpback Whale, <i>Megaptera novaeangliae</i> | Balaenopteridae | A |

5794a Booklet pane of 12 #5783-94

2020 March 6 (Cabinet of Curiosities) Set/12

| | | | | |
|------|----------|--|----------------|---|
| 5808 | NVI(97c) | Indian Rhinoceros, <i>Rhinoceros unicornis</i> | Rhinocerotidae | A |
| 5809 | NVI(97c) | Giant Pangolin, <i>Manis gigantea</i> | Manidae | B |
| | | Seven-banded Armadillo, <i>Dasypus septemcinctus</i> | Dasypodida | B |
| | | Nine-banded Armadillo, <i>Dasypus novemcinctus</i> | Dasypodidae | B |
| | | Nine-banded Armadillo, <i>Dasypus novemcinctus</i> | Dasypodidae | B |

5810a Booklet pane of 12, #5799-5810

| | | | |
|-------------------------|-----------|---|-----------------------|
| FRENCH POLYNESIA | | 2020 January 24 (New Year 2020 – Year of the Rat) Single | |
| 1242 | 140fr | Polynesian Rat, <i>Rattus exulans</i> | NEW Muridae A |
| GREAT BRITAIN | | | |
| Guernsey | | 2020 May 2 (Giraffe) SS/1 | |
| 1547 | £3 | Kordofan Giraffe, <i>Giraffa camelopardalis antiquorum</i> | Giraffidae A SS Z |
| ICELAND | | 2020 May 7 (Whale Watching) Set/2 | |
| 1517 | NVI(315k) | North Atlantic Right Whale, <i>Eubalaena glacialis</i> | Balaenidae A |
| KENYA | | 2018 May 11 (Last Remaining Northern Rhinoceroses) Set/3, SS/1 | |
| 910 | 50sh | Northern White Rhinoceros, <i>Ceratotherium simum cottoni</i> | Rhinocerotidae A |
| 911 | 130sh | Same species | A |
| 912 | 160sh | Same species | A |
| 913 | 200sh | Same species | A SS |
| ROMANIA | | 2020 January 28 (Animals of Arctic Areas) Set/4 | |
| 6375 | 1180 | Grey Wolf, <i>Canis lupus</i> | Canidae A |
| 6375a | | Sheet of 5 + label | |
| 6377 | 7l | Arctic Fox, <i>Vulpes lagopus</i> | Canidae A |
| 6377a | | Sheet/5 + label | |
| 6378 | 19l | Arctic Hare, <i>Lepus arcticus</i> | Leporidae A |
| 6378a | | Sheet/5 + label | |
| SRI LANKA | | December 30, 2019 (Elephant Casket Bearer) Single | |
| 2213 | 15r | Asiatic Elephant, <i>Elephas maximus</i> | Elephantidae A |
| THAILAND | | 2019 September 11 (WWF) Set/4 | |
| 3077 | 3b | Bryde's Whale, <i>Balaenoptera edeni</i> | Balaenopteridae A |
| 3078 | 3b | Omura's Whale, <i>Balaenoptera omurai</i> | NEW Balaenopteridae A |
| TRISTAN DA CUNHA | | 2019 November 19 (Vagrant Species) Set/4 | |
| 1166 | 60p | Leopard Seal, <i>Hydrurga leptonyx</i> | Phocidae A |
| TUVALU | | 2019 April 10 (Dolphins) Sheet/3, SS/1 | |
| 1435a | \$2 | Striped Dolphin, <i>Stenella coeruleoalba</i> | Delphinidae A |
| 1435b | \$2 | Same species | A |
| 1435c | \$2 | Same species | A |
| 1436 | \$7 | Same species | A SS |



ORNITHOLOGY

Editor

Glenn G. Mertz, BU 1455



Corrections/Updates

HUNGARY, 67 (1), page 41 Correction: Sc#4436, value should be 350fo, not 300fo

GREAT BRITAIN (Jersey), V68(2), page 127

Correction: Sc#2172, listed as Barn Owl, should be Barn Swallow.

KOSOVO, V68(3), page 130

Correction; Sc#366c misspelled as Startling, correct spelling to Starling.

KYRGYZSTAN, V58(1), page 32

Correction: Sc#82. Genus name should be *Anthropoides*, not *Grus*.

MONGOLIA, V67(1), page 41

Correction: Sc#2877, Snowy Owl. Genus name should be *Scandiacus*, not *Scandica*.

CUBA, V69(2), page 109.

Correction: Cuba Sc#6113. Correct value from 92c to 90c.

COOK ISLAND, V69(2), page 107

Correction: Sc#1594a, did not have the species name listed of *Tenuirostris*. Add this to the listing for Sc#1594a.

ESTONIA, V68(4), page 266

Correction: "Same species" in flight should be Sc#894

DENMARK, V69(1), page 39

Correction: Sc#814. English name missing, should be Mute Swan.

NORTH MACEDONIA, V68(4), page 268

Correction: Sc#814 should be listed as Eurasian Marsh-Harrier, not Eurasian March-Harrier.

PAPUA NEW GUINEA, V67(3), page 230

Update: N/A for the SS, 13k value should be Sc#1880.

ROMANIA, V69(1), page 48

Correction: Genus name should be *Tetrao*, not *Lyrurus*, which is captioned on the stamp.

ST. MARTIN, V68(1), page 43

Correction: Sc#166. Correct English name to Red-tailed Black-Cockatoo.

TONGA, V68(4), page 273

Correction: Sc#1335s should be Sc#1334a

SOLOMON ISLANDS, V64(4), page 259

Correction: SS should be Sc#1218

| Scott# | Denom | Commonname/Scientific Name | Family/Subfamily | Code |
|---|------------|--|------------------|------|
| New issues | | | | |
| ANTIGUA & BARBUDA | | | | |
| 2018 November 1 (Apollo 11 Landing 50y) Set/3 | | | | |
| 3435a-c | \$6.00 | Bald Eagle, <i>Haliaeetus leucocephalus</i> | Accipitridae | C* |
| 3436 | \$10.00 | Same species. Contains one stamp 38x1 mm | | |
| AUSTRALIA | | | | |
| 2020 April 21 (State & Territory Birds) Set/6 | | | | |
| 5134 | \$1.10 | Gang-gang Cockatoo, <i>Callocephalon fimbriatum</i> | Cacatuidae | A* |
| 5135 | \$1.10 | Helmeted-tufted Honeyeater, <i>Lichenostomus cratitius</i> | Meliphagidae | |
| 5136 | \$1.10 | Wedge-tailed Eagle, <i>Aquila audax</i> | Accipitridae | |
| 5137 | \$1.10 | Laughing Kookaburra, <i>Dacelo novaeguineae</i> | Alcedinidae | |
| 5138 | \$1.10 | Brolga, <i>Antigone rubicunda</i> | Gruidae | |
| 5139 | \$1.10 | Black Swan, <i>Cygnus atratus</i> | Anatidae | |
| 5140a-5145a | | Same six birds in SA format | | |
| AZERBAIJAN | | | | |
| 2019 December 4 (Landscapes) Set of 8 SS | | | | |
| 1263 | 1m SS | White Stork, <i>Ciconia ciconia</i> | Ciconiidae | B* |
| CAMBODIA | | | | |
| 2019 April 24 (Tonle Sap) Set/7, SS/2 | | | | |
| 2512 | 900r | Sarus Crane, <i>Antigone antigone</i> | Gruidae | A* |
| 2518 | 6000r | Helmeted Hornbill, <i>Buceros vigil</i> | Bucerotidae | |
| N/A | 6000r SS** | Oriental Darter, <i>Anhinga melanogaster</i> | Anhingidae | |
| Note:--This SS, existing with a different bird, has no assigned number because it exists in limited quantities. | | | | |
| CARIBBEAN NETHERLANDS | | | | |
| 2018 June 19 Set/24 | | | | |
| A* | | | | |
| Back in V66(3), page 210, I listed a set of 24 stamps issued September 9, 2016, which Scott Publishing had not yet assigned numbers to. If you read that article about the stamps, which Scott listed as "Personalized" and the reason for not listing them, you will get an understanding about these same 24 stamps, that have been reissued by the Caribbean Netherlands, and again not getting assigned numbers. This new issuance of the same stamps now have a value of \$.99, versus \$.88 on the 2016 issued stamps. On the 2016 issued stamps I "assigned" my own numbers 47a-t, which you will not find in a Scott Publication. | | | | |
| I'm relisting these same stamps again, more for the subscribers to this journal, but will not "assign" my own numbers but will list them as N/As. | | | | |
| N/A | 99c | Bananaquit, <i>Coereba flaveola</i> | Thraupidae | |
| N/A | 99c | Stilt Sandpiper, <i>Calidris himantopus</i> | Scolopacidae | |
| N/A | 99c | Ruddy Turnstone, <i>Arenaria interpres</i> | Scolopacidae | |
| N/A | 99c | Green Heron, <i>Butorides virescens</i> | Ardeidae | |
| N/A | 99c | Sanderling, <i>Calidris alba</i> | Scolopacidae | |
| N/A | 99c | Great Egret, <i>Ardea alba</i> | Ardeidae | |
| N/A | 99c | Ruby-throated Hummingbird <i>Archilochus colubris</i> | Trochilidae | |
| N/A | 99c | Brown-throated Parakeet, <i>Eupsittula pertinax anthogenia</i> | Psittacidae | |
| N/A | 99c | Yellow-shouldered Parrot, <i>Amazona barbadensis</i> | Psittacidae | |
| N/A | 99c | Whimbrel, <i>Numenius phaeopus</i> | Scolopacidae | |
| N/A | 99c | Peregrine Falcon, <i>Falco peregrinus</i> | Falconidae | |

