

BIOPHILATELY

OFFICIAL JOURNAL OF THE BIOLOGY UNIT OF ATA
DECEMBER 2022 VOLUME 71 NUMBER 4

India's Natural Heritage

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Fossil Insects

Cancel showing beetle in amber
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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 2023.



FROM THE EDITOR'S DESK

Chris Dahle, BU 1269

First of all, I would like to welcome Harvey Robbins as our Ichthyology editor. In his note to volunteer for the position he said that he has "an extensive collection including new issues and a PhD in fisheries ecology." It sounds like he has excellent qualifications for the job. He takes over from Dale Shively, who has been doing the fish column for the last four years. Thank you Dale, for your good work for the Unit.

In order to keep the page number down, and to publish an Index in this issue, I have trimmed the Paleontology submission. I hope Michael does not mind. There was a three page table of IUCN listed wildlife in the Natural Heritage article by Lokeswara Rao. It seemed duplicative and I needed the space, so that table is also omitted.

Please renew your membership in the Biology Unit as soon as possible. You will find a renewal form with your printed copy of **Biophilately**. The form is attached to the email notification with your digital version of the journal. Please send back the renewal form with your payment. To pay online, please go directly to PayPal and use dues@biophilately.org. There is a problem with the online application and renewal form on the web site, that I was not aware of until recently, and I have not yet been able to resolve it. My apologies if you have tried to use the online payment and have been unable to do so.

The Treasurer's Report should have appeared much earlier in the year. My only excuse is that I overlooked the fact that the September 2021 issue had a report, and another one should have been forthcoming in September.

Most shows are back on their old schedule again. I was invited to Milcopex in Milwaukee in September. One of their judges was unable to attend, so I agreed to fill in at the last minute. The show was held in a new location, but seemed to be a success. The report from Dick Roman on Chicagopex was that he found a lot of new material from two dealers he had not purchased from before. A look through the results of the judging reveals few thematic exhibits at the Chicago show.

Best wishes for 2023.

Chris

DUES RATES (US\$)

US membership \$30
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PRESIDENT'S MESSAGE

Wishing everyone Merry Christmas or Happy Hanukkah. May everyone's lights burn brightly this season. I hope you all had a good, happy Thanksgiving. It was strange not having my mother at our table this year; she is in a nursing home now. I am thankful she is still with us.

With November comes the cold air, which means time to shut down the garden for winter. After so many beautiful days in the 60s, the temperature plunged to the 30s for a number of days. With lows in the 20s overnight, many plants succumbed to the freeze. Trimming down the last of my daylilies, hollyhocks, passionflowers, and salvia is a bit depressing for me. The growing season is now over until Spring. Now is the time to plan for next year; what new plants do I want? I finally ran the extension cord to the bird bath, and set up the feeders where I had hanging baskets.

I now have a very part time job in an aquarium store. I knew all those fish tanks in the basement would pay off some day. When life slows down some, (hopefully) I plan to pick up a second day each week. This is a great way to learn the names of more fish, especially those cichlids! I love collecting stamps featuring fish I have at home. It certainly becomes a challenge to find some of the species. I can find the right genus, just wrong species. But then again, the hunt is so much fun!

Happy holidays to everyone, and a wish come true New Year.

SECRETARY'S CORNER

Please welcome Janis Franco of Connecticut, #1918. She collects medicinal plants, flowers and mushrooms. There are some members who have not yet sent dues for 2022. Please submit payment for 2022 and 2023. They include Braacke, Eichler, Gilman, Hayward, Lavery, Reif, Tan, Todd, Vaughn, Wongpakdee.

TREASURER'S REPORT

June 1, 2021 to October 31, 2022

Assets as of June 1 2021

Checking	\$ 5,028.77
Total	\$ 5,028.77

Expenses June 1, 2021 to October 31, 2022

Credit card fees to ATA	\$ 1.50
PayPal charges	\$ 20.57
Domain name	\$ 17.95
Web site charges	\$ 136.49
Postage Canada	\$ 29.82
Postage Foreign	\$ 124.56
Postage US	\$ 800.75
Printing	\$ 4,185.19
Adobe software	\$ 115.95
Total expenses	\$ 5,411.34

Income June 1, 2021 to October 31, 2022

Dues	\$ 1,816.35
Donations	\$ 758.41
Total Income	\$ 2,574.76

Assets as of October 31, 2022

Checking	\$ 1,632.95
Total	\$ 1,632.95

This report covers 15 months so the printing and postage costs are for 5 issues of **Biophilately**. However, that still means that the average printing cost per issue was over \$800. We printed 50-60 copies each time. As you can see, this is not sustainable. Any suggestions as to how we should proceed would be welcome.

Thank you to all those who have donated during this time frame. Those donors are: Applebaum, Brew, Brunt, Chapman, Dinnel, Felts, Freytag, Glatz, Grimstad, Hamman, Herzog, Hoppe, Jordan, Kavalecs, Kershen, Law, Parker, Prince, Stumpfenhaus, Vancutsem, Voice, Yagi.



News of Note

In September 2022 "Paleophilatelie" website was awarded a GOLD medal in the competition of philatelic websites at the PWO-EXPO 2022 on-line show. The "Paleophilatelie" website received 10 of 10 points.

The Philatelic Webmasters Organization (PWO) was created by its President, Victor Manta, in 2001 to promote, support and develop philately through philatelic webmastering, and also to fight against the proliferation of illegal and excessive stamps. Since that time, the membership has grown to more than 400, representing more than 415 sites.

PWO-EXPO 2022 was presented by Virtuafile, an informal organisation and online platform which offers an alternative to the traditional, formal philatelic organisations, designed to minimize restrictions and maximize open and zero-cost participation at exhibitions.

As an independent organisation, Virtuafile has instituted a new, distinct Philatelic Class: "Websites and Social Media". This new Class is not connected with the traditional Class of Philatelic Literature.

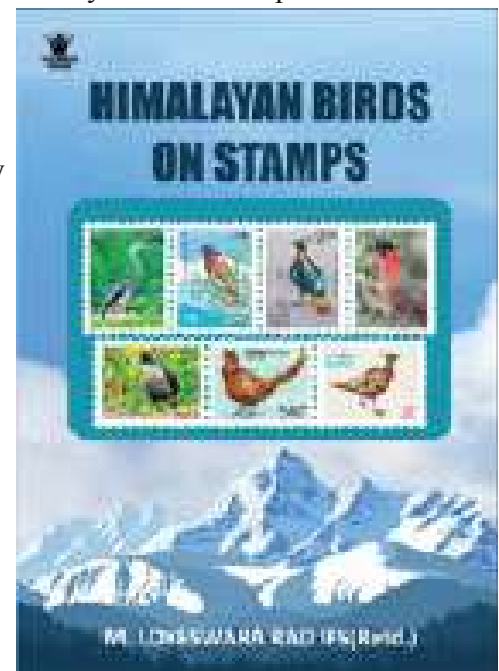
According to the organizers, the exhibition contained 72 exhibits from 50 participants, representing 22 countries worldwide. The Jury awarded 12 Gold medals, 12 Silver medals and 21 Bronze medals.

https://www.paleophilatelie.eu/images/awards/pwo2022/pwo2022_certificate.jpg

NEW BOOK – Himalayan Birds on Stamps by M. Lokeswara Rao

The book "Himalayan Birds on Stamps" focuses on different philatelic materials issued by Himalayan countries India, Nepal, Bhutan, China and Pakistan, and narrates the story of different species of Himalayan Birds. Various available philatelic materials like stamps, stamp blocks, FDCs, Miniature Sheets, Maxim Cards, Post Cards, etc. are included. This book only explains the species of stamps released by Himalayan countries and their conservation status and conservation efforts. Almost all bird stamps released by Nepal and Bhutan are related to Himalayan birds. China has released some bird stamps of Himalayas. India has released some stamps of birds of Himalayas and Pakistan too released few stamps. Many migratory bird stamps of the Himalayas have been released by other countries.

The book used nearly 500 philatelic items from Himalayan countries to tell the story about Himalayan birds and their habitat threat, as well as the conservation status of the birds and conservation efforts. The book is must read for all stake holders: bird watchers, environmentalists, foresters, philatelists, students, etc. The book will be released in first week of December 2022.



Letters to the Editor

Hi Chris,

I received my most recent journal of Biophilately with the dire warning. As much as my elderly analog self enjoys holding a magazine in my hands, I would hate to see subscription rates soar, or even worse, see the unit fold up and disappear. I suggest you switch to digital online subscription only. I have a number of other subscriptions that are online only, and I can deal with it.

Regards,

Bob Brew

Natural Heritage of India on Stamps: Part 3 of 4

M. Lokeswara Rao IFS (Retd)

Principal Chief Conservator of Forests & Head of Forest Force (Retd)

In 1976, India Post issued a set of four stamps commemorating the untamed wildlife of India. **Swamp Deer:** Also known as “Barasingha ” these Swamp Deer are widely found in the Indian Subcontinent. Its distinctive antlers have more than 3 tines and some of deer are found to have as many as 20 tines, hence the name “barasingha” meaning “twelve-tined.” **Lion, King of India:** One of the five majestic cats of India, the Asiatic Lion or the Indian lion is different from the African lion with its less developed mane, larger tail tuft, a distinctive fold of skin on the belly and is smaller in size. But sadly today their population is limited mainly to Gir Forest National Park in Gujarat. **Indian Leopard:** Yet another big cat from the Indian subcontinent. The species of *Panthera pardus fusca*, the Indian leopard has larger rosettes than the other subspecies, with a paler coat in desert habitats, greyer in colder climates and more ochre in rainforest habitats. The population has been severely affected by poaching for the illegal trade of skins and body parts, loss of natural habitat and ecosystem decay. The IUCN Red List has declared the Indian leopard as Vulnerable and a new threat to them is their conflicts with the humans in areas located closer to human settlements. **Indian wild cat: The Caracal** is a medium sized wild cat native to Africa, central Asia, Middle East and India. Though listed as Least Concern on the IUCN Red List it is fast approaching extinction in India. Conflicts with human over livestock, rapidly depleting natural habitat and advancing deserts are major factors that endanger this secretive and difficult to observe cat.



1976 Indian Swamp Deer, Lion, Indian Leopard, Caracal

The **Hangul or Kashmir Stag**, is an endangered species. The Corbett National Park is extremely rich and varied both in its flora and fauna composition. The two stamps depict **Asiatic Elephant** and the **Gharial**. Endowed with an exceptionally rich fur coat to withstand the extreme cold of the uplands it inhabits, the **Snow Leopard** an endangered species has a remarkably bushy tail to prevent heat-loss and large pads to help it traverse snow. It is found throughout the Himalayan Range above the tree-line where sufficient prey are available.



Kashmir stag, Elephant, Gharial and Snow Leopard

The **Clouded Leopard** is found in the forests of Sikkim, Assam and adjoining Bhutan and Nepal. It is listed as an endangered animal under Schedule 1, of the Wildlife Protection Act. In India, the **Mishmi Takin** is found only in the Mishmi Hills and Arunachal Pradesh. It is listed as an endangered animal under Schedule I of the Wildlife Protection Act 1972. The **Sangai Deer** is a subspecies of the deer available only in Manipur. The deer is distinctive for its peculiar bow shaped antlers, unique body

structure and its elegant movement, which is often described as dancing. The **Slow Loris** is a round headed and round eyed lemur found in Tripura and adjoining parts of North East India.



Clouded Leopard, Mishmi Takin, Sangai Deer and Slow Loris

Lion tailed macaque is an endangered species. The home of this species of primate is the tropical rain forests of the Western Ghats in South India. The **Golden Langur** was discovered by a naturalist E.P. Gee in 1955. It is a beautiful animal with a black, hairless face except for a long, pale beard that gives a golden iridescence in bright light. Its habitat is dense deciduous tropical forests. This primate is exclusively vegetarian. Its population is very limited making it one of the rare species.



Golden langur and Lion-tailed macaque

Indian Ocean. However, it has been observed in the Gulf of Kutch, on the coast of Malabar and around the Andaman Islands.

The **River Dolphin** is found in the Ganges, the Brahmaputra and the Indus. They are also seen in the tidal limits, but do not enter the sea. The **Sea Cow** is generally found on the shores of the



River dolphin and Sea Cow

Batagur is a moderately large web-footed, aquatic species of terrapin.



Batagur and Olive Ridley Turtle

The species is found in fresh, brackish or even salt waters. It prefers to nest in a colony on large sand banks with slopes and also on riverine islands. The **Olive Ridley Turtle** is one of the common sea turtles in the Indian subcontinent found in the Gulf of Kutch, coastal waters of Kerala, Tamil Nadu, Odisha and Andaman Islands. It is protected under Schedule I of

the Indian Wildlife Protection Act 1972.

In 1999 India post-released endangered species stamps of **Asiatic Lion** that at one time had wide



1999 Asiatic Lion, 2011 African and Indian elephant

distribution. Overhunting and disturbance in its habitat led to its wide ranging extinction from all areas except the Gir Forest in Saurashtra in the State of Gujarat. For the second India Africa Forum Summit in 2011, two stamps of **African Elephants** and **Indian Elephants** were released. During the third India Africa Forum Summit, 2015, India post issued endangered species stamps of **Indian Lion** and **African Lion**, **Indian Rhinoceros** and **African Rhinoceros**, **Black buck** and **Thomson's gazelle**.
Rare Fauna of North East India: Red Panda,



2015 India Lion and African Lion, Indian Rhinoceros and African Rhinoceros, Black buck and Thomson's gazelle



2009 MS Rare Fauna of North East India: Red Panda, Barbe Leaf Monkey, Marbled Cat

Barbe Leaf Monkey, Marbled Cat are threatened fauna of North East India as their habitat had been destroyed.

Aldabra Giant Tortoise: the story of a tortoise named “Adwaitya” was a living example of Nature’s mysteries, and was the longest living reptile in the world, kept at Alipore Zoo Garden, Kolkata, India. It is believed that Adwaitya traveled to India along with British East India Company ships, when he was picked up along with some other tortoises from the



2008 MS Aldabra Giant Tortoise

Aldabra Island in the Indian Ocean. Four such tortoises were brought to Alipore Zoo when it was set up in 1857 from the menagerie at Latbagan, Barrackpore. It is believed that Adwaitya and the other three tortoises were born in 1750.

The **Kiang** of Ladakh is the largest of the all African and Asian wild Asses and the Ghor Khar Kutch **Indian Wild Ass** is predominantly found in Rann of Kutch and surrounding areas of Gujarat, India.



2013 MS Kiang of Ladakh Ghor Khar Kutch



2003 Snakes of India King Cobra, Bamboo Pit Viper, Python and Gliding snake

Snakes of India: The **King Cobra** - the largest species of venomous snakes is not common in India. It is found in and around dense snake jungles of hills in peninsular India. The bright green **Bamboo Pit Viper** is one of the tree dwelling, hill species in the Western Ghats and not seen below 450 meters. The **Python** is one of the largest and most widely distributed non-venomous snakes in India. The **Gliding Snake** is a graceful and agile climber and moves from branch to branch or up a perpendicular tree trunk with consummate ease.

Butterflies: In 1981 India Post released four butterfly stamps namely *Stichophthalama camadeva*, *Cethosia biblis*, *Cyrestis achates*, *Teinopalpus imperialis* and *Papilio mayo* (Male and Female): *Pachliopta rhodifer* (Male and Female) in 2013 "Endemic Butterflies of Andaman and Nicobar Islands."



Butterflies 2013 *Papilio mayo* (Male and Female) : *Pachliopta rhodifer* (Male and Female)



1981 *Stichophthalama camadeva*, *Cethosia biblis*, *Cyrestis achates*, *Teinopalpus imperialis*

Coral Reefs: About 250 species of corals are known to exist in Indian reefs, a majority of them in the Andaman and Nicobar Islands. The other areas with well-grown coral reefs are the Gulf of Kutch and Lakshadweep. The coral reefs depicted on stamps are *Fungia horrida* commonly known as **Mushroom Coral** is a polyp unlike other corals and is capable of limited movement. *Acropora digitifera* is a digitate coral having finger-like projection arising from the colony base. *Montipora aequituberculata* or the **Velvet Coral** grows in the form of whorls. *Acropora formosa*, also known as the **Staghorn Coral** resembles antlers and is among the most beautiful organisms in the reefs.



Coral reefs *Acropora formosa*, *Acropora digitifera*, *Fungia horrida*, *Montipora aequituberculata*

Shells: *Chicoreus brunneus* commonly known as **Rock Shell** or **Murex Shell**, live in shallow water and are carnivorous. *Cassis cornuta* generally known as **Horned Helmet Shell**, is wide-spread in the Indo-



Shells *Cassis cornuta*, *Cypraea staphylaea*, *Chicoreus brunneus*, *Lambis lambis*

Birds: The first bird stamps issued in 1968 were the **Red Billed Blue Magpie**, **Pied Woodpecker**, **Scimitar Babbler** and **Sunbird**.



1968 Scimitar Babbler, Red Billed Blue Magpie, Pied Woodpecker, Sunbird



Hornbill

Jerdon's Courser

Courser is critically endangered found in the thorn shrub country. It is crepuscular and nocturnal in habit. It received its name from Dr. T.C. Jerdon discovered it in 1848.

A small bustard with the typically longish bare legs and horizontal carriage of body, about the size of a domestic hen, the **Likh Florican** (*Syphoetides indicus*) is endangered much less shy and wild than other bustards. The **White Winged Wood Duck** (*Asarcornis scutulata*) endangered is a large duck, with a black body, a white head thickly spotted with black, conspicuous white patches on the wings and red or orange eyes. **Red Jungle Fowl** is found in forests of India. Dr. Salim Ali was active in the field of conservation in Ornithology. He had traveled all over India and knew birdlife intimately. His knowledge

Pacific and it grows to a size of up to 350 mm. *Cypraea staphylaea* Linnaeus, found in the Indo-West Pacific to Samoa, from the North Australia to Japan, measures upto 25 mm in size. A fully adult shell has fine nodules on the dorsum. *Lambis lambis* commonly called the "Spider Shell" is found only in the tropical Indo-Pacific, in shallow or deep waters on coral rocks. Its size can be up to 200 mm.

2009 India Philippines joint issue: issued stamps of **Gangetic Dolphin** and **Butanding whale shark** are vulnerable species.



2009 Gangetic Dolphin and Butanding Whale shark

Great Indian Bustards are magnificent, cursorial birds, inhabiting open country. The species found in India is critically endangered. The **Siberian Crane** believed to have existed on this planet for over one million years is one of the most critically endangered birds in the world. The Bombay Natural History Society (BNHS)



Great Indian bustard



Siberian Crane

founded in 1883 for study and conservation of Natural History, is largely responsible for identification and documentation of Indian fauna and avifauna, publication of an internationally acclaimed scientific journal and unmatched collection of birds, mammals, insects and reptiles. This stamp commemorating the Centenary of the Society features its logo the **Hornbill**. One of the rarest birds in the world the **Jerdon's**



Likh Florican, White Winged Wood Duck, Red Jungle Fowl, Salim Ali and Painted Stork Bharatpur Bird Sanctuary

and experience were respected and his timely intervention saved the Bharatpur Bird Sanctuary (now Keoladeo National Park) and the Silent Valley National Park.



Water birds series featuring Eastern White Stork, Black Necked Crane, Andaman Teal and Pink Headed Duck

Endangered Water birds series featuring **Eastern White Stork, Black Necked Crane, Andaman Teal and Pink Headed Duck** stamps were released in 1994. In 2006 Endangered Birds of India four stamps were released depicting **Greater Adjutant Stork, Nilgiri Laughing Thrush, Manipur Bush Quail and Lesser Florican.**



Endangered Birds Greater Adjutant Stork, Nilgiri Laughing Thrush, Manipur Bush Quail and Lesser Florican

Migratory Birds: 2,000 species of birds, 20% of all known species, make regular seasonal movements. Many travel thousands of miles between their breeding places and their wintering grounds. But more



Migratory birds Rosy starling (*Pastor roseus*), Garganey duck (*Anas querquedula*), Forest wagtail (*Dendronanthus indicus*) and White stork (*Ciconia ciconia*).

than 40% of these migratory species are declining, and nearly 200 are now classified as globally threatened. They face many dangers In 2000 India Post released four stamps of migratory birds **Rosy starling (*Pastor roseus*), Garganey duck (*Anas querquedula*), Forest wagtail (*Dendronanthus indicus*) and White stork (*Cicornia ciconia*).**



Birds of prey endangered species depicting Osprey (*Pandion haliateus*), Peregrine falcon (*Falco peregrinus*), Bearded vulture (*Gypaetus barbatus*) and Golden eagle (*Aquila chrysaetas*)

Birds of Prey: In 1992 and four stamps of birds of prey endangered species depicting **Osprey (*Pandion haliateus*), Peregrine falcon (*Falco peregrinus*), Bearded vulture (*Gypaetus barbatus*) and Golden eagle (*Aquila chrysaetas*)** were issued by India Post.

Threatened species: In 2016 Near Threatened Birds **Nicobar pigeon** (*Caloenas nicobarica*), **Nilgiri flycatcher** (*Eumyias albicaudatus*), **Andaman woodpecker** (*Dryocopus hodgei*) and **Black-and-orange Flycatcher** (*Ficedula nigrorufa*) stamps were released. The painted stork is a large wader in the stork family is near threatened species two stamps released in 1976 and 1996.



Vulnerable species: Vulnerable birds' three stamps **Nilgiri Wood pigeon** (*Columba elphinstonii*), **Broad Tailed Grass warbler** (*Schoenicola platyurus*), and **Nilgiri pipit** (*Anthus nilghiriensis*) were released in 2017.

2016 MS Nicobar pigeon (*Caloenas nicobarica*), Nilgiri flycatcher (*Eumyias albicaudatus*) and Andaman woodpecker (*Dryocopus hodgei*) and Black-and-orange Flycatcher (*Ficedula nigrorufa*)



Vulnerable birds Nilgiri Wood pigeon (*Columba elphinstonii*), Broad Tailed Grass warbler (*Schoenicola platyurus*), Nilgiri pipit (*Anthus nilghiriensis*)

Exotic Birds: India Post has released six exotic bird stamps in 2016: **Lesser Sulphur-crested cockatoo**, **Hyacinth Macaw**, **Cape Parrot**, **Magnum Amazon**, **Blue Throated Macaw** and **Sun Conure**. (Continued in Part 4)



Exotic Birds 2016: Blue Throated Macaw, Sun Conure, Magnum Amazon, Cape Parrot, Hyacinth Macaw and Lesser Sulphur-crested cockatoo

Observations on the Portrayal of Fossil Insects on Stamps and other Philatelic Materials

Peter Voice¹ and Michael Kogan²

¹Department of Geological and Environmental Sciences and Michigan Geological Survey, Western Michigan University

²Author of <http://www.paleophilatelie.eu/index.html> and Paleontology Editor for Biophilately

My recent review of the Nazari article “Taxonomy at Face Value: An assessment of entomological postage stamps as effective teaching aids for science educators” led to discussions with Michael about the portrayal of prehistoric insects on philatelic materials and inspired this current contribution to Biophilately.

Insects are Hexapods, a sub-phylum within the phylum **Arthropoda**. Arthropods are characterized by:

1. An exoskeleton – an external skeleton, often called the carapace. The exoskeleton is made up of a tough protein, chitin – which is similar to the keratin in your fingernails. The chitin is impregnated with calcite, a biomineral made up of calcium and carbonate (CaCO₃)
2. Arthropods undergo one or more molts during their lives. Molting or ecdysis is the process by which the exoskeleton is shed in order for the animal to grow larger. The individual then regrows a new exoskeleton – some species actually consume the shed exoskeleton in order to recycle the materials they used to grow it. Other species shed off the exoskeleton, leaving it behind – trilobites for example, are commonly found as cast-off fragments of the molted exoskeleton, where the exoskeleton tended to break along distinct joints in the body leading to regular pieces (i.e., cephalon (or head) fragments, thorax fragments, pygidium (or tail) fragments).

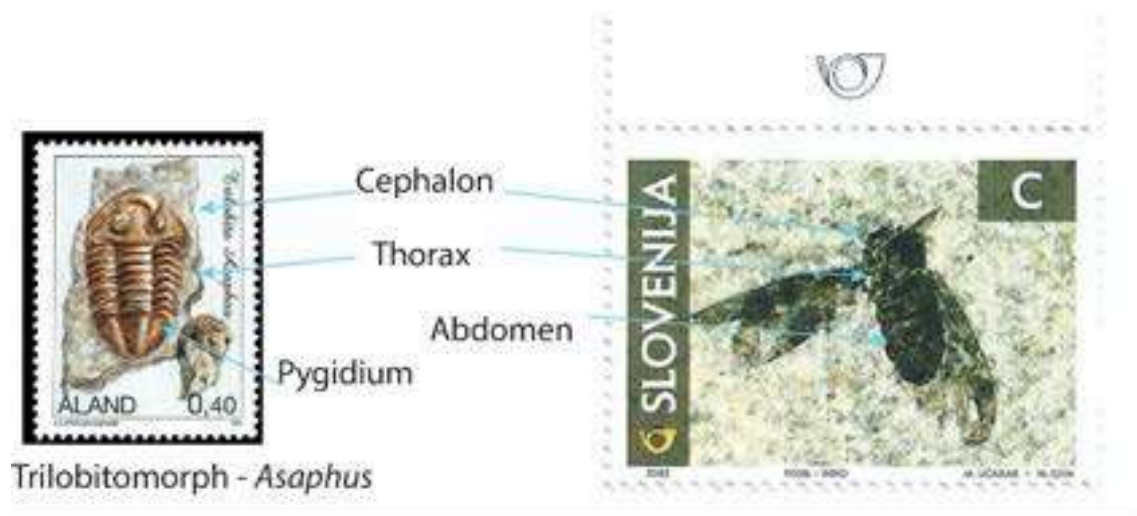


Figure 1: Examples of the tagmata in a trilobitomorph, *Asaphus* (Ordovician-aged Trilobite) and a hexapod – Dipteran (an Oligocene-aged fly from Slovenia and member of the Order Diptera). Aland, SC# - 85 and Slovenia, SC# 485).

3. Arthropods have segmented bodies (Figure 1), a feature that links them to several other phyla, including annelids (earth worms and their relatives), tardigrades (water bears) and onychophorans (velvet worms). Those segments than are organized into groups with a specific function and morphology – called tagmata (singular – tagma). Segments can be fused together so they act as one unit or can be jointed such that they move independently of each other. Examples int the trilobites include the cephalon or head – which includes the sensory apparati and the center of the nervous system, the thorax (the main trunk of the body – bearing the limbs and gills on each segment which is involved in respiration and digestive functions; segments independent of each other), and the pygidium (segments fused, also involved in locomotion). Insects have a similar three-part division – cephalon, thorax and abdomen.

