

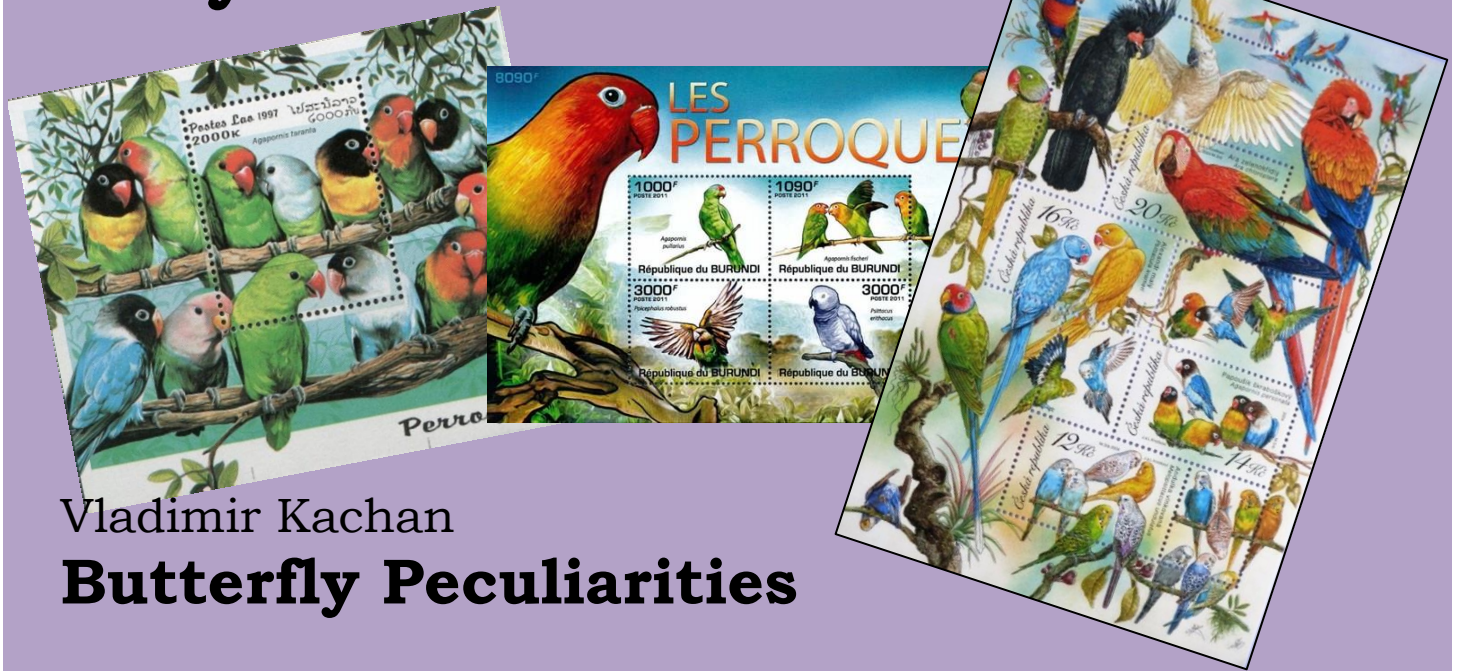
# BIOPHILATELY

OFFICIAL JOURNAL OF THE BIOLOGY UNIT OF ATA

MARCH 2015

VOLUME 64, NUMBER 1

## Polly Want a Souvenir Sheet?



Vladimir Kachan  
**Butterfly Peculiarities**

More Inside >>



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

Back copies of *Biophilately* are available from the Librarian. Copies of separate articles are available at a charge six cents per page. Please contact the individual associate editors if you have queries about the content of their columns.

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

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

Please send letters, comments on the journal, articles, or new material to the Editor (data above). The Publisher will handle requests for issues from the current year. Contact the Librarian (address above) for copies of all other issues.

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**PLEASE NOTE: Material for the next issue should be in the hands of the Editor before 15 May 2015.**

### FROM THE EDITOR'S DESK

The first issue of *Biophilately* for 2015 begins appropriately with new features, new personnel, and exciting news. I would like to welcome Michael Kogan from Munich, Germany as our new Associate Editor for Paleontology. Michael produces and operates an extensive website that deals with both Paleontology and Philately at the following address: <http://www.paleophilatelie.eu>. We have been listing this site in our Reference section for a couple years.

Dr. Hans-Peter Schultze, our former Associate Editor, will continue to contribute to the journal. He is stepping down because he is deeply involved in publishing on some paleontology research. Dr. Schultze took over the Paleontology section from Wallace Ashby in 2006, when Wally became ill. We greatly appreciate his contributions and assistance and hope to see some more articles from him in future editions.

We are thrilled to break the news that Don Wright, one of the Unit Directors and Associate Editor for Entomology, has been selected as American Topical Association 2015 Distinguished Topical Philatelist. See the announcement on page 4. Twenty-eight of the 122 DTP recipients to date have been members of the Biology Unit, so our Unit can be justly proud of its contribution to topical collecting.

In addition, we have more breaking news on page 5 regarding the approval by the American Philatelic Society for the Seattle Philatelic Exhibition (SEAPEX) to become a World Series of Philately national show. Your editor is President of the Board of SEAPEX and we here in Seattle are excited about this recognition and challenge. I invite all of our readers to come visit our show scheduled for 11–13 September 2015. See the article for details.

Speaking of WSP shows, the National Topical Stamp Show is coming to the Portland, Oregon area this year to be held from 31 July to 2 August. There are some exciting developments regarding this show described on page 16.

In this edition we have omitted the New Issues listings for Fungi due to the dearth of issues lately, and also Ichthyology and Marine Invertebrates because of a lack of submissions. We more than compensate for these in quantity because of expanded listings for Herpetology and Paleontology.

We also have some interesting articles. Vladimir Kachan continues his four-part article on Butterflies and Moths and Donald R. Ager from the Christopher Columbus Philatelic Society has given us an article about exotic birds shown on Columbus-related issues.

It seems that 2015 is starting out in an exhilarating manner. Let's keep it rolling by submitting some of your own articles or observations. The next edition should contain the completion of the Butterfly and Moth article and we will have an article on penguins from another sister study unit, the Penguins on Stamps Study Unit.

Wishing you all a fun year with your collecting activities.

Jack Congrove

#### DUES RATES (US\$)

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Overseas membership	\$25
Overseas airmail (add)	\$10
On-line membership	\$15

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

## PRESIDENT'S MESSAGE

Greetings from Ontario! In my last message, I mentioned the 1979 ATA show in Spokane, but I did not say anything about the exhibits, most of which had titles such as *Animals on Stamps*, *Golf on Stamps*, and *Trees on Stamps* and I could see why these could be called "Topicals."

However, there was one exhibit titled *Nuremberg, Tale of a City*, by Ingeberg Fisher, and this was far more detailed with many different philatelic elements. It led me to think about exhibiting myself and since I had always liked "bugs," the collection of material started.

The 1980 (Maine) and 1981 (Chicago) shows had even more of "thematic" exhibits and in the latter show, two names appeared: Mary Ann Owens with *The Elephant* and George Guzzio with *Penguinalia*, and both exhibits were given high awards.

In 1983 (San Antonio), Mary Ann and George exhibited again, with George taking the Grand Award and Mary Ann the Reserve Grand Award. I had served on the jury for the first time as an apprentice, replacing a juror who had fallen sick. It was pretty challenging to "jump in with both feet," as it were, but I enjoyed it. Another thing about these three shows was that I was starting to accumulate material on "bugs" in order to put together my own exhibit. This of course made the shows more interesting, rather than just being a visitor.

Early in 1984, the then ATA President, Don Smith, telephoned me at home and said, "How do you feel about serving as the next ATA President?" Well, to use an old expression, "you could have knocked me down with a feather," and after a short pause to consider, I said yes.

My first show as President was in Lincoln, Nebraska, and since I was now automatically on the ATA Board of Directors, I attended my first board meeting. Since the ATA had been founded by Jerry Husak as the "American Topical Association," and many members (exhibitors) were now assembling their material in a "thematic" fashion, would the word "topical" fall out of favor?

Well, time has proven that the word can include both Topical, Thematic, and now Display types of exhibits. We did experience some problems along the way with a decline in the number of exhibits being entered in the ATA shows, and since our show was held under the rules of the American Philatelic Society, this was fairly serious. However, it appears that it was just a "bump in the road" and the problem has just about disappeared.

Until next time...

*Alan J. Hanks*

Flora  
&  
Fauna



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## SECRETARY-TREASURER'S CORNER

If you have not yet paid your membership dues for 2015, please send them as soon as possible to the Secretary-Treasurer, Chris Dahle at: 1401 Linmar Dr. NE, Cedar Rapids, IA 52402.

### NEW MEMBERS

The Biology Unit welcomes the following new members:

1863	Michael Kogan, Munich, Germany	paleontology (0)
1864	Dale & Andrea Smith, Kansas City, MO	cats (8), stamps on stamps, AIDS
1865	Darlene Waterstreet, Two Rivers, WI	birds (5)
1866	John Noyce (no details)	

### NEWS OF NOTE

#### BIOPHILATELY WINS LITERATURE AWARD

Your editor entered two exhibits in the Philatelic Literature competition sponsored by the Chicago Philatelic Society and held at Chicagopex on 21–23 November 2014. The first exhibit was a set of the latest four volumes of our Unit journal, *Biophilately*, and the second was the index of the past Unit journals and Unit history published last year as *The Mother of All Indexes*.