CARIBBEAN NETHERLANDS (continued)

| | | | |
|-----|-----|--|------------------|
| N/A | 99c | American Flamingo, <i>Phoenicopterus ruber</i> | Phoenicopteridae |
| N/A | 99c | American Golden-Plover, <i>Pluvialis dominica</i> | Charadriidae |
| N/A | 99c | Tropical Mockingbird, <i>Mimus gilvus</i> | Mimidae |
| N/A | 99c | Semipalmated Sandpiper, <i>Calidris pusilla</i> | Scolopacidae |
| N/A | 99c | Little Egret, <i>Egretta garzetta</i> | Ardeidae |
| N/A | 99c | Venezuelan Troupial, <i>Icterus icterus</i> | Icteridae |
| N/A | 99c | Reddish Egret, <i>Egretta rufescens</i> | Ardeidae |
| N/A | 99c | American Yellow Warbler, <i>Setophaga petechia aestiva</i> | Parulidae |
| N/A | 99c | Osprey, <i>Pandion haliaetus</i> | Pandionidae |
| N/A | 99c | Lesser Yellowlegs, <i>Tringa flavipes</i> | Scolopacidae |
| N/A | 99c | Brown Pelican, <i>Pelecanus occidentalis</i> | Pelecanidae |
| N/A | 99c | Wilson's Snipe, <i>Gallinago delicata</i> | Scolopacidae |

2019 October 4 Set/24, inscribed "Saba"

A*

| | | | |
|------|------|--|---------------|
| 111a | 150c | Semipalmated Plover, <i>Charadrius semipalmatus</i> | Charadriidae |
| 111b | 150c | American Redstart, <i>Setophaga ruticilla</i> | Parulidae |
| 111c | 150c | Blue-winged Teal, <i>Spatula discors</i> | Anatidae |
| 111d | 150c | Brown Pelican, <i>Pelecanus occidentalis</i> | Pelecanidae |
| 111e | 150c | Bridled Tern, <i>Onychoprion anaethetus</i> | Laridae |
| 111f | 150c | Black-and-white Warbler, <i>Mniotilta varia</i> | Parulidae |
| 111g | 150c | Red-footed Booby, <i>Sula sula</i> | Sulidae |
| 111h | 150c | Belted Kingfisher, <i>Megaceryle alcyon</i> | Alcedinidae |
| 111i | 150c | Green-throated Carib, <i>Eulampis holosericeus</i> | Trochilidae |
| 111j | 150c | Osprey, <i>Pandion haliaetus</i> | Pandionidae |
| 111k | 150c | White-tailed Tropicbird, <i>Phaethon lepturus</i> | Phaethontidae |
| 111l | 150c | Northern Parula, <i>Setophaga americana</i> | Parulidae |
| 111m | 150c | Carib Grackle, <i>Quiscalus lugubris</i> | Icteridae |
| 111n | 150c | Hen Harrier, <i>Circus cyaneus</i> | Accipitridae |
| 111o | 150c | Yellow-bellied Sapsucker, <i>Sphyrapicus varius</i> | Picidae |
| 111p | 150c | Lesser Antillean Bullfinch, <i>Loxigilla noctis</i> | Thraupidae |
| 111q | 150c | Lesser Yellowlegs, <i>Tringa flavipes</i> | Scolopacidae |
| 111r | 150c | Yellow-crowned Night-Heron, <i>Nyctanassa violacea</i> | Ardeidae |
| 111s | 150c | Bananaquit, <i>Coereba flaveola</i> | Thraupidae |
| 111t | 150c | Laughing Gull, <i>Leucophaeus atricilla</i> | Laridae |

ECUADOR**2019 November 22** (Tourism) set/8

A*

| | | | |
|-------|--------|---|------------|
| 2245e | \$0.75 | Waved Albatross, <i>Phoebastria irrorata</i> | Diomedidae |
| 2245f | \$0.75 | Swallow-tailed Gull, <i>Creagrus furcatus</i> | Laridae |

FRANCE**2019 November 12** (Tromelin Island) Single

B*

| | | | |
|---|-------|---|------------------|
| 5760 | €1.30 | Masked Booby, <i>Sula dactylatra</i> | Sulidae |
| | | Red-footed Booby, <i>Sula sula</i> | Sulidae |
| 2020 February 7 (Animals & their Reflectionsin Water) Set/12 | | | |
| 5788 | (97c) | King Penguin, <i>Aptenodytes patagonicus</i> | Spheniscidae |
| 5789 | (97c) | Greater Flamingo, <i>Phoenicopterus ruber</i> | Phoenicopteridae |

FRANCE (continued)

| | | | |
|---|--------|--|-----------|
| 5792 | (97c) | Squacco Heron, <i>Ardeola ralloides</i> | Ardeidae |
| 5793 | (97c) | Herring Gull, <i>Larus argentatus</i> | Laridae |
| 2020 March 6 (Curiosities) Set/12 A* | | | |
| 5803 | ((97c) | Burrowing Owl, <i>Athene cunicularia</i> | Strigidae |

GREAT BRITAIN (Alderney) 2019 July 24 (John Keats 200th Anniversary) Set/6 B*

| | | | |
|-----|-----|--|--------------|
| 630 | 80p | Common Nightingale, <i>Luscinia megarhynchos</i> | Muscicapidae |
|-----|-----|--|--------------|

GREENLAND**2019 June 21** (Europa) Set/2 A*

| | | | |
|-----|-----|---|-------------|
| 817 | 15k | Rock Ptamigan, <i>Lagopus muta</i> (UR) | Phasianidae |
| | | Mallard, <i>Anas platyrhynchos</i> (LR) | Anatidae |
| 817 | 17k | Snow Bunting, <i>Plectrophenax nivalis</i> (LS) | Calcariidae |
| | | Northern Raven, <i>Corvus corax</i> (CTR) | Corvidae |

GRENADA**2019 February 11** (Parrot type of 2013) Single A*

| | | | |
|-------|-----|--|-------------|
| 3928a | 50c | Golden-capped Parakeet, <i>Aratinga auricapillus</i> | Psittacidae |
|-------|-----|--|-------------|

GUINEA-BISSAU**2020 February 7** (Warblers) Set/4, ss/1 A*

| | | | |
|-----|-----------|---|----------------|
| N/A | 150fr | Aquatic Warbler, <i>Acrocephalus paludicola</i> | Acrocephalidae |
| N/A | 500fr | Cetti's Warbler, <i>Cettia cetti</i> New | Scotocercidae |
| N/A | 750fr | Common Chiffchaff, <i>Phylloscopus collybita</i> | Phylloscopidae |
| N/A | 1500fr | Dartford Warbler, <i>Sylvia undata</i> | Sylviidae |
| N/A | 3000fr SS | Garden Warbler, <i>Sylvia borin</i> | Sylviidae |
| | Margin | Eurasian Blackcap, <i>Sylvia atricapilla</i> (LL) | Sylviidae |
| | | Sedge Warbler, <i>Acrocephalus schoenobaenus</i> (LR) | Acrocephalidae |

2020 February 7 (Owls) Set/4, SS/1 A*

| | | | |
|-----|-----------|---------------------------------------|-----------|
| N/A | 100ffr | Great Gray Owl, <i>Strix nebulosa</i> | Strigidae |
| N/A | 500fr | Barn Owl, <i>Tyto alba</i> | Tytonidae |
| N/A | 750fr | Snowy Owl, <i>Bubo scandiacus</i> | Strigidae |
| N/A | 1500fr | Little Owl, <i>Athene noctua</i> | Strigidae |
| N/A | 3000fr SS | Long-eared Owl, <i>Asio otus</i> | Strigidae |
| | Margin | Barn Owl, <i>Tyto alba</i> | Tytonidae |

| | | | |
|--|--|-----------------------------------|-----------|
| | | Snowy Owl, <i>Bubo scandiacus</i> | Strigidae |
|--|--|-----------------------------------|-----------|

2020 February 7 (Birds of Paradise) Set/4, SS/1 A*

| | | | |
|-----|-----------|---|---------------|
| N/A | 100fr | King Bird-of-Paradise, <i>Cicinnurus regius</i> | Paradisaeidae |
| N/A | 500fr | Raggiana Bird-of-Paradise, <i>Paradisaea raggiana</i> | Paradisaeidae |
| N/A | 750fr | Same species | |
| N/A | 1500fr | Wilson's Bird-of-Paradise, <i>Cicinnurus respublica</i> | Paradisaeidae |
| N/A | 3000fr SS | Greater Bird-of-Paradise, <i>Paradisaea apoda</i> | Paradisaeidae |
| | Margin | Lesser Bird-of-Paradise, <i>Paradisaea minor</i> (LL) | Paradisaeidae |
| | | Black Sickbill, <i>Epimachus fastuosus</i> (LR) | Paradisaeidae |

2020 February 27 (Kingfishers) Set/4, SS/1 A*

| | | | |
|-----|-------|--|-------------|
| N/A | 800fr | Crested Kingfisher, <i>Megaceryle lugubris</i> | Alcedinidae |
| N/A | 800fr | Little Kingfisher, <i>Ceyx pusillus</i> | Alcedinidae |

GUINEA-BISSAU (continued)

| | | | |
|-----|-----------|---|-------------|
| N/A | 800fr | Azure Kingfisher, <i>Ceyx azureus</i> | Alcedinidae |
| N/A | 800fr | Collared Kingfisher, <i>Todiramphus chloris</i> | Alcedinidae |
| N/A | 3300fr SS | Common Kingfisher, <i>Alcedo atthis</i> | Alcedinidae |
| | Margin | Giant Kingfisher, <i>Megaceryle maxima</i> | Alcedinidae |

2020 February 27 (Owls) Set/4, SS/1

A*

| | | | |
|-----|-----------|--|-----------|
| N/A | 800fr | Barn Owl, <i>Tyto alba</i> | Tytonidae |
| N/A | 800fr | Great Gray Owl, <i>Strix nebulosa</i> | Strigidae |
| N/A | 800fr | Snowy Owl, <i>Bubo scandiacus</i> | Strigidae |
| N/A | 800fr | Long-eared Owl, <i>Asio otus</i> | Strigidae |
| N/A | 3300fr SS | Burrowing Owl, <i>Athene cunicularia</i> | Strigidae |
| | Margin | Eurasian Eagle-Owl, <i>Bubo bubo</i> | Strigidae |

ITALY**2019 October 4** (Europa) Set/2

A*

| | | | |
|------|---------|--|--------------|
| 3602 | (€1.10) | Bonelli's Eagle, <i>Aquila fasciata</i> | Accipitridae |
| 3603 | (€2.60) | European Goldfinch, <i>Carduelis carduelis</i> | Fringillidae |

KIRIBATI**2019 July 1**

A*

In Vol 69(2), page 112, fI listed the four stamps for this date. At that time no SS was listed. Scott has now noted a sheet, Sc#1057a, for the four stamp of 1054-1057.