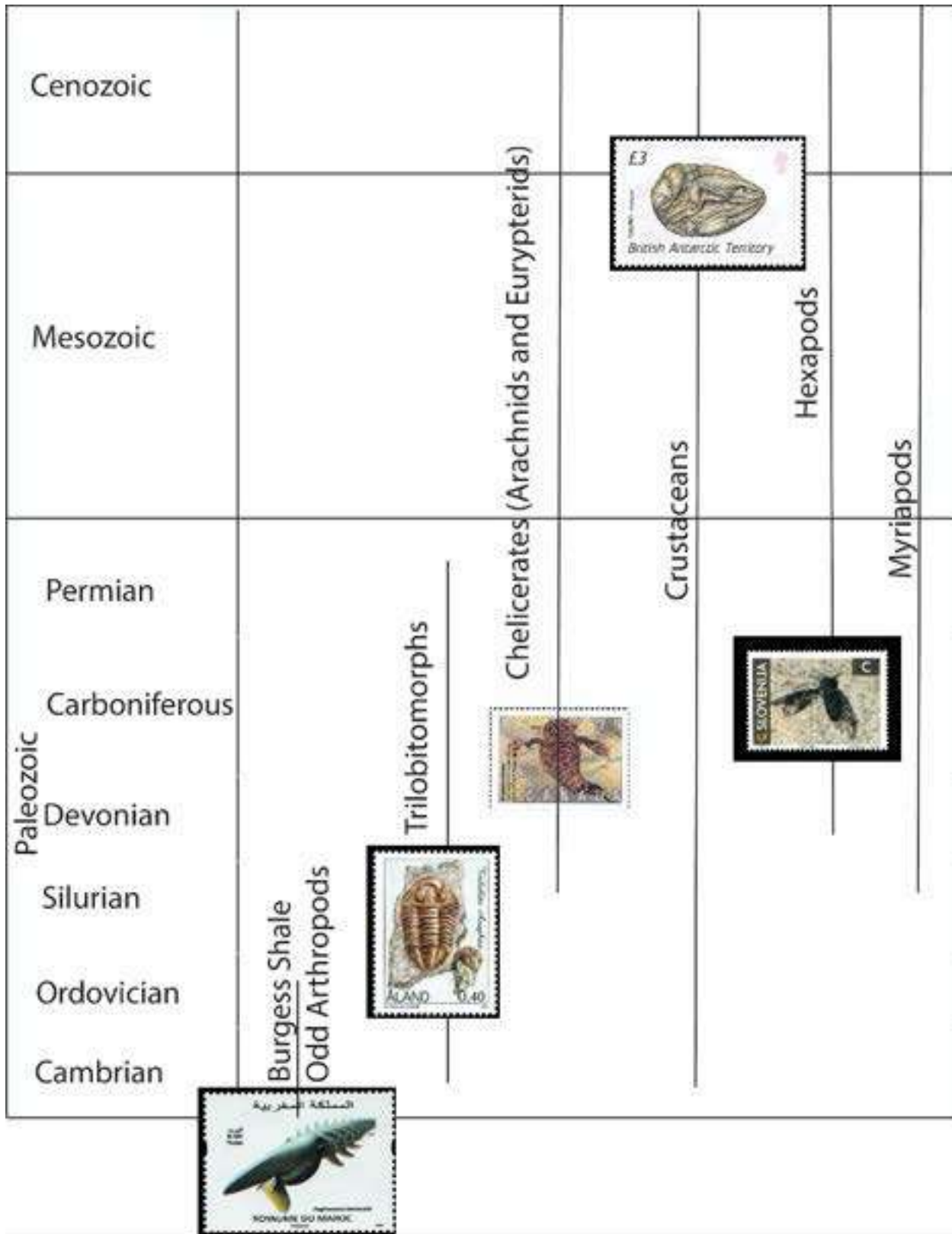


Figure 2: Age ranges of major groups of Arthropods with stamps illustrating examples of these groups. The Cambrian Period was a time when Arthropods experimented with body plans – the anomalocarid on Morocco 2015 stamp (SC# - ?) for example. The Trilobitomorphs include typical trilobites and their close relatives (*Asaphus*, Aland Islands, 1996, SC# - 85). Chelicerates include the eurypterids (sea scorpions like the one on Canada, 1990, SC# - 1280) and arachnids. Crustaceans are primarily marine arthropods like crabs, lobsters and shrimp, but also include crayfish like the one on the British Antarctic Territory stamp (1990, SC# - 167). Hexapods include the insects (Slovenia, 2002, SC# - 485). Myriapods include the centipedes and millipedes – we are sure there are examples in the margins of souvenir sheets from several Stamperija issues, but was unable to find a good example.

Arthropods are an incredibly diverse group in the modern environment – having mastered the oceans (to amazing depths), land, and even the air. Estimates of their modern diversity range from roughly 1 million to as many as 10 million species – with insects making up the greatest proportion of those living species (and probably the greatest proportion of all animals!). The phylum Arthropoda (Figure 2) includes hexapods (insects and their relatives), arachnids (spiders, scorpions, ticks, etc.), crustaceans (crabs, lobsters, shrimps, barnacles, ostracods and a large number of other planktonic (and usually small) organisms, and myriapods (millipedes and centipedes). In addition, the sub-phylum trilobitomorpha is an extinct group of arthropods that includes trilobites and their relatives. Both the crustaceans and trilobitomorpha are found in Cambrian rocks such as the Burgess Shale – their diversity at this point suggests that the arthropods may have had an earlier history with non-mineralized skeletons that did not preserve well in the fossil record. The oldest myriapods and arachnids showed up in the Silurian Period (between 430 and 430 million years ago). The Hexapods show up slightly later in the early Devonian Period. Much of the early diversity of terrestrial arthropods is known from exceptional preservation sites like the Rhynie Chert of Scotland, an early Devonian hot spring deposit – where precipitation of minerals from water coated the bodies of dead arthropods quickly, preserving them. At the Rhynie Chert a variety of arachnids (spiders, scorpions), crustaceans (freshwater branchiopods – similar to the modern water-flea *Daphnia* and fairy shrimp *Artemia*), apterygots (primitive wing-less insects), and myriapods (centipedes). The site is also important for its fossil plants – which include some of the earliest vascular plants known. The University of Aberdeen has a wonderful resource page with information about this site: <https://www.abdn.ac.uk/rhynie/intro.htm>.

Hexapods are a sub-phylum within the Arthropoda. As their name suggests, hexapods have three pairs of limbs (6 limbs total) on the thorax. Their bodies are organized into three tagmata – the cephalon, thorax and abdomen. The cephalon hosts a set of limbs including sensory structures (antennae) and articulated jaw structures (mandibles and maxillae). The thorax is made up of three thoracic segments – each bearing a pair of limbs. The second and third thoracic segments support the wings. Most of the limbs are secondarily lost on the abdomen segments with the exception of a set modified into the genitals and in some hexapods a pair of cerci (sensory appendages or structures used for defense or copulation).

Most insects hatch from eggs, but there are some modern ovoviviparous species that gestate their young internally and give live birth. Insects undergo metamorphosis (combined with ecdysis) eventually reaching the adult stage after 3 or 4 stages. Some species, like most butterflies and moths exhibit a pupal stage where the larvae build a cocoon.

Some observations from known stamp and other philatelic materials on the portrayal of insects on stamps:

- 56 stamps, postmarks (Figures 3 and 4), and marginalia recorded images of fossil insects or reconstructions of what the animals looked like in life.



Figure 3: Austrian cover with a postmark showing a fossil of *Palaeognathus succini* in amber from March 3, 1993.



Figure 4: Postmark showing the mayfly *Misthodotes stapfi*, a Permian-aged insect from Germany. Postmark from November 6, 1993.

- Whereas stamps showing modern insects heavily focus on the lepidopterans (butterflies and moths), the stamps exhibiting prehistoric insects are dominated by dragonflies (Odonatids). Other orders shown include dipterans, hymenopterans, mayflies (Ephemeropterans), coleopterans (beetles). Odonatids were represented on 36 of the 56 items – 64 % of the items (Figure 5)!

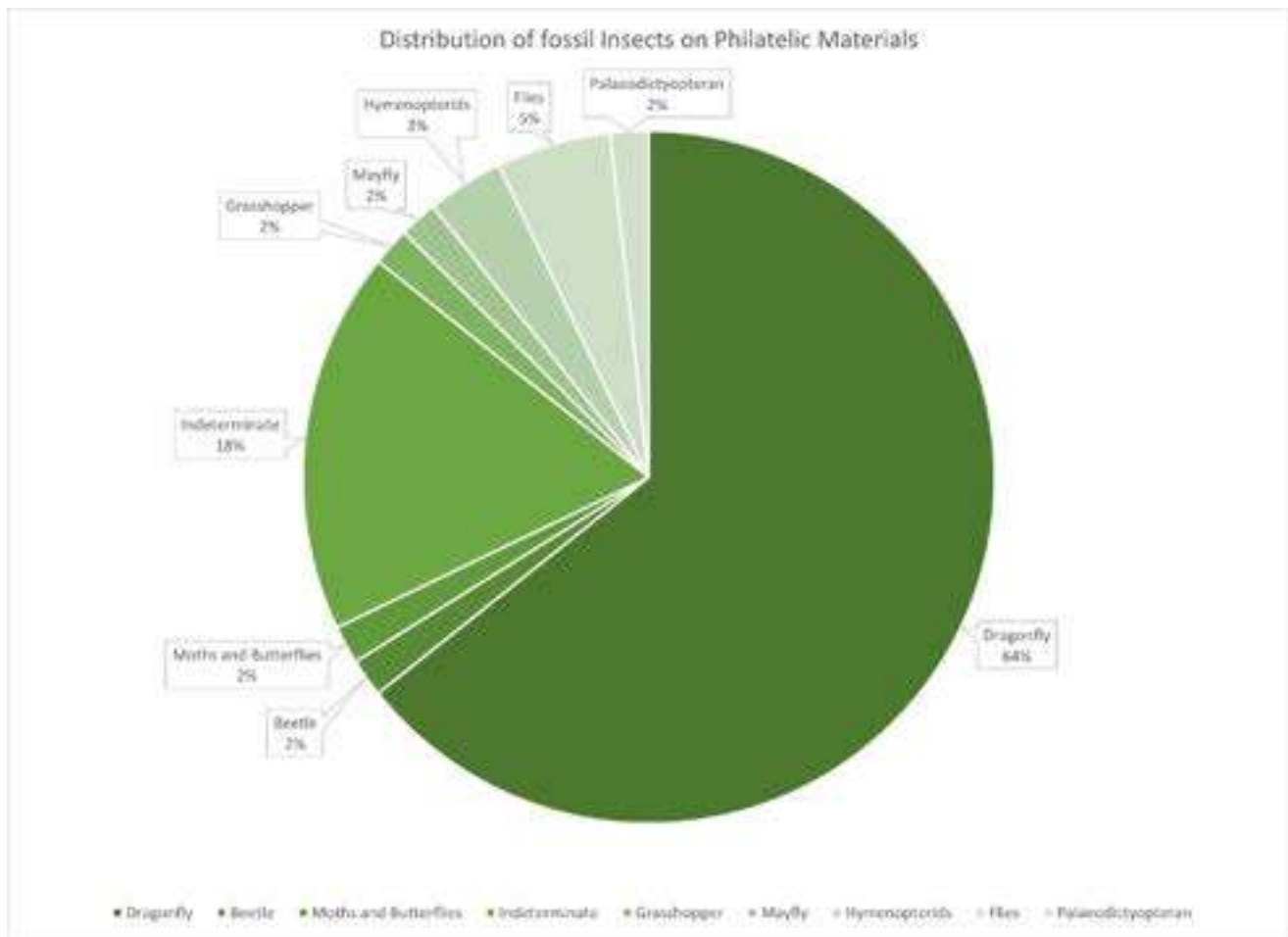


Figure 5: Proportions of stamps showing fossil insects identified to the order.

- When identified to the genus or species, the most common identification for the fossils on stamps are for the giant dragonfly, *Meganeura* or *Meganeura monyi*. This species from the Late Carboniferous is found as carbon films in the coal deposits of France and is characterized by its gigantic wingspan – over 70 cm (28 inches!).

- 10 stamps had insects that were indeterminate or unlabeled. The most common representation was as embedded insects in amber (petrified tree sap).
- Most portrayals show a reconstruction of what the insect looked like in life. The majority of dragonflies are shown as the prey of small theropod dinosaurs, other small reptiles and even in one case as prey for insectivorous mammals (Figure 6).



- Fossil preservation was shown on several stamps - for example, the carbon films on the Brazil 2016 stamps (SC# 3349a-b) and Slovenia 2002 (SC# 485) and several examples of insects embedded in amber (Peru 2014 SC# 1867 *Sycorax peruensis* in Amber)

Following the article is a table of stamp issues and other philatelic items that depict fossil insects.

Figure 6: Examples of fossil insects as prey or interacting with other animals. Upper cover – China 2019, shows two small mammals in lower left corner preying on a grasshopper. Lower left – Israel 2000 (SC# - 1423) shows a theropod dinosaur preying on a dragonfly. Lower right – US 2019 (SC# 5410) showing a juvenile *Tyrannosaurus rex* looking at an insect.

References:

Stanley and Luczaj, 2014, Earth System History, 4th ed.

Benton and Harper, 2020, Introduction to Paleobiology and the Fossil Record, Wiley Blackwell, 2nd ed.

Acknowledgements:

All stamp scans are from Michael Kogan's webpage: <http://www.paleophilatelie.eu/index.html>. We also would like to thank Chanho Park who kindly translated the text on the South Korean postmark from 1993 – confirming that the postmark was in honor of the Seoul Central Philately Association.

Appendix 1: A list of paleoentomology-related philatelic materials compiled from Michael Kogan's paleophilately website.

Country	Year	Scott #	Description
Australia	2013	3986-3991	Dragonfly in margin to left of <i>Qantassaurus</i> issue
Austria	1994	NA	"20 Years of Mineral Show VOOM in St. Polten" postmark shows a dragonfly fossil of the genus <i>Tarsophlebia</i> Hagen 1866 from the Solnhofen Limestone.
Austria	1995	NA	"Fossils and Minerals Trade Show in Voom" postmark – on the right shows a fossil of <i>Palaeognathus succini</i> in Bernstein (Amber). <i>Palaeognathus</i> is a genus of beetles.
Brazil	2016	3349a, b	3349a shows a dragonfly from the Geopark Araripe preserved as a carbon film. 3349b shows a moth also preserved as a carbon film. Both specimens are from the Cretaceous Santana Formation.
Burundi	2012 and 2015	NA	7500f stamp from 2012 showing <i>Compsognathus</i> preying upon a dragonfly. In margin of sheet is a <i>Saltopus</i> preying upon a dragonfly. The same artwork was clipped and used in several 2016 issues. The image of <i>Saltopus</i> preying upon a dragonfly is also shown on a 2016 mini-sheet (showing the pterosaur <i>Tropeognathus</i> on the 1070f stamp). <i>Compsognathus</i> preying upon a dragonfly is also shown in the margin of a mini-sheet for a 1070f stamp showing <i>Pachyrhinosaurus</i> .
Central African Republic	1999	1262a	Amber with embedded fossil insect
Central African Republic	2001	1427f	Stamp labeled Myahuera shows the dragonfly <i>Meganuera</i> from the Late Carboniferous.
People's Republic of China	2019	NA	Commemorative Cover for the Paleontologic Museum of China in Beijing. The lower left of the cover shows a pair of small mammals – with the left individual consuming an insect which appears to be a grasshopper.
Comoros Islands	1999	894	Margin of mini-sheet shows a small mammal (<i>Megazostrodon</i>) chasing a flying insect.
Comoros Islands	1999	890a	Stamp shows the Late Carboniferous dragonfly <i>Meganeura monyi</i> .
Comoros Islands	2009	NA	Several mini-sheets have an <i>Archaeopteryx</i> preying upon a dragonfly in the margin. The same art is used on a stamp (500FC) from a third mini-sheet.
Gabon	1995	800i	Stamp shows the Late Carboniferous dragonfly <i>Meganeura monyi</i> .
Germany	1984	NA	Postmark – "Minerals Market in Fulda" shows an insect in amber.

Germany	1993	NA	“20 years of Paleontological Museum in Nierstein: <i>Misthodotes stapfi</i> . Postmark shows a Permian-aged Mayfly
Germany	1994	NA	Postal Card shows a reconstruction of the Palaeodictyopteran <i>Stilbocrocis heeri</i> Goldberg. Fossils are found in the Carboniferous coal deposits of Germany.
Germany	1997	NA	“Geological State Office North Rhine-Westphalia Climate Witnesses of the history of the Earth: Giant dragonfly from Carboniferous Period” Postmark
Germany	2011	NA	Official FDC for the <i>Archaeopteryx</i> issue shows an <i>Archaeopteryx</i> in flight chasing a dragonfly.
Guinea	1998	1498	Souvenir sheet depicts a piece of amber in the right margin with an embedded insect. [Note that a 2009 overprint also exists surcharged with 15000 fr]
Guinea	2013	NA	Lower margin of mini-sheet of modern ant stamps has a piece of amber with embedded insect fossils.
Guinea-Bissau	2001	NA	Mini-sheet – in margin has theropod dinosaur chasing dragonfly.
Guyana	1996	3051	Mini-sheet shows small archosaur <i>Lagosuchus</i> chasing flying insect in margin.
Iraq	2010	1758	Imperforate stamp – several dragonflies are shown in the lower foreground.
Israel	2000	1423	Stamp shows small theropod dinosaur (<i>Struthiomimus?</i>) chasing dragonfly.
North Korea	2010	4920 a-c	On the lower right margin of mini-sheet is a dragonfly.
South Korea	1999	NA	Postmark – large Dragonfly fossil in honor of the formation of the Seoul Central Philately Association.
Lebanon	2003	570	Stamp shows fossil of <i>Libanobythus milkii</i> – a hymenopterid from the Early Cretaceous embedded in Amber.
Liberia	1999	1414	Stamp shows the theropod dinosaur <i>Tarbosaurus</i> . In the lower center margin of the mini-sheet is a dragonfly.
Lithuania	2009	895	On margin of sheet are photographs of polished amber specimens with embedded insects
Malawi	1993	623d	Stamp shows Gallimimus (small theropod dinosaur) – above its back are two flying dragonflies.
Mozambique	2018	NA	From a set of stamps and mini-sheets in honor of the Natural History Museum of Berlin – one stamp shows a fossil of <i>Meganeura monyi</i> on the right and a dragonfly on the left. It is not clear if the dragonfly on the left is supposed to be a reconstruction of <i>Meganeura</i> .
Mozambique	2019	NA	From a mini-sheet of “extinct animals”, a reconstruction of <i>Meganeura monyi</i> is shown in the upper right margin.
Niger	2017	NA	Stamp from set “the Flying Dinosaurs” – has an image of <i>Archeopteryx lithographica</i> preying on a dragonfly.

Peru	2014	1867	Mini-sheet has pictures of amber with embedded insects. Stamp shows an individual of <i>Sycorax peruensis</i> , a mosquito embedded in amber. Miocene in age. A postmark showing <i>Sycorax peruensis</i> was used for the first day ceremony.
Poland	1993	3139	Stamp shows piece of amber with embedded insect
St. Vincent & the Grenadines	2003	3152 a-d	Two dragonflies are shown in the margins of the mini-sheet. 3152b shows a <i>Velociraptor</i> snapping at the wing of a dragonfly.
Sierra Leone	2001	2482c	Stamp shows <i>Archaeopteryx</i> chasing dragonfly
Sierra Leone	2001	2483 a-h	Right margin of mini-sheet has a dragonfly.
Slovenia	2002	485	Carbon film of an Oligocene-age Dipteran from Slovenia on stamp. Note the postmark for the first day ceremony shows a wing of this animal and the FDC cachet shows a reconstruction of the insect.
Republic of South Africa	1982	609, 609a	Stamp 609 shows the mammal-like reptiles, <i>Thrinaxodon</i> . In the center of the stamp is a dragonfly. Mini-sheet 609a prints the 4 stamps of 606-609 as a mini-sheet. It has stylized dragonflies as part of the imagery in the margin of the sheet as well as the same image as in 609.
Spain	1995	NA	Postmark for “the Philatelic Show – Minerals and Fossils in Urretxu” shows a fossil insect.
Togo	2019	NA	From set “The Fossils” one stamp shows a carbon film of <i>Meganeura monyi</i> .
Tonga Niuafu'ou	1989	117 and 118	Both stamps show the same scene from the Carboniferous period with a large dragonfly in the upper left of the stamp.
United States of America	1997	3136 a-o	Stamp 3136h shows <i>Opisthias</i> preying upon dragonfly. Dragonflies are scattered around the margins of this souvenir sheet.
United States of America	1999	NA	Postmark celebrating the 30th Anniversary of the Florissant Fossil Beds, National Monument showing a carbon film of a wasp from the site.
United States of America	2019	5410	Stamp shows a <i>Tyrannosaurus rex</i> hatchling staring at a flying insect hovering above it.
Uzbekistan	1999	205a	Stamp depicts Carboniferous swamp with a flying <i>Meganeura</i> .



BOTANY

Editor

Christopher E. Dahle BU 1269



Scott #	Denom	Common Name	Botanical Name	Family	Code
ALBANIA					
2022 April 4 (Flora) Set/3					
3055		Horiz strip of 3			
3055a	5L	Rosemary, <i>Rosmarinus officinalis</i>		Lamiaceae	Fl A
3055b	30L	Greek oregano, <i>Origanum heracleoticum</i>		Lamiaceae	Fl A
3055c	200L	Albanian lily, <i>Lilium albanicum</i>		Liliaceae	Fl A
ANTIGUA					
2021 April 28 (Flowers) Set/4, SS/1					
3619		Sheet of 4			
3619a	\$5.50	Yellow allamanda, <i>Alamanda cathartica</i>		Apocynaceae	Fl A MS
3619b	\$5.50	Hawaiian hibiscus, <i>Hibiscus rosa-sinensis</i>		Malvaceae	Fl A MS
3619c	\$5.50	Blue plumbago, <i>Plumbago auriculata</i>		Plumbaginaceae	Fl A MS
3619d	\$5.50	Frangipani, <i>Plumeria rubra</i>		Apocynaceae	Fl A MS
3620	\$14	Oleander, <i>Nerium oleander</i>		Apocynaceae	Fl A SS
2021 October 8 (Tropical Fruit) Set/6, SS/2					
3630		Sheet of 6			
3630a	\$4	Starfruit, <i>Averrhoa carambola</i>		Oxalidaceae	Fr A MS
3630b	\$4	Coconut, <i>Cocos nucifera</i>		Arecaceae	Fr A MS
3630c	\$4	Passionfruit, <i>Passiflora edulis</i>		Passifloraceae	Fr A MS
3630d	\$4	Papayas, <i>Carica papaya</i>		Caricaceae	Fr A MS
3630e	\$4	Dragonfruits, <i>Selenicereus sp.</i>		Cactaceae	Fr A MS
3630f	\$4	Pineapple, <i>Ananas comosus</i>		Bromeliaceae	Fr A MS
3631		Sheet of 2			
3631a	\$8	Lychees, <i>Litchi chinensis</i>		Sapindaceae	Fr A SS
3631b	\$8	Mangos, <i>Mangifera indica</i>		Anacardiaceae	Fr A SS
ARMENIA					
2021 December 24 (Flora and Fauna) Set/4					
1295	400d	<i>Iris acutiloba subsp. lineolata</i>		Iridaceae	Fl A
1296	450d	Water lily, <i>Nymphaea alba</i>		Nymphaeaceae	Fl A
1296a		Sheet of 8			
2022 April 7 (Ptg by Lavinia Bazhbeuk-Melikyan) Set/2					
1313	410d	"Cacti"		Cactaceae	V A
AUSTRALIA					
2022 February 8 Set/5, perf 14¾x 14					
5415	\$1.10	Stylized flowers			Fl B S
5418	\$1.10	Roses, <i>Rosa x hybrida</i>		Rosaceae	Fl A
Set/5 SA die cut 11¼					
5420	\$1.10	Stylized flowers			Fl B S
5420a		Booklet pane of 10			
5423	\$1.10	Roses, <i>Rosa x hybrida</i>		Rosaceae	Fl A
5423a		Booklet pane of 10			
2022 May 24 (Bush Seasonings) Set/3, SS/6					
5466	\$1.10	River mint, <i>Mentha australis</i>		Lamiaceae	Fl V A

AUSTRALIA (continued)

5466a		Tete-beche pair		
5466b		Booklet pane of 4		
5466c		Booklet pane of 4 (Two tete-beche pairs)		
5467	\$1.10	Mountain pepper, <i>Tasmannia lanceolata</i>	Winteraceae	Fl A
5467a		Tete-beche pair		
5467b		Booklet pane of 4		
5467c		Booklet pane of 4 (Two tete-beche pairs)		
5468	\$2.20	Lemon myrtle, <i>Backhousia citriodora</i>	Myrtaceae	Fl A
5468a		Tete-beche pair		
5468b		Booklet pane of 4		
5468c		Booklet pane of 4 (Two tete-beche pairs)		
5468d		Souvenir sheet of 6		

AUSTRIA**2022 April 30** (Ruster Ausbruch Wine Region) Single

2989	85c	Grapes, <i>Vitis vinifera</i>	Vitaceae	Fr B
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BELGIUM**2021 October 25** (Viticulture in Belgium) Set/5

2965		Sheet of 5 in shape of grape leaf, <i>Vitis vinifera</i>	Vitaceae	V A
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2022 March 21 (Hexagonal Items in Nature) Set/5

2978		Sheet of 5		
2978a	1 (€2.09)	Pineapple skin, <i>Ananas comosus</i>	Bromeliaceae	V A
2978e	1 (€2.09)	Cactus	Cactaceae	V A

BOSNIA & HERZEGOVINA (Croat Admin)**2021 November 1** (Orchids) Set/2

439		Pair		
439a	2.70m	Fly orchid, <i>Ophrys insectifera</i>	Orchidaceae	Fl A
439b	2.70m	Lady's slipper, <i>Cypripedium calceolus</i>	Orchidaceae	Fl A

CAMBODIA**2021 December 28** (Flowers) Set/5

2575	1900k	Kabah, sea hibiscus, <i>Hibiscus tilliaceous</i>	Malvaceae	Fl A
2576	2000k	Wild pansy, <i>Viola tricolor</i>	Violaceae	Fl A
2577	3000k	White gardenias, <i>Gardenia jasminoides</i>	Rubiaceae	Fl A
2578	4000k	Cheung ko, <i>Bauhinia variegata</i>	Fabaceae	Fl A
2579	5000k	Hibiscus, <i>Hibiscus rosa-sinensis</i>	Malvaceae	Fl A

CANADA**2022, July 7** (Surtax for Canada-Ukraine Foundation) Single

B32	P+10c (92c)	Sunflower, <i>Helianthus annuus</i>	Asteraceae	Fl A
B32a		Booklet pane of 10		

CHINA, PEOPLE'S REPUBLIC**2021 September 7** (Cotton Roses) Set/4

4832	\$1.20	Cotton Rose, <i>Hibiscus mutabilis</i>	Malvaceae	Fl A
4833	\$1.20	Cotton Rose 'Jinqiuhong' <i>H. mutabilis</i> 'Jinqiuhong'	Malvaceae	Fl A
4834	\$1.20	Cotton Rose 'Chongbanbai' <i>H. mutabilis</i> 'Chongbanbai'	Malvaceae	Fl A
4835	\$1.20	Cotton Rose 'Zuifurong' <i>H. mutabilis</i> 'Zuifurong'	Malvaceae	Fl A

CHINA (Taiwan)**2022 July 7** (Poems) Set/4

4657	\$8	"Zither Played in Tune" <i>Pinus sp.</i>	Pinaceae	T B
4658	\$8	"Go" and unidentified tree		T U B
4659	\$12	"Matched Rhyme to Liu Gongfu's Inscription on Wen Lugong's Calligraphy" <i>Wisteria japonica</i>	Fabaceae	Fl B
4660	\$28	"Plum Blossoms in Ink", <i>Prunus mume</i>	Rosaceae	Fl B