The Literature Jury was chaired by Patrick A. Walters, and included Stephen Schumann and Guy Dillaway.

I am proud to announce that *The Mother of All Indexes* received a Silver medal and *Biophilately* received a Vermeil medal in this exhibition. The Vermeil award for *Biophilately* is the highest level it has ever received in its 63 years of publication.

The jury was complimentary of the journal's format and the increased amount of informative articles. They recommended that we send copies to scientific organizations in the biology field, which we are considering. They also recommended that we provide copies to the major philatelic libraries for use as a reference. We already do the latter indirectly. We must submit multiple copies for the judging and we always opt for them to be donated to philatelic libraries rather than returned.



The jury also offered advice for improving the journal and here is where all of our members can help. We want to add more features and news from the members. I am certain that each member has at least a couple items that they could write two or three paragraphs about. Maybe it is the first or only stamp to show a particular species. Maybe you have a personal story about the topic depicted, or how you acquired it. Please send the text of your article to the editor at the address given on the inside cover of this issue.

### NEW ON ATA WEBSITE

The ATA website, [www.americantopicalassn.org](http://www.americantopicalassn.org), has updated information on the National Topical Stamp Show being held this summer in Clackamas, Oregon, a suburb of Portland, from 31 July to 2 August. You can find the exhibit prospectus and entry forms there. See more about the show on page 16.

Beginning with the January issue of *Topical Time*, all ATA members can access issues of our journal online. This is a new membership service being offered by ATA. Members will receive an email every two months, when a new issue of the journal is posted, to let you know how to access it. Issues of *Topical Time* beginning from January 2013 will always be available online.

The Checklist dATAbase has been updated. As of February, the listings include a total of 628,616 items. There were 4,127 items added for January and 7,421 for February, including all the new stamps in the *Linn's* New Issue listings for the month. One new checklist has been added: **Sun Yat-Sen (President, China)**, with 72 items. Take advantage of winter—order some checklists now to enrich your collecting. They only cost a penny per list entry.

**BREAKING NEWS!****DON WRIGHT SELECTED AS 2015 DTP**

We are delighted to be the first to announce that our own Unit Director and Associate Editor, Donald Wright of Pennington, New Jersey, has been selected as the American Topical Association 2015 Distinguished Topical Philatelist. An official announcement from the American Topical Association will be forthcoming. The award will be presented on 1 August 2015, during the ATA National Topical Stamp Show in Portland, Oregon.

Don has been a member of the Biology Unit since 1956 and has served as a Unit Director for two different periods totaling 20 years. He also served as the Unit Vice-President during three different periods and as Unit President twice. He served briefly (1972-73) as Editor of *Biophilately* and has been a prolific contributor to the publication throughout the period of his membership. Since 1971, he has been the journal Associate Editor for Entomology, producing a recurring column for publication every quarter.



In addition, he has been a contributor or author of four ATA Handbooks on Invertebrates and Entomology (HB98, HB123, HB150, and HB164). He was the co-founder and President of the late Philatelic Lepidopterists of America, an international society of collectors of butterflies on stamps.

Don has been collecting stamps since he was six years old. He became interested from seeing stamps coming from his uncle on his sailing trip around the world. His collecting interests include insects, Iceland, Faroe Islands, Greenland, and Åland. He has only exhibited once, but says he continually plans on doing so “sometime.”

Don was born in Connecticut in 1928, and lived there until moving to New Jersey in 1961. He graduated from the University of Connecticut in 1950, receiving a BA With Distinction in Zoology-Entomology.

Professionally, Don was employed for 39 years by American Cyanamid Company in Princeton, New Jersey (now Pfizer Company). He was Senior Research Entomologist and retired in 1991. He holds more than 100 U.S. and foreign patents and was the discoverer of 24 insecticides that were commercialized. He also was discoverer of a new chemical class of insecticides—the pyrolyl nitriles, such as Pirate®. He was awarded the Scientific Achievement Award for distinguished research and received monetary prizes for outstanding scientific paper of the year twice and runner-up once.

Don introduced the concept, and coined the term antifeedants, for insect control. As a result, he was invited to give an antifeedant paper in Milan, Italy at the World Congress of Pest Control. Although not a member, he was invited by the American Chemical Society to give a 45-minute paper on antifeedants at a featured symposium at their annual meeting.

He was a member of the Entomological Society of America for 50 years until his retirement and was a founding member of the Insect Rearing Group of the ESA. He presented and published papers on insect rearing and properties of new insecticides.

Don served in the U.S. Army in France during the Korean War period with a Preventive Medicine Control Detachment doing insect and rodent control and surveys of insects of medical importance.

Active in the local nature center, he annually trains new interns on insect matters, field trip tips, insect zoo, and other related topics. He gives talks about insects in schools throughout his local area and has been invited by the New Jersey Science Teachers Association to give annual talks on using insects in the classroom.

Within the community, Don served as a Scout leader for 69 years in many positions locally and in the District and Council. He received the Eagle Award and many training and service awards.

The Scouts initiated working at the local dump to help residents sort recyclable materials into glass, cans, and paper in the 1970s. This eventually led to establishment of the Township Recycling Committee and Don was appointed one of the original Recycling Commissioners.

An amateur radio operator since 1972, Don has been Instruction and Examination Director of the Delaware Valley Radio Association since 1984. He is a teacher for amateur radio license exams and a volunteer examiner giving

FCC licensing exams eight times a year since 1985. The national amateur radio organization selected him as Instructor of the Year in 2003. He participates in County and State emergency and disaster communications and performs as a hazardous weather spotter reporting to the National Weather Service.

He is a member of the local unit of the Herb Society of America serving as Secretary-Treasurer the past twelve years and is active in maintaining the demonstration herb garden at the Holcombe-Jimison Farmstead Museum.

Don has been a member of the Pennington Presbyterian Church since his arrival in 1961, and has served as Sunday school teacher and Deacon and on many church committees. He has led the Senior Activities group for many years.

Don has been married to Ellen for 55 years. They have sons in Tennessee, Wisconsin, and New Mexico, and four grown grandchildren.

The ATA Distinguished Topical Philatelist Award was established in 1952 by ATA founder Jerome Husak to recognize notable service in topical philately. This award has been presented in the past 63 years to 122 topical philatelists, including residents of Canada, Great Britain, and Italy.

### SEAPEX SELECTED AS WSP NATIONAL SHOW



The Seattle Philatelic Exhibition (SEAPEX) will be the first new World Series of Philately (WSP) show in 15 years.

On 19 February, the American Philatelic Society (APS) announced that its Board had unanimously approved the application for SEAPEX to become a WSP stamp show. The last time that the APS accepted a new WSP national exhibition was in 2000 when the AmeriCover show joined the WSP roster.

WSP shows are national level exhibitions that offer a bourse (dealers buying and selling), competitive exhibits, meetings and seminars, and usually host conventions of one or more philatelic societies. These shows must have successfully completed a four-year accreditation process and must follow rigorous standards set by the APS to maintain their status. They are generally the largest and most prestigious stamp exhibitions in the country.

Of their successful application, SEAPEX President, Jack Congrove said, "We are honored to join such an outstanding group of exhibitions and are extremely pleased that the APS has recognized the hard work that went into organizing and building our show into a national level event."

SEAPEX joins 30 other national shows including the APS's own annual StampShow as a WSP exhibition. This status authorizes its adult multi-frame exhibits that receive at least a vermeil medal to apply to be shown at international *Fédération Internationale de Philatélie* (FIP) exhibitions.

The multi-frame grand award winning exhibit at each WSP show is invited to compete in the annual Champion of Champions competition at the summer APS StampShow for the highest national level exhibiting honor available. The single frame grand award winner gets to compete for the single frame Champion of Champions award at the winter APS AmeriStamp Expo.

SEAPEX 2015 will be held at the Tukwila Community Center just north of SeaTac Airport on September 11–13, 2015. Admission and parking are free. The show will have more than 25 dealers and 140 frames of exhibits. It will also host a variety of meetings and seminars. Visit the show website (<http://seapexshow.org>) for exhibit prospectus and application, event schedule, and other details. Also, check it out on Facebook at *Seapex: Seattle Philatelic Exhibition*.

## STAMP STORIES

Jack R. Congrove, BU1424

Our journal, *Biophilately*, is all about life and the portrayal of living things on postage stamps and other philatelic material. Currently, the only life we know about resides here on planet Earth. However, throughout recorded history, and undoubtedly even in prehistoric times, man has wondered about the possibility of life outside the range of the known world.

In early times, these thoughts concerned “gods” that existed in heavenly realms and mythical or magical vegetation and beasts that lived in uncharted lands, or under the seas. As knowledge progressed through exploration, and science came into being, people began to accept that these imaginary lifeforms did not exist.