LITHUANIA**2020 January 31** Single

A*

| | | | |
|------|-------|--------------------------------------|-----------|
| 1160 | €0.75 | Boreal Owl, <i>Aegolius funereus</i> | Strigidae |
|------|-------|--------------------------------------|-----------|

MACAU**2018 October 9** (Birds and Spring Flowers) Set/4

A*

| | | | |
|-------|-------|---------------------------------------|-------------|
| 1537d | 5.50p | Indian Peafowl, <i>Pavo cristatus</i> | Phasianidae |
|-------|-------|---------------------------------------|-------------|

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

A*

| | | | |
|------|-------|------------------------------------|------------|
| 2921 | 1300t | Whooper Swan, <i>Cygnus cygnus</i> | Anatidae |
| 2926 | 1300t | Saker Falcon, <i>Falco cherrug</i> | Falconidae |

2019 November 22 (UNESCO Intangible Heritage) Set/5

B*

| | | | |
|------|------|--|--------------|
| 2929 | 200t | Golden Eagle, <i>Aquila chrysaetos</i> | Accipitridae |
|------|------|--|--------------|

NEW ZEALAND**2018 September 21** ((35th Asian International Stamp Exhibition) Set/3

A*

The three stamps are Sc#2811-2813, as listed on page 308, in V67(4). The Sc# for this sheet is 2813ba.

ROSS DEPENDENCY**2019 September 13** (Cape Adare) Set/5

C*

| | | | |
|------|--------|--|--------------|
| L165 | \$3.30 | Adeliae Penguin, <i>Pygoscelis adeliae</i> | Spheniscidae |
|------|--------|--|--------------|

ROMANIA**2020 January 28** (Arctic animals) Set/4

A*

| | | | |
|-------|--------------------|-----------------------------------|-----------|
| 6376 | 2l | Snowy Owl, <i>Bubo scandiacus</i> | Strigidae |
| 6376a | Sheet of 5 + label | | |

SOUTH AFRICA**2017 October 11**

A

I've been holding a photo of a single stamp on an exhibition SS, and not seeing it get listed by Scott Publishing I emailed them for information. The sheet has a stamp of an African Pygmy Kingfisher, *Ispidina picta*, and it was for "Sadapex 2017", which was held in Edenvale, October. 11-14, 2017. The photo also has on the left side of the sheet under the title for "Sadapex 2017" another title of "National Philatelic Exhibition" and below that the following verbage "Sold in aid of Philatelic Promotion R20.00". The stamp on the exhibition SS, is listed as "Standard Postage"

The reply I received from Martin J. Frankevicz, at Amos Media, for Scott Publishing on August 27, 2020 is as follows. "We

have not listed the Sadapex sheet that was announced in the December 2017 New Issues Bulletin put out by the South African Post Office. The announcement said the sale of the sheet has been suspended until further notice. The sheet was not offered on the accompanying order form in that bulletin, nor was it offered on any later order form. We received the sheet in question from a dealer, but beyond what is mentioned on the December 2017 bulletin, we have no clue as to how, when or under what circumstances this sheet was offered to the public”.

I'll keep the “Sadapex 2017” SS in a pending file should anything be listed by Scott Publishing going forward, but at this point it may be a dead issue.

SURINAM**2014 November 24**

C*

A SS, Sc#1490a-b, for Suriname's Association with Van Reijen International Agencies, Ltd. (Philatelic Agent) 40th Anniversary, featuring stamps printed by their agent, of which two were birds. Also on the right side of the sheet, in a vertical line is the title “40 Years of Serving Suriname Philately” and the same on the left side in whatever language is spoken in Suriname.

| | | | |
|-------|--------|--|--------------|
| 1490b | \$6.00 | Paradise Tanager, <i>Tanager chilensis</i> | Thraupidae |
| | | (Issued in 1998) | |
| | | Golden-rumped Euphonia, <i>Euphonia cyanocephala</i> | Fringillidae |
| | | (Issued in 2005) | |

2020 June 3 Set/12 with 4 labels

A*

| | | | |
|-------|---------|---|-------------|
| 1598a | \$3.00 | Glittering-throated Emerald, <i>Amazilia fimbriata</i> | Trochilidae |
| 1598b | \$6.00 | Rufous-capped Motmot, <i>Baryphthengus martii</i> V69(3) | Momotidae |
| 1598e | \$9.00 | Amazon Kingfisher, <i>Chloroceryle amazona</i> | Alcedinidae |
| 1598d | \$10.00 | Green Kingfisher, <i>Chloroceryle americana</i> | Alcedinidae |
| 1598e | \$11.00 | Green-and-rufous Kingfisher, <i>Chloroceryle inda</i> +label | Alcedinidae |
| 1598f | \$12.00 | Rufous Jacamar, <i>Galbula ruficauda</i> | Galbulidae |
| 1598g | \$13.00 | Three-toed Jacamar, <i>Galbula tridactyla</i> +label | Galbulidae |
| 1598h | \$14.00 | Black-fronted Nunbird, <i>Monasa nigrifrons</i> +label V69(3) | Bucconidae |
| 1598i | \$15.00 | White-eared Puffbird, <i>Nystalus chacuru</i> +label V69(3) | Bucconidae |
| 1598k | \$16.00 | Blue-crowned Trogon, <i>Trogon curucui</i> | Trogonidae |
| 1598k | \$20.00 | Surucura Trogon, <i>Trogon surrucura</i> V69(3) | Trogonidae |
| 1598l | \$21.00 | Green-backed Trogon, <i>Trogon viridis</i> | Trogonidae |

TRISTAN da CUNHA**2019 November 19 (Vagrant Species) Set/4**

A*

| | | | |
|------|-----|---|------------|
| 1165 | 45p | Yellow-billed Cuckoo, <i>Coccyzus americanus</i> | Cuculidae |
| 1168 | £2 | Indian Yellow-nosed Albatross, <i>Thalassarche chlororhynchos carteri</i> | Diomedidae |

UNITED NATIONS (NY)**2020 February 17 (Endangered Species) Set/4**

A*

| | | | |
|-------|--------|--|------------------|
| 1233 | \$1.20 | Egyptian Vulture, <i>Neophron percnopterus</i> | Accipitridae |
| 1234 | \$1.20 | Andean Flamingo, <i>Phoenicoparrus andinus</i> | Phoenicopteridae |
| 1235a | | Block of 4, #1232-1235. | |

UNITED NATIONS (Geneva)**2020 February 17 (Endangered Species) Set/4**

A*

| | | | |
|------|--------|--|------------|
| 680 | 1.50fr | Siberian Crane, <i>Leucogeranus leucogeranus</i> | Gruidae |
| 682 | 1,50fr | Saker Falcon, <i>Falco cherrug</i> | Falconidae |
| 683a | | Block of 4, #680-683 | |

UNITED NATIONS (Vienna)**2020 February 17 (Endangered Species) Set/4**

A*

| | | | |
|------|-------|---|-------------|
| 656 | €0.90 | Dalmatian Pelican, <i>Pelecanus crispus</i> | Pelecanidae |
| 658a | | Block of 4, #655-658 | |

VANUATU

2019 October 4 Set/4

A*

| | | | |
|------|------|--|--------------|
| 1112 | 90v | Swamp Harrier, <i>Circus approximans</i> | Accipitridae |
| 1113 | 150v | Brahminy Kite, <i>Haliastur indus</i> | Accipitridae |
| 1114 | 180v | Brown Goshawk, <i>Accipiter fasciatus vigilax</i> (ssp) | Accipitridae |
| 1115 | 300v | Peregrine Falcon, <i>Falco peregrinus nesiotes</i> (ssp) | Falconidae |

Brilliant Bugs from the Royal Mail

All six Brilliant Bugs Special Stamps featuring wildlife illustrator Richard Lewington's stunning artwork are presented in a fold-out souvenir containing fascinating facts about the insects and pollination.

President of the Royal Entomological Society, Professor Helen Roy MBE, writes about pollination, the decline in pollinating insects and how we can conserve them.

The set includes three vertical se-tenant pairs of Special Stamps. Two First Class, two £1.45 and two £1.70 stamps.

First Class Common carder bee (*Bombus pascuorum*) This relatively widespread bumblebee feeds on flowers such as the large blue pea.

First Class Painted lady butterfly (*Vanessa cardui*) Thistles are a common source of nectar for these migratory butterflies in Britain.

£1.45 Longhorn beetle (*Rutpela maculata*) This wasp-mimicking beetle is a common visitor of hawthorn flowers in summer.

£1.45 Elephant hawk-moth (*Deilephila elpenor*) Honeysuckle is a favoured source of nectar for this striking species.