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COOK ISLANDS	2021 May 5	(Items in Smithsonian)	Set/12
1732	Sheet of 6		
1732a 10c	Flower, <i>Passiflora coccinea</i>	Passifloraceae	Fl A MS
CROATIA	2021 March 21	(Roses)	Set/3
1258 A (3.30k)	Bistrice roses, <i>Rosa x hybrida</i> 'Bistrice'	Rosaceae	Fl A
1258a	Booklet pane of 10		
1259 A (3.30k)	Slavoljub Penkala roses, <i>Rosa x hybrida</i> 'Slavoljub Penkala'	Rosaceae	Fl A
1259a	Booklet pane of 10		
1260 A (3.30k)	Christmas Jubilee roses, <i>Rosa x hybrida</i> 'Christmas Jubilee'	Rosaceae	Fl A
1260a	Booklet pane of 10		
	2022 April 12	(Solidarity with Ukraine)	Single
1263 B (8.60k)	Field of rapeseed flowers & blue sky, <i>Brassica napus</i>	Brassicaceae	Fl B
CUBA	2020 August 1	(Cuban Fruit)	Set/5
6262 15c	Canistel, eggfruit, <i>Pouteria campechiana</i>	Sapotaceae	Fr A
6263 30c	Coconut, <i>Cocos nucifera</i>	Arecaceae	Fr A
6264 75c	Mammee, <i>Mammea americana</i>	Calophyllaceae	Fr A
6265 85c	Spanish lime, <i>Melicoccus bijugatus</i>	Sapindaceae	Fr A
6266 90c	Tamarind, <i>Tamarindus indica</i>	Fabaceae	Fr A
DJIBOUTI	2021 November 1	(Cacti)	Set/6, SS/1
2575a 250fr	Brain cactus, <i>Mammillaria elongata</i> 'Cristata'	Cactaceae	V A MS
2575b 250fr	Beavertail cactus, <i>Opuntia basilaris</i>	Cactaceae	Fl A MS
2575c 250fr	Powder puff cactus, <i>Mammillaria bocasana</i>	Cactaceae	Fl A MS
2575d 250fr	Bishop's cap, <i>Astrophytum coahuilense</i>	Cactaceae	Fl A MS
2575e 250fr	Golden barrel cactus, <i>Kroenleinia</i> (= <i>Echinocactus</i>) <i>grusonii</i>	Cactaceae	V A MS
2575f 250fr	<i>Mammillaria haageana</i>	Cactaceae	V A MS
2584 1000fr	Candelabra cactus, <i>Jasmsinocereus thouarsii</i>	Cactaceae	V A SS
	Prickly pear, <i>Opuntia chlorotica</i>	Cactaceae	V A SS Z
	Indian fig, <i>Opuntia ficus-indica</i>	Cactaceae	Fl A SS Z
	2021 December 20	(Orchids)	Set/4, SS/1
2625a 250fr	Egg-in-a-nest orchid, <i>Paphiopedilum bellatulum</i>	Orchidaceae	Fl A MS
2625b 250fr	<i>Oncidium</i> (= <i>Odontoglossum</i>) <i>hallii</i>	Orchidaceae	Fl A MS
2625c 250fr	<i>Anguloa clowesii</i>	Orchidaceae	Fl A MS
2625d 250fr	<i>Vanda coerulea alba</i>	Orchidaceae	Fl A MS
2643 1000fr	<i>Cattleya candida</i>	Orchidaceae	Fl A SS
	<i>Gomesa</i> (= <i>Oncidium</i>) <i>forbesii</i>	Orchidaceae	Fl A SS Z
ESTONIA	2022 April 20		Single
978 90c	Carelica Birch, <i>Betula pendula subsp. pendula</i> (= var. <i>carelica</i>)	Betulaceae	T A
FRANCE	2022 May 6	(Flowers for Flavoring Candy)	Set/12
6213 (€1.16)	Poppy, lozenge, <i>Papaver rhoeas</i>	Papaveraceae	Fl A
6214 (€1.16)	Chestnut catkins, candied chestnut, <i>Castanea sativa</i>	Fagaceae	Fl A
6215 (€1.16)	Acacia, gumdrop, <i>Acacia sp.</i>	Fabaceae	Fl A
6216 (€1.16)	Marsh mallow, marshmallow, <i>Althaea officinalis</i>	Malvaceae	Fl A
6217 (€1.16)	Mint, Bétise de Cambrai, <i>Mentha spicata</i>	Lamiaceae	Fl A
6218 (€1.16)	Anise, Anis de Flavigny, <i>Pimpinella anisum</i>	Apiaceae	Fl A
6219 (€1.16)	Cacao, chocolate, <i>Theobroma cacao</i>	Malvaceae	Fl A
6220 (€1.16)	Violets, violet candy, <i>Viola odorata</i>	Violaceae	Fl A
6221 (€1.16)	Bergamot, Bergamote de Nancy, <i>Monarda fistulosa</i>	Lamiaceae	Fl A
6222 (€1.16)	Coconut, coconut ball, <i>Cocos nucifera</i>	Arecaceae	Fl A

FRANCE (continued)

6223	(€1.16)	Licorice, candy, <i>Glycyrrhiza glabra</i>	Fabaceae	Fl A
6224	(€1.16)	Almond, Dragées, <i>Prunus amygdalus</i>	Rosaceae	Fl A
6224a		Booklet pane of 12		

FRENCH POLYNESIA**2022 January 28** (Endangered Plants) Set/2

1277	100fr	<i>Pacifigeron rapensis</i>	Asteraceae	V A
1278	130fr	<i>Erythrina tahitensis</i>	Fabaceae	Fl A

GRENADA**2021 December 1** (Flowers) Set/5, SS/1

4426		Sheet of 5		
4426a	\$3	Flamingo flower, <i>Anthurium andeanum</i>	Araceae	Fl A MS
4426b	\$4	Bougainvilleas, <i>Bougainvillea spectabilis</i>	Nyctaginaceae	Fl A MS
4426c	\$5	Heliconia, <i>Heliconia sp.</i>	Heliconiaceae	Fl A MS
4426d	\$6	Pink orchid, <i>Phalaenopsis sp.</i>	Orchidaceae	Fl A MS
4426e	\$7	Golden trumpet, <i>Alamanda catharica</i>	Apocynaceae	Fl A MS
4427	\$14	Striped Barbados lily, <i>Hippeastrum striatum</i>	Amaryllidaceae	Fl A SS

KOREA, SOUTH**2021** (Definitives) Set/8

2603	500w	Hawthorn, <i>Crataegus pinnatifida</i>	Rosaceae	Fr A
2604	520w	Rose of Sharon, <i>Hibiscus syriacus</i>	Malvaceae	Fl A

LATVIA**2022 January 10** (Type of 2014 dated 2022, see Vol 63(3) p163; Vol 64(3) p158)

687f	1c	Daises, <i>Bellis sp.</i>	Asteraceae	Fl A
868f	4c	Hepatica, <i>Hepatica nobilis</i>	Ranunculaceae	Fl A
895f	10c	Crocuses, <i>Crocus longiflorus</i>	Iridaceae	Fl A
896f	25c	Asters, <i>Callistephus chinensis</i>	Asteraceae	Fl A

NEPAL**2020 January 1** (Flora) Set/4

1116	10r	<i>Berberis pendryi</i>	Berberidaceae	Fr A
1117	10r	<i>Begonia tribenensis</i>	Begoniaceae	Fl A
1118	10r	<i>Begonia leptoptera</i>	Begoniaceae	Fl A
1119	10r	<i>Berberis mucrifolia</i>	Berberidaceae	Fr A

SURINAM**2022 March 2** (Orchids) Set/6

1641	\$40	Arching brassia, <i>Brassia arcuigera</i> (=longissima)	Orchidaceae	Fl A
1642	\$50	Dracula orchid, <i>Dracula vampira</i>	Orchidaceae	Fl A
1643	\$60	Fringed star orchid, <i>Epidendrum ciliare</i>	Orchidaceae	Fl A
1644	C	<i>Barkeria lindleyana</i>	Orchidaceae	Fl A
1645	\$70	<i>Masdevallia tricallosa</i>	Orchidaceae	Fl A
1646	\$140	<i>Maxillaria coccinea</i>	Orchidaceae	Fl A

New Plants in the Philatelic Herbarium

By Christopher E. Dahle, BU 1269

Iris acutiloba subsp. *lineolata* IRIDACEAE

Synonyms: 8

Rhizomatous perennial. Narrow leaves to 10 cm long, 0.2-0.6 cm wide, gray green. Erect stems 8-25 cm with cream to pale violet flowers with dark veins and spots, in spring and early summer. Found on rocky hillsides in the mountains or on sandy soils at 1,500-3,000 m in Armenia, Azerbaijan, Dagestan and Türkiye to Iran and Turkmenistan.

Armenia Scott #1295. Issued 24 Decemebr 2021 in a series of 4 featuring Flora and Fauna on the IUCN Red Book for Armenia. Designed by Rem Saakyan. Printed by Cartor, France with 8 stamps per sheet in a print run of 30,000 sheets.



Mentha australis LAMIACEAE

Common name: River mint

Synonyms: *Micromeria australis*

Perennial herb 0.5-0.75 m high. Leaves scented, edible, 25-60 mm, lanceolate, with toothed margins. Flowers, small white or lilac in upper axils in summer and autumn. Grows in shady riverine habiatats throughout eastern Australia.

Australia Scott #5466. Issued 24 May 2022 in a set of three and a souvenir sheet of 6 featuring "Bush Seasonings." Designed by Jo Muré and illustrated by Gavin Ryan. Printed by offset lithography on gummed Tullis Russell Red Phosphate paper.



Tasmannia lanceolata WINTERACEAE

Common name: Mountain pepper, Tasmanian peppercorn

Synonyms: *Austrodrimys lanceolata*, *Drimys lanceolata*, *Drimys xerophylla* var. *aromatica*, *Tasmannia aromatica*

Evergreen shrub 2-3 m. Red stems. Leaves leathery, lanceolate to narrow-elliptic, 4-12 cm by 0.7 -2 cm, dark glossy green above lighter underneath. Flowers pale yellow to creamy white in summer, berries black, 10 mm. Leaves and berries used in Australian cuisine. Grow in woodlands and cool temperate forest in southeastern Australia.

Australia Scott #5467. Issued 24 May 2022 in the "Bush Seasonings" set.



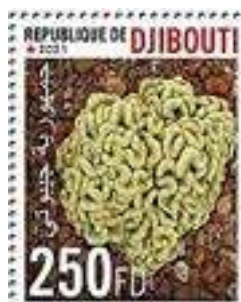
Backhousia citriodora MYRTACEAE

Common names: Lemon myrtle

Evergreen shrub or small tree 5 to 8 m. Leavess lemon-scented, oval to lannceolate, 50-100 mm slightly toothed. White flowers are numerous in clusters on long stalks. Fruit a capsule. Found in coastal forests and rainforests in Queensland, Australia.

Australia Scott #5468. Issued 24 may 2022 in the "Bush Seasonings" set.





***Mammillaria elongata* 'Cristata'** CACTACEAE

Common name: brain cactus

Succulent groundcover of clusters of prostrate or recumbent stems, 1-3 cm diameter, 3-10 cm long. Horticultural variety originally native to central Mexico.

Djibouti Scott #2575a. Issued 1 November 2021 in a minisheet of 6 and a souvenir sheet of 1 design.



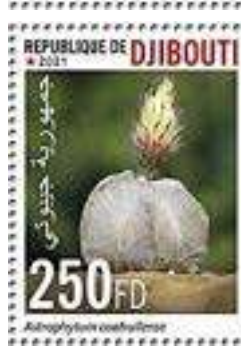
Mammillaria bocasana CACTACEAE

Common name: Powder puff cactus, powder puff pincushion

Synonyms: 45

Clumping cactus forming large mounds. Stems 12 cm tall, 8 cm diameter. Flowers cream or pinkish, 1.5 cm diameter, in spring and summer. Grows on canyon walls, 1650-2300 m in semi-desert in north central Mexico.

Djibouti Scott #2575c. Issued 1 November 2021 in a minisheet of 6 and a souvenir sheet of 1 design.



Astrophytum coahuilense CACTACEAE

Common name: Bishop's cap

Synonyms: *Astrophytum myriostigma* subsp. *coahuilense*, *Astrophytum myriostigma* var. *coahuilense*, *Echinocactus myriostigma* subsp. *coahuilensis*

Five-ribbed succulent stems to 100 cm, 20 cm diameter. Flowers yellow, red throat. Found on sunny south and east slopes on lime formations, 1,100-1,600 m in southwestern Coahuila and Durante states in Mexico.

Djibouti Scott #2575d. Issued 1 November 2021 in a minisheet of 6 and a souvenir sheet of 1 design.



Mammillaria haageana CACTACEAE

Synonyms: 41

Perennial with globose succulent stem, 5-8 cm. Flowers rose-red with 15 petals, arranged in a circle near apex. Found in odecissuous tropical forest, xerophyllous scrub, secondary vegetation and open grassy areas of southern Mexico in states of Puebla, Vera Cruz and Oaxaca.

Djibouti Scott #2575f. Issued 1 November 2021 in a minisheet of 6 and a souvenir sheet of 1 design.



Gomesa forbesii ORCHIDACEAE

Synonyms: *Anettea forbesii*, *Brasilidium forbesii*, *Oncidium forbesii*

Epiphytic small to medium-sized herbaceous perennial. Leaf oblong to ovate, terminal on pseudobulb. Raceme erect multiflorous. Flower, 6 cm, chestnut brown with yellow marbled margins. Found in southeast Atlantic forests at 50 -1,200 m in the states of Espirito Santo, Minas Gerais, Rio de Janeiro and São Paulo in Brazil.

Djibouti Scott #2643. Issued 20 December 2021 in a set of 4 and a souvenir sheet of one. On margin.

Pacifigeron rapensis ASTERACEAESynonyms: *Erigeron rapensis*

Herbaceous perennial, prostrate, 10-50 cm. Leathery leaves. White and yellow flowers. Endemic to the high volcanic island of Rapa near the summit of Mount Perau, 500-600 m where 2 populations of 20 plants were recently recorded.

French Polynesia Scott #1277. Issued 28 January 2022 for Endangered Endemic Plants in a series of two. Photographed by J.Y.Mayer. Printed by offset in sheets of 25 stamps and a run of 30,000 by FARE RATA.

***Berberis pendryi*** BERBERIDACEAE

Newly described in a 2012 revision of Nepal's Berberis. Shrub to 70 cm. Stems reddish brown, spiny, 0.5-1.2 cm, 3-fid or 5-fid. Leaves deciduous, obovate 0.5-2 x 0.4-0.8 cm, toothed. Flowers solitary, yellow, 1 cm. Berries red, sub-globose to ellipsoid, 0.5-1 cm. Grow in dry rocky areas with thin soils at 3600 m in central Nepal.

Nepal Scott #1116. Issued 1 January 2020 in a set of 4 of Nepalese Flora.

***Berberis mucrifolia*** BERBERIDACEAE

Deciduous semi-prostrate shrub to 1 m. Stems yellowish or gray, spiny, 1-2 cm, 3-fid. Leaves elliptic to ovate 0.8-2.5 x 0.2-0.5 cm, spiny tip. Flowers yellow, solitary 0.5 cm, April -June. Berries red, globose, 5-7 mm. Found in dry rocky soils 2,000-4,000 m in western and central Nepal. Endemic.

Nepal Scott #1119. Issued 1 January 2020 in a set of 4 of Nepalese Flora.

***Begonia tribenensis*** BEGONIACEAE

Tuberous herb. Leaves have pinkish petiole. White flowers. Grows on riverbanks and in rock crevices in the shade. Found in subtropical regions of Nepal 150-600 m, endemic.

Nepal Scott #1117. Issued 1 January 2020 in a set of 4 of Nepalese Flora.

Begonia leptoptera BEGONIACEAE

Tuberous erect plant. Leaves non-peltate, maculate, with long red edible petioles. Flowers pink, in umbels. Endemic to central Nepal. Found at 1,500-2,600 m. Endemic.

Nepal Scott #1118. Issued 1 January 2020 in a set of 4 of Nepalese Flora.

***Masdevallia tricallosa*** ORCHIDACEAE

Small epiphyte with ramicauls carrying erect, coriaceous elliptical leaves. Single flowered inflorescence. Flower, 5 cm, white or cream colored with 3 centrally located dark purple calluses at apex of the lip. Grows at 2000 m in northern Peru.

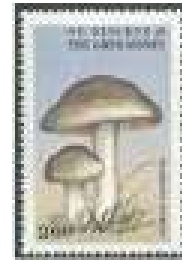
Surinam Scott #1645. Issued 2 March 2022 in a set of 6 souvenir sheets of orchids. Designed by Studio Labranda. Printed by offset in 4 colors by Oostenrijkse Statsdrukkerij on unwatermarked stamp paper with synthetic gum.



FUNGI

Editor

Paul A. Mistretta, BU 1681



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

New Issues

Scott #	Denom.	Common name/Scientific name	Family name	Code
ANTIGUA				
8 October 2021 (Mushrooms)				
			Set/5, SS/1	
3632a	\$2.50	Saffron milk cap, <i>Lactarius deliciosus</i>	Russulaceae	A
3632b	\$3.50	Chanterelle, <i>Cantharellus sp.</i>	Cantharellaceae	A
3632c	\$4.50	Penny bun, <i>Boletus edulis</i>	Boletaceae	A
3632d	\$4.50	Fly agaric, <i>Amanita muscaria</i> ☠	Amanitaceae	A
3632e	\$5.50	Honey fungus, <i>Armillaria mellea</i>	Physalacriaceae	A
3633	\$14.50	Yellow morel, <i>Morchella esculenta</i>	Morchellaceae	A
Issued as a MS of 5; 1 ea Sc#3632a-e plus mushrooms in selvedge				
DJIBOUTI				
20 December 2021 (Mushrooms)				
			MS/4 & SS	
2626	1000fr	MS/4; 1 ea Sc#2626a-d + 2 seals - see Sc#2644 [<i>C. laccata</i> & <i>S. luteus</i>]		
2626a	250fr	Goat's beard, changle, <i>Ramaria flava</i>	Gomphaceae	A
2626b	250fr	Saffron milk cap, <i>Lactarius deliciosus</i>	Russulaceae	A
2626c	250fr	Violet webcap, violet cort, <i>Cortinarius violaceus</i>	Cortinariaceae	A
2626d	250fr	Peppery milkcap, <i>Lactarius piperatus</i>	Russulaceae	A
2644	1000fr	SS; Sc#2644a + 3 unidentified mushrooms [<i>Stropharia sp.?</i>] [<i>Strophariaceae?</i>]		B
		Lurid bolete, <i>Suillellus luteus</i> – in selvedge	Boletaceae	B Z
2644a	1000fr	White saddle, elfin saddle, common helvel, <i>Helvella crispa</i>	Helvellaceae	B
		Waxy laccaria or the deceiver, <i>Clitocybe</i> (now <i>Laccaria</i>) <i>laccata</i>	Hydnangiaceae	B
20 December 2021 (Mushrooms)				
			SS	
2638	1000fr	Boy Scout with ax & lantern; 2 boletes? in basket – @ LR in selvedge		C G Z
GAMBIA				
31 December 2021 (Mushrooms)				
			MS	
4424	\$5	Rose footed tortoise sheet with purple <i>Mycena sp.</i> in selvedge	Mycenaceae	C Z
GERMANY				
3 February 2022 (Mushrooms)				
B1190	100c+45c	Rumplestiltskin, fire & 3 <i>Amanita muscaria?</i> as cartoon illustrations @ ML		C G
B1191a	346c+40c	Bklt pane/3; 1 ea Sc# B1189-B191		CG
The booklet cover of B191a reproduces the vignette from B1190 & has 2 of the mushroom cartoons				
GRENADA GRENADINES				
11 October 2021 (Mushrooms)				
			MS/12 & SS	
3063		Sheet of 12		
3063a	\$2	Penny bun, <i>Boletus edulis</i>	Boletaceae	A
3063b	\$2	Matsutake, <i>Tricholoma matsutaki</i>	Tricholomataceae	A
3063c	\$2	Death cap, <i>Amanita phalloides</i> ☠	Amanitaceae	A
3063d	\$2	Shaggy mane, <i>Coprinus comatus</i>	Coprinaceae	A
3063e	\$2	Horn of plenty, <i>Craterellus cornucopioides</i>	Cantharellaceae	A
3063f	\$2	King trumpet, <i>Pleurotus eryngii</i>	Pleurotaceae	A
3063g	\$2	Parasol mushroom, <i>Macrolepiota procera</i>	Agaricaceae	A
3063h	\$2	Honey fungus, <i>Armillaria mellea</i>	Physalacriaceae	A

GRENADA GRENADINES (continued)

3063i	\$2	Saffron milk cap, <i>Lactarius deliciosus</i>	Russulaceae	A
3063j	\$2	Wood blewit, <i>Clitocybe nuda</i>	Tricholomataceae	A
3063k	\$2	Slippery Jack, <i>Suillus luteus</i>	Suillaceae	A
3063l	\$2	Inky cap, <i>Coprinopsis atramentaria</i>	Psathyrellaceae	A
3064a	\$8	Fly agaric, <i>Amanita muscaria</i> ☠	Amanitaceae	A
3064b	\$8	Destroying angel, <i>Amanita sp.</i> ☠	Amanitaceae	A
3064	2 x \$8	SS of 2 as Sc#3064a-3064b		

NEW CALEDONIA**11 April 2022** (Mushrooms) Set/2

1284		Horiz. pair Sc#1284 a & b + central label		
1284a	(180fr)	White basket fungus, <i>Ileodyctyon [cibarium]</i>	Phallaceae	A
1284b	(180fr)	Orange fan, <i>Anthracocephalum archeri</i>	Omphalotaceae	A

Note the label in Sc#1284 has a different fungus which is unidentified, but appears to be Tiger's eye [*Coltricia perennis* - family Polyporaceae].

NEVIS**8 November 2021** (Mushrooms) MS/6 & SS

2036a	\$4.00	Shitake mushrooms, <i>Lentinula edodes</i>	Omphalotaceae	A
2036b	\$4.00	Black truffles, <i>Tuber melanosporum</i>	Tuberaceae	A
2036b	\$4.00	Enoki mushrooms, <i>Flammulina filiformis</i>	Physalacriaceae	A
2036d	\$4.00	Chanterelles, <i>Cantharellus sp.</i>	Cantharellaceae	A
2036e	\$4.00	Oyster mushrooms, <i>Pleurotus ostreatus</i>	Pleurotaceae	A
2036f	\$4.00	Saffron milk cap, <i>Lactarius deliciosus</i>	Russulaceae	A
2036	\$14.00	Caesar's mushrooms, <i>Amanita caesarea</i>	Amanitaceae	A

SURINAM**4 May 2022** (Mushrooms) Set/4

1648	\$364.00	1 ea Sc# 1148a-d as either a strip/4 or blk/4		
1648a	\$29.50	Chestnut bolete, <i>Gyroporus castaneus</i>	Gyroporaceae	A
1648b	\$39.00	Velvet bolete, variegated bolete, <i>Suillus variegatus</i>	Suillaceae	A
1648c	C [\$66.50]	Ink stain bolete, <i>Boletus pulverulentus</i> (Currently <i>Cyanoboletus</i> ...)	Boletaceae	A
1648d	\$229.00	Parasitic bolete, <i>Xerocomus parasiticus</i> (Currently <i>Pseudoboletus</i> ...)	Boletaceae	A

Note: Issued in MS/8 – 2 columns of 1 of each; left col. upright, right col. inverted.
Thus there are: 1 str/4; 2 diff. blks/4; 2 diff. tete beche prs; &, 3 diff. se-tenant pairs

**ANIMALS; DOGS & CATS; HORSES; INSECTS; BUGS BUTTERFLIES;
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Caveat Emptor (part 7)

1996 - 1997

Paul A. Mistretta, BU#1681

Continuing the listing of illegals, this installment will deal with the years 1996 and 1997. Virtually all of the items presented below are “locals” issued in the names of various Russian “Autonomous Republics”.

1996



Figure 1

Adigey- IM/10d; <M> all 750. (Fig. 1)



Figure 2

Afghanistan - 6 SF <M>; 100afs, 300afs, 400afs, 500 afs, 600 afs & 800 afs & 1SS; 4000afs [former Sc# 1384-1390 now a footnote] (Fig.2)



Figure 3

Buriatia - 2MS/6d <M>; 100,-, 250,-, 500,-, 1000,-, 1500,- & 2000,-, & 100,-, 200,-, 500,-, 750,-, 1500,- & 2000,-. (Fig. 3)

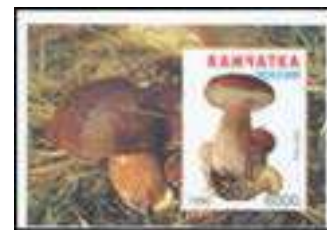


Figure 4

Kamchatka - 3SS&3IS; 6000r ea. <M> (Fig. 4)



Figure 5

Kamchatka - SS <M> w/ Ag op “THEMAFRANE V // Vesoul 19-21 September”; 6000r (Fig.5)



Figure 6

Karelia - MS/6d <M>; 100r, 200r, 500r, 1000r, 1500r & 2000r (Fig. 6)



Figure 7

Karelia - MS/6d <M>; 100r, 200r, 500r, 1000r, 1500r & 2000r (Fig. 7)



Figure 8

Karelia - MS/6d <M>; 100r, 500r, 700r, 1050r, 1550r & 2050r (Fig. 8)



Figure 9

Komi - MS/6d <M>; 850r, 1000r, 1250r, 1500r, 2500r & 3000r (Fig. 9)



Figure 10

Mordovia - MS/6d <M>; 100r, 200r, 500r, 1000r, 1500r & 2000r (r shown as “*”) (Fig. 10)



Figure 11

Mordovia - MS/6d <M>; 150r, 500r, 750r, 1300r, 1750r & 2000r (Fig. 11)



Figure 12

Mordovia - MS/6d <M>; 100,-, 200,-, 500,-, 750,-, 1500,- & 2050,- (Fig. 12)



Figure 13

Mordovia- ST/6d <M>; 100r, 200r, 500r, 100r, 1500r & 2000r (Fig.13)



Figure 14

Mordovia - MS/6d <M>; 100,-, 200,-, 500,-, 1000,-, 1500,- & 2000,- (Fig. 15)



Figure 15

Sacha-Yakutia - MS/6d <M>; 850r, 1000r, 1250r, 1500r, 2500r & 3000r (Fig. 16)



Figure 16

South Ossetia (Hussar Irystan Republic) - Blk 4/d <M>; 600r ea.; & MS/16 as 4xblks/4d; [& 8DS <M> reported but not seen] (Fig. 17)



Figure 17

South Ossetia (Hussar Irystan Republic) - Blk 4/d <M>; 1500r ea.; & MS/16 as 4xblks/4d; [& 8DS <M> reported but not seen] (Fig. 18)



Figure 18



Figure 19

Touva - SH=MS/3d <M>; 600r, 900r & 1200r (Fig. 18)

Udmurtia – per American Topical Assn.[Topical Times] – MS/6d <M>; 500r ea. [nothing more; can't confirm] (Fig. 20)

Zaire - SH=MS/4d <M>; 35,000nz ea.; ATA also lists as IS [not seen] (Fig. 19)

1997



Figure 20



Figure 21



Figure 22



Figure 23



Figure 24

Abkhazia - MS/6d & IM/6d <M>; 450r, 900r, 1200r, 1800r, 2400r & 2800r (Fig. 20)

Abkhazia – 6 SF & MS/1of4d o/p “SPECIMEN” <M>; 450r, 900r, 1200r, 1800r, 2400r & 2800r (Fig. 20 with o/p)

Amurskaya - MS/6d & IM/6d <M>; 850r, 1000r, 1250r, 1500r, 2500r & 3000r (Fig. 21)

Batum (Georgia) - MS/4d & SS <M>; 250r, 450r, 900r & 1200r (unoverprinted version of Fig.22)

Batum (Georgia) - MS/4d & SS <M>; Rd o/ps - Rotary symbol & “90th Anniversary of Scouting” on stamps + “Pacific ‘97” & Scouting logos in selvedge; 250r, 450r, 900r & 1200r (Fig. 22)

Batum (Georgia) - MS/4d & SS <M>; Bk o/ps as in Fig.22

Buriatia - MS/6d <M>; 200r 400r, 800r, 1200r, 1700r & 2400r (Fig. 23)

Buriatia - MS/6d <M>; 150r, 350r, 550r, 720r, 1250r & 1800r (Fig. 24)



Figure 25



Figure 26



Figure 27



Figure 28

Buriatia - 6MS/6d <M>; all 6 – 400r, 700r, 1200r, 1500r, 2400r & 3600r (Fig. 25) & 2MS/12d <M>; both 250r, 420r, 500r, 750r, 940r, 1200r, 1400r, 1700r, 2500r, 2900r, 3100r & 3400r (Fig. 26)

Chechnya - SH/9d <M>; 500r, 700r, 1200r, 1500r, 1700r, 2200r, 2500r, 2800r & 3200r (Fig. 27)

Ingushetia - MS/6d; 850r, 1000r, 1250r, 1500r, 2500r & 3000r <M>



Figure 29



Figure 30



Figure 31

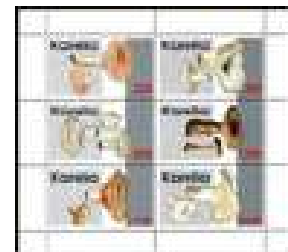


Figure 32

Kalmykia - MS/6d <M>; 250,-, 950,-, 1300,-, 3000,-, 4000,- & 5000,- (Fig. 29)