Mythical Unicorn  
Great Britain Sc#2674



Corpse Flower  
*Rafflesia arnoldii*  
Malaysia 2014 not cat



Platypus  
*Ornithorhynchus anatinus*  
Australia Sc#3892



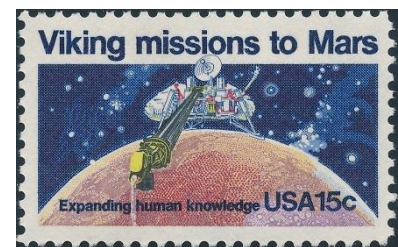
Penicillin  
*Penicillium* sp.  
US Sc#3186b

To be sure, explorers discovered many strange and exotic plants and animals and the menagerie of living things grew to include some that often exceeded the imagination of previous generations. The discovery of unsuspected life at the microscopic level further added to our knowledge and wonder about the variety of living things.

Discoveries of previously unknown life forms here on Earth continue almost daily, but one of the most fascinating current scientific endeavors involves the search for life outside of the Earth. There is no doubt that from the earliest times man has looked heavenward and wondered if other life existed on the Moon or among the stars, and what manner of life it might be.

### Mars Rovers

Much in the news recently has been the exploration of the planet in our solar system that is the most similar to ours. Mars is another rocky world like Earth. It has a day that is about 40 minutes longer than a day on Earth and its axis also tilts in relation to its orbit (25 degrees versus 23.5 degrees for Earth), which causes it to have seasons also. Though it has about the same amount of land area, it is a little more than half the diameter of Earth and only 71 percent as dense. Consequently, its gravity is 62.5 percent less than on Earth.<sup>1</sup>



Planet Mars  
US Sc#1759



Ice on Mars  
Great Britain Sc#3115

Mars orbits the Sun just on the outer edge of the so-called habitable zone (HZ). This is the region around a star where the temperature permits the existence of liquid water—water being the one thing required for all life that we know. Frozen water has been found on the surface of Mars. Evidence shows that at one time there must have been liquid water on the planet’s surface and possibly some still exists below the surface. But somehow in the past Mars lost much of its atmosphere and most of its water.

Scientists have sent several exploratory missions to Mars and one of the primary goals of these missions is to determine if life ever arose there. Currently there are five functioning spacecraft orbiting the planet and two others on the surface, the

<sup>1</sup> NASA: <http://mars.nasa.gov/allaboutmars/facts>



rover *Opportunity* and the science laboratory *Curiosity*. Several other defunct spacecraft sit on its surface including the recently located British lander *Beagle 2* that was lost in 2003. Imagery from some of these space probes is readily available to the public at various Internet sites. A manned mission to the planet will certainly take place, perhaps within a decade or two.

So far there have been no conclusive discoveries that show life ever existed on Mars. But within our solar system, Mars offers the most probable and accessible potential location for the discovery of the existence of extraterrestrial life.

## Exoplanets

Astronomers currently estimate that there are at least 125 billion galaxies in the visible universe.<sup>2</sup> Our own Milky Way galaxy has between 100–400 billion stars.<sup>3</sup> If you assume 200 billion stars as representative of a galaxy, this means there are 25,000 billion billion stars in the part of the universe that we can see.

One of the exciting and growing areas in astronomy is the search for extrasolar planets, or exoplanets. These are planets that orbit other stars besides our own Sun. Recent developments in technology including new space telescopes and more powerful computers have enabled astronomers to detect these planetary bodies. As of January 2015, astronomers have confirmed the discovery of 1,876 exoplanets<sup>4</sup> and there are more than 4,000 additional candidates awaiting confirmation, with this quantity increasing continually.

## Extraterrestrial Life

Based on the discoveries so far, astronomers believe that there is at least one planet on average per star.<sup>5</sup> However, the majority of these planets may be unable to support life as we understand it. The orbits of these planets lie outside the HZ of their star, or have traits inhospitable to life.

The size and location of the HZ varies with both the type of star and the type of planet. Heat produced by the star depends on its size and age. The HZ for a red dwarf star would be much closer to it than the HZ for a star like our Sun. A desert planet with little water would have a reduced greenhouse effect and could be habitable much closer to the star. The lack of water would mean less ice to reflect heat so its HZ could also extend farther away. Planet rotation rate and many other factors also affect the size of the HZ.

Just because an exoplanet does not meet the characteristics we expect does not mean that life cannot exist there. Many exoplanets are gas giants similar to Jupiter, but they could have moons that are habitable. More than half of Earth's biomass is from subsurface microbes. Thus, even planets that have a frozen surface could well support life deep underground.

Current discoveries indicate that about 22 percent of Sun-like stars have an Earth-sized planet located in their HZ. If this holds consistently across the galaxy, it means that there are potentially 11 billion habitable Earths in the Milky Way alone. This quantity rises to 40 billion, if you include red dwarf stars.

## Intelligent Life

Science fiction is replete with stories of invaders from Mars, or advanced civilizations on other worlds and it seems to be part of man's nature to speculate or dream about these possibilities. Considering the billions of probable planets that may exist, logic and probability argue that the odds are against the Earth being the only place where intelligent life has arisen.



Opportunity Rover  
St. Kitts 2014 not cat



Space Telescope  
US Sc#1919



Galaxy NGC 1316  
US Sc#3388

<sup>2</sup> Eicher, David J.; *Astronomy*, 43 (2): 6

<sup>3</sup> "NASA – Galaxy;" nasa.gov. November 29, 2007

<sup>4</sup> Schneider, J.; "Interactive Extra-solar Planets Catalog," *The Extrasolar Planets Encyclopedia*.

<sup>5</sup> Cassan, A., et al; *Nature*, 481 (7380): 167–69

The physicist Enrico Fermi pointed out in a paradox named for him that if such life exists, why have we never encountered it? The basic points of the argument are:

- The Sun is a relatively young, typical star and there are billions in the galaxy that are billions of years older
- There is high probability that many Earth-like planets exist and some will develop intelligent life
- Some of these civilizations will develop interstellar travel, a technology we are investigating ourselves
- Even at sub-light travel speeds, the galaxy could be colonized in a few tens of millions of years.

According to this reasoning, Earth should already have been colonized, or at least visited, but we have found no irrefutable evidence of this. Scientists have proposed several plausible explanations assuming that such life exists. The explanation that makes the most sense to me is that intelligent civilizations are too far apart in both space and time to encounter each other. Arthur C. Clarke provided an interesting analysis of this in his novel, *Rama Revealed*.<sup>6</sup>

Consider that an intelligent civilization arises 90,000 light years away from us on the other side of the galaxy. Over the course of time, it manages to colonize a few other nearby star systems. If we presume that this civilization coexists in the same timeframe as ours, it would still take 90,000 years for a signal from it to reach us even if such a signal was powerful enough and unblocked by the other systems and immense dust clouds between us.

Now, assume that this civilization arose 50 million years ago, long before intelligent species evolved here. There is little chance that we would ever learn of its existence even if it were to flourish for millions of years. There is also a strong possibility that such a civilization would be unable to last millions of years for many reasons and one of most likely natural reasons is a stellar phenomenon called a supernova. These events occur on average three times per century within our galaxy.<sup>7</sup> Such an occurrence within 3,000 light years of any inhabited planet would devastate the life thereon. Such an incident has been proposed as the cause of the Ordovician–Silurian extinction, which resulted in the death of nearly 60 percent of the oceanic life on Earth.<sup>8</sup>

The confirmed discovery of extraterrestrial life, intelligent or not, will be one of the most monumental events in human history and would dramatically change the way we view our place in the universe. I think it very probable that we will discover life on other worlds someday, but the likelihood of this life being intelligent is remote and, as Arthur Clarke noted, we may have to accept that loneliness is one of the underlying principles of our universe.



Is ET really out there?  
US Sc#3190m

<sup>6</sup> Clarke, A.C.; *Rama Revealed*, 1994: 591–96

<sup>7</sup> “Discovery of Most Recent Supernova in Our Galaxy.” NASA. 2008-05-14

<sup>8</sup> Melott, A. et al (2004). *International Journal of Astrobiology*, 3 (2): 55–61.

## PARROTS, MACAWS, AND QUETZALS

Donald R. Ager

[Ed. Note: This article is from a booklet prepared for the Christopher Columbus Philatelic Society that shows parrots on Christopher Columbus stamps. It is reprinted here with permission from the author and our sister study unit. The Christopher Columbus Philatelic Society is another of the study units in the American Topical Association. It became a study unit in 1982. It publishes a quarterly journal, *Discovery*. Membership dues are \$15 for US addresses and \$20 for elsewhere. See their website (<http://ccps.maphist.nl/>) for more information.]

When Columbus arrived in the new world, one of the interesting finds he and his men came across were parrots, macaws, and possibly quetzals. They were plentiful at that time and were traded by the natives to Columbus for beads and other trinkets.

These birds are now in danger of being eradicated due to pesticides and deforestation and the capturing of birds to sell for pets. Most trade is illegal now, but lucrative, so birds continue to be depleted in the wild. Most of these birds are found in Central and South America. Columbus returned to the old world with some of these splendid birds and displayed them in the courts of Portugal and Spain.