£1.70 Marmalade hoverfly (*Episyrphus balteatus*) An important pollinator of crops like oilseed rape, it is also often seen in gardens.

£1.70 Ruby-tailed wasp (*Chrysis ignita* agg.) The adult ruby-tailed wasp feeds on nectar from flowers such as angelica.



Stamp specifications

Stamp format: Over-square landscape. Stamp size 36.5mm x 34.7mm. Design Royal Mail Group Ltd. Illustrations: Richard Lewington. Printer: International Security Printers. Print process: Lithography. Perforations 14 x 14.5. Phosphor Bars as appropriate. Gum PVA.

Collecting by theme: Birds on stamps

stanleygibbons.com/dispatches/collecting-theme-birds-stamps

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October 15, 2020

Sales Executive Ema Sikic explores some of the most beautiful and exotic birds that have graced stamps from around the world.

North Borneo Palm Cockatoo stamp

North Borneo, as its name suggests, is the northern part of the island of Borneo. This particular term refers to the period when the territory used to be a British protectorate from 1888 and a British Crown colony after 1946. North Borneo was a British protectorate under the sovereign North Borneo Chartered Company from 1882-1946. The company issued its own stamps in March 1883, using a design incorporating the coat of arms (a dhow and a lion), inscribed 'NORTH BORNEO', and with the value written in English, Jawi and Chinese.

Stamps of North Borneo boast a wealth of animal species depicted, with different varieties featuring a sun bear, orangutan, rhinoceros, great argus pheasant among others. The quaintest among these are stamps with the palm cockatoo, a smoky dark grey or black bird, with a large black beak and red cheek patches.



North Borneo Japanese Occupation 1942 SGJ17 Used, featuring a palm cockatoo in a different colour combination.

This bird appears in two stylistic renditions on stamps, first in this deep blue and black 12c stamp (pictured above), with finely engraved detailed feathers, first issued in 1909. This rendition of the palm cockatoo on this stamp denomination remained in use until the 1930s.



North Borneo 1918-30 SGD64 Postage Due, featuring a palm cockatoo.

In 1939, the bird appears in its second rendition on a definitive stamp, somewhat stylistically simplified in a new colour scheme of purple and greenish-blue on 2c stamps (pictured above). Its crest is now perfectly 'coiffed', and the feathers are designated with simplistic linework, the tail feathers are larger and neater. In 1942, North Borneo was occupied by Japanese forces. During the occupation, overprinted stamps of North Borneo and Japan were used.

New Guinea Bird of Paradise stamp

Before 1914 under colonial division, the island of New Guinea was under the control of the German Empire in the North and used its stamps between 1888 and 1897. New Guinea got stamps bearing its name after 1897. After the Australian occupation in 1914, the remaining German stamps and some Australian ones were overprinted. After the Territory of New Guinea became a League of Nations mandate entrusted to Australia in 1925, the country organised the postal system and philatelic production in New Guinea.

The bird of paradise series first appears in August 1931 with dates 1921/1931 commemorating the tenth anniversary of Australian mandate over the territory. The same day, the airmail overprinted series was



New Guinea 1932 SG190/203 Mint Bird of Paradise airmail set without dates.

put on sale. In June 1932, the stamps were issued again, this time without the commemorative dates (pictured above).

Most of this bird species are found in Papua New Guinea and eastern Australia. These birds are best known for their lavish elongated plumage, extending from the beak, wings, tail or head. Societies of New Guinea have often used the plumes in their dress and rituals, and the plumes also proved very popular for ladies' millinery in past centuries in Europe. Unfortunately, the beautiful plumage birds of paradise are famous for led to excessive hunting – they are an endangered species.

New Zealand Kiwi stamp

A long-standing symbol of the country, a beloved animal and a colloquial word for New Zealanders is the Kiwi. Kiwis are endemic to New Zealand, small flightless birds of rotund disposition, they are the absolute icons of New Zealand, so it is not surprising they found their way on national stamps. Postage stamps have been issued in New Zealand since 1855 with the 'Chalon head' stamps featuring Queen Victoria. These were replaced in 1874 with the so-called 'sideface' stamps, also depicting Queen Victoria.

At the very end of the 19th century,

first pictorial stamps of New Zealand were created featuring spectacular landscapes and indigenous birds - proofs of these stamps pictured above. The first Kiwi stamps make their appearance on 6d stamps in green colour.

In May 1900, a little more than a year after first Kiwi stamps were printed, their colour was changed to



New Zealand 1899-1900 SG260/9 Proof. "Wellington" plate proofs in black on medium meshed wove from the "colonial" plates sent out by Waterlow. Outstanding rarity.



New Zealand 1902-07 SG312ab
Used, with Kiwi in rose-red

rose-red (pictured). The Kiwi design remained the same as in the original 1898 issue, but it had to be printed in red because the Universal Postal Union required halfpenny stamps to be printed green. This makes the green 6d Kiwis scarcer today.

By 1906 the 1/2d, 3d, 6d and 1s pictorial stamp printing plates needed to be replaced. The designs were simplified and sizes of the 3d, 6d and 1s stamps were reduced making them the same size as the 1d value.

Falkland Islands 1960 Birds Set stamps

A slightly different entry on this list that features fifteen different birds on stamps is also the most modern one, coming from the Falkland Islands. The Falkland Islands are known for their stunning biodiversity and numerous bird species. Land birds make up most of the Falklands' avifauna; with as many as sixty-three species breed on the islands, including sixteen endemic species.

Executed in a minimalistic manner, 1960 Birds Set features simple black line drawings of birds on a plain white background. Each species is named in English, flanked by Queen's portrait on the right which is highlighted in different colours depending on denomination. While the most lovable and recognized animal on Falkland Islands stamps (and philately in general) is the 1933 Centenary 5s Gentoo penguin stamp that we covered already in Dispatches, the 1960 set with 15 native bird varieties is an ornithologist's dream and a more affordable choice for a thematic collector.

Among others, the set features the Gentoo penguin too on the 2d stamp. Falklands are the home to some of the largest albatross colonies in the world, hence the black-browed albatross is featured on the 6d stamp.

Other notable birds include Southern rockhopper penguin on 5½d stamp, Magellanic oystercatcher on 1s stamp and the famous bird of prey – the southern crested caracara - on 10s stamp. Birds that are native to South America, such as the yellow-billed teal, King cormorant and black-necked swan, appear on 1s3d, 5s and £1 stamps in this set.



Falkland Islands 1960 SG193/207 Mint Plate blocks of four. Rare in this form

New Birds in the Philatelic Aviary

By Charles E. Braun, BU 1364

Taxonomic update

The Clements taxonomic update by Cornell was postponed until 2021.

New Birds

TEMMINCK'S STINT, *Calidris temminckii* Scolopacidae
Penrhyn, 2018, not yet cataloged, \$1.50 Previously on a 1972 "local" from Nagaland.

Length: 5 to 6 inches, sexes alike, migratory. Dark-patched dull gray to olive brown above and white below with brown streaks on the breast and a white rump and outer tail.

Habitat: Breeds in tundra; winters in wetlands.

Range: Breeds from Norway to northeastern Siberia; winters from the eastern Mediterranean and Senegal to Taiwan and Borneo.

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



WILSON'S PHALAROPE, *Phalaropus tricolor* Scolopacidae
Penrhyn, 2018, not yet cataloged, \$1.50

Length: 9 inches, migratory. The birds on the stamp are in eclipse plumage: pale gray above and white below, with a white forehead and upper tail. The male is on the left, and the female on the right.

Habitat: Breeds in prairie wetlands; winters on mudflats and in saline lakes.

Range: Breeds from Alberta, Canada, to the Great Lakes and east-central California; winters from northeastern Peru to Uruguay and Tierra del Fuego.

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



WESTERN PLANTAIN-EATER, *Crinifer piscator* Musophagidae

Sierra Leone, 2020, not yet cataloged, 14,500 Lei Previously on a local from Staffa,

Length: 20 inches (10-inch tail), sexes alike, resident. Gray above and streaked white below, with a dark brown head and upper breast.

Habitat: Open wooded savanna.

Range: Senegal to Congo and the Central African Republic. Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 4.

JUNGLE BOOBOOK, *Ninox theomacha* Strigidae

Romania, 2020, not yet cataloged, 19 L

Length: 6 to 9 inches, sexes similar, resident. Sooty chocolate-brown above and rich chestnut brown below, with pale eyebrows and a gray bill.

Habitat: Lowland forest, gardens and tree groves.

Range: New Guinea and neighboring islands.

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





SPANGLED OWLET-NIGHTJAR, *Aegotheles tatai* Aegothelidae
Sierra Leone, 2020, not yet cataloged, 10000 Le

Length: 10 inches, sexes alike, resident. Dark rufous above and white-spotted rufous below, with white patches between the eyes.

Habitat: Lowland forest. Range: East-central New Guinea.

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



FINE-SPOTTED WOODPECKER, *Campethera punctuligera* Picidae
Gambia, 2020, not yet cataloged, 100 d Previously on a Staffa local.

Length: 9 inches, resident. The male (shown on the stamp) is yellow-green above and black spotted white or yellow below with a red crown and a blackish eyestripe; the female has a black forecrown.

Habitat: Wooded savanna and acacia grassland.

Range: Southwestern Mauritania and Senegal to southern Sudan and

northeastern Congo.

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

EASTERN YELLOW ROBIN, *Eopsaltria australis* Petrociidae
Togo, 2020, not yet cataloged, 3300 fr Previously on a Rainbow Creek “local.”

Length: 5 to 7 inches, sexes alike, resident. Gray above and yellow below, with an off-white chin and an olive rump and upper tail.

Habitat: Forest, woodland, gardens and parks.

Range: Eastern Australia.