Karelia - MS/6d <M>; 950,-, 1300,-, 2500,-, 3000,-, 4000,- & 500,- (Fig. 30)

Karelia - MS/6d <M>; 850r, 1000r, 1250r, 1500r, 2500r & 3000r (Fig. 31)

Karelia - MS/6d <M>; 200r, 400r, 800r, 1200r, 1700r & 2400r (Fig.32)



Figure 33



Figure 34



Figure 35



Figure 36

Karelia - MS/6d <M>; 250,-, 450,-, 650,-, 1700,-, 2800,- & 3600,- (Fig.33)

Karelia - MS/6d <M>; 200r, 500r, 850r, 950r, 1800r & 2200r (Fig.34)

Komi - MS/6d <M>; 1250r, 1500r, 2500r & 3000r (Fig.35)

Mordovia - MS/6d <M>300,-, 700,-, 900,-, 1100,-, 140,- & 1500,- (Fig.36)



Figure 37



Figure 38



Figure 39



Figure 40

Mordovia - MS/12d <M>; 250,-, 420,-, 500,-, 750,-, 940,-, 1200,-, 1400,-, 1700,-, 2500,-, 2900,-, 3000,- & 3400,- (Fig. 37)

Naxcivan – 2 x ST/5d <M>; both 100m, 200m, 300m, 500m & 1000m (poor image from B&W “catalog”; Fig. 38)

Sacha-Yakutia - MI/6d <M>; 850r, 1000r, 1250r, 1500r, 2500r & 3000r (Fig. 39)

Sahara – 6 SF & SS <M>; 28p, 29p, 40p, 68p, 105p, 136p & 200p(Fig. 40)



Figure 41



Figure 42



Figure 43



Figure 44

Sakhalin Island - MI/8d <M>; all 2,00? (Fig. 41)

Sakhalin Island - MI/6d <M>; 850?, 1000?, 1250, 1500?, 2500? & 3000? (Fig. 42)

South Ossetia (Hussar Irystan Republic) – 2 SH=IF <E>;/; 2500r [Silver] & 5000 [Gold] (Fig. 43)

Tatarstan - MI/6d <M>; 950,-, 1300,-, 2500,-, 3000,-, 4000,- & 5000,- (Fig. 44)



Figure 45

Tatarstan - MS/1 of 4d <D>; 2000r (Fig. 45)



MAMMALIA

Editor
Michael Prince, LM 68



New Issues

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AITUTAKI				
			Set/5	
731	50c	Asiatic Elephant, <i>Elephas maximus</i>	Elephantidae	
732	\$1	Same species	Elephantidae	
733	\$2	Same species	Elephantidae	
734	\$4.50	Same species	Elephantidae	
735	\$10	Same species	Elephantidae	
ALBANIA				
			2022 March 30 (Endangered Animals)	Set/2
3053	150l	Brown Bear, <i>Ursus arctos</i>	Ursidae	
		Fallow Dear, <i>Dama dama</i>	Cervidae	
		European Hare, <i>Lepus europaeus</i>	Leporidae	
		Wild Boar, <i>Sus scrofa</i>	Suidae	
3054	250l	Brown Bear, <i>Ursus arctos</i>	Ursidae	
		Fallow Dear, <i>Dama dama</i>	Cervidae	
		European Hare, <i>Lepus europaeus</i>	Leporidae	
		Wild Boar, <i>Sus scrofa</i>	Suidae	
		On border: Possibly European Bison, <i>Bison bonasus</i>	Bovidae	
3054a	Booklet pane of 2			
ANTIGUA				
			2021 April 28 (Rabbits)	Set/4, SS/1
3615a	\$5.50	Netherland Dwarf Rabbit, <i>Oryctolagus cuniculus</i>	Leporidae	
3615b	\$5.50	Omiltene Cottontail, <i>Sylvilagus insonus</i>	Leporidae	NEW
3615c	\$5.50	Desert Cottontail, <i>Sylvilagus audubonii</i>	Leporidae	
3615d	\$5.50	Satin Rabbit, <i>Oryctolagus cuniculus</i>	Leporidae	
3616	\$14	Fee de Marbourg Rabbit, <i>Oryctolagus cuniculus</i>	Leporidae	
ARMENIA				
			2021 December 24 (Fauna and Flora)	Set/4
1293	230d	Long-eared Hedgehog, <i>Hemiechinus auritus</i>	Erinaceidae	
1296a	Sheet of 8			
BOSNIA & HERZEGOVINA – (Coat Admin.)				
			2021 November 1 (Mustelids)	Set/4
440	Block of 4			
440a	2m70	Beech Marten, <i>Martes foina</i>	Mustelidae	
440b	2m70	European Pine Marten, <i>Martes martes</i>	Mustelidae	
440c	2m70	Least Weasel, <i>Mustela nivalis</i>	Mustelidae	
440d	2m70	European Polecat, <i>Mustela putorius</i>	Mustelidae	
CHINA (TAIWAN)				
			2022 April 13 (Leopard Cats)	Set/2
4640	\$8	Leopard Cat, <i>Prionailurus bengalensis</i>	Felidae	
4641	\$28	Same species	Felidae	
COOK ISLANDS				
			2021 May 5 (American Bison)	Set/4, SS/1
1725	50c	American Bison, <i>Bison bison</i>	Bovidae	
1726	\$1	Same species	Bovidae	
1727	\$1.30	Same species	Bovidae	

COOK ISLANDS (continued)

1728 \$5 American Bison, *Bison bison*
 1729 \$10 Same species

Bovidae
 Bovidae

2022 May 5 (Items in Smithsonian Institution Collections)

1732c 10c Asiatic Elephant, *Elephas maximus*

Elephantidae

COSTA RICA

2021 December 8 (Sloths)

730 995col Hoffmann's Two-toed Sloth, *Choloepus hoffmanni*
 Brown-throated Three-toed Sloth, *Bradypus variegatus*

Single
 Megalonychidae
 Bradypodidae

DJIBOUTI

2021 November 1 (Fauna of Djibouti) Set/6, SS/1

2572a 250fr Aardvark, *Orycteropus afer*
 2572b 250fr Hamadryas Baboon, *Papio hamadryas*
 2572c 250fr Orca (Killer Whale), *Orcinus orca*
 2572e 250fr Lesser Horseshoe Bat, *Rhinolophus hipposideros*
 2572f 250fr Dorcas Gazelle, *Gazella dorcas*
 2581 1000fr African Leopard, *Panthera pardus pardus*

Orycteropodidae
 Cercopithecidae
 Delphinidae
 Rhinolophidae
 Bovidae
 Felidae

2021 November 1 (Marine Diversity) Set/6, SS/1

2573a 250fr Orca (Killer Whale), *Orcinus orca*
 2582 1000fr Dugong, *Dugong dugon*

Delphinidae
 Dugongidae

2021 November 1 (Indian Trains) Set/3, SS/1

2593b 330fr Bengal Tiger, *Panthera tigris tigris*
 2593c 330fr Snow Leopard, *Panthera uncia*

Felidae
 Felidae

2021 December 20 (African Mammals) Set/4, SS/1

2624a 250fr Leopard, *Panthera pardus*
 2624b 250fr Mountain Zebra, *Equus zebra*
 2624c 250fr Giraffe, *Giraffa camelopardalis*
 2624d 250fr African Lion, *Panthera leo leo*
 2642 1000fr African Elephants, *Loxodonta africana*

Felidae
 Equidae
 Giraffidae
 Felidae
 Elephantidae

ESTONIA

2021 October 15 (Christmas) Set/2

962 €1.90 Red Squirrel, *Sciurus vulgaris*

Sciuridae

2021 October 19 (Wolf) Single

964 90c Grey Wolf, *Canis lupus*

Canidae

FRENCH POLYNESIA

2022 February 1 (New Year 2022 – Year of the Tiger)

Single

1279 140fr Tiger, *Panthera tigris*

Felidae

GERMANY

2022 April 7 (Young Mammals) Set/2

3288 85c European Badger, *Meles meles*
 3289 85c Eurasian Lynx, *Lynx lynx*

Mustelidae
 Felidae

MOROCCO

2022 January 14 (Rabat Zoo, 10y) Single

1314 3.75d Lion, *Panthera leo*

Felidae

SURINAM

2020 November 18 (Primates) Set/6

1604 Horiz strip of 6
 1604a \$3 Mona Monkey, *Cercopithecus mona*
 1604b \$8 Indri, *Indri indri*
 1604c \$14 Slender Loris, *Loris tardigradus*
 1604d \$15 Celebes Crested Macaque, *Macaca nigra*
 1604e \$25 Potto, *Perodicticus potto*
 1604f \$30 Black and White Ruffed Lemur, *Varecia variegata*

Cercopithecidae
 Indridae
 Lorisidae
 Cercopithecidae
 Lorisidae
 Lemuridae

SYRIA**2020** (Syrian Hamster) Set/2

1832	Vert pair	
1832a	£250 Golden Hamster, <i>Mesocricetus auratus</i>	Muridae
1832b	£250 Same species	Muridae

UNITED STATES**2022 August 5** (National Marine Sanctuaries) Set/16

5713	Sheet of 16	
5713c 60c	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae
5713h 60c	Hawaiian Monk Seal, <i>Monachus schauinslandi</i>	Phocidae
	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae
5713j 60c	Sea Otter, <i>Enhydra lutris</i>	Mustelidae
5713m 60c	Steller Sea Lion, <i>Eumetopias jubatus</i>	Otariidae
5713t 60c	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae
5713y 60c	Hawaiian Monk Seal, <i>Monachus schauinslandi</i>	Phocidae
	Humpback Whale, <i>Megaptera novaeangliae</i>	Balaenopteridae
5713aa 60c	Sea Otter, <i>Enhydra lutris</i>	Mustelidae
5713ad 60c	Steller Sea Lion, <i>Eumetopias jubatus</i>	Otariidae

ZAMBIA**2022** (#1110, #1096, #1114 Surcharged)

1228	3.50k on 3300k on 2250k	Spotted Hyena, <i>Crocuta crocuta</i>	Hyaenidae
1229	3.80k on 3300k	Side-striped Jackal, <i>Canis adustus</i>	Canidae
1230	5k on 4950k on 2700k	Aardwolf, <i>Proteles cristata</i>	Hyaenidae

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



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ORNITHOLOGY

Editor

Glenn G. Mertz, BU 1455



New Issues

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ALBANIA				
			2022 March 30 (Endangered Animals)	Single A*
3053	150L	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae	
			2022 April 14 (Egyptian Vulture)	Set/2 A*
3062a	50L	Egyptian Vulture, <i>Neophron percnopterus</i> (Two of them)	Accipitridae	
3062b	250L	Same species, different from 3062a	Accipitridae	
ANTIGUA & BARBUDA				
			2021 October 8 (Hummingbirds)	Set/5, SS/1 A*
3628a	\$3.50	Rufous Hummingbirds, <i>Selasphorus rufus</i> (♀)	Trochilidae	
3628b	\$4.00	Glittering-throated Emerald, <i>Chionomesa fimbriata</i>	Trochilidae	
3628c	\$4.50	Rufous Hummingbird, <i>Selasphorus rufus</i> (♂)	Trochilidae	
3628d	\$5.00	Sparkling Violetear, <i>Colibri coruscans</i>	Trochilidae	
3628e	\$5.50	Chestnut-breasted Coronet, <i>Boissonneaua matthewsii</i>	Trochilidae	
3629	\$14.00	SS Collared Inca, <i>Coeligena torquata</i>	Trochilidae	
ARUBA				
			2022 April 29 (Flamingos)	Set/4 A*
681	220c	American Flamingo, <i>Phoenicopterus ruber</i> (Facing forward)	Phoenicopteridae	
682	320c	Same species, head and wing extended, facing left		
683	420c	Same species, in flight, facing left		
684	500c	Same species, seven flamingos, in water facing right.		
AUSTRALIA				
			2022 May 12 (WW1 era postcards)	Set/3 A*
5460	\$1.10	Laughing Kookaburra, <i>Dacelo novaeguineae</i> (Facing right)	Alcedinidae	
5461	\$1.10	Same species, facing left	Alcedinidae	
5462	\$1.10	Same species, facing up	Alcedinidae	
5462a	SS of 3, #5460-5562			
5463	Same as 5460, SA booklet, die cut 11¼			
5464	Same as 5461, SA booklet, die cut 11¼			
5465	Same as 5462, SA booklet, die cut 11¼			
5465a	Booklet pane of 20, 7 each of #5463-5464, 6 each of #5465			
			2022 June 7 (Megapodiidae family)	Set/3 A*
5469	\$1.10	Malleefowl, <i>Leipoa ocellata</i>	Megapodiidae	
5472	\$1.10	Same species, SA booklet		
5470	\$1.10	Australian Brushturkey, <i>Alectura lathami</i>	Megapodiidae	
5473	\$1.10	Same species, SA booklet		
5471	\$1.10	Orange-footed Scrubfowl, <i>Megapodius reinwardti</i>	Megapodiidae	
5471a	SS of 3, #5469-5471			
5474a	Booklet pane of 10, #5472-5474			

AUSTRALIAN ANTARCTIC TERRITORY			2022 March 22 (Penguins) Set/4	A*
L246	\$1.10	Emperor Penguin, <i>Aptenodytes forsteri</i> (head only)	Spheniscidae	
L247	\$1.10	Same species, adults and juveniles		
L248	\$2.20	Adelie Penguin, <i>Pygoscelis adeliae</i> (head only)	Spheniscidae	
L249	\$2.20	Same species, four adults		
L249a	SS of 4, se-tenant of #L246-249, entitled Australian Antarctic Territory Penguins			
BELGIUM			2022 January 24 (Bird Protection Organization) Set/2	A*
2970	(€1.16)	Little Owl, <i>Athene noctua</i>	Strigidae	
2970a	Horiz pair			
BULGARIA			2021 December 30 (Game Birds) Set/4	A*
5003	1.00L	Gray Partridge, <i>Perdix perdix</i>	Phasianidae	
504	1.00L	Common Quail, <i>Coturnix coturnix</i>	Phasianidae	
5005	1.00L	Common Wood-Pigeon, <i>Columba palumbus</i>	Columbidae	
5006	1.50L	Mallard, <i>Anas platyrhynchos</i>	Anatidae	
CAMBODIA			2020 December 15 (Birds of Cambodia) Set/5, SS/1	A*
2537	500k	Sri Lanka Green-Pigeon, <i>Treron pompadora</i>	Columbidae	
2538	800k	Demoiselle Crane, <i>Anthropoides virgo</i>	Gruidae	
2539	2000k	Cambodian Tailorbird, <i>Orthotomus chaktomuk</i>	Cisticolidae V70(1)	
2540	3000k	Spotted Owllet, <i>Athene brama</i>	Strigidae	
2541	4000k	Tufted Duck, <i>Aythya fuligula</i>	Anatidae	
2542	6000k	SS Black-faced Spoonbill, <i>Platalea minor</i>	Threskiornithidae	
CENTRAL AFRICAN REPUBLIC			2022 February 25 (Aquatic Birds) Set/4, SS/1	A*
N/A	1,000fr	Little Grebe, <i>Tachybaptus ruficollis</i>	Podicipedidae	
N/A	1,000fr	Little Gull, <i>Hydrocoloeus minutus</i>	Laridae	
N/A	1,000fr	Whiskered Tern, <i>Chlidonias hybrida</i>	Laridae	
N/A	1,000fr	Eared Grebe, <i>Podiceps nigricollis</i>	Podicipedidae	
N/A	3,600fr	SS Great Crested Grebe, <i>Podiceps cristatus</i>	Podicipedidae	
		In margin: Wilson's Storm-Petrel, <i>Oceanites oceanicus</i> (UR)	Oceanitidae	
		Common Loon, <i>Gavia immer</i> (RS)	Gaviidae	
			2022 February 25 (Kingfishers) Set/4, SS/1	A*
N/A	1,000fr	White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae	
N/A	1,000fr	Green Kingfisher, <i>Chloroceryle americana</i>	Alcedinidae	
N/A	1,000fr	Mariana Kingfisher, <i>Todiramphus albicilla</i>	Alcedinidae	
N/A	1,000fr	Laughing Kookaburra, <i>Dacelo novaeguineae</i>	Alcedinidae	
N/A	3,600fr	SS Small Blue Kingfisher, <i>Alcedo coerulescens</i>	Alcedinidae	
		In margin: Yellow-billed Kingfisher, <i>Syma torotoro</i> (LL)	Alcedinidae	
		Gray-headed Kingfisher, <i>Halcyon leucocephala</i>	Alcedinidae	
		(Stamp has species of <i>erythrogaster</i>)		
			2022 February 25 (Bee-eaters) Set/4, SS/1	A*
N/A	1,000fr	Red-throated Bee-eater, <i>Merops bulocki</i>	Meropidae	
N/A	1,000fr	White-fronted Bee-eater, <i>Merops bullockoides</i>	Meropidae	
N/A	1,000fr	Red-bearded Bee-eater, <i>Nyctyornis amictus</i>	Meropidae	
N/A	1,000fr	Green Bee-eater, <i>Merops orientalis</i>	Meropidae	
N/A	3,600fr	SS European Bee-eater, <i>Merops apiaster</i>	Meropidae	
		In margin: Red-throated Bee-eater, <i>Merops bulocki</i> (RS)	Meropidae	
		Blue-cheeked Bee-eater, <i>Merops persicus</i> (LL)	Meropidae	
			2022 April 20 (Extinct Birds) Set/4, SS/1	A*
N/A	1,000fr	†Giant Teratorn, <i>Argentavis magnificens</i>	†Teratornithidae	

CENTRAL AFRICAN REPUBLIC (continued)

N/A	1,000fr	†Oseodontornis, <i>Oseodontornis orri</i> (An extinct seabird)	†Pelagornithidae V71(4)	
N/A	1,000fr	†Phorusrhacos, <i>Phorusrhacos longissimus</i>	†Phorushacidae	
N/A	1,000fr	†Palaelodus, <i>Palaelodus ambiguus</i> (This species is distantly related to flamingos)	†Palaeodidae V71(4)	
N/A	3,600fr	SS †Giant Gastornis, <i>Gastornis gigantea</i> (Also in margin: at bottom)	†Gastornithidae V71(4)	
		In margin: †North Island Giant Moa, <i>Dinornis novaezealandiae</i> 2022 April 20 (Raptors)	†Dinornithidae Set/4, SS/1	A*
N/A	1,000fr	Imperial Eagle, <i>Aquila heliaca</i>	Accipitridae	
N/A	1,000fr	Booted Eagle, <i>Hieraaetus pennatus</i>	Accipitridae	
N/A	1,000fr	Short-toed Snake-Eagle, <i>Circaetus gallicus</i>	Accipitridae	
N/A	1,000fr	Shikra, <i>Accipiter badius</i>	Accipitridae	
N/A	3,600fr	SS Imperial Eagle, <i>Aquila heliaca</i>	Accipitridae	
		In margin: Spanish Eagle, <i>Aquila adalberti</i> 2022 April 20 (Geese)	Accipitridae Set/4, SS/1	A*
N/A	1,000fr	Greater White-fronted Goose, <i>Anser albifrons</i>	Anatidae	
N/A	1,000fr	Pink-footed Goose, <i>Anser brachyrhynchus</i>	Anatidae	
N/A	1,000fr	Cackling Goose, <i>Branta hutchinsii</i>	Anatidae	
N/A	1,000fr	Bar-headed Goose, <i>Anser indicus</i>	Anatidae	
N/A	3,600fr	SS Taiga Bean-Goose, <i>Anser fabalis</i>	Anatidae	
		In margin: Brant, <i>Branta bernicla</i> (UR) Red-breasted Goose, <i>Branta ruficollis</i> (LR) Barnacle Goose, <i>Branta leucopsis</i> (LL)	Anatidae Anatidae Anatidae	
CHINA (TAIWAN)		2022 February 16 (Endangered Birds)	Set/4	A*
4685	\$8.00	Gray-faced Buzzard, <i>Butastur indicus</i>	Accipitridae	
4686	\$10.00	Chinese Sparrowhawk, <i>Accipiter soloensis</i>	Accipitridae	
4687	\$12.00	Oriental Honey-buzzard, <i>Pernis ptilorhynchus</i>	Accipitridae	
4688	\$15.00	Crested Serpent-Eagle, <i>Spilornis cheela</i>	Accipitridae	
COLOMBIA		2021 September 23 (Coffee Culture Landscape World Heritage Site)	Set/12	A*
1579		Sheet of 12		
1579f	2,000p	Amazonian Motmot, <i>Momotus momota</i>	Momotidae	
		2021 November 22 (Region del Golfo de Morrosquilla)	Set/9	A*
1587		Sheet of 9		
1587e	2,000p	Magnificent Frigatebird, <i>Fregata magnificens</i>	Fregatidae	
		2022 March 17 (2022 Risaralda Bird Festival)	Set/12	A*
1598		Sheet of 12		
1598a	5,000p	Scarlet-bellied Mountain-Tanager, <i>Anisognathus igniventris</i>	Thraupidae	
1598b	5,000p	Blue-naped Chlorophonia, <i>Chlorophonia cyanea</i>	Fringillidae	
1598c	5,000p	Black-headed Hemispingus, <i>Pseudospingus verticalis</i>	Thraupidae	
1598d	5,000p	Golden-crowned Tanager, <i>Iridosornis rufivertex</i>	Thraupidae V71(4)	
1598e	5,000p	Rufus-throated Tanager, <i>Ixothraupis rufigula</i>	Thraupidae V71(4)	
1598f	5,000p	Saffron-crowned Tanager, <i>Tangara xanthocephala</i>	Thraupidae V71(4)	
1598g	5,000p	Golden Tanager, <i>Tangara arthus</i>	Thraupidae	
1598h	5,000p	Lacrimose Mountain-Tanager, <i>Anisognathus lacrymosus</i>	Thraupidae V71(4)	
1598i	5,000p	Hooded Mountain-Tanager, <i>Buthraupis montana</i>	Thraupidae V71(4)	
1598j	5,000p	Red-headed Barbet, <i>Eubucco bourcierii</i>	Capitonidae	
1598k	5,000p	Black-billed Mountain-Toucan, <i>Andigena nigrirostris</i>	Ramphastidae	
1598l	5,000p	Blue-winged Mountain-Tanager, <i>Anisognathus somptuosus</i>	Thraupidae V71(4)	

DJIBOUTI		2021 November 1 (Birds of Djibouti)	Set/6, SS/1	A*
2569a	250fr	Eastern Chanting-Goshawk, <i>Melierax poliopterus</i>	Accipitridae	
2569b	250fr	Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	
2569c	250fr	Masked Booby, <i>Sula dactylatra</i>	Sulidae	
2569d	250fr	White-browed Coucal, <i>Centropus superciliosus</i>	Cuculidae	
2569e	250fr	Short-toed Snake-Eagle, <i>Circaetus gallicus</i>	Accipitridae	
2569f	250fr	Black-winged Stilt, <i>Himantopus himantopus</i>	Recurvirostridae	
2578	1,000fr	SS Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae	
		In margin: Same species, (LL)	Accipitridae	
		Bonelli's Eagle, <i>Aquila fasciata</i>	Accipitridae	
		2021 November 1 (Fauna of Djibouti)	Set/6	A*
2572d	250fr	Steppe Buzzard, <i>Buteo buteo vulpinus</i> (ssp)	Accipitridae V71(4)	
		2021 December 20 (Russian Lighthouses)	Set/4, SS/1	A*
2619a	250fr	Laysan Albatross, <i>Phoebastria immutabilis</i>	Diomedeidae	
2619d	250fr	Red-legged Kittiwake, <i>Rissa brevirostris</i>	Laridae V71(4)	
2637	1,000fr	SS Steller's Sea-Eagle, <i>Haliaeetus pelagicus</i>	Accipitridae	
		(Also shown on label of sheet of four)		
		In margin: Thick-billed Murre, <i>Uria lomvia</i>	Alcidae	
		(Also shown on label of sheet of four)		
		2021 December 20 (Hornbills)	Set/4, SS/1	A*
2621a	250fr	Helmeted Hornbill, <i>Buceros vigil</i>	Bucerotidae	
		(Stamp has genus of <i>Rhinoplax</i>)		
2621b	250fr	Rhinoceros hornbill, <i>Buceros rhinoceros</i>	Bucerotidae	
2621c	250fr	Oriental Pied-Hornbill, <i>Anthracoceros albirostris</i>	Bucerotidae	
2621d	250fr	Bushy-crested Hornbill, <i>Anorrhinus galeritus</i>	Bucerotidae	
2639	1,000fr	SS Wreathed Hornbill, <i>Rhyticeros undulatus</i>	Bucerotidae	
		In margin: Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae	
		(The lower label has this species also)		
ESTONIA		2021 October 15 (Christmas)	Set/2	A*
961	€0.90	Eurasian Bullfinch, <i>Pyrrhula pyrrhula</i>	Fringillidae	
		2022 March 31 (Bird of the Year.)	Single	A*
975	€0.90	Eurasian Woodcock, <i>Scolopax rusticola</i>	Scolopacidae	
FALKLAND ISLANDS		2022 June 14 (Liberation Falkland Islands, 40y)		B*
1329	£1.07	Magellanic Penguin, <i>Spheniscus magellanicus</i>	Spheniscidae	
FRANCE		2020 Nov 4 (Type of Sc#1947-2014, denominations in Euro)	Set/4	A*
5933d	4,00€	Herring Gull, <i>Larus argentatus</i>	Laridae	
GUINEA		2022 Jan 25 (Extinct Birds)	Set/4, SS/1	A*
N/A	16,500fr	† Dodo, <i>Raphus cucullatus</i>	Columbidae	
N/A	16,500fr	† Passenger Pigeon, <i>Ectopistes migratorius</i>	Columbidae	
N/A	16,500fr	† Gastornis, <i>Gastornis parisiensis</i>	†Gastornithidae V71(2)	
N/A	16,500fr	† Great Auk, <i>Pinguinus impennis</i>	Alcidae	
N/A	60,000fr	SS † Copepteryx, <i>Copepteryx hexeris</i>	†Protopteridae V71(2)	
		In margin: † Sinornis, <i>Sinornis santensis</i> (UL)	†Enantionithidae V71(2)	
		† Pelagornis, <i>Palegornis mauritanicus</i> (RS)	†Pelagornithidae	
		2022 January 25 (Bee-eaters)	Set/4, SS/1	A*
N/A	16,500fr	European Bee-eater, <i>Merops apiaster</i> , (facing right)	Meropidae	
N/A	16,500fr	Same species, facing left	Meropidae	
N/A	16,500fr	Bluc-cheeked Bee-eater, <i>Merops persicus</i>	Meropidae	

GUINEA (continued)