While searching among my philatelic possessions for items that could be used in another article, I discovered that I had many stamps and souvenir sheets with several birds illustrated. I do not know my bird identifications so I cannot go into detail on each of these philatelic items. Some of the souvenir sheets do identify the bird so we will have to let that be the identification. Incidentally, as may be observed, some of the parrots illustrated on souvenir sheets are not shown in the stamp itself. There may be other Columbus related philatelic items with these types of birds illustrated, but I do not know of, or possess them.



Fig. 1. Columbus surrounded by exotic birds  
Ghana Sc#1464

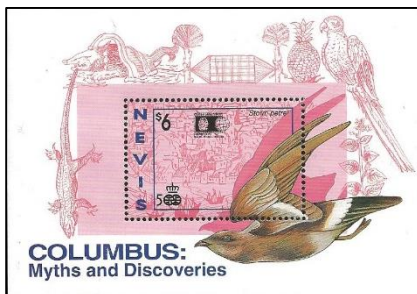


Fig. 2. Storm petrel with parrot  
Nevis Sc#734

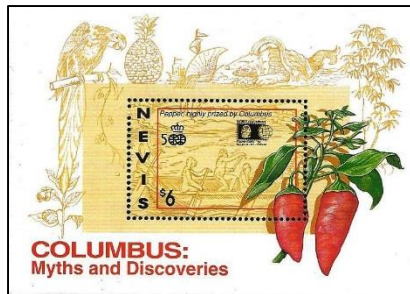


Fig. 3. Peppers with parrot  
Nevis Sc#735

On July 6, 1992, Nevis issued six stamps and two souvenir sheets commemorating the Discovery of America 500th anniversary and the World Columbian Stamp Expo '92 in Chicago (Figures 2 and 3). A storm petrel is illustrated on the sheet and partially on the stamp. The parrot however, is seen on upper right side of the sheet.

The second sheet portrays the parrot in the upper left side of the sheet. Other images appear on the sheets, but at this time we are only interested in the birds. Exotic birds and fruit are depicted on a set of stamps issued for the Genoa '92 International Philatelic Exhibition and Figure 4 depicts a parrot.

I forgot to mention that I consider these as all parrots so if I err, please forgive me. In any case, these birds are magnificent in their colors, sizes, and appearance.

The souvenir sheet depicted in Figure 5 is one of my favorite sheets of all time. This is a sheet that the more I look at it, the more I find illustrated. This sheet was issued April 18, 1988, along with six single stamps to commemorate the 500th anniversary of the Discovery of America in 1992. Among all the birds on this sheet there are several parrots.



Fig. 4. Parrot with fruit  
St Vincent Sc#1654

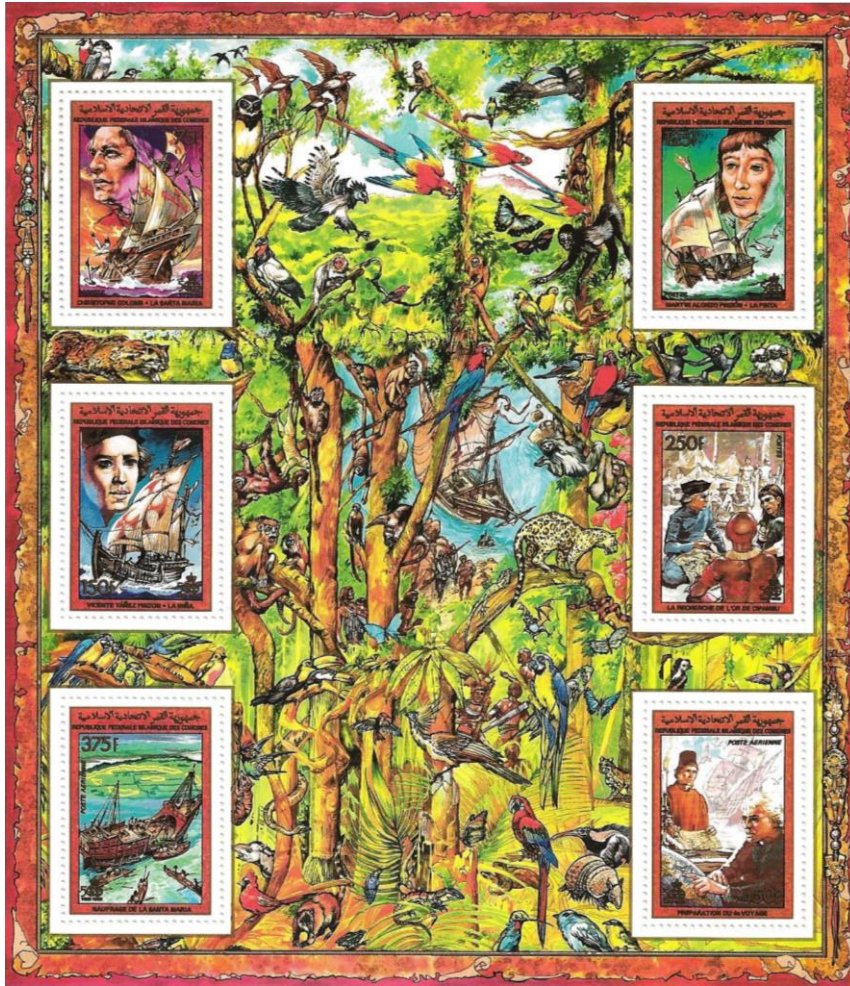


Fig. 5. Samana Cay Landing with Indians and wildlife Comoro Is. Sc#663

Although parrots come in many colors, I note that the majority of these stamps depict red as the predominate color to illustrate these birds. Natives use the feathers from these birds for many different ceremonial purposes. Many of the birds have also been used for food.

Although most parrots do not migrate very far, some species have been found as far north as Southern Arizona and may be found as far south as Argentina.



Fig. 6. *Ara macao* Honduras Sc#C869

Honduras commemorated the 500th anniversary of the Discovery of America by issuing two stamps and an imperforate souvenir sheet, which was serialized, on October 2, 1992. Figure 6 gives us a view of an *Ara macao* in its full color. A quetzal, *Pharomachus mocinno*, is featured on the souvenir sheet, Figure 7.

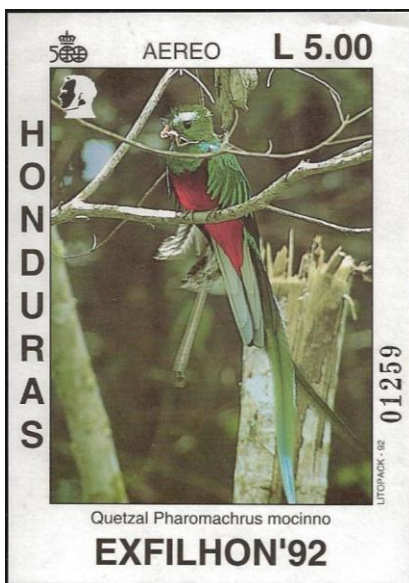


Fig. 7. *Pharomachus mocinno* Honduras Sc#C870

Columbus's first voyage is well illustrated with a sheet of seven stamps from Montserrat which was issued January 16, 1992. The fifth stamp (Figure 8) on the sheet is depicted as showing exotic birds.



Fig. 8. Exotic birds Montserrat Sc#789e

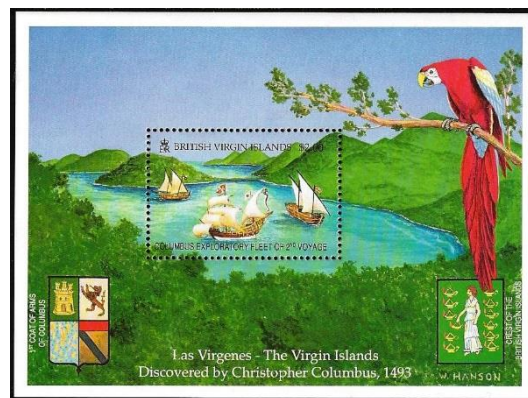


Fig. 9. Columbus Second Voyage British Virgin Is. Sc#755

Columbus's second fleet is illustrated on the stamp on the souvenir sheet from the British Virgin Islands. These islands were discovered by Columbus on his second voyage in 1493. A bright red parrot is a major visual effect on this souvenir sheet, Figure 9.

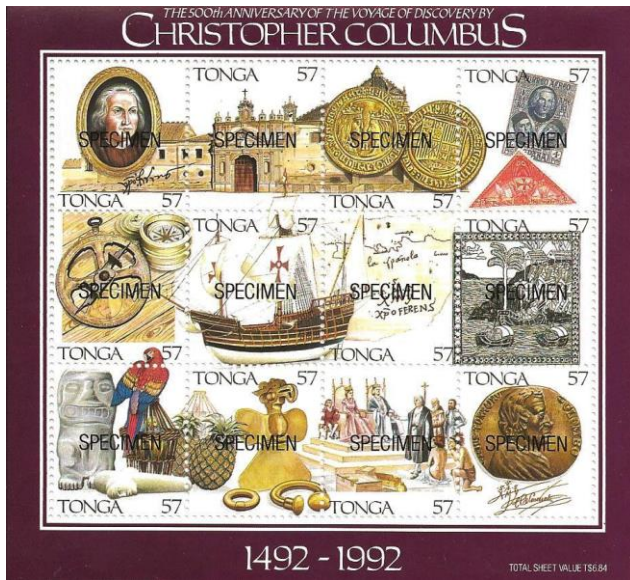


Fig. 10. Discovery of America 500th Anniversary  
Tonga Sc#707

A SPECIMEN sheet (Figure 10) of twelve stamps from Tonga, commemorates the Discovery of America 500th anniversary and Christopher Columbus and vividly displayed is a red and yellow macaw in the lower left hand side of the sheet. The colors of this bird sure stand out on this sheet.