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



CETTI'S WARBLER, *Cettia cetti* Scotocercidae
Guinea-Bissau, 2020, not yet cataloged, 500 fr

Length: 5 to 6 inches, sexes alike, migratory. Rich rufous-brown above and off-white to pale gray below, with an off-white supercilium.

Habitat: Swampy lowlands and scrubby areas.

Range : Breeds from Southern England and Morocco to northwestern China; winters From England and Morocco to northwestern India.

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





ENTOMOLOGY

Editors

Don Wright BU243
and Jose Reis BU1889



New Listings

| Scott# | Denom | Common | Name/Scientific | Name | Family/Subfamily | Code |
|---|-----------|---|-----------------|------|---------------------|------|
| ARUBA | | | | | | |
| 2020 May 29 | | | | | | |
| 90c | | Gold Rim, <i>Battus polydamas</i> L. | | | PAP, Papilioninae | A |
| 130c | | Marbled Leafwing, <i>Hypna clytemnestra rufescens</i> Butler | | | NYM, Charaxinae | A |
| 220c | | Common Rose Butterfly, <i>Atrophaneura aristolochiae</i> Fabr. | | | PAP, Papilioninae | A |
| 420c | | Scarlet Mormon, <i>Papilio deiphobus rumanzovia</i> Eschscholtz | | | PAP, Papilioninae | A |
| AUSTRALIA | | | | | | |
| 2020 May 19 (Citizen Science) New Data | | | | | | |
| 5148 & 5152 | \$1.10 | Stylized Ladybird Beetle, at L | | | Coccinellidae | C |
| | | Spotted Jezebel, <i>Delias aganippe</i> Donovan, at R | | | PIE, Pierinae | B |
| 5150 & 5154 | \$1.10 | 2 different stylized Butterflies | | | Lepidoptera | C |
| 5151 & 5155 | \$1.10 | Stylized Mosquito, represents <i>Aedes aegypti</i> L. and/or <i>A. albopictus</i> Skuse | | | UL, Culicinae | B |
| 2020 August 4 (Wildlife Recovery) | | | | | | |
| 5173 | \$1.10 | Purple or Bathurst Copper, <i>Paralucia spinifera</i> Edwards & Common | | | LYC, Theclinae | A |
| BELGIUM | | | | | | |
| 2020 August 31 | | | | | | |
| 1st | | Asian Ladybird, <i>Harmonia axyridis</i> Pallas | | | COC, Epilachninae | A |
| 1st | | Western Honeybee, <i>Apis mellifera</i> L. | | | API, Apinae | A |
| BOSNIA & HERZEGOVINA – Serb Admin. | | | | | | |
| 2020 September 23 | | | | | | |
| 10pf | | Buff-tailed Bumblebee, <i>Bombus terrestris</i> L. | | | API, Apinae | A |
| 20pf | | European Earwig, <i>Forficula auricularia</i> L. | | | FORF, Forficulinae | A |
| 90pf | | Common Green Lacewing, <i>Chrysoperla carnea</i> Stephens | | | CHRY, Chrysopinae | A |
| 1.10m | | European Mantis, <i>Mantis religiosa</i> L. | | | MAN, Mantinae | A |
| 2.50m | | Hummingbird Hawkmoth, <i>Macroglossum stellaratum</i> L. | | | SPH, Macroglossinae | A |
| 5m | | Western Honeybee, <i>Apis mellifera</i> L. | | | API, Apinae | A |
| CANADA | | | | | | |
| 2020 September 21 (Canada Post Community Foundation) | | | | | | |
| B30 | (92c)+10c | Stylized orange Butterfly | | | Lepidoptera | C |
| COLOMBIA | | | | | | |
| 2020 March 20 (Birds) | | | | | | |
| 1530 | 5p | <i>Megoleria susiana susanna</i> Staudinger | | | NYM, Danainae | A |
| CROATIA | | | | | | |
| 2020 March 11 | | | | | | |
| 1169 | 8.60k | Stylized Termite. Emblem of 84th Croatian Guards Battalion “Termites” | | | Blattaria | B |
| CZECH REPUBLIC | | | | | | |
| 2020 October 8 | | | | | | |
| 2k | | Common Blue, <i>Polyommatus icarus</i> Rottemburg | | | LYC, Polyommatinae | A |
| 4k | | Clouded Yellow, <i>Colias croceus</i> Geoffroy | | | PIE, Coliadae | A |

| | | | | |
|---|--|--|-----|-----|
| FRANCE | | 2019 January 4 (African Inspired Nature Patterns) | | |
| f | (Green Letter). 3 Stylized Butterflies | Lepidoptera | | C |
| | | 2019 October 4 (Porcelain Painting) | | |
| L | (Green Letter). <i>Colias</i> sp. | PIE, Coliadinae | | C |
| | | 2020 March 6 | | |
| | (Green Letter). <i>Danaus</i> sp., | NYM, Danainae | | C |
| | | 2020 June 22 (Vacations – bklt of 12) | | |
| | (97c). 2 Butterflies | Lepidoptera | | C |
| GREAT BRITAIN | | 2020 October 1 | | |
| a | 1st Common Carder Bee, <i>Bombus pascuorum</i> Scopoli | API Apinae | | A |
| b | 1st Painted Lady, <i>Vanessa cardui</i> L. | NYM, Nymphalinae | | A |
| a | £1.20 Marmalade Hoverfly, <i>Episyrphus balteatus</i> DeGeer | SYR, Syrphinae | | A |
| b | £1.20 Ruby-Tailed Wasp, <i>Chrysis ignita</i> L. | CHRS, Chrysidinae | | A |
| a | £1.45 Spotted Longhorn Beetle, <i>Rutpela maculata</i> Poda | CER, Lepturinae | | A |
| b | £1.45 Elephant Hawkmoth, <i>Deilephila elpenor</i> L. | SPH Macroglossinae | | A |
| GREAT BRITAIN Jersey | | 2020 March 26 (Beethoven 250 y) | | |
| 2310 | £2 About 20 <i>Danaus</i> sp. | NYM, Danainae | | B |
| GUYANA | | 2020 September 30 | | |
| a | \$400 Brown Rhinoeros Beetle, <i>Xylotrupes gideon</i> L., ♂ | SCA, Dynastinae | | A |
| b | \$400 Harlequin Beetle, <i>Acrocinus longimanus</i> L. | CER, Lamiinae | | A |
| c | \$400 <i>Tituboea biguttata</i> Olivier | CHR, Cryptocephalinae | | A |
| d | \$400 European Stag Beetle, <i>Lucanus cervus</i> L., ♂ | Lucanidae | | A |
| | \$800 Ladybird Beetle. Also in LL margin | Coccinellidae | | A Z |
| HONG KONG | | 2020 February 4 (Seasons) | | |
| 2066 & 2068a | \$2 “Insects Waken” | | U/I | |
| | | 2020 May 21 (Ptg by Chen Zi, “Miscellaneous Subject”) | | |
| 2081 & 2084a | \$3.40 Butterfly. | Lepidoptera | | B |
| HUNGARY | | 2020 August 5 (Natural Assets) | | |
| 185f | Spring Dor Beetle, <i>Trypocopriss vernalis</i> L. (Correction) | BOL, Bolboceratinae | | A |
| | | 2020 October 8 | | |
| a | 330f Helena Morpho, <i>Morpho rhetenor helena</i> Staudinger | NYM, Morphinae | | A |
| b | 330f Sky Blue Morpho, <i>Morpho portis</i> Hubner | NYM, Morphinae | | A |
| c | 330f Monarch, <i>Danaus plexippus</i> L., ♂ | NYM, Danainae | | A |
| d | 330f <i>Agrias narcissus</i> Staudinger | NYM, Charaxinae | | A |
| JAPAN | | 2019 November 6 | | |
| a | 63¥ Stylized Butterfly | Lepidoptera | | B |
| MALAWI | | 2020 August (#741-42 surcharged) | | |
| 600k on 110k | Forest Queen, <i>Euxanthe wakefieldi</i> Ward | NYM, Charaxinae | | A |
| 900k on 115k | Boisduval’s False Acraea, <i>Pseudacraea boisduvalii</i> Doubleday | NYM, Limenitidinae | | A |
| | | 2020 October (#741-42 surcharged) | | |
| 600k on 110k | Forest Queen, <i>Euxanthe wakefieldi</i> Ward | NYM, Charaxinae | | A |
| 900k on 115k | Boisduval’s False Acraea, <i>Pseudacraea boisduvalii</i> Doubleday | NYM, Limenitidinae | | A |
| As above, but print font is larger for surcharge. | | | | |

MARSHALL ISLANDS**2020 November 2**

| | | | | |
|-------|--------|--|---------------------|----|
| a,c,e | \$1.50 | Black Citrus Swallowtail, <i>Papilio polytes</i> L. | PAP, Papilioninae | AZ |
| | | Also in LL margin | | |
| b,d,f | \$1.50 | Beautiful Zebra Blue, <i>Leptotes pulchra</i> Murray. | LYC, Polyommatainae | AZ |
| | | Also in LR margin | | |
| | | Margin M-Bottom: Blue-banded King Crow, <i>Euploea eunice</i> Godart | NYM, Danainae | Z |
| | \$8 | Blue-banded King Crow, <i>Euploea eunice</i> Godart | NYM, Danainae | A |
| | | Margin: Same as on above s/t | Z | |