N/A	16,500fr	Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae		
N/A	60,000fr	SS Blue-breasted Bee-eater, <i>Merops variegatus</i>	Meropidae		
		In margin: European Bee-eater, <i>Merops apiaster</i> (UP-CTR)	Meropidae		
		Green Bee-eater, <i>Merops orientalis</i> (UR)	Meropidae		
		2022 January 25 (Perroquets)		Set/4, SS/1	A*
N/A	16,500fr	Scaly-breasted Lorikeet, <i>Trichoglossus chlorolepidotus</i>	Psittaculidae		
N/A	16,500fr	Adelaide Rosella, <i>Platycercus adelaidae</i>	Psittaculidae		
		(Now a ssp of Crimson Rosella, <i>Platycercus elegans</i>)	Psittaculidae		
N/A	16,500fr	Australian Ringneck, <i>Barnardius zonarius</i>	Psittaculidae		
		(Previously name Port Lincoln Parrot)			
N/A	16,500fr	Superb Parrot, <i>Polytelis swainsonii</i>	Psittaculidae		
N/A	60,000fr	SS Gang-gang Cockatoo, <i>Callocephalon fimbriatum</i>	Cacatuidae		
		In margin: Yellow-tailed Black Cockatoo, <i>Calyptorhynchus funereus</i>	Cacatuidae		
		2022 January 25 (Aquatic Birds)		Set/4, SS/1	A*
N/A	16,500fr	Mandarin Duck, <i>Aix galericulata</i>	Anatidae		
N/A	16,500fr	Brant, <i>Branta bernicla</i>	Anatidae		
N/A	16,500fr	European Moorhen, <i>Gallinula chloropus</i>	Rallidae		
N/A	16,500fr	Eurasian Coot, <i>Fulica atra</i>	Rallidae		
N/A	60,000fr	SS Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae		
		In margin: Great Crested Grebe, <i>Podiceps cristatus</i> (UR)	Podicipedidae		
		European Storm-Petrel, <i>Hydrobates pelagicus</i> (UR)	Hydrobatidae		
		Common Loon, <i>Gavia immer</i> (rs)	Gaviidae		
IRAQ		2021 December 20 (Centennial of the Iragi State)		Single, SS/1	C*
2131	1500d	White-eared Bulbul, <i>Pycnonotus leucotis</i>	Pycnonotidae		
		House Sparrow, <i>Passer domesticus</i>	Passeridae		
		Mallard, <i>Anas platyrhynchos</i>	Anatidae		
2132	5,000d	SS Has the same birds as the stamp.			
KOREA, SOUTH		2021 October 29 (Definitives)		Set/8	A*
2601	100w	Japanese Paradise Flycatcher, <i>Terpsiphone atrocaudata</i>	Monarchidae		
LIBERIA		2022 January 15 (Owls)		Set/4, 2xSS/1	A*
N/A	\$250.00	Short-eared Owl, <i>Asio flammeus</i>	Strigidae		
N/A	\$250.00	Eastern Screech-Owl, <i>Megascops asio</i>	Strigidae		
N/A	\$250.00	Great Gray Owl, <i>Strix nebulosa</i>	Strigidae		
N/A	\$250.00	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae		
		(Stamp has genus of <i>Strix</i>)			
N/A	\$850.00	SS Great Horned Owl, <i>Bubo virginianus</i>	Strigidae		
		In margin: Snowy Owl, <i>Bubo scandiacus</i>	Strigidae		
N/A	\$850.00	SS Barred Owl, <i>Strix varia</i>	Strigidae		
		In margin: Barn Owl, <i>Tyto alba</i>	Tytonidae		
		2022 January 15 (Birds of Prey)		Set/4, 2xSS/1	A*
N/A	\$250.00	Laggar Falcon, <i>Falco jugger</i>	Falconidae	V71(4)	
N/A	\$250.00	Roadside Hawk, <i>Rupornis magnirostris</i>	Accipitridae		
		(Stamp has genus of <i>Buteo</i>)			
N/A	\$250.00	Southern Roadside Hawk, <i>Rupornis magnirostris pucherani</i> (ssp)	Accipitridae	V71(4)	
N/A	\$250.00	Saker Falcon, <i>Falco cherrug</i>	Falconidae		
N/A	\$850.00	Rufous-thighed Hawk, <i>Accipiter striatus erythronemius</i>	Accipitridae		
		(ssp now of Sharp-shinned Hawk)			
		In margin: Whistling Kite, <i>Haliastur sphenurus</i> (LL)	Accipitridae		

LIBERIA (continued)

		Gray Hawk, <i>Buteo plagiatus</i> (UR & CTR)	Accipitridae	
N/A	\$850.00	Sbaheen Falcon, <i>Falco peregrinus peregrinator</i> (ssp)	Falconidae	
		In margin: Black-shouldered Kite, <i>Elanus axillaris</i> (LL)	Accipitridae	
		Roadside Hawk, <i>Rupornis magnirostris</i> (UR & CTR)	Accipitridae	
		2022 June 22 (Kingfishers)	Set/4, 2xSS/1	A*
N/A	\$250.00	Yellow-billed Kingfisher, <i>Syma torotoro flavirostris</i> (ssp)	Alcedinidae (Head only)	
N/A	\$250.00	Crested Kingfisher, <i>Megaceryle maxima</i>	Alcedinidae (Head only)	
N/A	\$250.00	Hook-billed Kingfisher, <i>Melidora macrorrhina</i>	Alcedinidae V71(4)	
N/A	\$250.00	Lilac-cheeked Kingfisher, <i>Cittura cyanotis</i>	Alcedinidae	
N/A	\$800.00 SS	Great-billed Kingfisher, <i>Pelargopsis melanorhyncha</i>	Alcedinidae	
		In margin: Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
N/A	\$800.00 SS	Woodland Kingfisher, <i>Halcyon senegalensis</i>	Alcedinidae	
		In margin: Spotted Kingfisher, <i>Actenoides lindsayi</i>	Alcedinidae	
		2022 June 22 (Bee-eaters)	Set/4, 2xSS/1	A*
N/A	\$250.00	Green Bee-eater, <i>Merops orientalis</i> (head only)	Meropidae	
N/A	\$250.00	Red-bearded Bee-eater, <i>Nyctyornis amictus</i>	Meropidae (Head only)	
N/A	\$250.00	Blue-tailed Bee-eater, <i>Merops philippinus</i>	Meropidae	
N/A	\$250.00	White-fronted Bee-eater, <i>Merops bullockoides</i>	Meropidae	
N/A	\$800.00 SS	Little Bee-eater, <i>Merops pusillus</i>	Meropidae	
		In margin: European Bee-eater, <i>Merops apiaster</i>	Meropidae	
N/A	\$800.00 SS	Blue-cheeked Bee-eater, <i>Merops persicus</i>	Meropidae	
		In margin: Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae	

MALDIVES ISLANDS

		2021 November 11 (Owls)	Set/6, SS/2	A*
N/A	22r	Northern Hawk Owl, <i>Surnia ulula</i> (facing right)	Strigidae	
N/A	22r	Same species, facing left	Strigidae	
N/A	22r	Long-eared Owl, <i>Asio otus</i> (looking right)	Strigidae	
N/A	22r	Same species, looking left	Strigidae	
N/A	22r	Tawny Owl, <i>Strix aluco</i> (facing left)	Strigidae	
N/A	22r	Same species, facing right	Strigidae	
N/A	70r SS	Barn Owl, <i>Tyto alba</i> , facing left	Tytonidae	
N/A	70r SS	Same species, facing right	Tytonidae	
		In margin: Marsh Owl, <i>Asio capensis</i> (LL)	Strigidae	
		Short-eared Owl, <i>Asio flammeus</i> (LR)	Strigidae	

MOZAMBIQUE

		2022 April 5 (Owls)	Set/2, 2xSS/1	A*
N/A	66.00mt	Barred Owl, <i>Strix varia</i>	Strigidae	
N/A	66.00mt	†Laughing Owl, <i>Sceloglaux albifacies</i>	Strigidae	
N/A	365.00mt SS	Barn Owl, <i>Tyto alba</i>	Tytonidae	
		In margin: Akun Eagle-Owl, <i>Bubo leucostictus</i>	Strigidae	
		Australian Masked-Owl, <i>Tyto novaehollandiae</i>	Tytonidae (Ct-bot)	
		Australian Masked-Owl, <i>Tyto novaehollandiae castanops</i> (ssp)	Tytonidae (LL)	
		(No name has been listed for this)		
N/A	365.00mt SS	Burrowing Owl, <i>Athene cucularia</i>	Strigidae	
		In margin: Eastern Screech-Owl, <i>Megascops asio</i> (RS)	Strigidae	
		Eurasian Eagle-Owl, <i>Bubo bubo</i> (LL)	Strigidae	
		2022 April 5 (Bee-eaters)	Set/2, 2xSS/1	A*
N/A	66.00mt	Red-bearded Bee-eater, <i>Nyctyornis amictus</i>	Meropidae	
N/A	66.00mt	Green Bee-eater, <i>Merops orientalis</i>	Meropidae	
N/A	365.00mt SS	Red-throated Bee-eater, <i>Merops bulocki</i>	Meropidae	

MOZAMBIQUE (continued)

	In margin: Southern Carmine Bee-eater, <i>Merops nubicoides</i>	Meropidae (UR)	
	Unidentified Bee-eater, <i>Merops erythrocephalus</i>	**Meropidae (CTR)	
	Little Bee-eater, <i>Merops pusillus</i> (LL)	Meropidae	
N/A	365.00me SS Cinnamon-chested Bee-eater, <i>Merops oreobates</i>	Meropidae	
	In margin: European Bee-eater, <i>Merops apiaster</i> (RS)	Meropidae	
	Black Bee-eater, <i>Merops gularis</i> (LL)	Meropidae	
** Believed to be an extinct in India in 1787, but no record if it really existed at all. It is listed as a possible Red-headed Bee-eater????			
		2022 April 5 (Raptors)	Set/4, 2xSS/1 A*
N/A	115.00mt Amur Falcon, <i>Falco amurensis</i>	Falconidae	
N/A	115.00mt Unidentified <i>Accipiter</i> species	Accipitridae	
N/A	115.00mt White-necked Hawk, <i>Buteogallus lacernulatus</i>	Accipitridae V71(4)	
N/A	115.00mt Black Kite, <i>Milvus migrans</i>	Accipitridae	
	In margin: Sulawesi Serpent-Eagle, <i>Spilornis rufipectus</i> (UR)	Accipitridae	
	Lanner Falcon, <i>Falco biarmicus</i> (Ctr top)	Falconidae	
	Powerful Owl, <i>Ninox strenua</i> (UL)	Strigidae	
N/A	365.00mt SS Chilean Hawk, <i>Accipiter bicolor chilensis</i> (ssp of Bicolored Hawk, <i>Accipiter bicolor</i>)	Accipitridae	
	In margin: Osprey, <i>Pandion haliaetus</i> (UR)	Pandionidae	
	Blyth's Hawk-Eagle, <i>Nisaetus alboniger</i>	Accipitridae	
N/A	365.00mt SS White-breasted Sharp-shinned Hawk, <i>Accipiter striatus chionogaster</i> (ssp of Sharp-shinned Hawk, <i>Accipiter striatus</i>)	Accipitridae V71(4)	
	In margin: White-bellied Sea-Eagle, <i>Haliaeetus leucogaster</i>	Accipitridae (UR)	
	Barbary Falcon, <i>Falco peregrinus pelegrinoides</i> (ssp of Peregrine Falcon, <i>Falco peregrinus</i>)	Falconidae (UL)	
NEPAL		2021 December 29	Single A*
1127	10r Spiny Babbler, <i>Turdoides nipalensis</i>	Leiothrichidae	
NEVIS		2021 January 20 (Green-winged Teal Duck)	Set/4, SS/1 A*
2018a	\$5.50 Green-winged Teal Duck, <i>Anas carolinensis</i>	Anatidae	
b-d	\$5.50 Same species for the other 3 and same value		
2019	\$14.00 SS Same species		
		2021 January 20 (Greater Flamingo)	Set/4, SS/1 A*
2020a	\$5.50 Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae	
b-d	\$5.50 Same species, for the other 3 and same value		
2021	\$14.00 SS Same species		
		2021 November 8 (Macaws of the World)	Set/6, SS/2 A*
2038a	\$3.50 †Glaucous Macaw, <i>Anodorhynchus glaucus</i>	Psittacidae	
2038b	\$3.50 Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
2038c	\$3.50 Red-and-green Macaw, <i>Ara chloropterus</i>	Psittacidae	
2038d	\$3.50 Red-shouldered Macaw, <i>Diopsittaca nobilis</i>	Psittacidae	
2038e	\$3.50 Great Green Macaw, <i>Ara ambiguus</i>	Psittacidae	
2038f	\$3.50 Lear's Macaw, <i>Anodorhynchus leari</i>	Psittacidae	
2039a	\$8.00 †Cuban Macaw, <i>Ara tricolor</i>	Psittacidae	
2039b	\$8.00 Red-fronted Macaw, <i>Ara rubrogenys</i>	Psittacidae	
NIGER		2022 March 15 (Owls)	Set/4, SS/1 A*
N/A	1,000fr †Laughing Owl, <i>Sceloglaux albifacies</i> (Top stamp in diamond format)	Strigidae	

NIGER (continued)

N/A	1,000fr Cape Eagle-Owl, <i>Bubo capensis</i> (left side of diamond format)	Strigidae		
N/A	1,000fr Short-eared Owl, <i>Asio flammeus</i> (Right side of diamond format)	Strigidae		
N/A	1,000fr Australasian Grass-Owl, <i>Tyto longimembris</i> (Bottom of diamond format; The name was given by John Gould. It can be seen on Google by the name on the stamp.)	Tytonidae		
N/A	3,600fr SS Mottled Wood-Owl, <i>Strix ocellata</i>	Strigidae		
	2022 March 15 (Birds of Africa)	Set/4, SS/1	A*	
N/A	1,000fr Common Buzzard, <i>Buteo buteo</i>	Accipitridae		
N/A	1,000fr Short-toed Snake-Eagle, <i>Circaetus gallicus</i>	Accipitridae		
N/A	1,000fr Scissor-tailed Kite, <i>Chelictinia riocourii</i>	Accipitridae;		
N/A	1,000fr Eurasian Kestrel, <i>Falco tinnunculus</i>	Falconidae		
N/A	3,600fr SS Short-toed Snake-Eagle, <i>Circaetus gallicus</i>	Accipitridae		
	2022 March 15 (Birds of Europe)	Set/4, SS/1	A	
N/A	1,000fr Northern Goshawk, <i>Accipiter gentilis</i>	Accipitridae		
N/A	1,000fr Common Cuckoo, <i>Cuculus canorus</i>	Cuculidae		
N/A	1,000fr Eurasian Jackdaw, <i>Corvus monedula</i>	Corvidae		
N/A	1,000fr Common Buzzard, <i>Buteo buteo</i>	Accipitridae		
	In margin: Rook, <i>Corvus frugilegus</i> (UL)	Corvidae		
	Black Woodpecker, <i>Dryocopus martius</i> (UR)	Picidae		
	Middle Spotted Woodpecker, <i>Dendrocoptes medius</i>	Picidae		
N/A	3,600fr SS Spectacled Warbler, <i>Curruca conspicillata</i>	Sylviidae		
	In margin: House Sparrow, <i>Passer domesticus</i> (UL)	Passeridae		
	White-backed Woodpecker, <i>Dendrocopos leucotos</i> (UR &LL)	Picidae		
	Marmora's Warbler, <i>Curruca sarda</i>	Sylviidae V71(3)		
	Eurasian Tree Sparrow, <i>Passer montanus</i> (UR)	Passeridae		
	2022 March 15 (Nightjars)	Set/4, SS/1	A*	
N/A	1,000fr Common Nightjar, <i>Chordeiles minor</i>	Caprimulgidae		
N/A	1,000fr Indian Nightjar, <i>Caprimulgus asiaticus</i> (71(3))	Caprimulgidae		
N/A	1,000fr Large-tailed Nightjar, <i>Caprimulgus macrurus</i>	Caprimulgidae		
N/A	1,000fr Egyptian Nightjar, <i>Caprimulgus aegyptius</i>	Caprimulgidae		
N/A	3,600fr SS Eurasian Nightjar, <i>Caprimulgus europaeus</i>	Caprimulgidae		
	In margin: Australian Owlet-Nightjar, <i>Aegotheles cristatus</i> (UL)	Aegothelidae		
	Common Nightjar, <i>Chordeiles minor</i> (UR)	Caprimulgidae		
	Large-tailed Nightjar, <i>Caprimulgus macrurus</i> (LR)	Caprimulgidae		
	Savanna Nightjar, <i>Caprimulgus affinis</i> (LL)	Caprimulgidae V71(3)		
	2022 March 15 (Parrots)	Set/4, SS/1	A*	
N/A	1,000fr Red-fan Parrot, <i>Derophtys accipitrinus</i>	Psittacidae		
N/A	1,000fr Gang-Gang Cockatoo, <i>Callocephalon fimbriatum</i>	Cacatuidae		
N/A	1,000fr Malabar Parakeet, <i>Psittacula columboides</i>	Psittaculidae		
N/A	1,000fr Gray Parrot, <i>Psittacus erithacus</i>	Psittacidae		
N/A	3,600fr SS Eclectus Parrot, <i>Eclectus roratus</i>	Psittaculidae		
	2022 May 27 (Endangered Birds)	Set/4, SS/1	A*	
N/A	1,000fr Giant Ibis, <i>Pseudibis gigantea</i> (Stamp has genus name of <i>Thaumatibis</i>)	Threskiornithidae		
N/A	1,000fr Mauritius Kestrel, <i>Falco punctatus</i>	Falconidae		
N/A	1,000fr Golden-cheeked Warbler, <i>Setophaga chrysoparia</i>	Parulidae V71(3)		
N/A	1,000fr Negros Bleeding-Heart, <i>Gallicolumba keayi</i>	Columbidae V71(3)		

NIGER (continued)

N/A	3,600fr	SS Kakapo, <i>Strigops habroptila</i>	Strigopidae	
		In margin: Sula Hornbill, <i>Anthracoceros montani</i>	Bucerotidae	
		2022 May 27 (Kingfishers)	Set/4, SS/1	A*
N/A	1,000fr	Banded Kingfisher, <i>Lacedo pulchella</i>	Alcedinidae	
N/A	1,000fr	Bangka Banded Kingfisher, <i>Lacedo pulchella melanops</i> (ssp)	Alcedinidae	V71(3)
N/A	1,000fr	Mariana Kingfisher, <i>Todiramphus albicilla</i>	Alcedinidae	
N/A	1,000fr	Sombre Kingfisher, <i>Todiramphus funebris</i>	Alcedinidae	V71(3)
N/A	3,600fr	SS White-rumped Kingfisher, <i>Caridonax fulgidus</i>	Alcedinidae	V71(3)
		In margin: Great Billed Kingfisher, <i>Pelargopsis melanorhyncha</i>	Alcedinidae	(LR)
		Green-backed Kingfisher, <i>Actenoides monachus</i> (UR)	Alcedinidae	V71(3)
		(Stamp has genus of <i>Halcyon</i>)		
		2022 May 27 (Pigeons)	Set/4, SS/1	A*
N/A	1,000fr	Cinnamon-headed Green-Pigeon, <i>Treron fulvicollis</i>	Columbidae	V71(3)
N/A	1,000fr	Ashy Wood-Pigeon, <i>Columba pulchricollis</i>	Columbidae	V71(3)
N/A	1,000fr	Green Imperial-Pigeon, <i>Ducula aenea</i>	Columbidae	
N/A	1,000fr	Thick-billed Green-Pigeon, <i>Treron curvirostra</i>	Columbidae	
N/A	3,600fr	SS Hill Pigeon, <i>Columba rupestris rupestris</i> (ssp)	Columbidae	V71(3)
		In margin: Orange-breasted Green-Pigeon, <i>Treron bicinctus</i>	Columbidae	(UR)
		Red-collared Dove, <i>Streptopelia tranquebarica</i> (LL)	Columbidae	
		2022 May 27 (Hummingbirds)	Set/4, SS/1	A*
N/A	1,000fr	Buff-tailed Sicklebill, <i>Eutoxeres condamini</i>	Trochilidae	
N/A	1,000fr	Green-throated Carib, <i>Eulampis holosericeus</i>	Trochilidae	
N/A	1,000fr	Collared Inca, <i>Coeligena torquata</i>	Trochilidae	
N/A	1,000fr	Straight-billed Hermit, <i>Phaethornis bourcierii</i>	Trochilidae	
N/A	3,600fr	SS Chestnut-breasted Coronet, <i>Boissonneaua matthewsii</i>	Trochilidae	
		In margin: Red-tailed Comet, <i>Sappho sparganurus</i> (RS)	Trochilidae	
		Swallow-tailed Hummingbird, <i>Eupetomena macroura</i>	Trochilidae	(LL)
NORFOLK ISLAND	2022 June 21	(Norfolk Island Morepork Back from the Brink)	Set/2	A*
1172	\$1.10	Norfolk Island Morepork, <i>Ninox novaeseelandiae</i>	Strigidae (On branch)	
1173	\$2.20	Same species, head only	Strigidae	
ST. LUCIA		2019 February 18 (Independence, 40y)	Set/4	A*
1303	\$1.25	St. Lucia Warbler, <i>Setophaga delicata</i>	Parulidae	
1304	\$10.00	St. Lucia Parrot, <i>Amazona versicolor</i>	Psittacidae	
SIERRA LEONE		2022 May 5 (Parrots)	Set/4, SS/1	A*
N/A	20,000Le	Pale-headed Rosella, <i>Platycercus adscitus</i>	Psittaculidae	
N/A	20,000Le	Pink Cockatoo, <i>Lophochroa leadbeateri</i>	Cacatuidae	
N/A	20,000Le	Red-headed Lovebird, <i>Agapornis pullarius</i>	Psittaculidae	
N/A	20,000Le	Cockatiel, <i>Nymphicus hollandicus</i>	Cacatuidae	
		(Stamp has older scientific name of <i>Licmetis nasicus</i>)		
N/A	72,000Le	SS Long-billed Corella, <i>Cacatua tenuirostris</i>	Cacatuidae	
		In margin: Kakapo, <i>Strigops habroptila</i> (LL)	Strigopidae	
		Eastern Rosella, <i>Platycercus eximius</i> (LL)	Psittaculidae	
		2022 May 5 (Owls)	Set/4, SS/1	A*
N/A	20,000Le	Fulvous Owl, <i>Strix fulvescens</i>	Strigidae	
N/A	20,000Le	Morepork, <i>Ninox novaeseelandiae</i>	Strigidae	
N/A	20,000Le	Long-eared Owl, <i>Asio otus</i>	Strigidae	
N/A	20,000Le	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae	
N/A	72,000Le	SS †Laughing Owl, <i>Sceloglaux albifacies</i>	Strigidae	

SIERRA LEONE (continued)

		In margin: Tawny Owl, <i>Strix aluco</i> (UR)	Strigidae	
		Southern Boobook, <i>Ninox boobook</i> (LL)	Strigidae	
		2022 May 5 (Water Birds)	Set/4, SS/1	A*
N/A	20,000Le	Great Bittern, <i>Botaurus stellaris</i>	Ardeidae	
N/A	20,000Le	Brant, <i>Branta bernicla</i>	Anatidae	
N/A	20,000Le	Eurasian Teal, <i>Anas crecca</i>	Anatidae	
N/A	20,000Le	Graylag Goose, <i>Anser anser</i>	Anatidae	
N/A	72,000Le SS	Common Goldeneye, <i>Bucephala clangula</i>	Anatidae	
		In margin: Gadwall, <i>Mareca strepera</i>	Anatidae	
		(Stamp has genus of <i>Anas</i>)		
		2022 May 5 (Extinct Birds)	Set/4, SS/1	A*
N/A	20,000ld	†Heavy-footed Moa, <i>Pachyornis elephantopus</i>	†Dinornithidae V71(3)	
N/A	20,000Le	†Eastern Moa, <i>Emeus crassus</i>	†Emeidae V71(3)	
N/A	20,000Le	†Elephant Bird, <i>Aepyornis maximus</i>	†Aepyornithidae V71(3)	
N/A	20,000Le	†Phorusrhacos, <i>Phorusrhacos longissimus</i>	†Phorusrhacidae	
N/A	72,000Le	†Archaeopteryx, <i>Archaeopteryx lithographica</i>	†Archaeopterygidae	
		In margin: †South Island Giant Moa, <i>Dinornis robustus</i>	†Dinornithidae	
		2022 May 5 (Roald Amundsen)	Set/4	A*
N/A	20,000Le	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae	
		2022 June 23 (Hornbills)	Set/6, SS/1	A*
N/A	15,000Le	Great Hornbill, <i>Buceros bicornis</i>	Bucerotidae	
N/A	15,000Le	Indian Gray Hornbill, <i>Ocyrceros birostris</i>	Bucerotidae	
N/A	15,000Le	Abyssinian Ground-Hornbill, <i>Bucorvus abyssinicus</i>	Bucorvidae	
N/A	15,000Le	Rufous Hornbill, <i>Buceros hydrocorax</i>	Bucerotidae	
N/A	15,000Le	White-thighed Hornbill, <i>Bycanistes albotibialis</i>	Bucerotidae	
		(Stamp has genus of <i>Ceratogymna</i>)		
N/A	15,000Le	Rhinoceros Hornbill, <i>Buceros rhinoceros</i>	Bucerotidae	
N/A	72,000ke SS	Sulu Hornbill, <i>Anthracoceros montani</i> (UR)	Bucerotidae	
		Helmeted Hornbill, <i>Buceros vigil</i> (LS)	Bucerotidae	
		(Stamp has genus of <i>Rhinoplax</i>)		
		In margin: Bushy-crested Hornbill, <i>Anorrhinus galeritus</i> (UR)	Bucerotidae	
		Malabar Pied-Hornbill, <i>Anthracoceros coronatus</i>	Bucerotidae (LL)	
		2022 June 23 (Finches)	Set/6, SS/1	A*
N/A	15,000Le	Lesser Redpoll, <i>Acanthis cabaret</i>	Fringillidae	
N/A	15,000Le	Brambling, <i>Fringilla montifringilla</i>	Fringillidae	
N/A	15,000Le	Eurasian Bullfinch, <i>Pyrrhula pyrrhula</i>	Fringillidae	
N/A	15,000Le	European Greenfinch, <i>Chloris chloris</i>	Fringillidae	
N/A	15,000Le	Hoary Redpoll, <i>Acanthis hornemanni</i>	Fringillidae V71(4)	
N/A	15,000Le	Eurasian Bullfinch, <i>Pyrrhula pyrrhula</i>	Fringillidae	
		In margin: Twite, <i>Linaria flavirostris</i> (RS)	Fringillidae	
		European Serin, <i>Serinus serinus</i>	Fringillidae	
SURINAM		2022 March 31	Set/12	A*
1649a	\$10.50	Cipo Canastero, <i>Asthenes luizae</i>	Furnariidae V71(4)	
1649b	\$12.00	White-eyed Foliage-gleaner, <i>Automolus leucophthalmus</i>	Furnariidae	
1649c	\$13.00	White-bearded Antshrike, <i>Biatas nigropectus</i>	Thamnophilidae V71(4)	
1649d	\$14.00	Red-billed Scythebill, <i>Campylorhamphus trochilirostris</i>	Furnariidae	
1649e	\$15.00	Rufous Hornero, <i>Furnarius rufus</i>	Furnariidae	
1649f	\$16.00	Narrow-billed Woodcreeper, <i>Lepidocolaptes angustirostris</i>	Furnariidae	
1649g	\$17.00	Lesser Woodcreeper, <i>Xiphorhynchus fuscus</i>	Furnariidae V71(4)	

	(Stamp has genus of <i>Lepidocolaptes</i>)		
1649h	\$18.00 Scaled Woodcreeper, <i>Lepidocolaptes squamatus</i>	Furnariidae	V71(4)
1649i	\$20.00 Greater Thornbill, <i>Phacellodomus ruber</i>	Furnariidae	V71(4)
1649j	\$26.00 Rufous-winged Antshrike, <i>Thamnophilus torquatus</i>	Thamnophilidae	V71(4)
1649k	\$66.50 White-collared Foliage-gleaner, <i>Anabazenops fuscus</i>	Furnariidae	
1649l	\$241.00 White-throated Woodcreeper, <i>Xiphocolaptes albicollis</i> (Genus is misspelled as <i>Xyphocolaptes</i>)	Furnariidae	
TOGO	2022 June 10 (Birds of Egypt)	Set/4, 2xSS	A*
N/A	1,000fr Spur-winged Plover, <i>Vanellus spinosus</i>	Charadriidae	
N/A	1,000fr Little Owl, <i>Athene noctua</i>	Strigidae	
N/A	1,000fr Common Snipe, <i>Gallinago gallinago</i>	Scolopacidae	
N/A	1,000fr African Hoopoe, <i>Upupa epops africana</i> (ssp)	Upupidae	
	(In Clements Checklist of Birds of the World, it is still listed as a ssp of Eurasian Hoopoe, <i>Upupa epops</i>)		
N/A	3,300fr SS Great White Pelican, <i>Pelecanus onocrotalus</i>	Pelecanidae	
	In margin: Northern Lapwing, <i>Vanellus vanellus</i>	Charadriidae	
N/A	3,000fr SS Spotted Sandpiper, <i>Pterocles senegallus</i>	Pteroclididae	
	In margin: Shoebill, <i>Balaeniceps rex</i> , (above stamp)	Balaenicipitidae	
	2022 June 10 (Shore Birds)	Set/4, 2xSS	A*
N/A	1,000fr Black-tailed Godwit, <i>Limosa limosa</i>	Scolopacidae	
N/A	1,000fr Terek Sandpiper, <i>Xenus cinereus</i>	Scolopacidae	
N/A	1,000fr Spotted Crake, <i>Porzana porzana</i>	Rallidae	
N/A	1,000fr Whimbrel, <i>Numenius phaeopus</i> (UL)	Scolopacidae	
	Slender-billed Curlew, <i>Numenius tenuirostris</i> (Bot)	Scolopacidae	
N/A	3,300fr SS Green Sandpiper, <i>Tringa ochropus</i> (UR)	Scolopacidae	
	Wood Sandpiper, <i>Tringa glareola</i> (Bot)	Scolopacidae	
	In margin: Great Snipe, <i>Gallinago media</i>	Scolopacidae	
N/A	3,300fr SS Bar-tailed Godwit, <i>Limosa lapponica</i> (UR)	Scolopacidae	
	In margin: Water Rail, <i>Rallus aquaticus</i>	Rallidae	
	2022 June 10 (Raptors)	Set/4, 2xSS	A*
N/A	1,000fr Osprey, <i>Pandion haliaetus</i>	Pandionidae	
N/A	1,000fr Gray Goshawk, <i>Accipiter novaehollandiae</i>	Accipitridae	
N/A	1,000fr Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae	
N/A	1,000fr Collared Sparrowhawk, <i>Accipiter cirrocephalus</i>	Accipitridae	
N/A	3,300fr SS Spotted Harrier, <i>Circus assimilis</i>	Accipitridae	
	In margin: Gray Goshawk, <i>Accipiter novaehollandiae</i>	Accipitridae (white morph)	
N/A	3,300fr SS Brown Falcon, <i>Falco berigora occidentalis</i> (ssp)	Falconidae	
	(No English name listed on Clements Checklist Website)		
	In margin: Red Goshawk, <i>Erythrotriorchis radiatus</i>	Accipitridae	
	2022 June 10 (Bee-eaters)	Set/4, 2xSS	A*
N/A	1,000fr Rainbow Bee-eater, <i>Merops ornatus</i>	Meropidae	
N/A	1,000fr European Bee-eater, <i>Merops apiaster</i>	Meropidae	
N/A	1,000fr Rainbow Bee-eater, <i>Merops ornatus</i>	Meropidae	
N/A	1,000fr Northern Carmine Bee-eater, <i>Merops nubicus</i>	Meropidae	
N/A	3,300fr SS Rosy Bee-eater, <i>Merops malimbicus</i>	Meropidae	
N/A	3,300fr SS European Bee-eater, <i>Merops apiaster</i>	Meropidae	
TURKISH REP. OF N. CYPRUS	2021 July 15 (Europa)	Set/2	A*
837	6L Common Pochard, <i>Aythya ferina</i>	Anatidae	
838	6.50L Same species		

New Birds in the Philatelic Aviary

By Charles E. Braun, BU 1364

Corrections

BP 71#3, Elephant Bird was previously reported.