Columbus and native with parrot are seen in Figure 11, issued in 1988 by Antigua.

A green-winged red parrot (Figure 12) and a green parrot (Figure 13) issued by Grenada and Dominica add to the colorful display of parrots illustrated throughout this article.



Fig. 11. Native and Parrot  
Antigua Sc#1096

The colorful birds of the Caribbean and Central and South America are well represented on stamps from the countries in those areas. This article tried to stay with parrots that were on stamps related to the Columbus topic so not all parrot stamps issued by those countries appear here.

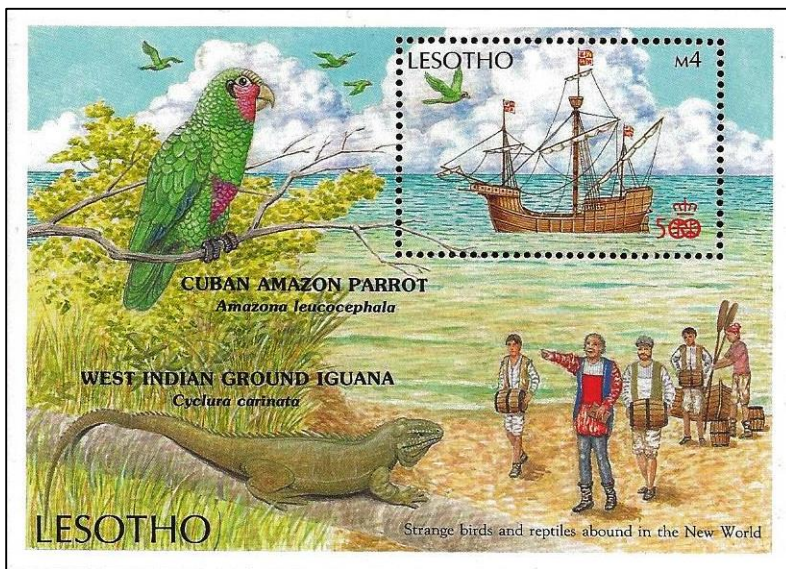


Fig. 14. Parrot and Columbus landing  
Lesotho Sc#617

On October 12, 1990, Mexico issued an AMERICA pair of stamps depicting part of a galleon with flowers and the other part with a blue and yellow parrot (Figure 15).



Fig. 12. Red Parrot  
Grenada Sc#2063

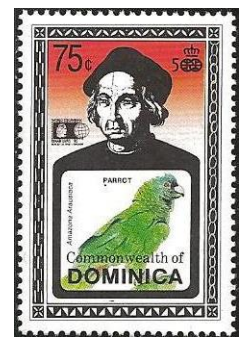


Fig. 13. Green Parrot  
Dominica Sc#1452

A Cuban Amazon Parrot is well presented on this issue from Lesotho (Figure 14). This souvenir sheet came with a set of four stamps and was issued December 14, 1987, to commemorate the 500th anniversary of the Discovery of America in 1492. At the bottom of the sheet is an inscription, "Strange birds and reptiles abound in the New World."

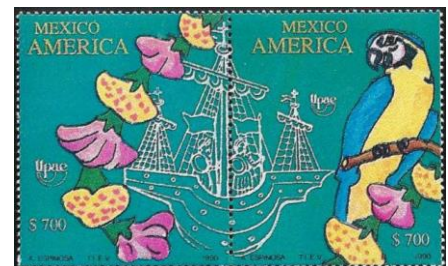


Fig. 15. Parrot with galleon  
Mexico Sc#1679a

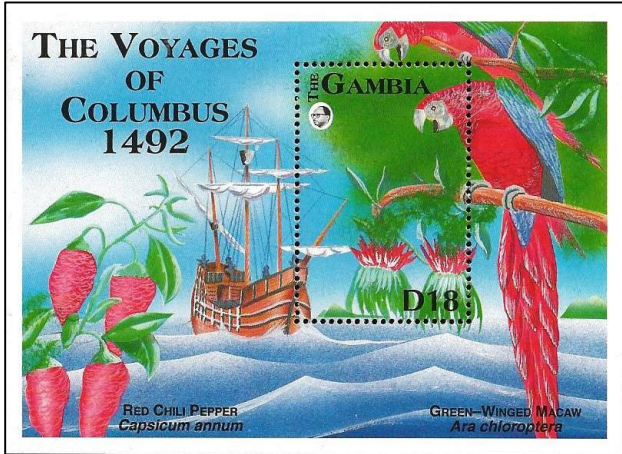


Fig. 16. Green-winged Macaw  
Gambia Sc#1305

Columbus at the court of King Ferdinand and Queen Isabella and a red and yellow macaw are illustrated on this 1986 souvenir sheet (Figure 17) from the Republic of Guinea. In the lower right of this sheet, is a map of the four routes that Columbus sailed. It is interesting to note that not too many children are represented in pictures with Columbus at court.

A green-winged macaw is featured on a souvenir sheet issued by Gambia in October 1992 (Figure 16) with a portion of its head appearing on the vertical stamp.

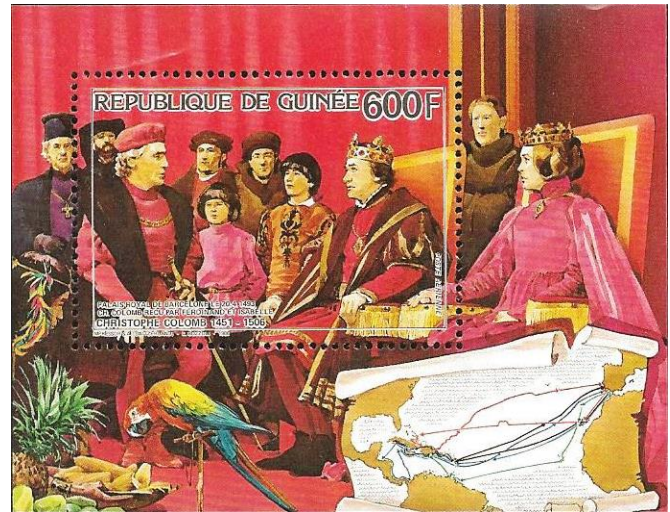


Fig. 17. Red and yellow Macaw  
Guinea Sc#1010



Fig. 18. Bow of ship and Parrot  
St. Vincent Sc#1462

The Landfall of Columbus is commemorated with this sheet of nine stamps (Figure 18) and the center of the sheet has a red and yellow macaw. The numeral ten appears on the top left corner of this stamp, but the stamp is not valid for postage. St. Vincent issued two sheets of the Columbus Exposition issues and sheet number one is illustrated here as the parrot is shown on this sheet.



Fig. 19. Parrot trade  
Barbuda Sc#965

In Figure 19, a parrot in the canoe and in Figure 20, a red and yellow macaw is the highlight of the Dominica issue.



Fig. 20. Red and yellow Macaw  
Dominica Sc#1306

This was an interesting project with so many brilliant colors and a slightly different slant on the Columbus topic.

## TRAVELING INTO THE WORLD OF BUTTERFLIES AND MOTHS: PART III

Vladimir Kachan, Belarus

[Ed. Note: This article is the third in a four-part series on the study and science of Lepidoptera by Vladimir Kachan from Belarus. The first installment appeared in Volume 63, Number 3, and the second installment in Volume 63, Number 4. Readers can contact the author via email at: vladimirkachan@mail.ru, or post at: P.O. Box-36, BY-220089, Minsk-89, Republic of Belarus.]

### 3. Biological Peculiarities of Butterflies and Moths

#### BUTTERFLIES

Butterflies are most remarkable insects, brightening up the landscape on sunny summer days. Thanks to their bright coloring and the variety of wing patterns they have been a favorite object of collectors and of scientific study for several centuries. Distinctive peculiarities of butterflies are club-shaped antennae, wings laid together vertically over the body in the state of rest, and daytime flight.

The coloring of butterflies has a heat regulating purpose. The butterflies with light coloring keep in well-lit places: in the crowns of the trees, on the edge of forests, or on the sand at river banks. Butterflies with dark coloring (brown or black) in most cases fly in the shade. The wings of tropical butterflies are covered with optical scales. Because they are exposed to the direct rays of the sun, their shiny metallic coverings reflect the rays and serve as protection from excessive overheating. Some butterflies of the family Morphidae inhabiting the forests of tropical America, have their upper sides of wings colored in blue and dark blue strongly playing metallic colors. During the daytime, each wing flap can be seen up to a distance of one third of a kilometer.



*Morpho helenor peleides*  
Venezuela Sc#890  
preliminary artwork & issued stamp

[Ed. note: The apparent blue color of the upper wings is not due to pigmentation, but to the structure of the wings scales that refract the sunlight in the blue spectrum.]