PALAU**2020 June 20**

| | | | | |
|---|--------|--|-------------------|---|
| a | \$1 | Cabbage White, <i>Pieris rapae</i> L. | PIE, Pierinae | A |
| b | \$1.50 | Zebra Longwing, <i>Heliconius charithonia</i> L. | NYM, Heliconiinae | A |
| c | \$2 | Red Admiral, <i>Vanessa atalanta</i> L. | NYM, Nymphalinae | A |
| d | \$2.50 | Pipevine Swallowtail, <i>Papilio philenor</i> L. | PAP, Papilioninae | A |
| a | \$1 | Cabbage White, <i>Pieris rapae</i> L. | PIE, Pierinae | A |
| b | \$1.50 | Zebra Longwing, <i>Heliconius charithonia</i> L. | NYM, Heliconiinae | A |
| c | \$2 | Red Admiral, <i>Vanessa atalanta</i> L. | NYM, Nymphalinae | A |
| d | \$5 | Pipevine Swallowtail, <i>Papilio philenor</i> L. | PAP, Papilioninae | A |

PORTUGAL**2020 October 22**

| | | | | |
|-----|--|---|----------------------|---|
| 53c | | Grape Phylloxera, <i>Daktulosphaira vitifoliae</i> Fitch | PHYL, Phylloxerinae | B |
| 86c | | Pine Sawyer Beetle, <i>Monochamus galloprovincialis</i> Olivier | CER, Lamiinae | B |
| 91c | | Mediterranean Fruit Fly, <i>Ceratitidis capitata</i> Wiedemann | TEP, Dacinae | B |
| €2 | | Red Palm Weevil, <i>Rhynchophorus ferrugineus</i> Olivier | DRY, Rhynchophorinae | B |

SINGAPORE**2019 May 8 (Diplomatic Relations with Israel)**

| | | | | |
|---------|----------|-----------|-------------|---|
| 1967-68 | 2x\$1.30 | Butterfly | Nymphalidae | B |
|---------|----------|-----------|-------------|---|

SLOVENIA**2020 September 25**

| | | | | |
|-----|--|---|------------------|---|
| 82c | | Scarlet Lily Beetle, <i>Lilioceris lili</i> Scopoli | CHR, Criocerinae | B |
|-----|--|---|------------------|---|

SOUTH GEORGIA IS. & SOUTH SANDWICH IS. 2020 October 15

| | | | | |
|----|--|--------------------------------------|------------------------------|---|
| 1p | | <i>Eretmoptera murphyi</i> Schaeffer | Chironomidae, Orthocladiinae | A |
|----|--|--------------------------------------|------------------------------|---|

TRISTAN DA CUNHA**2020 November 9 (Migrant Species)**

| | | | | |
|----|--|--|---------------|---|
| £1 | | Black Witch, <i>Ascalapha odorata</i> L. | NOC, Calpinae | A |
|----|--|--|---------------|---|

TURKEY**2020 September 24**

| | | | | |
|----|--|---|--------------------|---|
| 31 | | Seven-spotted Ladybird, <i>Coccinella septempunctata</i> L. | COC, Coccinellinae | B |
|----|--|---|--------------------|---|

TUVALU**2020 November 11**

| | | | | |
|---|--------|--|-------------------|---|
| a | \$1.50 | Western Honeybee, <i>Apis mellifera</i> L. | API, Apinae | A |
| b | \$1.50 | Ant | Formicidae | A |
| c | \$1.50 | Dragonfly | Odonat | A |
| d | \$1.50 | Grasshopper | Orthoptera | A |
| e | \$1.50 | Monarch, <i>Danaus plexippus</i> L. | NYM, Danainae | A |
| f | \$1.50 | Rhinoceros Beetle | SCA, Dynastinae | A |
| a | \$3 | Tailed Jay, <i>Graphium agamemnon</i> L. | PAP, Papilioninae | A |
| b | \$2.50 | Great Eggfly, <i>Hypolimnas bolina</i> L. | NYM, Nymphalinae | A |
| c | \$2 | Like a | PAP, Papilioninae | A |

TUVALU (continued)

| | | | | |
|------------|--------|--|-------------------|---|
| d | \$1.50 | Like b | NYM, Nymphalinae | A |
| e | \$1 | Like a | PAP, Papilioninae | A |
| f | 50c | Like b | NYM, Nymphalinae | A |
| | \$5.50 | Brown Soldier, <i>Junonia hedonia</i> L. | NYM, Nymphalinae | A |
| | \$7 | Cicada | Cicadidae | A |
| Margin LL: | | Western Honeybee, <i>Apis mellifera</i> L. | API, Apinae | Z |
| M-Bottom: | | Beetle | Chrysomelidae | Z |

SURINAM**2019 December 27**

| | | | | |
|---------|--------|---|-------------------|---|
| 1577-92 | 16x\$5 | Various Insects & Butterflies in assorted margins | | Z |
| 1585 | \$5 | Indian Leaf, <i>Kallima paralekta</i> Horsfield | NYM, Nymphalinae | A |
| 591 | \$5 | Painted Lady, <i>Vanessa cardui</i> L. | NYM, Nymphalinae | A |
| 1592 | \$5 | Lime Swallowtail, <i>Papilio demoleus</i> L. | PAP, Papilioninae | A |

SWEDEN**2020 January 9 (Greetings)**

| | | | | |
|-------|-------|---|-------------|---|
| 2852 | (11k) | 5 Western Honeybees, <i>Apis mellifera</i> L. | API, Apinae | C |
| 2853 | (11k) | 3 Western Honeybees, <i>Apis mellifera</i> L. | API, Apinae | C |
| 2854a | (11k) | 2 Stylized Butterflies | Lepidoptera | C |
| 2854b | (11k) | Insect | U/I | C |
| 2854c | (11k) | Insect | U/I | C |
| 2854e | (11k) | Stylized Butterfly | Lepidoptera | C |

UZBEKISTAN**2020 July 17 (Children's Art)**

| | | | | |
|-----|-------------|---------------------------------------|---------------|---|
| 905 | 3200-7300s. | <i>Danaus sp.</i> , In margins of s/t | NYM, Danainae | Z |
|-----|-------------|---------------------------------------|---------------|---|

VATICAN CITY**2020 February 14 (50th Anniversary of Earth Day)**

| | | | | |
|------|--------------|--|-------------|---|
| 1739 | 30c & €1.20. | Earth & water, s/t of 2 | | |
| | Margin UL: | Western Honeybee, <i>Apis mellifera</i> L. | API, Apinae | Z |
| | LL: | Stylized Butterfly | Lepidoptera | Z |

BEYOND THE CATALOGS – Non-Catalog Listed Issues**GUINEA-BISSAU****2020 April 27 (Stamperija GB-200304a&b)**

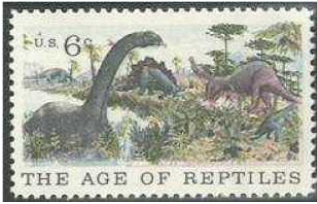
| | | | | |
|---------|--------|---|--------------------|---|
| a | 750fr | Painted Lady, <i>Vanessa cardui</i> L. | NYM, Nymphalinae | A |
| b | 750fr | Peacock, <i>Nymphalis io</i> L. | NYM, Nymphalinae | A |
| c | 750fr | Clouded Apollo, <i>Parnassius mnemosyne</i> L. | PAP, Parnassiinae | A |
| d | 750fr | Common Blue, <i>Polyommatus icarus</i> Rottemburg | LYC, Polyommatinae | A |
| | 3000fr | Orange Tip, <i>Anthocharis cardamines</i> L. | PIE, Pierinae | A |
| Margin: | | Monarch, <i>Danaus plexippus</i> L. | NYM, Danainae | Z |

ST. THOMAS & PRINCE IS. 2020 (Stamperija ST-200315a)

| | | | | |
|---|-----|--|----------------|---|
| d | 25d | European Field Cricket, <i>Gryllus campestris</i> L., Jersey #1136 s-o-s | GRY, Gryllinae | A |
|---|-----|--|----------------|---|

TOGO**2019 June 25 (Stamperija TG-190247b10)**

| | | | | |
|--|---------|--|-------------|---|
| | 1000fr. | Stylized caterpillar in bird's beak, Barbados #797 s-o-s | Lepidoptera | C |
|--|---------|--|-------------|---|



PALEONTOLOGY

Editor

Michael Kogan, BU1863



New Listings

Scott# Denom Common Name/Scientific Name Family/Subfamily Code
Australia 2020 November 02 "Opalised Fossils"

Additional souvenir material of stamp set issued on August 17th 2020, issued in very limited quantity, called "Impressions" by Australian Post.

\$69.95 0318541
Opalised Fossils Minisheet Collection

- Unique fossil shaped minisheets
- Numbered 001/200 – 200/200
- Stamp and selvaige foiled in clear polygraphic
- Minisheets numbered, gummed and perforated.

\$59.95 0318542
Opalised Fossil Limited Edition Medallion Cover

- 60mm medallion with opal insert
- 1 x \$1.10 Opalised Fossil stamp
- Blue foiled postmark, numbering and heading
- Numbered 001/200 – 200/200.

Only 200 produced
 Limit 1 per customer

Serbia 2020 November 03 "125th anniversary of Natural History Museum in Belgrade"

Set of 4 stamps, printed in a sheet of 5 rows with 4 stamps + 1 tab (different tab at every row) in the middle. One of the tabs shows an Ammonite.

RSD40 (2nd column) - *Hypsodontus serbicum*

During a 1969 excavation in Prebreza, experts from the Natural History Museum found a fossilized skull of a hitherto unknown species of extinct antelope. The finding is extremely significant, this new species was found for the first time on the territory of Serbia. The specimens on the basis of which it is described are kept in the Natural History Museum. (From official press release).