Change CINNAMON-HEADED PIGEON to CINNAMON-HEADED GREEN-PIGEON

BP 71#1 Change EASTERN CROWNED LEAF-WARBLER to EASTERN CROWNED WARBLER

New Birds

†**GIANT GASTORNIS**, †*Gastornis gigantea* †Gastornithidae

Extinct 45 million years ago

Central African Republic, 2022, not yet cataloged, 1000fr

Length: 6 feet, sexes alike, resident. A large, flightless powerfully built bird with a huge hooked beak.

Habitat: Lowlands.

Range: Western North America.

Reference: Cope, E. D. Proceedings of the Academy of Natural Sciences of Philadelphia 28(2) 1876.

†**PALAELODUS**, †*Palaelodus ambiguus* †Palaelodidae

Extinct 12 million years ago

Central African Republic. 2022. not yet cataloged, 1000fr

Length: 50 inches, sexes alike, resident. A flamingo-like bird with long legs and neck.

Habitat: Wetlands.

Reference: Lambrecht, K. Handbuch der Paleontology 1935.

†**OSTEODONTORNIS**, †*Osteodontornis orti* †Pelegornithidae

Extinct 5.3 million years ago

Central African Republic, 2022, not yet cataloged, 1000fr

Length: 47 inches, sexes alike resident. A stout seabird with a long serrated bill.

Habitat: Marine.

Range: Northern Pacific.

Reference: Mayr, Gerald, Paleogene Fossil Birds 2009.

GRAY TINAMOU, *Tinamus tao* Tinamidae

Djibouti. 2022, not yet cataloged, 350fr

Length: 17 to 20 inches sexes alike, resident. Gray, with a black-and-white-freckled neck and a blackish-barred reddish brown undertail.

Habitat: Forest

Range: Northwestern Guyana to Colombia, eastern Bolivia and north central Brazil.

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



**BLACK TINAMOU, *Tinamus osgoodi*** Tinamidae

Djibouti, 2022, not yet cataloged, 350fr

Length: 16 to 18 inches, sexes alike, resident. B=dark brown above and sootybrown below, with an ochraceous vent.

Habitat: Subtropical humid forest.

Range: South-central Colombia and Southeastern Peru.

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

**TAWNY-BREASTED TINAMOU, *Nothocercus julius*** Tinamidae

Djibouti, 2022, not yet cataloged, 350fr of the W

Length: 14 to 16 inches, sexes like, resident. Brown above and tawny below, with a whitish neck.

Habitat: Forest.

Range: Western Venezuela to south-central Peru.

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

**BLACK-CAPPED TINAMOU, *Crypturellus atrocapillus*** Tinamidae

Djibouti, 2022, not yet cataloged, 350fr

Length: 11 to 12 inches, sexes similar, resident. Rufescent brown above and ochraceous below, with a white throat.

Habitat: Tropical forest.

Range: Southeastern Peru to northern Bolivia.

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

**QUEBRACHO CRESTED-TINAMOU, *Eudromia formosa*** Tinamidae

Djibouti, 2022, not yet cataloged, 350fr

Length: 17 to 18 inches, sexes similar, resident. Grayish brown above and ochraceous below, with a long crest.

Habitat: Quebracho woodland.

Range: West-central Paraguay to north-central Argentina.

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

**PLAINS-WANDERER, *Pedionomus torquatus***, Pedionomidae

Togo, 2022, not yet cataloged, 3600fr Previously on a local.

Length: 6 to 7 inches, resident. The male (shown on the stamp) is brown-spotted gray above and dark-spotted whitish below; the female has a black-and-white broad collar and a rufous breast.

Habitat: Grasslands,

Range: Eastern Australia.

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

THINOCOCORIDAE, Seedsnipes, a new family on stamps

Seedsnipes are in the Charadriiformes order but bear a resemblance to sandgrouse. They inhabit grasslands semi-desert and alpine habitats in western and southern South America, They feed on leaves and buds. Seedsnipes are monogamous; four eggs are laid in crude scraped nests in the ground between August and February The family has four species, all on stamps (see below).

RUFOUS-BELLIED SEEDSNIPE, *Attagis gayi* Thinocoridae

Togo, 2022, not yet cataloged, 1000fr

Length: 11 to 12 inches, sexes alike, resident. Mottled brownish above and pale pinkish cinnamon below, with a scalloped breast.

Habitat: Rocky montane slopes.

Range: Northern Ecuador to Tierra del Fuego.

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

**WHITE-BELLIED SEEDSNIPE, *Attagis malouinus*** Thinocoridae

Togo, 2022, not yet cataloged, 1000fr

Length: 11 inches, sexes alike, resident. Buff-scalloped black above and white below, with a speckled neck and breast.

Habitat: Windswept ridges and stony steppe.

Range: Southern Chile and Argentina.

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

**GRAY-BREASTED SEEDSNIPE, *Thinocorus orbignyianus*** Thinocoridae

Togo, 2022, not yet cataloged, 1000fr

Length: 8 to 10 inches, resident. The male (shown on the stamp) is scalloped black above and white below, with a gray head, neck and breast; the female has a dark-streaked pale buff neck and breast.

Habitat: Grasslands.

Range: Northern Peru to Tierra del Fuego.

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

**LEAST SEEDSNIPE, *Thinocorus rumicivorus*** Thinocoridae

Togo, 2022, not yet cataloged, 1000fr

Length: 7 inches, resident. The male (shown on the stamp) is brown above and white below, with a black-bordered gray head, neck and breast; the female has a black-bordered dark-spotted buff head, neck and breast.

Habitat: Semi-desert.

Range: Southwestern Ecuador to Tierra del Fuego.

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

**WHITE-WINGED SANDPIPER, *Prosobonia leucoptera*** Scolopacidae

Djibouti, 2022, not yet cataloged, 350fr

Length: 9 inches, sexes alike, resident. Dark brown above and brown below, with white wing patches.

Habitat: Small streams,

Range: Tahiti, South Pacific.

Reference: Day, David.

**WHITE-BREASTED SHARP-SHINNED HAWK, *Accipiter striatus****chionogaster* Accipitridae Subspecies

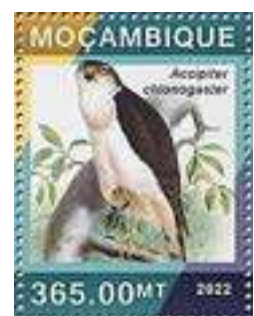
Mozambique, 2022, not yet cataloged, 365Mt

Length: 12 inches, sexes similar, resident. Dark gray above and white below.

Habitat: Forest.

Range: Southern Mexico to north central Nicaragua.

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





CHILEAN HAWK, *Accipiter bicolor chilensis* Accipitridae Subspecies

Mozambique, 2022, not yet cataloged, 365Mt

Length: 12 to 17 inches, sexes similar, migratory. Dark slate gray above and barred gray below, with a white throat and a black-barred gray tail.

Habitat: Temperate wet forest.

Range: Breeds in the Chilean Andes and adjacent Argentina south to Tierra del Fuego; winters in northwestern Argentina.

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



WHITE-NECKED HAWK, *Buteogallus lacernulatus* Accipitridae

Mozambique, 2020, not yet cataloged, 115Mt

Length: 27 to 29 inches, sexes similar, resident. Dark above and white below, with a white head and neck and a black-tipped white tail.

Habitat: Dense primary Atlantic forest.

Range: Eastern Brazil.

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



STEPPE BUZZARD, *Buteo buteo vulpinus* Accipiteridae Subspecies

Djibouti, 2021, 2572d, 250fr

Length: 20 to 22 inches. Sexes alike, migratory. Brown, with a pale rump and an all-rufous tail.

Habitat: Open areas near trees.

Range: Breeds from northern Scandinavia to central Asia; winters in southern Africa and southern Asia.

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



HUME'S BOOBOOK, *Ninox obscura* Strigidae

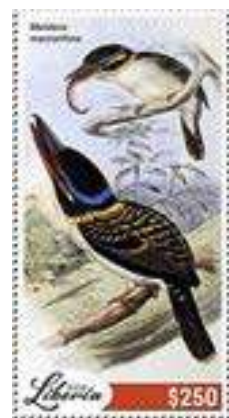
Guinea, 2022, not yet cataloged, 16,500fr

Length: 11 to 13 inches, sexes similar, resident. All dark brown.

Habitat: Forest and thickets.

Range: Andaman and Nicobar Islands, India.

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



HOOK-BILLED KINGFISHER, *Melidora macrorrhina* Alcedinidae

Liberia, 2022, not yet cataloged, \$250

Length: 11 inches. resident. The male (lower bird) is spotted brown above and whitish below, with a black-spotted blue crown; the female (upper bird) is buffy below with a black-spotted yellowish green crown.

Habitat: Lowland forest.

Range: New Guinea.

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

RED-HEADED BEE-EATER, *Merops erythrocephalus* Meropidae
Mozambique, 2022, not yet cataloged, 250Mt Lower surrounds.
Extinct around 1800

Length: 8 inches, sexes alike, resident. Deep blue above and off-white below, with a red crown, black eye-patch and forked gray tail.

Habitat: Open country,

Range: India

Reference: Shaw, George. The Naturalist's Miscellany. 1798.



SANGIHE PITTA, *Erythropitta caeruleitorques* Pittidae

Central African Republic, 2022, not yet cataloged, 1000fr

Length: 7 inches, sexes similar but the female is duller, resident. Greenish-brown above and red below, with a brownish-red head and a blue breast separated from the red by a black band.

Habitat: Forest.

Range: Sangihe Island, Indonesia.

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



SIAU PITTA, *Erythropitta palliceps* Pittidae

Central African Republic, 2022, not yet cataloged, 1000fr

Length: 7 inches, sexes similar but the female is duller, resident. Greenish-brown above and red below, with a brownish-red head and a blue breast.

Habitat: Forest.

Range: Siau and Tahulandang Islands, Indonesia.

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



INDIAN PITTA, *Pitta brachyura* Pittidae

Central African Republic, 2022, not yet cataloged, 3600fr Surrounds

Length: 7 inches, sexes alike, migratory. Dark green above and golden buffish below, with a dark buff crown, black facial stripe, white superciliary, white throat, blue rump, scarlet undertail patch and black tail.

Habitat: Forest and scrub.

Range: Breeds from northeastern Pakistan to central India; Winters in southern India and Sri Lanka.

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



WHITE-BEARDED ANTSHRIKE, *Biatas nigropectus* Thamnophilidae

Surinam, 2022, not yet cataloged, \$13

Length: 7 inches, resident. He male (shown on the stamp) is reddish yellow-brown above and clay below, with a black head and breast and a white collar; the female has a rufous-brown head and white superciliary and lacks the black breast.

Habitat: Bamboo-rich evergreen forest.

Range: Southeastern Brazil.

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



RUFIOUS-WINGED ANTSHRIKE, *Thamnophilus torquatus* Thamnophilidae

Surinam, 2022, not yet cataloged, \$21



Length: 7 to 8 inches, resident. The male (shown on the stamp) is cinnamon-rufous above and whitish below, with a black crown, a black-barred breast and a white-spotted black tail; the female has a cinnamon-rufous crown and a plain breast.

Habitat: Understory of woodlands, thickets and second growth.

Range: Eastern Brazil to northeastern Bolivia and northeastern Paraguay.

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

CINNAMON-BREASTED TIT, *Melaniparus rufiventris pallidiventris* Paridae

Subspecies

Togo 2022, not yet cataloged, 3300fr Upper left bird



Length: 6 inches, sexes similar, resident. Dark gray above and pale pinkish-buff below, with a black head, breast and tail.

Habitat: Woodland and wooded savanna.

Range Tanzania to eastern Zimbabwe and Mozambique.

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

STRIPE-BREASTED TIT, *Melaniparus fasciiventer* Paridae

Togo, 2022, not yet cataloged, 3300fr Lower right bird

Length: 5.5 inches, sexes alike, resident. Gray above and white below, with a black head, breast, center of the belly and tail.

Habitat: Montane forest.

Range: Western Rwanda, western Uganda and western Burundi.

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

WHITE-TAILED LARK, *Mirafra albicauda* Alaudidae

Togo, 2022, not yet cataloged, 3300fr Lower right surrounds



Length: 5 inches, sexes alike, resident. Black-streaked dark gray-brown above and pale pinkish below, with a heavily streaked throat.

Habitat: Dense fairly short grasslands.

Range: Chad, eastern Sudan, southcentral Ethiopia and northeastern DR Congo to Tanzania.

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

FAWN-COLORED LARK, *Calendulauda africanoides* Alaudidae

Togo, 2022, not yet cataloged, 3300fr Upper right surrounds.

Length: 6 inches, sexes alike, resident. Brownish-streaked rufous above and white below, with a long white superciliary.

Habitat: Semi-arid savanna and woodland.

Range: Southeastern Angola to Mozambique and central South Africa.

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



BLACK-CROWNED SPARROW-LARK, *Eremopterix nigriceps* Alaudidae

Togo, 2022, not yet cataloged, 1200fr

Length: 4 inches, resident. The male (shown on the stamp) is sandy-brown above and black below, with a black face and white forehead and neck; the female is grayish-rufous above and whitish below, with a streaked brownish breast.

Habitat: Semi-arid plains with low-lying vegetation.

Range: Cape Verde Islands and Mauritania to Somalia and northwestern India.

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

**CAMBODIAN TAILORBIRD, *Orthotomus chaktomuk*** Cisticolidae

Cambodia, 2020, 2539, 2000k

Length: 4.5 inches, sexes alike, resident, Blue-gray above and whitish below, with an orange-red crown, black throat and black-streaked breast.

Habitat: Floodplain.

Range: Southeastern Cambodia.

Reference: Forktail 29 1-14.

**OLIVE-HEADED WEAVER, *Ploceus olivaceiceps*** Ploceidae

Togo, 2022, not yet cataloged, 3300fr

Length: 6 inches sexes similar, resident. Olive above and yellow below, with an orangeish throat patch and blackish wings and tail.

Habitat: Mature miombo woodland.

Range: Tanzania to Zambia and southern Mozambique.

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

**LESSER REDPOLL, *Acanthis cabaret*** Fringillidae Now a full species

Czechoslovakia, 1965, 1347, 1.20k

Length: 5 inches, migratory. The male (shown on the stamp) is streaky brown above and bright pink below, with a black face and red forecrown; the female is whitish buff below.

Habitat: Open woodlands.

Range: Breeds from Ireland and southwestern Norway to southern Poland; winters from Ireland and southwestern Norway to southeastern France and Greece.

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

**HOARY REDPOLL, *Acanthis hornemanni*** Fringillidae Previously on a local from Eynhallow

Sierra Leone, 2022, not yet cataloged, 15,000Le

Length: 5 inches, migratory. The male (shown on the stamp) is black-streaked pale gray above and streaked white below, with a black face, red crown spot and pinkish breast; the female has a white breast,

Habitat: Breeds in Arctic tundra; winters in clearings and field edges,

Range: Breeds in Arctic America, and Eurasia; winters in northern America and northern Eurasia.

Reference: del Hoyo, J., A. Elliott and J. Sargatal, Eds. Handbook of the Birds of the World, Volume 14.





LARK-LIKE BUNTING, *Emberiza impetuani* Emberizidae

Togo, 2022, not yet cataloged, 3300fr Lower left surrounds

Length: 5 inches, sexes alike, resident. Gray-brown above and buff below, with a broad buffy supercilium.

Habitat: Semi-arid grasslands and scrub lands.

Range: Coastal Angola to southern South Africa and Zimbabwe and Lesotho.

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

SOMALI BUNTING, *Emberiza poliopleura* Emberizidae

Togo, 2022, not yet cataloged, 3300fr Upper left surrounds

Length: 6 inches, sexes similar, resident. Chestnut above and yellow below, with a black-and-white-striped head.

Habitat: Arid acacia scrub.

Range: Southeastern Sudan to Somalia and northeastern Tanzania.

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

LACRIMOSE MOUNTAIN-TANAGER, *Anisognathus lacrymosus*

Thraupidae

Colombia, 2022, not yet cataloged, 3000p

Length: 7 inches, sexes similar, resident. Slaty blue above and yellow below, with a pale yellow spot beneath the eye.

Habitat: Wet montane forest and shrubby forest borders.

Range: Western Venezuela to northern Peru.

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



BLUE-WINGED MOUNTAIN-TANAGER, *Anisognathus*

somtuosus Thraupidae

Colombia, 2022, not yet cataloged, 3000p

Length: 7 inches, sexes similar, resident. Black above and yellow below, with a yellow crown and blue wings. Habitat: Wet forest and tall second-growth woodland.

Range: Northern Venezuela to central Bolivia

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



GOLDEN-CROWNED TANAGER, *Iridosornis rufivertex*

Thraupidae

Colombia, 2022, not yet cataloged, 3000p

Length: 6 inches, sexes similar, resident. Purplish-blue, with a golden-orange crown and a black head.

Habitat: Dense montane forest and mossy woodland and shrubbery.

Range: Northwestern Colombia to northern Peru.

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



RUFOUS-THROATED TANAGER, *Ixothraupis rufigula* Thraupidae

Sierra Leone, 2022. not yet cataloged, 15,000Le

Length: 5 inches, sexes alike, resident. Greenish-buff-scaled black above and spotted opalescent green below, with a black head and a dull rufous throat.

Habitat: Wet forest and forest borders.

Range: Western Colombia and western Ecuador.

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

**SAFFRON-CROWNED TANAGER, *Tangara xanthocephala*** Thraupidae

Colombia, 2022, not yet cataloged, 3000p

Length: 5 inches, sexes similar, resident. Black-streaked blue-green above and yellow below, with a saffron crown and black mask.

Habitat: Wet forest and forest borders.

Range: Western Venezuela to Bolivia.

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

**TAIWAN BIRDS OF PREY**

Taiwan has an abundance of bird species. To encourage greater interest in birds among the nation's people and to raise awareness about the importance of ecological conservation, Chunghwa Post has specially released a set of four stamps on the following birds of prey that are targets of conservation efforts: the *Butastur indicus*, the *Accipiter soloensis*, the *Pernis ptilorhynchus*, and the *Spilornis cheela*. The stamps are described below: 1. ***Butastur indicus*** (NT\$8): A medium-sized bird of prey, 47-51 cm in length, it has long wings and a short tail. When perched, the tips of its wings often extend past its tail, and the white streak above its eyes is clearly visible. Among Taiwan's migratory birds of prey, it is the second most numerous. Because these migrating birds of prey arrive in peak numbers around the Republic of China's (Taiwan's) National Day on October 10, it has been bestowed with the nickname: "the bird of national celebration." 2. ***Accipiter soloensis*** (NT\$10): A small bird of prey, 25-30 cm in length, it has orange-suffused underparts and black-tipped wings. The males have dark irises, whereas the females have yellow irises. It is the most numerous of all of Taiwan's migratory birds of prey, and in the autumn it can be found throughout Taiwan. In flight as they migrate, they impress people with their majestic "hawk columns" and "hawk rivers." 3. ***Pernis ptilorhynchus*** (NT\$12): The bird typically has a length of 57-61 cm, and bees are its main source of food. Its face is covered with fine, scale-like hairs that offer protection against bee stings. Its tail and wings are relatively slender, and its feathers are multicolored with varying patterns. It is widely spread throughout mid- and low-elevation forests. 4. ***Spilornis cheela*** (NT\$15): A large bird of prey, measuring 65-74 cm in length, it has largely dark brown plumage with a spotted white crest and yellow lores and irises. In flight, it has long, extended wings and a short tail, with obvious white bands on its wings' back edge and under its tail. It often sings in flight. It is the most common large bird of prey in low-elevation





Herpetology

Dick Roman, LM 83



Scott#	Denom	Common name/Scientific Name	Family/subfamily	Code
ARGENTINA				
2022 January 10 (Chinese New Year 2021) Set/4, SS/1				
2954d	90p	Stylized snake		
2955	SS 380p	Stylized snake		
ARMENIA				
2021 December 24 (Flora and Fauna) Set/4, SS/8				
1294	290d	Northern Banded Newt, <i>Ommatotriton ophryticus</i>	Salamandridae, Pleurodelinae	A
1296a		Sheet of 8, 2 each #1293-96		
BOSNIA & HERZEGOVINA (Croat Admin.)				
2022 April 5 (Europa, Myths) Set/2				
444	3m	Stylized snake		
445a	3m	Stylized snake		
BOSNIA & HERZEGOVINA (Serb Admin.)				
2021 May 20 (Reptiles) Set/4				
660a	90pf	European Legless Lizard, <i>Pseudopus apodus</i>	Anguidae, Diploglossa	A
660b	90pf	Turkish Gecko, <i>Hemidactylus turcicus</i>	Gekkonidae	A
660c	180pf	Snake-eyed skink, <i>Ablepharus kitaibelii</i>	Scincidae, Eugongylinae	A
660d	180pf	Sharp-snouted Rock Lizard, <i>Dalmatolacerta oxycephala</i>	Lacertidae	A
CAMBODIA				
2020 December 15 (Reptiles) Set/6, SS/1				
2544	900k	Unidentified snake		
2545	900k	Unidentified turtle		
2546	2000k	Unidentified python		
2547	2000k	Unidentified turtle (different)		
2548	3000k	Unidentified python (different)		
2549	3000k	Unidentified turtle (different)		
2550	SS 6000k	Unidentified snake		
CUBA				
2020 October 9 (Endangered Crocodiles) Set/6, SS/1				
6271	5c	Cuban Crocodile, <i>Crocodylus rhombifer</i>	Crocodylidae	A
6272	10c	American crocodile, <i>Crocodylus acutus</i>	Crocodylidae	A
6273	15c	Morelet's Crocodile, <i>Crocodylus moreletii</i>	Crocodylidae	A
6274	20c	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	A
6275	35c	Orinoco Crocodile, <i>Crocodylus intermedius</i>	Crocodylidae	A
6276	3p	Johnstone River Crocodile, <i>Crocodylus johnstoni</i>	Crocodylidae	A
6277	SS 1p	Cuban Crocodile, <i>Crocodylus rhombifer</i>	Crocodylidae	A
2020 November 19 (Endangered Sea Turtles) Set/4				
6301a	90c	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae, Cheloniinae	A
6301b	90c	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A
6301c	90c	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A
6301d	90c	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A
2020 December 11 (Snakes) Set/6, SS/1				
6307	15c	Cuban Short-tailed Racerlet, <i>Arrhyton vittatum</i>	Colubridae, Dipsadinae	A
6308	40c	Havana Racerlet, <i>Arrhyton dolichura</i>	Colubridae, Dipsadinae	A
6309	50c	Broad-striped Racerlet, <i>Arrhyton taeniatum</i>	Colubridae, Dipsadinae	A
6310	65c	Cuban lesser racer, <i>Caraiba andreae</i>	Colubridae, Dipsadinae	A

CUBA (continued)

6311	75c	Feick's Dwarf Boa, <i>Tropidophis feicki</i>	Tropidophiidae, Henophidia	A
6312	85c	Giant Trope, <i>Tropidophis melanurus</i>	Tropidophiidae, Henophidia	A
6313	SS 1p	Cuban Boa, <i>Chilabothrus angulifer</i>	Boidae	A

DJIBOUTI**2021 November 1** (COVID-19 Variants) Set/4

2564 250fr Stylized snake medical symbol

2021 November 1(Marine biodiversity) Set/4, SS/12573d 250fr Green Sea Turtle, *Chelonia mydas* Cheloniidae, Cheloniinae A**ESTONIA****2022 April 8** (Town Hall Pharmacy Tallinn 600y) Single

976 €1.90 Snake sculpture

GAMBIA**2021 September 1** (Crocodylinae) Set/6, SS/13931a 60c Nile Crocodile, *Crocodylus niloticus* Crocodylidae A

3931b 60c Same species mouth closed

3931c 70c Same species eye closeup

3931d 70c Same species two crocs

3931e 80c Same species open mouth

3931f 80c Same species closed mouth

3932 SS 250d Same species

2021 October 29 (Amphibians, Frogs of Gambia) Set/4, SS/1

3939a 90d Unidentified toad

3939b 100d Crowned bull frog, *Hoplobatrachus occipitalis* Dicroglossidae, Dicroglossinae A

3939c 110d Unidentified Tree frog

3939d 120d Edible bullfrog, *Pyxicephalus edulis* Pyxicephalidae, Pyxicephalinae A3940 SS 250d Reed frog, *Hyperolius sp.* Hyperoliidae A**GERMANY****2022 August 4** (Amphibians) Set/3

B1197 85c+40c Unidentified Mountain newt

B1198 100c+45c Unidentified tree frog

B1199 160c+55c Fire Salamander, *Salamandra salamandra* Salamandridae, Salamandrinae A**GRENADA****2021 June 17** (Marine Life) Set/4, SS/14406d \$5.50 Green Sea Turtle, *Chelonia mydas* Cheloniidae, Cheloniinae A**2021 December 1** (Red-Footed Tortoise) Set/5, SS/14424a \$5 Red-Footed Tortoise, *Chelonoidis carbonaria* Testudinidae A