The biological purpose of bright, motley colors on the upper side of the wings is the distinguishing of individuals of different species from long distances (males and females attract each other by their colorings).

An imperfect respiratory system limits the size of butterflies. The colorless blood of butterflies cannot carry oxygen, the flow of which to their organs depends only on diffusion. That is why the biggest butterflies live in the tropics. Queen Alexandra's Birdwing (*Ornithoptera alexandrae*) inhabiting the tropical jungles of Papua New Guinea is one of the largest, most beautiful, and rare butterflies in the world. The wingspan of a female may be more than 28 centimeters (cm), and that of a male about 16 cm.



*Papilio antimachus*  
Central Africa Sc#253

The African Giant Swallowtail (*Papilio antimachus*) is the largest one in Africa and has a wingspan about 23 cm.

Practical aspects of butterflies is that they immediately react to changes of existing conditions, and one can judge about the results of human activities and about our influence on nature by changes in butterfly distribution and numbers.



*Ornithoptera alexandrae*  
Papua Sc#1043

## MOTHS

The distinctive peculiarities of moths are that they have pale wing coloring and in the state of rest their wings are put in a roof-shape. Mainly they fly at twilight and at night. Moths fly to the light. They use the light of the sun and the moon for orientation during flight. In flight, they follow a rectilinear course and try to keep the rays of a distant luminary at an angle of eighty degrees. When confused by a ground light source, they fly in narrowing spiral turns, which often causes them to perish. That is why some nature reserves do not allow the use outside electric lights during warm seasons. In addition, the use of street lights with intensive ultra-violet radiation is undesirable and especially their use away from settlements.

Males of moths and crepuscular butterflies share certain peculiarities. Their fern-like antennas are dotted with sensory cells, the organs of sense of smell. Females attract males by secreting special scent. The only function of a mature male during his short life is to find a female by this scent and to mate with her. For instance, the males of the Saturniidae family have such a developed sense of smell that they can find a female at a kilometer distance. The German chemist Adolf Butenandt studying silkworms determined that the female can attract the male from a distance of 11 kilometers.



*Attacus atlas*  
Ryukyu Is. Sc#57

Among moths there are record setters in length of wings. The moths of family Tineidae, Geometridae, and Pyralidae have a wingspan from several millimeters to 30 centimeters. The Atlas Moth (*Attacus atlas*) with a wingspan of 25 cm is a representative of Asia.

The moths of the family Sphingidae stand out with their unusual way of feeding. The moth does not land on a flower, but hangs over it like a helicopter and sucks nectar, stretching out its long proboscis. These moths are excellent fliers. They can cover hundreds of kilometers, and moreover their working wing muscles radiate considerable heat. During movement, the temperature of a flying moth can reach forty degrees Celsius (104°F).

## PROTECTIVE PROPERTIES OF BUTTERFLIES AND MOTHS

In the process of evolution, different species of butterflies and moths gained specific attributes, which serve as a defense from enemies.

Butterflies usually have upper sides of wings colored in bright colors while lower sides imitate coloring and texture of bark and leaves and so on. For example, the butterflies of genus *Kallima* look like dry leaves. Because of their wing shape, venation, and color, these butterflies resting on a branch with their wings put together are difficult to distinguish from a leaf.

The butterflies of families Heliconidae and Danaidae and moths of family Zygaenidae are colored in contrast colors, but they are poisonous. This means that at the threat of an assault they secrete a liquid and strong frightening smell, which protects them from insectivores.



*Noctua teixeirai*  
Madeira Sc#199

The butterflies of family Satyridae have brown and grey wings decorated with small eyes-looking spots. This is a specific biological application of butterflies, the function of which is to draw a predator's attention from vitally important parts of body and especially from the head.

Many moths of family Sphingidae, Arctiidae, and Noctuidae have their peculiar wing coloring, combining in it protective and demonstrative elements. The upper side of wings is a pale color with zigzag lines, hind wings have bright color on their upper sides. A moth sitting on a tree is barely noticeable, but when it is disturbed it spreads its forewings to the sides, showing its bright hind wings (or eye-like spots). The unexpected appearance of the bright signal frightens off enemies, usually birds.



*Actias luna*  
Belgium Sc#B879



*Deilephila elpenor*  
Bhutan Sc#1143c



*Kallima inachus*  
Vietnam Sc#1315



A resting butterfly of species *Polygonia c-album* is unnoticeable by predators owing to the wrong angular outline of wings. The butterfly *Parnassius apollo* usually is not touched by birds. It warn them about its “inedibility” by falling to the ground, stretching its wings to display red spots, and scraping its body against the lower sides of leaves, making a hissing sound.



*Polygonia c-album*  
Marshall Is. Sc#5981



*Inachis io*  
Gr. Britain Sc#943

The butterfly *Inachis io* and some other butterflies of family Nymphalidae have eyelike spots on spread wings. It is supposed that the designs resembling the eyes of birds of prey can raise an immediate frightening reflex and stop an enemy’s action.

The butterflies of family Lycaenidae always sit on plants with their head downwards and two wing appendixes stick up resembling antennae. It disorients birds. The butterflies of species *Caligo*, inhabiting the tropical forests of the Amazon, are known as very skillful fliers, able to avoid pursuing birds.

There are butterflies lacking in any protective properties that imitate inedible butterflies with their wing shape, colorings, and behavior. The African butterfly *Papilio dardanus* imitates the poisonous butterfly *Amauris niavius*. The edible *Hypolimnas misippus* imitates the inedible *Danaus chrysippus*.

In the tropical forests of South America there are the butterflies that have lost their scaly covering, and their wings are almost completely transparent. Only the hind wings display eyes that are typical for this family. When such a butterfly is on the crown of a tree, it is quite unnoticeable because the design of a leaf on which it sits appears through its glassy wings.



*Danaus chrysippus*  
Botswana Sc#357  
(even the designer was confused)

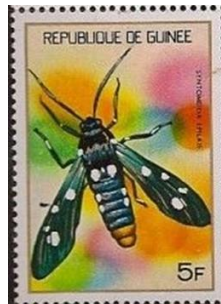


*H. misippus*  
Jamaica Sc#426



*Cithaerias aurorina*  
Brazil Sc#1620

The moths of some families resemble bees and wasps that birds avoid.



*Syntomeida epilais*  
Guinea Sc#636

## NATIONAL TOPICAL STAMP SHOW 2015

This year the American Topical Association will hold its annual NTSS at the Monarch Hotel in Clackamas, Oregon, a suburb of Portland. The show will run from Friday, 31 July, until Sunday 2 August 2015. In addition, there are activities scheduled for Thursday before the show begins and on Monday after the show is over.



The overall theme for the show is “Trail to Topicals,” this being a play on the concept of the Oregon Trail because the NTSS last year was in St. Louis and we are symbolically taking the Oregon Trail to get from there to Portland.

The NTSS is devoted to topical and thematic collecting, but the dealers there will also have the full spectrum of philatelic items such as stamps, covers, postcards, and other supplies. The ATA expects to have about 30 dealers at the show.

The ATA is accepting exhibits right now. Most of the exhibits will feature thematic arrangements making this a perfect opportunity for Biology Unit members to submit an exhibit on their collecting area

of interest. See the show website (<http://www.americantopicalassn.org/ntss/ntss2015.shtml>) for exhibit prospectus and entry form. This year the ATA also is trying a new type of exhibit category called “Free-style” exhibiting.

Free-style exhibiting is an informal, just-for-fun method that will not be judged. This type of exhibit is open to everyone, not only first-timers, but it may be especially appealing to those who feel intimidated by the “rules” of thematic exhibiting. The ATA Board approved this category to encourage members to explore and enjoy something new with their collections.

Free-style exhibits need to show philatelic material on pages designed by their exhibitors. Printed album pages are not acceptable. Ideally the exhibit will develop an idea or tell a story, such as a person’s life and times, an animal’s habitat and food, or the rules and practice of a sport.

Only a limited number of frames are available for these exhibits. There is a maximum of two frames/exhibit and a maximum of three frames/person. Single frame exhibits cost \$20; multiple frames are \$15 each. Applications will be considered on a first-come, first-served basis, and must be received by 31 May 2015.

The show will offer special postmarks and cachets on each day. The cachets have been designed by Oregon first day cover artist Frans Geerlings. The daily themes are: Friday: From the Mountains, Saturday: To the Prairies, Sunday: To the Oceans. Oregon offers all three of these features.

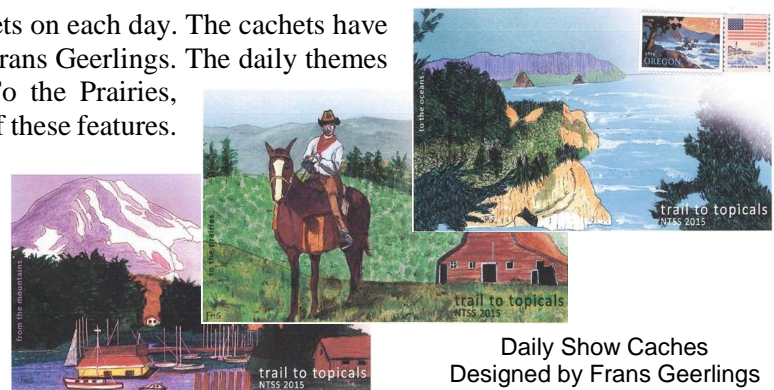
The Thursday tour will visit the city of Portland where we will see the Pittock Mansion, Powell Book Store, NW Philatelic Library, and more.