---- Stamperija products ----

| | | | |
|-------------|------------------------------------|--|--------|
| CHAD | | 2020 March 30 (Fossils) (M/S 4 & S/S 1) [*1] | |
| 800fr | † <i>Turritella terebralis</i> | †Turritellidae | A |
| 800fr | † <i>Paradoxides davidis</i> | †Paradoxididae | A |
| 800fr | † <i>Triceratops prorsus</i> | †Ceratopsidae | A |
| 800fr | † <i>Tyrannosaurus rex</i> | †Tyrannosauridae | A |
| 3300fr | † <i>Tyrannosaurus rex</i> | †Tyrannosauridae | A SS |
| | Margin: <i>Keichousaurus hui</i> | †Keichosauridae | B SS Z |
| | claw of † <i>Baryonyx walkeri</i> | †Spinosauridae | B SS Z |
| | † <i>Geosternbergia sternbergi</i> | †Pteranodontidae | B SS Z |
| | | 2020 August 20 (Extinct species) (M/S 4 & S/S 1) [*1] | |
| 800fr | † <i>Ectopistes migratorius</i> | Columbidae | A |
| 800fr | † <i>Chelonoidis abingdonii</i> | Testudinidae | A |
| 800fr | † <i>Mammuthus primigenius</i> | Elephantidae | A |
| 800fr | † <i>Raphus cucullatus</i> | Columbidae | A |
| 3300fr | † <i>Megaloceros giganteus</i> | Cervidae | A SS |
| | Margin: † <i>Arctodus simus</i> | Ursidae | B SS Z |

CHAD (continued)**2020 August 20** (Prehistoric water animals) (M/S 4 & S/S 1) [*1]

| | | | |
|---------|----------------------------------|-------------------|--------|
| 800fr | † <i>Anomalocaris canadensis</i> | †Anomalocarididae | A |
| 800fr | † <i>Archelon ischyros</i> | †Protostegidae | A |
| 800fr | † <i>Shonisaurus popularis</i> | †Shonisauridae | A |
| 800fr | † <i>Mosasaurus hoffmannii</i> | †Mosasauridae | A |
| 3300fr | † <i>Carcharocles megalodon</i> | †Otodontidae | A SS |
| Margin: | † <i>Mosasaurus hoffmannii</i> | †Mosasauridae | B SS Z |
| | † <i>Shonisaurus popularis</i> | †Shonisauridae | B SS Z |

GUINEA**2020 April 28** (Dinosaurs) (M/S 4 & S/S 1) [*1]

| | | | |
|---------|-------------------------------------|----------------------|--------|
| 12500fr | † <i>Tyrannosaurus rex</i> | †Tyrannosauridae | A |
| 12500fr | † <i>Parasaurolophus walkeri</i> | †Hadrosauridae | A |
| 12500fr | † <i>Stegosaurus stenops</i> | †Stegosauridae | A |
| 12500fr | † <i>Einiosaurus procurvicornis</i> | †Ceratopsidae | A |
| 50000fr | † <i>Altirhinus kurzanovi</i> | Order: †Ornithischia | A SS |
| Margin: | † <i>Tyrannosaurus rex</i> | †Tyrannosauridae | B SS Z |
| | † <i>Stegosaurus stenops</i> | †Stegosauridae | B SS Z |

GUINEA-BISSAU**2020 April 27** (Dinosaurs) (M/S 4 & S/S 1) [*1]

| | | | |
|---------|--------------------------------------|------------------|--------|
| 100fr | † <i>Triceratops horridus</i> | †Ceratopsidae | A |
| 500fr | † <i>Spinosaurus aegyptiacus</i> | †Spinosauridae | A |
| 750fr | † <i>Tyrannosaurus rex</i> | †Tyrannosauridae | A |
| 1500fr | † <i>Triceratops horridus</i> | †Ceratopsidae | A |
| 3000fr | † <i>Brachiosaurus altithorax</i> | †Brachiosauridae | A SS |
| Margin: | † <i>Majungasaurus crenatissimus</i> | †Abelisauridae | B SS Z |
| | † <i>Triceratops horridus</i> | †Ceratopsidae | B SS Z |

MOZAMBIQUE**2020 April 15** (Dinosaurs) (M/S 4 & S/S 1) [*1]

| | | | |
|---------|----------------------------------|------------------|--------|
| 90.50MT | † <i>Triceratops horridus</i> | †Ceratopsidae | A |
| 90.50MT | † <i>Lambeosaurus lambei</i> | †Hadrosauridae | A |
| 90.50MT | † <i>Deinonychus antirrhopus</i> | †Dromaeosauridae | A |
| 90.50MT | † <i>Spinosaurus aegyptiacus</i> | †Spinosauridae | A |
| 362MT | † <i>Carnotaurus sastrei</i> | †Abelisauridae | A SS |
| Margin: | † <i>Deinonychus antirrhopus</i> | †Dromaeosauridae | B SS Z |
| | † <i>Spinosaurus aegyptiacus</i> | †Spinosauridae | B SS Z |

2020 September 15 (Prehistoric water animals) (M/S 4 & S/S 1) [*1]

| | | | |
|---------|-------------------------------------|----------------------|--------|
| 100MT | † <i>Kronosaurus queenslandicus</i> | †Pliosauridae | A |
| 100MT | † <i>Carcharocles megalodon</i> | †Otodontidae | A |
| 100MT | Ammonite | Subclass: Ammonoidea | A |
| 100MT | † <i>Mosasaurus hoffmannii</i> | †Mosasauridae | A |
| 400MT | † <i>Dinichthys terrelli</i> | †Dinichthyidae | A |
| Margin: | † <i>Basilosaurus cetoides</i> | †Basilosauridae | B SS Z |

NIGER**2020 June 06** (Dinosaurs) (M/S 4 & S/S 1) [*1]M/S

| | | | |
|-------|----------------------------------|----------------|---|
| 800fr | † <i>Stegosaurus stenops</i> | †Stegosauridae | A |
| 800fr | † <i>Oviraptor philoceratops</i> | †Oviraptoridae | A |

NIGER (continued)

| | | | |
|---------|----------------------------------|------------------|--------|
| 800fr | † <i>Pterodactylus antiquus</i> | †Pterodactylidae | A |
| | † <i>Triceratops horridus</i> | †Ceratopsidae | A |
| 800fr | † <i>Brontosaurus excelsus</i> | †Diplodocidae | A |
| 3300fr | † <i>Spinosaurus aegyptiacus</i> | †Spinosauridae | A SS Z |
| Margin: | † <i>Tyrannosaurus rex</i> | †Tyrannosauridae | B SS Z |
| | † <i>Pterodactylus antiquus</i> | †Pterodactylidae | B SS Z |

2020 June 10 (Extinct species) [*1]

The same stamps issued in individual Mini-Sheets of 3, Mini-Sheet of all 3 stamps

| | | | |
|---------|----------------------------------|---------------|--------|
| 1000fr | † <i>Mammuthus primigenius</i> | Elephantidae | A |
| 1000fr | † <i>Thylacinus cynocephalus</i> | †Thylacinidae | A |
| 1000fr | † <i>Smilodon populator</i> | Felidae | A |
| Margin: | † <i>Equus simplicidens</i> | Equidae | B MS Z |

SÃO TOMÉ AND PRÍNCIPE **2020 April 10** (Prehistoric water animals) (M/S 2 & S/S 1) [*1]

M/S of two stamps and two tabs

| | | | |
|---------|-------------------------------------|------------------|--------|
| 31.00d | † <i>Kronosaurus queenslandicus</i> | †Pliosauridae | A |
| 31,00d | † <i>Xiphactinus</i> | †Ichthyodectidae | A |
| 124,00d | † <i>Ichthyosaurus communis</i> | †Ichthyosauridae | A |
| Margin: | † <i>Kronosaurus queenslandicus</i> | †Pliosauridae | B SS Z |

2020 May 31 (Fossils) (M/S 4 & S/S 1) [*1]

| | | | |
|--------|------------------------------------|----------------------------|---|
| 31.00d | † <i>Armigatus brevissimus</i> | Order †Ellimmichthyiformes | A |
| 31.00d | † <i>Perisphinctes virguloides</i> | †Perisphinctidae | A |
| 31.00d | † <i>Seymouria baylorensis</i> | †Seymouriidae | A |
| 31.00d | † <i>Elrathia kingii</i> | †Alokistocaridae | A |

The same stamps issued in individual Mini-Sheets of 6 stamps too

| | | | |
|---------|-------------------------------|----------------------|--------|
| 124.00d | † <i>Paradoxides gracilis</i> | †Paradoxididae | A SS |
| Margin: | † <i>Priscacara serrata</i> | Percidae | B SS Z |
| | Ammonite | Subclass: Ammonoidea | B SS Z |

2020 June 08 (Dinosaurs) (M/S 4 & S/S 1) [*1]M/S

| | | | |
|--------|------------------------------------|-----------------|---|
| 31.00d | † <i>Stegosaurus stenops</i> | †Stegosauridae | A |
| 31.00d | † <i>Spinosaurus aegyptiacus</i> | †Spinosauridae | A |
| 31.00d | † <i>Ankylosaurus magniventris</i> | †Ankylosauridae | A |
| 31.00d | † <i>Parasaurolophus walkeri</i> | †Hadrosauridae | A |

The same stamps issued in individual Mini-Sheets of 6 stamps too

| | | | |
|---------|------------------------------------|------------------|--------|
| 124,00d | † <i>Velociraptor mongoliensis</i> | †Dromaeosauridae | A |
| Margin: | † <i>Triceratops horridus</i> | †Ceratopsidae | B SS Z |
| | † <i>Pterodactylus antiquus</i> | †Pterodactylidae | B SS Z |
| | † <i>Apatosaurus ajax</i> | †Diplodocidae | B SS Z |

SIERRA LEONE **2020 March 27** (Prehistoric water animals) (M/S 3 & S/S 1) [*1]