4424b \$5 Same species facing right

4424c \$5 Same species fac

4424d \$5 Same species facing right

4425 SS \$14 Same species

2021 December 23 (Drawings Green Anole)Set/4, SS/24430a \$5 Green anole, *Anolis carolinensis* Dactyloidae, Iguania A

Family changed since last listed

4430b \$5 Same species

4430c \$5 Same species two on branch

4430d \$5 Same species face left

4431 SS \$5 Same species sheet of two

GRENADA GRENADINES**2021 November 29** (Iguanas and Crocodiles) Set/4, SS/1; Set/5, SS/13065a \$4 Unidentified Iguana, *Iguana sp.* Iguanidae3065b \$5 Unidentified Iguana, *Iguana sp.* Iguanidae3065c \$6 Unidentified Iguana, *Iguana sp.* Iguanidae

GRENADA GRENADINES (continued)

3065d	\$7	Unidentified Iguana, <i>Iguana sp.</i>	Iguanidae	
3066	SS \$14	Same species		
3067a	\$4.50	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	A
3067b	\$4.50	African Slender-snouted Crocodile, <i>Mecistops cataphractus</i>	Crocodylidae	A
3067c	\$4.50	Johnstone River Crocodile, <i>Crocodylus johnstoni</i>	Crocodylidae	A
3067d	\$4.50	Mugger Crocodile, <i>Crocodylus palustris</i>	Crocodylidae	A
3067e	\$4.50	Orinoco Crocodile, <i>Crocodylus intermedius</i>	Crocodylidae	A
3068a	SS \$8	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	A
3068b	SS \$8	African Slender-snouted Crocodile, <i>Mecistops cataphractus</i>	Crocodylidae	A

LATVIA**2022 April 8** (Europa, Myths and Legends) Set/2

1099 €1.77 Drawing of grass snakes

LITHUANIA**2022 April 29** (Europa, Myths and Legends) Set/2

1199 95c Stylized snake

MEXICO**2021 October 14** (National Guard) Single

3218 11.50p Stylized snake

MOROCCO**2021 June 30** (Ptg by Abbes Saladi) Single

1303 9d Stylized snake

NEVIS**2021 January 20** (Sea Turtles Drawings) Set/4, SS/2

2022a \$5.50 Drawing sea turtle, head right denomination LR

2022b \$5.50 Drawing sea turtle, head right denomination UL

2022c \$5.50 Drawing sea turtle, head right denomination LL

2022d \$5.50 Drawing sea turtle, head center denomination LR

2023a SS \$8 Drawing sea turtle, head right

2023b SS \$8 Drawing sea turtle, head left

OMAN**2021 May 22** (Lizards) Set/4, SS/4669a 250b Omani Spiny-tailed Lizard, *Uromastix thomasi* Agamidae A
Caption: Thomas' Mastigure, a lesser synonym669b 250b Dhofar agama, *Pseudotrapelus dhofarensis* Agamidae A669c 250b Carter's rock gecko, *Pristurus carteri* Sphaerodactylidae A
Caption: Carter's semaphore gecko, a lesser synonym669d 250b Arabian Chameleon, *Chamaeleo arabicus* Chamaeleonidae A

669e SS #669a-d

PHILIPPINES**2011 March 16** (Map illustrations) Set/13

3875i 45p Drawing of snake

PORTUGAL**2021 April 26** (University Faculties of Pharmacy 100y) Set/3

4302 53c Stylized snake

4304 88c Stylized snake

4307a SS 88c European Pond Turtle, *Emys orbicularis* Emydidae, Emydinae A
2021 May 7 (Europa, endangered animals) Set/2, SS/24341 54c Iberian Mountain Lizard, *Iberolacerta monticola* Lacertidae A
2021 July 2 (Protected Areas) Set/5

Caption: Iberian Rock Lizard, lesser common name

Madeira**2021 May 7** (Europa, Endangered animals) Set/2, SS/2390 88c Loggerhead Sea Turtle, *Caretta caretta* Cheloniidae A

391 SS Same species

ROMANIA**2021 August 12** (Desert Animals) Set/4

- 6614 7L Sinai Agama, *Pseudotrapelus sinaitus* Agamidae A
 6614a Sheet of 5 Same species

2021 September 22 (Turtles) Set/4

- 6636 1.70L Star Tortoise, *Geochelone elegans* Testudinidae A
 6636a 1.70L tete-beche, Same species
 6636b SS Same species
 6637 2.10L Common Thread Turtle, *Mauremys sinensis* Geoemydidae A
 6637a 2L tete-beche, Same species
 6637b SS Same species
 6638 5.50L Mediterranean Spur-thighed Tortoise, *Testudo graeca ssp. iberica* Testudinidae A
 6638a 5.50L tete-beche Same species
 6638b SS Same species
 6639 19.50L Horsfield's Tortoise, *Testudo horsfieldii* Testudinidae A
 6639a 19.50L tete-beche, Same species
 6639b SS Same species

ST. THOMAS & PRINCE ISLANDS **2018 May 19** (Turtles)

- 3541a 31d Flatback Turtle, *Natator depressus* Cheloniidae A
 3541b 31d Florida Box Turtle, *Terrapene carolina ssp. mexicana* Emydidae A
 3541c 31d Florida Redbelly Turtle, *Pseudemys nelsoni* Emydidae, Deirochelyinae A
 3541d 31d Leatherback Sea Turtle, *Dermochelys coriacea* Dermochelyidae A
 3560 124d Southern River Terrapin, *Batagur affinis* Geoemydidae A

SIERRA LEONE**2019 January 30** (Crocodile, Turtles)

- 5184 SS 50,000 Le Nile Crocodile, *Crocodylus niloticus* Crocodylidae A
 5216a 12,500 Le Charles Island Giant Tortoise, *Chelonoidis nigra* Testudinidae A
 5216b 12,500 Le Diamondback Terrapin, *Malaclemys terrapin* Emydidae, Deirochelyinae A
 5216c 12,500 Le Painted Turtle, *Chrysemys picta* Emydidae, Deirochelyinae A
 5216d 12,500 Le Florida Box Turtle, *Terrapene carolina ssp. carolina* Emydidae A

2019 February 27 (Turtle)

- 5229 50,000 Le Green Sea Turtle, *Chelonia mydas* Cheloniidae, Cheloniinae A

TONGA**2020 June 22** (Tourism)

- 1436 3.50pa U/I sea turtles

2021 May 18 (#1293, #1291, #1292 Surcharged, Reptiles)

- 1443 6.90pa on 2.70pa Fiji Banded Iguana, *Brachylophus fasciatus* Iguanidae, Iguania A
 1444 11.50pa on 2pa Same species
 1445 12.50pa on 2.25pa Same species

TUVALU**2021 March 1** (Sea Snakes)

- 1511a \$2.50 Blue-banded Sea Krait, *Laticauda laticaudata* 🦋 Elapidae A
 Caption: Blue-lipped Sea Krait, lesser synonym
 1511b \$2.50 Hardwicke's Spine-bellied Seasnake, *Hydrophis hardwickii* 🦋 Elapidae A
 Caption: Hardwicke's Sea Snake, not a recognized name
 1511c \$2.50 Little Filesnake, *Acrochordus granulatus* Elapidae A
 Caption: Marine File snake, lesser synonym
 1511d \$2.50 Persian Gulf Sea Snake, *Chitulia lapemoides* 🦋 Elapidae A
 1512 \$7.00 SS A

2021 July 5 (Marine Life)

- 1531c \$2,50 Green Sea Turtle, *Chelonia mydas* Cheloniidae, Cheloniinae A

CHINA (People's Republic)		2021 November 5 (Poems) Set/4	
4616	\$8	“The fisherman on the river”, from poem by Fan Zhongyen (no fish)	R
CHRISTMAS ISLAND		2021 November 1 (Christmas) Set/4, SS/1	
616a	SS2	Whale shark, <i>Rhincodon typus</i>	Rhincodontidae Z
		Unidentified fish (2 species)	Z
COOK ISLANDS		2020 January 13 (Turtles) (Inscribed ‘Rarotonga Cook Islands’) Set/8	
(stamps with white borders)			
1693	50c	Sea goldie, <i>Pseudanthias squamipinnis</i>	Serranidae B
1694	\$1	Emperor angelfish, <i>Pomacanthus imperator</i>	Pomacanthidae C
1695	\$5	Unidentified tiny fish	C
1697	\$10	Sergeant major, <i>Abudefduf saxatilis</i>	Pomacentridae C
(stamps without white borders)			
1701	MS	1701a like 1693, 1701b like 1694,	
1702	MS	1702a like 1697	
CZECH REPUBLIC		2021 November 10 (Christmas)	
3888	B	Stylized fish and other ornaments on tree branch	S
DJIBOUTI		2021 August 9 (Fish) Set/3, SS/1	
2500a	330fr	Freshwater angelfish, <i>Pterophyllum scalare</i>	Cichlidae A
2500b	330fr	Palette surgeonfish, <i>Paracanthurus hepatus</i>	Acanthuridae A
2500c	330fr	Ocellaris clownfish, <i>Amphiprion ocellaris</i>	Pomacentridae A
2500	MS3	(Sc# 2500a-c) Clown triggerfish, <i>Balistoides conspicillum</i>	Balistidae Z
2512	1000fr	(SS) Bridled parrotfish, <i>Scarus frenatus</i>	Scaridae A
2512	SS	Blue-cheeked butterflyfish, <i>Chaetodon semilarvatus</i>	Chaetodontidae Z
		Neon damselfish, <i>Pomacentrus coelestis</i>	Pomacentridae Z
FIJI		2019 September 16 (Groupers) Set/4	
1422	40c	Brown marbled grouper, <i>Epinephelus fuscoguttatus</i>	Serranidae A
1423	90c	Squaretail coral grouper, <i>Plectropomus areolatus</i>	Serranidae A
1424	\$1.10	Coral trout, <i>Plectropomus leopardus</i>	Serranidae A
1425	\$15	Camouflage grouper, <i>Epinephelus polyphekadion</i>	Serranidae A
FINLAND		2021 September 8 (Classic Finnish paintings booklet) Set/8	
1646	€1.85	“Winter Fishing” painting by Juho Rissanen (ice fishers-no fish)	R
Åland		2021 October 20 (New Year of the Tiger) Single	
452	€3	Cat playing with artificial fish hanging by string from ceiling	S
FRANCE		2021 September 10 (Art issue) Single	
6093	€2.56	“In my Humble Opinion”, drawing of stylized fish with person by Henrot	S
FRENCH POLYNESIA		2021 September 1 (2021 new coin designs) Set/6	
1270c	100fr	Humphead wrasse, <i>Cheilinus undulatus</i> in center of 20f coin	Labridae B
		Angelfish below wrasse on 20f coin	Pomacanthidae C
		Fish around edge of 20f coin	U
1270	BKLT	(Sc#1270a-f)	
FRENCH S. & ANTARCTIC TERRITORIES		2022 January 2 (Coral substrate-scattered islands)	
668	€1.10	Damselfish (?) above coral substrate	U
HONG KONG		2021 December 2 (Movie scene locations) Set/4	
2203	\$5	Santa with blow-up fish, Jumbo Floating Restaurant	S

JAPAN		2021 May 26 (National afforestation-Shimane) Set/5	
4504	¥84	Flying fish at edge of rose center square	Exocoetidae B
		2021 June 1 (Summer greetings) Set/20	
4507h	¥63	Stylized seahorse	Syngnathidae S
		Stylized yellow tang, <i>Zebrasoma flavescens</i>	Acanthuridae S
4507 MS	10	(Scott# 4507a-j)	
4508e	¥84	Japanese rice fish, <i>Oryzias latipes</i>	Adrianichthyidae A
4508 MS	10	(Scott# 4508a-j)	
		2021 July 1 (Sea life #5) Set/10	
4516		Sheet of 10	
4516a	¥84	Reef manta ray, <i>Mobula alfredi</i>	Myliobatidae A
4516b	¥84	Spotted eagle ray, <i>Aetobatus narinari</i>	Myliobatidae A
4516c	¥84	Double-lined fusilier, <i>Pterocaesio digramma</i>	Caesionidae A
4516d	¥84	Shortfin devil ray, <i>Mobula kuhlii</i>	Mobulidae A
		Double-lined fusilier, <i>Pterocaesio digramma</i>	Caesionidae A
4516e	¥84	Whale shark, <i>Rhincodon typus</i> (head only, body across sheet)	Rhincodontidae A
		Live sharksucker, <i>Echeneis naucrates</i> (on shark)	Echeneidae B
4516f	¥84	Whale shark, <i>Rhincodon typus</i> (head only, body across sheet)	Rhincodontidae A
		Golden trevally, <i>Gnathanodon speciosus</i>	Carangidae B
4516g	¥84	Whale shark, <i>Rhincodon typus</i> (part body only)	Rhincodontidae A
4516h	¥84	Golden trevally, <i>Gnathanodon speciosus</i>	Carangidae A
4516i	¥84	Giant trevally, <i>Caranx ignobilis</i>	Carangidae A
4516j	¥84	Whale shark, <i>Rhincodon typus</i>	Rhincodontidae A
		Jack (outline only)	Carangidae C
4516		(Scott# 4516a-j) Small replicas of some of above species	Z
		2021 July 7 (Pokémon cards) Set/20	
4517c	¥63	Pokémon card featuring Magikarp	S
4518c	¥84	Pikachu holding fishing rod in front of stylized fish	S
		2021 October 1 (Marine research 50y) Set/5	
4543 MS	10	(Scott# 4543a-j) Stylized fish at left by cliff	Z
		2021 November 11 (Delicious food-Negoya) Set/20	
4559h	¥63	Fish-shaped dough, devil cakes	X
4559 MS	10	(Scott#4559a-j) Stylized fish pattern on reverse	Z
4560a	¥84	Grilled eel on rice	U
4560 MS	10	(Scott 4560a-j) Stylized fish image at right end of sheet	Z
KOREA (SOUTH)		2021 May 17 (Fan paintings) Set/6	
2592b	380w	Pufferfish, <i>Takifugu sp.</i> , plants, precious vessels	Tetraodontidae B
2592	Blk 6	(Scott# 2592a-f)	
KYRGYZSTAN		2020 December 11 (Fish of L. Issyk-Kul) Set/3	
644	6s	Naked osman, <i>Gymnodiptychus dybowskii</i>	Cyprinidae A
645	66s	Issyk-Kul dace, <i>Leuciscus bergi</i>	Cyprinidae A
646	118s	Sevan trout, <i>Salmo ischchan</i>	Salmonidae A
LIBERIA		2020 November 30 (Dugongs) Set/4, SS/1	
3574a	\$300	Golden trevally, <i>Gnathanodon speciosus</i> with dugong	Carangidae B
3574c	\$300	Same species	Carangidae B
3574d	\$300	Same species	Carangidae B
3596	SS \$1200	Same species	Carangidae B
		2020 November 30 (Water birds) Set/4, SS/1	
3602 SS		Fish in beak of white pelican	Z

MALAYSIA		2020 June 18 (Marine life)	Set/5, SS/1	
1856	\$1.50	Whale shark, <i>Rhincodon typus</i>	Rhincodontidae	A
1858	\$1.90	Golden trevally, <i>Gnathanodon speciosus</i> with dugong	Carangidae	B
MONGOLIA		2021 October 26 (Mongolia admission to UN 60y)	Set/6	
2976f	1000t	Sustainable fisheries goal (stylized fish)		S
NORWAY		2021 June 11 (Hunters & Anglers Assoc.- 150y)	Set/2	
1922	24k	Atlantic salmon, <i>Salmo salar</i> (head and part body), fisher	Salmonidae	B
OMAN		2021 October 12 (Coral reef)	Set/4, SS/4, SS/1	
675c	200b	Unidentified fish above plate coral		U
675d	500b	Unidentified fish with lump coral		U
675e	SS	(Scott# 675a-d) Numerous fish above coral reef		U
PAPUA NEW GUINEA		2021 (Saltwater crocodile)	Set/4, SS/1	
2018	1.60k	Stylized fish above head of sleeping crocodile		S
PORTUGAL		2021 May 7 (Endangered species)	Set/1, SS/2	
4306	88c	Spanish minnowcarp, (tail missing) <i>Anaocypris hispanica</i>	Leuciscidae	A
4307	SS2	(Scott# 4306-07a) <i>Anaocypris hispanica</i>	Leuciscidae	Z
		2021 June 16 (Discovery of Antarctica 200y)	Set/2, SS/1	
4323	SS €2.5	Fish (LR) with whales, below iceberg with penguins, seals & birds		U
		2021 April 17 (Archbishops of Braga)	Set/3, SS/1	
4357	54c	Fish in arms (left one), portrait of Archbishop Nogueira		U
		2021 August 26 (UN decade of ocean sciences for sustainable development)	Set/2	
4359	84c	Stylized fish in nets		S
4360	€1	Stylized fish swimming free		S
SAINT PIERRE & MIQUELON		2022 February 5 (Fishing boats)		
1115	€1.70	Fishing trawler 'Savoyard' (no fish)		
SAINT THOMAS AND PRINCE		2018 March 13 (Sharks)	Set/4, SS/1	
3513a	31d	Sicklefin lemon shark, <i>Negaprion acutidens</i>	Carcharhinidae	A
3513b	31d	Copper shark, <i>Carcharhinus brachyurus</i>	Carcharhinidae	A
3513c	31d	Great white shark, <i>Carcharodon carcharias</i>	Lamnidae	A
3513d	31d	Caribbean roughshark, <i>Oxynotus caribbaeus</i>	Oxynotidae	A
3533	SS 124d	Basking shark, <i>Cetorhinus maximus</i>	Cetorhinidae	A
3533	SS	Tiger shark, <i>Galeocerdo cuvier</i>	Carcharhinidae	Z
		2018 March 13 (Fish)	Set/4, SS/1	
3514a	31d	Ram cichlid, <i>Mikrogeophagus ramirezi</i>	Cichlidae	A
3514b	31d	Angelfish (freshwater), <i>Pterophyllum scalare</i>	Cichlidae	A
3514c	31d	Guppy, <i>Poecilia reticulata</i>	Poeciliidae	A
3514d	31d	European perch, <i>Perca fluviatilis</i>	Percidae	A
3534	SS 124d	Domesticated goldfish, <i>Carassius auratus auratus</i>	Cyprinidae	A
		Siamese fighting fish, <i>Betta splendens</i>	Osphronemidae	Z
		Oscar, <i>Astronotus ocellatus</i> (head only)	Cichlidae	Z
SAINT VINCENT		2020 October 8 (Corals)	Set/4, SS/1	
4191		(Scott# 4191a-d) Stylized fish (3 types)		Z
4192	SS	Stylized fish (2 types)		Z
SENEGAL		2016 April 25 (Evolution of the fishery)	Set/5	
1728a	100fr	Fish in front of dugout canoe, fisher paddling		U

SENEGAL (continued)

1728b	200fr	Large fish being speared in nets lifted with large boat		U
1728c	250fr	Fish jumping out of water, fishers in dugout with nets		U
1728d	450fr	Tiny fish in net held by fisher		U
1728e	500fr	Large stylized fish held by fisher with large fishing boat in background		S

SIERRA LEONE**2019 January 30** (Scouts)

5178b 12500Le Scouts with fishing rod and rowboat (no fish)

2019 January 30 (Corals)5189 SS 50000Le Doctorfish tang, *Acanthurus chirurgus* Acanthuridae Z**2019 Mar 28** (Kingfishers)

5255c 12500Le Fish in beak of common kingfisher U

5263 SS 50000Le Fish in beak of giant kingfisher U

2019 Mar 28 (Animals affected by global warming)5259a 12500Le Orangespotted filefish, *Oxymonacanthus longirostris* Monacanthidae A5259d 12500Le Atlantic cod, *Gadus morhua* Gadidae A**2019 Mar 28** (WWF-stamp on stamp)5272c 9200Le French angelfish, *Pomacanthus paru* (Antigua #1009, s-o-s) Pomacanthidae A5282 SS 15000Le Porkfish, *Anisotremus virginicus* (Antigua #1010, s-o-s) Haemulidae A**SINGAPORE****2021 March 26** (Hawker culture) Set/4

2069 90c Fish head and other foods S U

2021 Apr 23 (Aquarium fish) Set/4, MS/42071 \$1.40 Banded leporinus, *Leporinus fasciatus* Anostomidae A2072 \$1.50 Neon tetra, *Paracheirodon innesi* Characidae A2073 \$3 Spotfin hatchetfish, *Thoracocharax stellatus* Gasteropelecidae A2074 \$5 Black tetra, *Gymnocorymbus ternetzi* Characidae A

2075 MS (Scott 2075a-d) like 2071-4 with embossing

2021 July 27 (Diplomatic relations with Sri Lanka 50y) Set/2, SS/22096 \$1.40 Melon butterflyfish, *Chaetodon trifasciatus*, coral reef Chaetodontidae BSargeant major, *Abudefduf saxatilis*, coral reef Pomacentridae C

2096a SS (Scott#2095-6)

SINT MAARTEN**2021 July 4** (Underwater world) Set/10193 Yellow goatfish, *Mulloidichthys martinicus* (at bottom) Mullidae Z193a 190c Yellow stingray, *Urobatis jamaicensis* Urotrygonidae ASargeant major, *Abudefduf saxatilis* (on label) Pomacentridae Z

Grouper (on label) Serranidae Z

193b Blue-cheeked butterflyfish, *Chaetodon semilarvatus* (on label) Chaetodontidae Z193c 190c Lined seahorse, *Hippocampus erectus* Syngnathidae A

Butterflyfish (head view, on label) Chaetodontidae Z

Blue striped grunt, *Haemulon sciurus* (on label) Haemulidae Z193d 190c Spot-fin porcupinefish, *Diodon hystrix* (on label) Diodontidae Z193e 190c Black grouper, *Mycteroperca bonaci* Serranidae ASquirrelfish, *Holocentrus sp.* (tiny) (on label) Holocentridae Z193f 190c Longspine squirrelfish, *Holocentrus rufus* (on label) Holocentridae Z193g Vermillion rockfish, *Sebastes miniatus* (on label) Sebastidae Z193h French angelfish, *Pomacanthus paru* (on label) Pomacanthidae Z

Grouper (on label) Serranidae Z

193i 190c Tiger shark, *Galeocerdo cuvier* Carcharhinidae AFoureye butterflyfish, *Chaetodon capistratus* (on label) Chaetodontidae ZSquirrelfish, *Myripristis sp.* (on label) Holocentridae Z

SOUTH GEORGIA & SOUTH SANDWICH ISLANDS 2021 November 9 (Blue Belt Programme)				
652	70p	Patagonian toothfish, <i>Dissostichus eleginoides</i>	(with wf)	Nototheniidae A
656a	70p	Same species	(without wf)	Nototheniidae A
656	MS 4	(Sc# 656a-d)	Stylized fish in border entitled Sustainable Fisheries Management	Z S
SRI LANKA 2021 July 27 (Diplomatic relations with Singapore-50y) Set/2, SS/2				
2273	15r	Melon butterflyfish, <i>Chaetodon trifasciatus</i>	above coral reef	Chaetodontidae B
2274a	SS2	(Scott# 2273-4)		
SURINAM 2021 October 6 (North American fish) Set/12				
1634a	\$9	Humpback chub, <i>Gila cypha</i>		Leuciscidae A
1634b	\$11	Arroyo chub, <i>Gila orcuttii</i>		Leuciscidae A
1634c	\$12	Roundtail chub, <i>Gila robusta</i>		Leuciscidae A
1634d	\$13	Hitch, <i>Lavinia exilicauda</i>		Cyprinidae A
1634e	\$14	Peamouth, <i>Mylocheilus caurinus</i>		Leuciscidae A
1634f	\$15	Hornyhead chub, <i>Nocomis biguttatus</i>		Leuciscidae A
1634g	\$16	River chub, <i>Nocomis micropogon</i>		Leuciscidae A
1634h	\$17	Golden shiner, <i>Notemigonus crysoleucas</i>		Leuciscidae A
1634i	\$18	Flathead chub, <i>Platygobio gracilis</i>		Leuciscidae A
1634j	\$19	Colorado pikeminnow, <i>Ptychocheilus lucius</i>		Leuciscidae A
1634k	\$20	Creek chub, <i>Semotilus atromaculatus</i>		Leuciscidae A
1634l	B	Central stoneroller, <i>Campostoma anomalum</i>		Leuciscidae A
TANZANIA 2018 May 17 (Tingatinga art) Set/8. SS/1				
2838d	1600sh	Stylized art, artisan fishers in boat	(no fish)	
TONGA 2020 October 7 (Tourism definitives) Set/24				
1421	80s	Fiji barberi clownfish, <i>Amphiprion barberi</i>		Pomacentridae B
1432	2.2pa	Indo-Pacific sergeant, <i>Abudefduf vaigiensis</i>		Pomacentridae C
2021 May 24 (Smithsonian Institution items) Set/12				
1456c	40s	Little dragonfish, <i>Eurypegasus draconis</i>	(X-ray image)	Pegasidae S
TRISTAN DA CUNHA 2021 July 14 (Sharks)				
1217	45p	Bluntnose sixgill shark, <i>Hexanchus griseus</i>		Hexanchidae A
1218	70p	Great lanternshark, <i>Etmopterus princeps</i>		Etmopteridae A
1219	£1.10	Shortfin mako shark, <i>Isurus oxyrinchus</i>		Lamnidae A
1220	£1.50	Great white shark, <i>Carcharodon carcharias</i>		Lamnidae A
2021 November 29 (Blue Belt Programme) (with wf)				
1231	45p	Stylized fish on Tristan lobster stamp		S
1233	£1	Blue shark, <i>Prionace glauca</i>		Carcharinidae A
(without wf)				
1235a	45p	Stylized fish on Tristan lobster stamp		S
1235c	£1	Blue shark, <i>Prionace glauca</i>		Carcharinidae A
1235	MS 4	Stylized fish representing Sustainable Fisheries Management		Z
TUVALU 2021 March 1 (Gentle sea-horses) Set/4, SS/1				
1509a	\$2.50	Tiger tail seahorse, <i>Hippocampus comes</i>		Syngnathidae A
1509b	\$2.50	Big-belly seahorse, <i>Hippocampus abdominalis</i>		Syngnathidae A
1509c	\$2.50	Slender seahorse, <i>Hippocampus reidi</i>		Syngnathidae A
1509d	\$2.50	Pacific seahorse, <i>Hippocampus ingens</i>		Syngnathidae A
1510	SS	\$7 White's seahorse, <i>Hippocampus whitei</i>		Syngnathidae A
2021 July 5 (Marine life) Set/4				
1531b	\$2.50	Domesticated goldfish, <i>Carassius auratus auratus</i>		Cyprinidae A

TUVALU (continued)

		2021 October 11 (Tiger sharks)	Set/4, SS/1	
1540a	\$1	Tiger shark, <i>Galeocerdo cuvier</i> (head only pointing down)	Carcharhinidae	A
1450b	\$2	Same species (closeup of 4 teeth)	Carcharhinidae	A
1540c	\$3	Same species (head only pointing up)	Carcharhinidae	A
1540d	\$4	Same species (head view)	Carcharhinidae	A
1541	SS \$7	Same species (head profile, part body)	Carcharhinidae	A
		2021 October 11 (Coral)	Set/5, SS/1	
1542	MS (Scott# 1542a-e)	Pink skunk clownfish, <i>Amphiprion perideraion</i>	Pomacentridae	Z
		Yellowbelly damsel, <i>Amblyglyphidodon leucogaster</i>	Pomacentridae	Z

UNITED NATIONS

Geneva		2022 March 18 (Endangered species)	Set/4	
716	1.50fr	Manta de monk, <i>Mobula munkiana</i>	Mobulidae	A

UNITED STATES

		2022 May 4 (Eugenie Clark, Ichthyologist)	Single	
5693	(58c)	Lemon shark, <i>Negaprion brevirostris</i> and Clark	Carcharhinidae	B

WALLIS & FUTUNA

		2021 December 20 (Sharks and their teeth)	Set/3	
839a	65fr	Tawny nurse shark, <i>Nebrius ferrugineus</i> and teeth	Ginglymostomatidae	A
839b	95fr	Whitetip reef shark, <i>Triaenodon obesus</i> and teeth	Carcharhinidae	A
839c	100fr	Blacktip reef shark, <i>Carcharhinus melanopterus</i> , teeth	Carcharhinidae	A

wf= white frame

BEEPOST Issues

Don Wright BU 243

Stamperija & partners have launched a private post venture BEEPOST, a private international postal service, in Lithuania, Estonia and Finland. They have issued a large number of stamps in various values and formats. Their stamps can be used as postage for BeePost shipments. More information at: <https://beepost.shop/about-us/>.