On Monday, the show will offer a full day tour of Mount Saint Helens.

On Friday night, there will be a President’s Reception at The Old Spaghetti Factory next door to the hotel.

On Saturday evening, the awards banquet will be held in the Monarch Hotel and offer a delicious buffet meal.

If you have never attended an NTSS, this is the perfect opportunity. There will be activities to satisfy everyone.



Daily Show Cachets  
Designed by Frans Geerlings



# BOTANY

Editor

Christopher E. Dahle, BU1269

## New Listings



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
<b>AUSTRIA</b> <b>2014 September 26</b> (Stamp Day)				
B394	282c+141c	Irises and Basilica of Rankweil, <i>Iris</i> sp.	Iridaceae	FI B
<b>AUSTRALIA</b> <b>2014 September 2</b> (Gardens)				
4167	70c	Cruden Farm, Victoria		FI V B U
4168	70c	Mendel Gardens, Western Australia		FI V B U
4169	70c	Niwajiri, South Australia		FI V B U
4170	70c	Walcott Gardens, Australian Capital Territory		FI V B U
4171	70c	Wychwood, Tasmania		FI V B U
4171a		Horiz strip 5 (Sc#4167-71) (perf 14x14¾)		
4172	70c	Cruden Farm, Victoria		FI V B U
4173	70c	Mendel Gardens, Western Australia		FI V B U
4174	70c	Niwajiri, South Australia		FI V B U
4175	70c	Walcott Gardens, Australian Capital Territory		FI V B U
4176	70c	Wychwood, Tasmania		FI V B U
4176a		Bklt pane 20 (4ea Sc#4172-76) (die cut 11¼)		
<b>2014 October 21</b> (Australian Defense Force Centenary)				
4202-05	70c	Poppies, <i>Papaver rhoeas</i> (with various service caps)	Papaveraceae	FI B
4205a		SS of 4 (Sc#4202-05) (perf 14¼)		
4206-09	70c	Poppies, <i>Papaver rhoeas</i> (with various service caps)	Papaveraceae	FI B
4209a		Bklt pane 10 (2ea Sc#4206-09) (Die cut 11¼)		
<b>AZERBAIJAN</b> <b>2014 July 25</b> (Roses) (MS of 4 & SS of 1)				
1060a	30g	Pink Rose, <i>Rosa x hybrida</i>	Rosaceae	FI A MS
1060b	30g	Pinkish-orange Rose, <i>Rosa x hybrida</i>	Rosaceae	FI A MS
1060c	30g	Red Rose, <i>Rosa x hybrida</i>	Rosaceae	FI A MS
1060d	30g	White Rose, <i>Rosa x hybrida</i>	Rosaceae	FI A MS
1061	SS 1m	Red Roses, <i>Rosa x hybrida</i>	Rosaceae	FI A SS
<b>BAHRAIN</b> <b>2014 May 5</b> (International Interfaith Dialogue)				
713	200f	Stylized tree in green		T A U S
714	250f	Stylized tree close-up		T A U S
715	300f	Stylized tree in white		T A U S
<b>BANGLADESH</b> <b>2014 June 5</b> (National Tree Planting Campaign)				
822	10t	Woman planting tree		T B U
<b>2014 August 4</b> (Flowers)				
824a	10t	<i>Dendrobium aphyllum</i>	Orchidaceae	FI A
824b	10t	<i>Rhynchosyilis retusa</i>	Orchidaceae	FI A
824c	10t	Blue Water Lily, <i>Nymphaea nouchali</i>	Nymphaeaceae	FI A
824d	10t	<i>Ochna obtusata</i>	Ochnaceae	FI A
824		Block of 4 (Sc#824a-d) (perf 13¼x14¼)		
824e	SS (60t)	SS of 4 (Sc#824a-d) (perf 12x13¾) (also exists imperf)		

<b>BELARUS</b>		<b>2014 July 25</b> (Invasive Plants)		
907	A (1600r)	Canadian Goldenrod, <i>Solidago canadensis</i>	Asteraceae	Fl A
908	N (5000r)	Sosnowsky's Hogweed, <i>Heracleum sosnowskyi</i>	Apiaceae	Fl A
		<b>2014 August 22</b> (Flowers in Nat. Acad. Sci. Central Botanical Garden)		
909	(6500r)	Diadema Dahlia, <i>Dahlia Diadema</i>	Asteraceae	Fl A
910	(6500r)	Pamyali Gargarina peony, <i>Paeonia officinalis</i> Pamyali Gargarina	Paeoniaceae	Fl A
911	(6500r)	Gloria Dei Rose, <i>Rosa Gloria Dei</i>	Rosaceae	Fl A
912	(6500r)	Zorenka Lily, <i>Lilium Zorenka</i>	Liliaceae	Fl A
912a		SS of 4+label (Sc#909–12)		
<b>BELGIUM</b>		<b>2014 October 27</b> (Optical Illusions) (MS of 5)		
2729a	(€1.40)	Clown's face and fruit		Fr B U
<b>BERMUDA</b>		<b>2014 July 15</b> (Flowers)		
1079	5c	Allamanda, <i>Allamanda cathartica</i>	Apocynaceae	Fl A
1080	10c	Plumeria, <i>Plumeria rubra</i>	Apocynaceae	Fl A
1081	25c	Bougainvillea, <i>Bougainvillea</i> sp.	Nyctaginaceae	Fl A
1082	35c	Coral Tree, <i>Erythrina variegata</i>	Fabaceae	Fl A
1083	\$10	Bengal Clockvine, Bengal trumpet, <i>Thunbergia grandiflora</i>	Acanthaceae	Fl A
<b>BOSNIA &amp; HERZEGOVINA (Croat Admin.)</b>		<b>2014 November 1</b> (Flowers) (Pair)		
309a	1m	<i>Helleborus hercegovinus</i>	Ranunculaceae	Fl A
309b	1m	Mountain Lily, Turk's Cap Lily, <i>Lilium martagon</i> (=cattaniae)	Liliaceae	Fl A
<b>BRAZIL</b>		<b>2013 December 9</b> (Buriti) (SS of 2)		
3264a	2.45r	Moriche Palm, Ité Palm, Buriti, <i>Mauritia flexuosa</i>	Arecaceae	Fr T SS
3264b	2.45r	Moriche Palm, Ité Palm, Buriti, <i>Mauritia flexuosa</i>	Arecaceae	Fr T SS
3264		SS of 2 (Sc#3264a–b)		
<b>BRITISH ANTARCTIC TERRITORY</b>		<b>2014 November 19</b> (Antarctic Marine Food Web)		
481	65p	Phytoplankton (without arrows)		V A
485i	65p	Phytoplankton (with food chain arrows)		V A MS
485		MS of 9 (Sc#485a–i)		
<b>CANADA</b>		<b>2014 October 4</b> (World War I Centenary)		
2794	P (85c)	Poppies, <i>Papaver rhoeas</i> (perf 13½×13¼)	Papaveraceae	Fl B
2795	P (85c)	Poppies, <i>Papaver rhoeas</i> (die cut 13¼×13½)	Papaveraceae	Fl B
2795a		Bklt pane 10 (Sc#2795) s/a		
<b>BURKINA FASO</b>		<b>1984</b> (Anti-deforestation) (Sc#635 ovpt "Aide au Sahel 84")		
668C	100fr	Prevent forest fires		T B U
<b>CHINA PEOPLE'S REPUBLIC</b>		<b>2014 May 28</b> (Birds in Bamboo Forest)		
4195	\$1.20	Bamboo (with label)	Poaceae	V A
		<b>2014 July 15</b> (Fruit)		
4211	\$1.20	Apples, <i>Malus domestica</i>	Rosaceae	Fr A
4212	\$1.20	Peaches, <i>Prunus persica</i>	Rosaceae	Fr A
4213	\$1.50	Pomegranates, <i>Punica granatum</i>	Punicaceae	Fr A
4214	\$1.50	Kumquats, <i>Citrus japonica</i>	Rutaceae	Fr A
<b>CHINA (Taiwan)</b>		<b>2014 October 3</b> (Taipei 2015 Asian International Stamp Exhibition)		
4196a	\$5	Pink Azaleas, <i>Rhododendron</i> sp.	Ericaceae	Fl B MS
4196b	\$5	Tung trees, <i>Vernicia fordii</i>	Euphorbiaceae	Fl B MS
4196c	\$10	Maple trees, <i>Acer palmatum</i>	Sapindaceae	V B MS
4196d	\$25	Cherry blossoms, <i>Prunus</i> sp.	Rosaceae	Fl B MS
4196		MS of 4+4 labels (Sc#4186a–d)		