The same stamps issued in sheets of 6, three S/S of 1 stamp each and one M/S of all 3 stamps

| | | | |
|---------|-------------------------------------|----------------|---|
| 15800Le | † <i>Tylosaurus proriger</i> | †Mosasauridae | A |
| 15800Le | † <i>Dinichthys terrelli</i> | †Dinichthyidae | A |
| 15800Le | † <i>Leedsichthys problematicus</i> | †Pachycormidae | A |

SIERRA LEONE (continued)**2020 March 27 (Fossils) (M/S 4 & S/S 1) [*1]**

| | | | |
|---------|--------------------------------------|----------------------|--------|
| 12500Le | † <i>Archaeopteryx lithographica</i> | †Archaeopterygidae | A |
| 12500Le | † <i>Lycoptera davidi</i> | Lycopteridae | B |
| | † <i>Zhenyuanlong suni</i> | †Dromaeosauridae | A |
| 12500Le | † <i>Kainops invius</i> | †Phacopidae | A |
| 50000Le | † <i>Pterodactylus antiquus</i> | †Pterodactylidae | A |
| | † <i>Perisphinctes virguloides</i> | †Perisphinctidae | A |
| | Margin: Ammonite | Subclass: Ammonoidea | B SS Z |
| | † <i>Keichousaurus hui</i> | †Keichosauridae | B SS Z |

2020 June 12 (Prehistoric humans) (M/S 10) [*1]

| | | | |
|--------|---|-----------|---|
| 5000Le | top row of 5 stamps of † <i>Homo neanderthalensis</i> | Hominidae | A |
| 5000Le | bottom row of 5 stamps of † <i>Australopithecus africanus</i> | Hominidae | A |

2020 June 12 (Dinosaurs) (M/S 10) [*1]

| | | | |
|--------|--|------------------------|---|
| 5000Le | † <i>Tyrannosaurus rex</i> | †Tyrannosauridae | A |
| 5000Le | † <i>Spinosaurus aegyptiacus</i> | †Spinosauridae | A |
| 5000Le | † <i>Ankylosaurus magniventris</i> | †Ankylosauridae | A |
| 5000Le | † <i>Triceratops horridus</i> | †Ceratopsidae | A |
| 5000Le | † <i>Tarbosaurus bataar</i> | †Tyrannosauridae | A |
| 5000Le | † <i>Carnotaurus sastrei</i> | †Abelisauridae | A |
| 5000Le | † <i>Tuojiangosaurus multispinus</i> | †Stegosauridae | A |
| 5000Le | † <i>Carcharodontosaurus saharicus</i> | †Carcharodontosauridae | A |
| 5000Le | † <i>Parasaurolophus walkeri</i> | †Hadrosauridae | A |

2020 June 12 (Carolina Butcher) (M/S 4 & S/S 1) [*1]

(extinct genus of crocodylomorph suchian from the Late Triassic of North America)

| | | | |
|------------|--------------------------------|-----------------|---|
| 14500Le x4 | † <i>Carnufex carolinensis</i> | Class: Reptilia | A |
| 50000Le | † <i>Carnufex carolinensis</i> | Class: Reptilia | A |

2020 June 12 (200th anniversary of launch of the HMS Beagle) (M/S4 & S/S1) [*1]

| | | | |
|---------|----------------------------------|--|--|
| 2500Le | HMS Beagle and finch | | |
| 12500Le | Charles Darwin and HMS Beagle | | |
| 12500Le | Charles Darwin with tree of life | | |
| 12500Le | HMS Beagle | | |
| 50000Le | Charles Darwin and HMS Beagle | | |

Margin: Charles Darwin and HMS Beagle

2020 June 19 (Charles Darwin (1809-1882)) (M/S 4 & S/S 1) [*1]

| | | | |
|---------|--|------------------|--------|
| 14500Le | Charles Darwin with † <i>Velociraptor mongoliensis</i> | †Dromaeosauridae | B |
| 14500Le | Charles Darwin with † <i>Stegosaurus stenops</i> | †Stegosauridae | B |
| 14500Le | Charles Darwin with † <i>Citipati osmolskae</i> | †Oviraptoridae | B |
| 14500Le | Charles Darwin with † <i>Parasaurolophus walkeri</i> | †Hadrosauridae | B |
| 58000Le | Charles Darwin with † <i>Pteranodon longiceps</i> | †Pteranodontidae | B |
| | Margin: <i>Elasmosaurus platyurus</i> | †Elasmosauridae | B SS Z |

TOGO**2020 May 29 (Dinosaurs) (M/S 4 & S/S 1) [*1]**

| | | | |
|-------|-----------------------------------|------------------|---|
| 800fr | † <i>Brachiosaurus altithorax</i> | †Brachiosauridae | A |
| 800fr | † <i>Stegosaurus stenops</i> | †Stegosauridae | A |

TOGO (continued)

| | | | |
|---|--|----------------------|--------|
| 800fr | † <i>Altirhinus kurzanov</i> | Order: †Ornithischia | A |
| 800fr | † <i>Pachycephalosaurus wyomingensis</i> | †Pachycephalosaurida | A |
| 3300fr | † <i>Triceratops horridus</i> | †Ceratopsidae | A |
| Margin: | † <i>Dilophosaurus wetherilli</i> | †Dilophosauridae | B SS Z |
| 2020 May 29 (Fossils) (M/S 4 & S/S 1) [*1] | | | |
| 800fr | † <i>Coelophysis bauri</i> | †Coelophysidae | A |
| 800fr | † <i>Elrathia kingii</i> | †Alokistocaridae | A |
| 800fr | † <i>Parkinsonia parkinsoni</i> | †Parkinsoniidae | A |
| | † <i>Keichousaurus hui</i> | †Keichosauridae | A |
| 800fr | † <i>Carcharocles megalodon</i> tooth | †Otodontidae | A |
| 3300fr | † <i>Seymouria baylorensis</i> | †Seymouriidae | A |
| Margin: | † <i>Lycoptera davidi</i> | Lycopteridae | B SS Z |
| | † <i>Tyrannosaurus rex</i> | †Tyrannosauridae | B SS Z |
| | † <i>Dicranurus monstrosus</i> | †Odontopleuridae | B SS Z |

Stamps of private post companies

Nothing to report this time

Personalized stamps

Germany August-September 2020, “Treasures of German Palaeontologic Museums”

Five personalized stamps produced by private post company “Brief und mehr” who operate in Muenster region.

First set of 3 stamps is dedicated to Paleontologic Museum of Munich. Fossilized skeletons of three animals shown on these stamps: Gomphotherium (prehistoric elephant) Plateosaurus dinosaur and the reptile Prestosuchus chiniquensis from Triassic Period.

Another set, of two stamp, shows a reconstruction of the dinosaurs Lilienternus and Plateosaurus dinosaurs from an exhibit at the Natural History Museum of Stuttgart.



Other stamps to consider

Croatia 2020 October 22 “Minerals & Rocks 2020” (M/S 2)

5.00HK (on the right side of the Mini-Sheet) Lithothamnium Limestone

The Mini-Sheet "Minerals & Rocks 2020" contains two stamps: The Hraschina Meteorite and Lithothamnium limestone (on the right side of the Mini-Sheet).

Lithothamnium limestone, called “litavac” for short in Croatian, is a sedimentary rock. This massive, porous type of limestone is mostly composed of red algae of the Lithothamnium order that inhabited the Paratethys Sea 15 million years ago, in Middle Miocene. The limestone’s name is derived from the algae, in addition to which it contains the remains of bivalves, echinoderms, bryozoans and benthic foraminifera. Apart from the remains of sea organisms, Lithothamnium limestone contains fragments of quartz and calcite, mica flakes and fragments of rocks from the coastal area. Lithothamnium limestone was formed in the shallows of the Pannonian Sea, which surrounded Medvednica and other Pannonian Croatia mountains, which were islands at the time.



Along with Triassic dolomites, Lithothamnium limestone forms a unique karst zone on the west side of Mount Medvednica. Even though karst phenomena on Mount Medvednica are mostly hidden under younger Holocene deposits, many karst forms such as caves, pits, sinkholes and karst valleys are still present in this zone.

Postmarks

China 2020 July 19 “Lantian Man”

Lantian Man, formerly *Sinanthropus lantianensis* (currently *Homo erectus lantianensis*) is a subspecies of *Homo erectus*. Discovered in 1963, in Lantian County, in China's Shaanxi province, approximately 50 km southeast of Xi'an. Described by J. K. Woo in the following year.



Other postmarks to consider

Nothing to report this time

Future issues

Nothing known on the moment

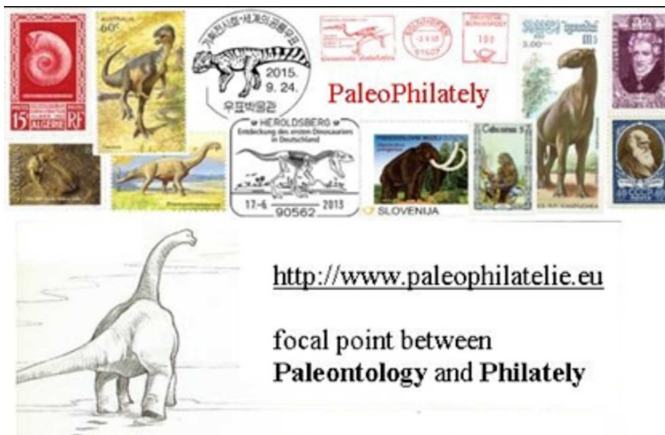
Notes:

[*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.

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-filatelista.blogspot.com/>

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

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.globis.insects-online.de>*

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 | | |

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Biology Unit of ATA (Canadian members please see note below).

Mail remittance to:

Chris Dahle, 1401 Linmar Dr NE, Cedar Rapids, IA 52402-3724

Canadian members please note: It costs us \$20 to cash a cheque drawn on a Canadian bank. Please remit funds drawn on a U.S. bank, or use a credit card or PayPal.