The stamps all show various bees, wasps or ants that are labelled. "Honey Insects" although not all produce honey. Each of the three countries involved show different insects on their stamps. They are being issued in sheets of 10 values, as s/t souvenir sheet of 10 values, as sheets of 10 of one design or of 10 designs. The combinations sell for a variety of prices ranging from €1.20 to €309.

As to how these issues will be treated philatelically, this new organization can be considered to be similar to FEDEX or UPS. Catalog status to be determined.



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MARINE INVERTEBRATES

Editor

Peter Voice, BU1863



This list compiles every marine invertebrate and select freshwater and terrestrial invertebrates (snails, land crabs, etc.) published in the Linn's Stamp News Updates from the September 2022 to the October 2022 issue. Note that there were no relevant issues in the August 2022 Linn's.

New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ANTIGUA				
2021 April 28 (Marine Life) Set/4+SS				
3617a-d and 3818	various	Marine fish with stylized coral and other invertebrates in bkgd	Indet.	CU
COOK ISLANDS				
2021 May 5 (Items in Smithsonian Institution Collection) Set/6				
1732e	10c	Corals	Various	A
DJIBOUTI				
2021 November 1 (Marine Biodiversity) Set/6 +SS				
2573b	250fr	Common Octopus, <i>Octopus vulgaris</i>	Octopodidae	A
2573e	250fr	Northern Sea Nettle, Brown Jellyfish, <i>Chrysaora melanaster</i>	Pelagiidae	A
UNITED STATES				
2022 August 3 (National Marine Sanctuaries) Set/16				
5713g	\$0.60	Elkhorn Coral, Florida Keys, <i>Acropora palmata</i>	Acroporidae	A
5713k	\$0.60	Young rockfish in the reef in Cordell Bank	Indeterminate	CU
5713l	\$0.60	Atlantic sea nettles in Gray's Reef, <i>Chrysaora quinquecirrha</i>	Pelagiidae	A
5713o	\$0.60	Rose Atoll, American Samoa	Indeterminate	CU

Notes:

*Nevis issued Sea Turtles (Scott# 2022a-d and 2023a-b) on January 20, 2021, and Butterfly fish (Scott#2040a-h and 2041a-b) on November 8, 2021. Both issues have stylized depictions of corals and other marine invertebrates in the selvage.

Some Upcoming Issues of Interest:



First Day Cover for the Mediterranean Seashells Set, Israel. Issued Sept. 13, 2022.



ENTOMOLOGY

Editors

Don Wright BU 243
and Jose Reis BU 1889



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
CHINA				
		2022 November 5		
	\$20	Golden Kaiser-I-Hind, <i>Teinopalpu aureus</i> Mell	PAP, Papilioninae	B
COOK ISLANDS				
		2021 September 24		
	a, \$4 on \$1.	Western Honeybee, <i>Apis mellifera</i> L. #1493 surch	API, Apinae	A
CZECH REPUBLIC				
		2022		
	a, B	Willow-herb Hawkmoth, <i>Proserpinus proserpina</i> Pallas	SPH, Macroglossinae	A
	b, B	Madder Hawkmoth, <i>Hyles gallii</i> Rottemburg. Adult & larva	SPH, Macroglossinae	A
	c, B	Spurge Hawkmoth, <i>Hyles euphorbiae</i> L. Larva & adult	SPH, Macroglossinae	A
	d, B	Privet Hawkmoth, <i>Sphinx ligustri</i> L. Larva & adult	SPH, Sphinginae	A
	e, B	Lime Hawkmoth, <i>Mimas tiliae</i> L. Adult & larva	SPH, Smerinthinae	A
	f, B	Poplar Hawkmoth, <i>Laothoe populi</i> L. Adult & larva	SPH, Smerinthinae	A
	g, B	Pink-spotted Hawkmoth, <i>Agrius convolvuli</i> L. Larva & adult	SPH, Sphinginae	A
	h, B	Small Elephant Hawkmoth, <i>Deilephila porcellus</i> L. Larva & adult	SPH, Macroglossinae	A
		Margin: Death's Head Hawkmoth, <i>Acherontia atropos</i> L.,	SPH, Sphinginae	Z
		2022 May 18 (150 Years Czech Beekeeper Assoc.)		
	23k	Western Honeybee, <i>Apis mellifera</i> L. With hives	API, Apinae	B
DENMARK				
		2022 September 21		
	12kr	Hermit Beetle, <i>Osmoderma eremita</i> Scopoli	SCA, Trichiinae	A
JAPAN				
		2022 August 10		
	c, ¥84	Yonbaru Long-armed Scarab, <i>Cheirotonus jambar</i> Kurosawa	SCA, Euchirinae	A
KAZAKHSTAN				
		2022 October 5		
	a&d, 1800t	Emperor Dragonfly, <i>Anax imperator</i> Leach	AES, Aeshninae	A
	b&c, 1800t	Giant Ox Armored Cricket, <i>Damalacantha vacca</i> Fisher von Waldheim	TET, Bradyporinae	A
		Margin UL, UR & MR: BUTTERFLIES	Nymphalidae	Z
		ML, LL & LR: DRAGONFLIES	Odonata	Z
MONACO				
		2022 June 23		
	€1.65	Western Honeybee, <i>Apis mellifera</i> L. With hives	API, Apinae	B
NETHERLANDS				
		2022 August 15		
	j, 1st	Blue-black Dung Beetle, <i>Geotrupes stercorarius</i> L.	GEOT, Geotrupinae	A
PAPUA NEW GUINEA				
		2022 November 13		
	a, 15k	Blue-banded Dragonfly, <i>Brachydiplax longipennis</i> Burmeister	LIB, Brachydiplacinae	A
	b, 15k	7-spotted Ladybird, <i>Coccinella septempunctata</i> L	COC, Coccinellinae	A
	c, 15k	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
	d, 15k	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A
		Margin: Beetle	Coleoptera	Z
	15k	Eastern Lubber Grasshopper, <i>Romalea microptera</i> Palisot de Beauvois	ROM, Romaleinae	A
		Margin: 6-spot Burnet, <i>Zygaena filipendulae</i> L.	ZYG, Zygaeninae	Z

ROMANIA**2022 August 31**

- 4L Orchid Mantid, *Hymenopus coronatus* Olivier, ♂ HYM, Hymenopodinae A
 6.50L Malaysian Dead Leaf Mantid, *Deroplatys truncata* Guerin-Meneville MAN, Deroplatyinae A
 10L Jeweled Flower Mantis, *Creobroter gemmatus* Stoll HYM, Hymenopodinae A
 10.50L Orchid Mantid, *Hymenopus coronatus* Olivier, ♀ HYM, Hymenopodinae A

TAJIKISTAN**2022 August 1** (Mushrooms & Stylized Dragonflies)

- a, 10s Dragonfly Odonata C
 b, 10s Dragonfly & Toad Odonata C
 c, 10s Red-Spotted Purple, *Limenitis arthemis astyanax* Fabr. & Porcupine NYM, Limenitidinae C
 d, 10s Tiger Longwing, *Heliconius hecale* Fabr. NYM, Heliconiinae C

UZBEKISTAN**2022 September 2** 2021 Date on stamp.

- 7600s. Western Honeybee, *Apis mellifera* L API, Apinae B

BEYOND THE CATALOGS:

Stamps not recognized by standard catalogs and many are of doubtful validity. If you wish further details on the following entries, contact Don at: aa2f@arrl.net

CENTRAL AFRICA 2022-04-20 (Stamperija CA-220302a&b). Beetles. S/T of 4 & SS/1

2022 04-20 (Stamperija CA-220316a&b). Butterflies. S/T of 4 & SS/1

2022 04-20 (Stamperija CA-220317a&b). Mosquito, malaria. S/T of 4 & SS/1

CHAD 2022-08-09 (Stamperija TCH-220113b2). Dragonfly. Frogs. s/s OF 1**DJIBOUTI** 2022-03-30 (Stamperija DJB-220204a, b1-2). Beetles, Butterflies. S/T of 3, 2x SS/1

2022-03-30 (Stamperija DJB-220205b1). Flower, Butterfly. SS/1

2022-08-01 (Stamperija DJB-220401a, b2). Beetles. S/T of 3 & SS/1

2022-08-01 (Stamperija DJB-220424b1-2). Baden Powell & Butterflies. 2x SS/1

GUINEA 2022-01-25 (Stamperija GU-220109b). Butterflies. SS/1

2022-01-25 (Stamperija GU-220110a&b, Wasps. S/T of 4 & SS/1

2022-03-25 (Stamperija GU-220216a&b). Butterflies. S/T of 4 & SS/1

2022-03-25 (Stamperija GU-220217a&b). Wasps & Bees. S/T of 4 & SS/1

GUINEA-BISSAU

2022-09-30 (Stamperija GB-220114a&b). Insects in birds' beaks. S/T of 3 & SS/1

2022-09-30 (Stamperija GB-220116a&b). Wasps. S/T of 3 & SS/1

2022-09-30 (Stamperija GB-220117a&b). Moths. S/T of 3 & SS/1

2022-09-30 (Stamperija GB-220118a&b). Beetles. S/T of 3 & SS/1

2022-09-30. (Stamperija GB-220127a). Butterfly. Fast Trains S/T of 3

LIBERIA 2022-06-22 (Stamperija LIB-220208a,b1-2). Insects in birds' beaks. S/T of 4 & 2x SS/1**MOZAMBIQUE** 2022-04-25 (Stamperija MOZ-220210a,b1-2). Butterflies. S/T of 4 & 2x S/S of 1**NIGER** 2022-03-15 (Stamperija NIG-220136a. Butterfly & Paul Harris. S/T of 4**SIERRA LEONE** 2022-06-23 (Stamperija SRL-220303a&b). Insects. S/T of 6 & SS/1

2022-06-23 (Stamperija SRL-220319a&b). Butterflies. S/T of 6 & SS/1

2022-06-23 (Stamperija SRL-220320a&b). Mosquito, malaria. S/T of 6 & SS/1

2022-03-25 (Stamperija SRL-220135a, b1-2), Baden Powell, Butterflies. S/T of 4, 2x SS/1

2022-08-31 (Stamperija SRL-220402a, b1-2). Insects, medical plants. S/T of 4, 2x SS/1

TOGO 2022-06-10 (Stamperija TG-220217a, b1-2). Moths. S/T of 4 & 2x SS/1

2022-06-10 (Stamperija TG-220219a, b1-2). Wasps. S/T of 4 & 2x SS/1

2022-09-01 (Stamperija TG-220314a, b1-2). Butterflies. S/T of 3 & 2x SS/1

2022-09-0s (Stamperija TG-22,0316a,b1-2). Malaria mosquito. S/T of 3 & 2x SS/1



PALEONTOLOGY

Editor

Michael Kogan, BU 1863



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
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Official Stamps

2022 April 8 (Prehistoric animals)

ARMENIA

Reported in 71(2) Scott #1314-1315

More details: http://www.paleophilatelie.eu/description/stamps/armenia_2022.html

AUSTRALIA

2022 September 5 (Dinosaurs)

\$1.10 †*Diamantinasaurus*

\$1.10 †*Australovenator*

\$1.10 †Elaphrosaurine

\$1.10 †*Kunburrasaurus*

\$1.10 †*Ferrodraco*

†Megaraptoridae

†Anhangueridae

These stamps were issued in several formats: singles, Sheets of 50, Mini-Sheet of 5, self-adhesive booklets of 10. The Mini-Sheet recalls the Mini-Sheet from 1993, both were based on illustrations of Peter Trustler.

HONG KONG

2022 November 15 (Dinosaurs)

\$2.20 †*Tyrannosaurus*

\$2.40 †*Spinosaurus*

\$3.70 †*Triceratops*

\$4.00 †*Diplodocus*

\$5.40 †*Brachiosaurus*

\$5.50 †*Allosaurus*

†*Hesperosaurus*

†Tyrannosauridae

†Spinosauridae

†Ceratopsidae

†Diplodocidae

†Brachiosauridae

†Allosauridae

†Stegosauridae

NEW ZEALAND

2022 November 2 (Women in Science)

\$3.00 Joan Wiffen (1922-2009) palaeontologist

The skull of the Mosasaur *Prognathodon* shown on the background of the stamp.

PERU

2022 November 14 (Prehistoric animals: Plesiosaur)

\$7.60 fossilized bone and reconstruction of Plesiosaur

SLOVAKIA

2022 September 9 (Important Fossils from Slovakia)

€0.75 fossil of seal *Devinophoca claytoni*

€0.75 fossil of gastropod *Vexillum svagrovskyi*

Phocidae

Costellariidae

SURINAM

2022 November 2 (Dinosaurs)

C (SRD 66.50) *Brachiosaurus*

SRD 40.00 *Stegosaurus*

SRD 50.00 *Triceratops*

SRD 60.00 *Tyrannosaurus rex*

SRD 100.00 *Velociraptor*

†Brachiosauridae

†Stegosauridae

†Ceratopsidae

†Tyrannosauridae

†Dromaeosauridae

---- Stamps of Stamperija ----

Note: Since 2012 the agency issues too many stamps per year on behalf of a dozen of their clients for every possible popular topic, prehistoric animals. In most of the cases these stamps have no relation to the issuing country. Reconstructions of the prehistoric animals are often not accurate. These stamps are not recommended for serious collectors and are undesired at serious philatelic exhibits. According to rekvizitai.vz.lt website, the net profit of Stamperija fell from almost €100k in 2017 to less than €9k in 2021. Number of employees reduce by 30% in the same time period too, from 16 in 2018 to 11 in 2022. Hopefully, they will close their business soon.



<https://rekvizitai.vz.lt/en/company/stamperija/turnover>

<https://rekvizitai.vz.lt/en/company/stamperija/number-of-employees/>

CENTRAL AFRICAN REPUBLIC

08 31 2022 **Fossils** (*Lycoptera davidi*; *Todites denticulatus*; *Crotalocephalus gibbus*; *Paroodectes feisti*, *Ichthyosaurus communis*) MS/3, SS/1

08 31 2022 **Flying dinosaurs** (*Pterodactylus longicaudus*; *Dimorphodon macronyx*; *Dsungaripterus weii*; *Quetzalcoatlus northropi*, *Pteranodon longiceps*) MS/4, SS/1 [*1]

20 04 2022 **Dinosaurs** (*Dromaeosaurus albertensis*; *Tyrannosaurus bataar*; *Psittacosaurus mongoliensis*; *Arrhinoceratops brachyops*, *Indosuchus raptorius*) MS/4, SS/1

20 04 2022 **Prehistoric mammals** (*Diprotodon australis*; *Arsinoitherium zitteli*; *Elephas primigenius*; *Coryphodon eocaenus*, *Deinotherium giganteum*) MS/4, SS/1

20 04 2022 **Extinct birds** (*Argentavis magnificens*; *Osteodontornis orri*; *Phorusrhacos longissimus*; *Palaelodus ambiguus*, *Gastornis gigantea*) MS/4, SS/1

25 02 2022 **140th anniversary of Charles Darwin** (Charles Darwin 1809–1882, *Cryolophosaurus ellioti*; Euclase; Red beryl; *Stegosaurus stenops*, Charles Darwin 1809–1882, *Parasaurolophus walkeri*) MS/4. SS/1

25 02 2022 **Meteorites** (Brahin meteorite; *Dimetrodon limbatus*, Chondrite meteorite Type L6W2; ALH 84001 meteorite, *Agathaumas sylvestris*; Esquel and Imilac meteorites; Chelyabinsk meteor Background

info: *Apatosaurus ajax*, Bondoc meteorite, Nantan meteorite) MS/4, SS/1

25 02 2022 **Extinct species** (*Machaeroides eothen*; *Deinotherium proavum*; *Uintatherium anceps*; *Notharctus tenebrosus*, *Megacerops coloradensis*) MS/4, SS/1

25 02 2022 **Prehistoric humans** (Palaeolithic hunters, *Homo sapiens*; Java Man, *Homo erectus erectus*; Neanderthal, *Homo neanderthalensis*, Java Man, *Homo erectus erectus*) MS/4, SS/1

25 02 2022 **Prehistoric water animals** (*Metriorhynchus brachyrhynchus*; *Otodus megalodon*; *Basilosaurus cetoides*; *Cryptoclidus oxoniensis*, *Mosasaurus giganteus*) [4v 4000 FCFA]

20 02 2022 **Dinosaurs** (*Deinonychus antirrhopus*; *Ultrasaurus tabriensis*; *Troodon formosus*, *Dilophosaurus wetherilli*) MS/3, SS/1

20 02 2022 **Flying dinosaurs** (*Quetzalcoatlus northropi*; *Pterodactylus antiquus*; *Pterodactylus simus*) MS/3, SS/1

CHAD

09 08 2022 **Fossils** (Ammonite, *Lates niloticus*; *Phyllohallus lumbricarius*, *Aegoceras planicosta*; *Labrax schizurus*, *Microbrachis pelikani*, *Dicropteris laciniata*, *Aegasteroceras sagittarium*, *Aegoceras planicosta*, *Microbrachis pelikani*) Background info: *Lates gibbus*, *Rhodymenites ciliatus* MS/3, 2 SS/1

DJIBOUTI

01 08 2022 **Meteorites** MS/3 (Mundrabilla Meteorite; *Velociraptor mongoliensis*, Mbozi; Maralinga, Esquel Meteorite, Iron meteorite) MS/3, 2 SS/1

01 08 2022 **Extinct mammals** (*Chasmaporthetes lunensis*; *Mammut americanum*; *Thylacosmilus atrox*, *Inopa rapax*, *Uintatherium anceps*) MS/3, 2 SS/1

25 04 2022 **140th anniversary of Charles Darwin** (Charles Darwin 1809–1882; *Parasaurolophus walkeri*; *Pachycephalosaurus wyomingensis*; *Diplodocus longus*, Charles Darwin 1809–1882, *Tyrannosaurus rex*) MS/4, SS/1

30 03 2022 **Dinosaurs** (*Apatosaurus ajax*; *Styracosaurus albertensis*; *Cryolophosaurus ellioti*, *Dilophosaurus wetherilli*, *Heterodontosaurus tucki*) MS/3, 2 SS/1

GUINEA

25 03 2022 **Meteorites and dinosaurs** (*Gargoyleosaurus parkpinorum*, Canyon Diablo Meteorite; *Argentinosaurus huinculensis*, NWA 869 Meteorite; *Torosaurus latus*, Sikhote-Aline Meteorite; *Parasaurolophus walkeri*, Campo del Cielo Meteorite, *Quetzalcoatlus northropi*, Chelyabinsk Meteorite) MS/4, SS/1

25 03 2022 **Prehistoric water animals** (*Archelon ischyros*; *Muraenosaurus leedsii*; *Plesiosaurus dolichodeirus*; *Peloneustes philarchus*, *Mammalodon colliveri*) MS/4, SS/1

25 03 2022 **Flying dinosaurs** (*Pteranodon longiceps*; *Pterodactylus antiquus*; *Sordes pilosus*; *Pterodactylus longicaudus*, *Pteranodon longiceps*) MS/4, SS/1 [*1]

25 01 2022 **140th anniversary of Charles Darwin** (Charles Darwin 1809–1882, *Triceratops horridus*; *Spinosaurus aegyptiacus*; HMS Beagle, *Quetzalcoatlus northropi*, Charles Darwin 1809–1882, HMS Beagle) MS/4, SS/1

GUINEA-BISSAU

30 09 2022 **Extinct animals** (*Megaloceros giganteus*; *Mammuthus primigenius*; *Coelodonta antiquitatis*, *Bison latifrons*) MS/3, SS/1

30 09 2022 **Dinosaurs** (*Stegosaurus stenops*; *Cetiosaurus oxoniensis*; *Liliensternus liliensterni*, *Ohmdenosaurus liasicus*) MS/3, SS/1

LIBERIA

22 06 2022 **Flying dinosaurs** (*Ornithocheirus mesembrinus*; *Dimorphodon macronyx*; *Pteranodon longiceps*; *Pterodactylus antiquus*, *Quetzalcoatlus lawsoni*, *Pteranodon longiceps*, *Eudimorphodon ranzii*) MS/4, 2 SS/1 [*1]

22 06 2022 **Extinct animals** (*Merychippus paniensis*; *Coelodonta antiquitatis*; *Paraceratherium bugtiense*; *Platybelodon danovi*, *Megacerops coloradensis*, *Metamynodon planifrons*) MS/4, 2 SS/1

MOZAMBIQUE

25 04 2022 **Dinosaurs** (*Emausaurus ernsti*; *Euparkeria capensis*; *Huayangosaurus taibaii*) Background info: *Dracopelta zbyzewskii*, *Hadrosaurus foulkii*, *Albertosaurus sarcophagus*, *Datousaurus bashanensis*) MS/4, 2 SS/1

NIGER

15 03 2022 **Dinosaurs** (*Carnotaurus sastrei*; *Chialingosaurus kuani*; *Carcharodontosaurus saharicus*; *Apatosaurus ajax*, *Muttaborrasaurus langdoni*) MS/4, SS/1

15 03 2022 **Extinct mammals** (*Acrophoca longirostris*; *Megacerops coloradensis*; *Andrewsarchus mongoliensis*; *Megacerops coloradensis*, *Hoplophoneus cerebralis*) MS/4, SS/1

15 03 2022 **Prehistoric humans** (*Australopithecus africanus*; *Homo sapiens*; *Homo erectus erectus*; *Homo neanderthalensis*) MS/4, SS/1

SIERRA LEONE

23 06 2022 **Big dinosaurs** (*Camarasaurus supremus*; *Therizinosaurus cheloniformis*; *Nodosaurus textilis*; *Jaxartosaurus aralensis*; *Centrosaurus apertus*; *Shantungosaurus giganteus*, *Metriacanthosaurus parkeri*) MS/6, SS/1

23 06 2022 **Small dinosaurs** (*Liliensternus liliensterni*; *Pyroraptor olympius*; *Megapnosaurus rhodesiensis*; *Dryosaurus altus*; *Velociraptor mongoliensis*; *Eoraptor lunensis*, *Ornitholestes hermanni*) MS/6, SS/1

25 03 2022 **140th anniversary of Charles Darwin** (Charles Darwin 1809–1882, HMS Beagle; *Spinosaurus aegyptiacus*; *Stegosaurus stenops*, *Triceratops horridus*) MS/4, 2 SS/1

25 03 2022 **Dinosaurs** (*Chasmosaurus belli*; *Velociraptor mongoliensis*; *Triceratops horridus*; *Carcharodontosaurus saharicus*, *Kentrosaurus aethiopicus*, *Ultrasaurus tabriensis*) MS/4, 2 SS/1

25 03 2022 **Prehistoric humans** (*Homo neanderthalensis*; *Australopithecus africanus*; *Homo sapiens*; Paleolithic hunter-gatherers, Neolithic hunters-gatherers, *Homo erectus erectus*) MS/4, 2 SS/1

25 03 2022 **Prehistoric water animals** (*Xenacanthus decheni*; *Nautilidae*; *Bothriolepis canadensis*; *Eurhinodelphis longirostris*, *Bothriolepis canadensis*, *Cryptoclidus oxoniensis*) MS/4, 2 SS/1

25 03 2022 **Fossils** (*Callipteryx speciosus*; *Scatophagus frontalis*; *Ephippus oblongus*; *Naseus rectifrons*, *Serranus ventralis*, *Ephippus oblongus*) MS/4, 2 SS/1

TOGO

01 09 2022 **Prehistoric humans** (*Homo sapiens*; *Homo neanderthalensis*, *Homo heidelbergensis*, *Homo erectus*) MS/3, 2 SS/1

01 09 2022 **Flying dinosaurs** (*Pterodactylus longicaudus*; *Dimorphodon macronyx*; *Archaeopteryx lithographica*, *Dimorphodon macronyx*, *Pterodaustro guinazui*) MS/3, 2 SS/1 [*1]

01 09 2022 **Fossils** MS/3 (*Osmeroides lewesiensis*; *Albertia speciosa*; *Alosa alosa*, *Trionyx henrici*, *Bothriospondylus suffossus*) MS/3, 2 SS/1

Other Stamps to consider

FRENCH S. & ANTARCTIC TERRITORIES 2022 June 25 (Antarctic Explorers)

681-87 Booklet of 7

685 €1.50 Robert Falcon Scott. When Scott and his party's bodies were discovered, 16kg of *Glossopteris* tree (an extinct beech-like tree from 250 million years ago) fossils from Queen Maud Mountains were found next to their bodies, which they had dragged on hand sledges. These fossils allowed Marie Stopes to provide evidence for Eduard Suess, who suggested Antarctica had once been part of an ancient super-continent named Gondwanaland (now Gondwana).

MONACO 2022 September 6 (120th Anniversary of The Museum of Prehistoric Anthropology)

€1.65 – Prince Albert I, in the Museum of Prehistoric Anthropology on the background

ROMANIA 2022 November 11 (Emil Racovița, 75 years since his death)

Lei 10 - the portrait of the scientist at the age of adulthood is illustrated in the foreground, and on the background the ship of the Belgica Expedition, anchored between the shores of Antarctica.

Lei 10.50 - the portrait of the scientist Emil Racoviță at the age of senescence is reproduced, and in the background a image specific to caves.

RUSSIA 2022 July 22 (100th Anniversary of the Republic of Sakha (Yakutia)) SS/1

100r Mammoth sculpture depicted on the bottom side of the margin of the Souvenir Sheet. The statue located at the entrance of the Permafrost Institute in Yakutsk.

Personalized Stamps

Australia 2022 09 05 "Jurassic World Stamp Pack"

To celebrate both the movie Jurassic World and Australia Post Collecting Month Australian Post released a licensed stamp pack that contains 12 \$1.10 self-adhesive MyStamps, featuring ferociously exciting dinosaurs such as *Triceratops* and *T. rex*, and presenting stats for each.

Postmarks

Australia 2022 09 05 "Australian Dinosaurs" [FDC] *Australovenator*
[https://www.paleophilatelie.eu/images/fdc/australia_2022_fdc.jpg]

Czech Republic 2022 10 30 "20 years since the death of Prof. RNDr. Ivo Chlupac" commemorative Registration-labels. Trilobitomorph Chlupacaris dubia

Czech Republic 2022 10 17 "The important paleontological site Stránská skála, where 12 thousand years ago the so-called "sabre-toothed tiger" *Homotherium moravicum*" commemorative R-labels

Czech Republic 2022 10 05 "A reminder of the discovery of ammonites in the former sea in the locality of Hředle u Třeboce, where they lived approx. 92 million years ago" commemorative R-labels

India 2022 06 30 "Geo Heritage Parks of Rajasthan"

Rajasthan Postal Circle, issued a dozen commemorative covers and postmarks - "Geo Heritage Parks of Rajasthan", each one in quantity of 1,000.

Four of these covers and their postmarks show some fossils.

- Akal Fossil Wood Park, Jaisalmer. • Stromatolite Park, Bhojunnda, Chittofarh.
- Barr Conglomerate, Pali. • Stromatolite Park, Jhamarkotra, Udaipur.

Hong Kong 2022 11 15 "Dinosaurs" [FDC]

Tyrannosaurus and *Triceratops*

Adult and baby Sauropods

Peru 2022 11 14 "Plesiosaur" [FDC]

[https://www.paleophilatelie.eu/images/pm/peru_2022_pm_fdc.jpg]

Slovakia 2022 09 09 "Important Fossils from Slovakia" [FDC]

Fossil of prehistoric toad *Bufo priscus*

Microfossil of foraminifera

Fossil of seal *Devinophoca claytoni*

Future issues

Poland - set of 3 stamps "Dinosaurs" – postponed to November 2023

Kyrgyzstan - "Prehistoric animals of Kyrgyzstan", set of 3 stamps, postponed to 2023

Notes: [*1] - Flying dinosaurs is wrong term, as dinosaurs per definition are terrestrial animals. The flying reptiles called Pterosaurs. Flying dinosaurs is not a correct term to apply to the animals shown on these stamps. The animals pictured are pterosaurs. Pterosaurs are a group of flying reptiles in the Archosauria. Reptiles in the archosaurs include crocodiles, dinosaurs, and pterosaurs.

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