<b>CURAÇAO</b>		<b>2014 February 14</b> (Friendship) (Set of 6)		
166	119c	Roses, <i>Rosa x hybrida</i>	Rosaceae	Fl A
		<b>2014 September 10</b> (World Orchid Conference, South Africa)		
198	119c	<i>Angraecum stella-africae</i>	Orchidaceae	Fl A
199	177c	<i>Disa longicornu</i>	Orchidaceae	Fl A
200	183c	<i>Stenoglottis fimbriata</i>	Orchidaceae	Fl A
201	305c	Leopard Orchid, <i>Ansellia africana</i>	Orchidaceae	Fl A
202	382c	<i>Calanthe sylvatica</i>	Orchidaceae	Fl A
203	434c	<i>Disa uniflora</i>	Orchidaceae	Fl A
<b>DENMARK</b>		<b>2014 October 18</b> (Winter Poetry, Berries)		
1694	6.50k	Snowberries, <i>Symphoricarpos albus</i>	Caprifoliaceae	Fr A
1694a		Bklt pane 10 (Sc#1694)		
1695	9k	Lingonberries, <i>Vaccinium vitis-idaea</i>	Ericaceae	Fr A
1695a		Bklt pane 10 (Sc#1695)		
1696	14k	Firethorn, <i>Pyracantha sp.</i>	Rosaceae	Fr A
<b>ECUADOR</b>		<b>2014 August 11</b> (Intl. Year Family Farming) (Set of 3)		
2125	75c	Woman next to tree		T B U
2127	\$2	Man harvesting cacao, <i>Theobroma cacao</i>	Malvaceae	Fr T B
<b>FALKLAND ISLANDS</b>		<b>2014 September 16</b> (Color of Nature Type of 2012) (Two s/t pairs)		
1122b	90p	Marsh Marigold, <i>Caltha sagittata</i>	Ranunculaceae	Fl A
1123b	75p	Vanilla Daisies, <i>Leucheria suaveolens</i>	Asteraceae	Fl A
		<b>2014 December 8</b> (Battle of Falkland Islands Centenary)		
1126	£1	Poppies, <i>Papaver rhoeas</i> (with British & German flags)	Papaveraceae	Fl B
<b>FINLAND</b>		<b>2014 October 23</b> (Changes in Everyday Items) (Bklt pane 6)		
1478b	€1	Potatoes, <i>Solanum tuberosum</i>	Solanaceae	Fr V B
		Olives, <i>Olea europea</i>	Oleaceae	Fr V B
<b>GAMBIA</b>		<b>2014 May 12</b> (Paintings by Cézanne) (MS of 4)		
3576b	50d	“Flowers in a Vase”		Fl A U
3576d	50d	“Still Life with Pomegranate and Pears”		Fr A MS
<b>GERMANY</b>		<b>2014 July 3</b> (Flower Type of 2005) (coil die cut 10¼×10)		
2419A	28c	Centauray, Tausendgüldenkraut, <i>Centaureum calycosum</i>	Gentianaceae	Fl A
<b>GREAT BRITAIN</b>		<b>2014 July 28</b> (World War I Centenary)		
3312	1st (62p)	Poppy, <i>Papaver rhoeas</i>	Papaveraceae	Fl A
<b>GREECE</b>		<b>2014 April 24</b> (Months of the Year) (Set of 12 & two s/a bklt)		
2621	2c	Daisies in field (April)	Asteraceae	Fl B
2624	50c	Pomegranates (January), <i>Punica granatum</i>	Punicaceae	Fr A
2626	80c	Melons (August), <i>Citrullus lanatus</i> & <i>Cucumis melo</i>	Cucurbitaceae	Fr A
2629	€1	Grapes (September), <i>Vitis vinifera</i>	Vitaceae	Fr A
2630	€2.62	Floral wreath (May)		Fl Wr
2634	80c	Melons (August) (s/a), <i>Citrullus lanatus</i> & <i>Cucumis melo</i>	Cucurbitaceae	Fr A
2634a		Bklt pane 10 (Sc#2634) (s/a)		
<b>GRENADA</b>		<b>2014 June 23</b> (Paintings) (MS of 3)		
4006c	\$3.60	Ptg. by Odilion Redon: “Flowers in a Brown Vase”		Fl A
<b>HUNGARY</b>		<b>2014 August 6</b> (Fruit and Blossoms Type of 2011) (Set of 2)		
4322	245fo	Plums, <i>Prunus domestica</i>	Rosaceae	Fr A
4323	260fo	Strawberries, <i>Fragaria x ananassa</i>	Rosaceae	Fr A

<b>ITALY</b>		<b>2014 March 21</b> (Renewable Energy) (MS of 6 s/a)		
3222d	70c	Wind blowing palm trees	Areaceae	T A MS
3222f	70c	Biomass: Unidentified grasses	Poaceae	V A MS
		<b>2014 May 23</b> (Botanical Gardens Type of 2012) (Set of 3)		
3235	70c	Minerva Garden, Salerno		V B
3236	70c	Etna Park		V B
3237	70c	Goia del Furio State Nature Preserve		V B
<b>KENYA</b>		<b>2013 December 13</b> (Independence 50th anniv.) (Sheet of 25)		
868p	30s	Horticulture		Fl A
868r	30s	Agriculture: Maize, <i>Zea mays</i>	Poaceae	Fr A
<b>KIRIBATI</b>		<b>2014 June 16</b> (Mangroves) (Set of 4)		
1013	45c	Building near mangroves		T B U
1014	75c	Man and boys on beach near mangroves		T B U
1015	\$1	People near mangroves		T B U
1016	\$3	People planting mangroves		T B U
<b>MAURITIUS</b>		<b>2014 March 28</b> (Flora and Fauna) (Set of 3)		
1139	25r	Pignon d'inde, <i>Jatropha integerrima</i>	Euphorbiaceae	Fr V A
<b>MEXICO</b>		<b>2014 September 5</b> (Greetings) (Horiz strip of 5)		
2882c	7p	Flowers		Fl A
<b>NEW ZEALAND</b>		<b>2014 September 3</b> (Children and Vegetables)		
B213	80c+10c	Carrots, <i>Daucus carota</i> (with girl) (perf 14)	Apiaceae	V B
B214	\$1.40+10c	Apple, <i>Malus domestica</i> (with boy) (perf 14)	Rosaceae	Fr B
B213a	80c+10c	Carrots, <i>Daucus carota</i> (with girl) (perf 13½)	Apiaceae	V B
B214a	\$1.40+10c	Apple, <i>Malus domestica</i> (with boy) (perf 13½)	Rosaceae	Fr B
B215a	80c+10c	Pumpkin, <i>Cucurbita pepo</i> (with boy)	Cucurbitaceae	Fr B
B215		SS of 3 (Sc#B213a-15a)		
B216	80c+10c	Pumpkin, <i>Cucurbita pepo</i> (with boy) (s/a)	Cucurbitaceae	Fr B
<b>NORFOLK ISLAND</b>		<b>2014 July 22</b> (Norfolk Island Pine) (Joint with Australia)		
1090	20c	Norfolk Island Pine, <i>Araucaria heterophylla</i> (Cottesloe Beach)	Araucariaceae	T B
1091	70c	Norfolk Island Pine, <i>Araucaria heterophylla</i> (Military Barracks)	Araucariaceae	T B
		<b>2014 August 15</b> (Norfolk Island Quota Intl. Club 35th anniv.) (Set of 3)		
1092-94		Norfolk Island Pine and views, <i>Araucaria heterophylla</i>	Araucariaceae	T B
		<b>2014 September 29</b> (Aspects of Norfolk Island Pines)		
1096a	70c	Tree tip, <i>Araucaria heterophylla</i>	Araucariaceae	T A
1096b	70c	Developing cone, <i>Araucaria heterophylla</i>	Araucariaceae	Fr A
1096c	70c	Seedling, <i>Araucaria heterophylla</i>	Araucariaceae	T A
1096d	70c	Forest, <i>Araucaria heterophylla</i>	Araucariaceae	T A
1096e	70c	Seeds, <i>Araucaria heterophylla</i>	Araucariaceae	Fr A
1096f	70c	Branches, <i>Araucaria heterophylla</i>	Araucariaceae	T A
1096g	70c	Needles, <i>Araucaria heterophylla</i>	Araucariaceae	T A
1096h	70c	Hollow trunk, <i>Araucaria heterophylla</i>	Araucariaceae	T A
1096i	70c	Trees, <i>Araucaria heterophylla</i>	Araucariaceae	T A
1096j	70c	Single tree, <i>Araucaria heterophylla</i>	Araucariaceae	T A
1096		Bklt pane 10 (Sc#1096a-j)		
<b>SLOVAKIA</b>		<b>2014 June 6</b> (Stamps with labels to personalize)		
692	(45c)	Dandelion, <i>Taraxacum campyloides</i> (=officinale) (with ladybug)	Asteraceae	Fl A

**SWEDEN****2014 August 21** (Collage of leaves, berries, flowers, stems)

2733	(6.50k)	Collage		Fl Fr V A U
2734	(7k)	Collage (white bkgrd)		Fl Fr V A U
2735a	(7k)	Collage (green bkgrd)		Fl Fr V A U
2735b	(7k)	Collage (green bkgrd)		Fl Fr V A U
2735c	(7k)	Collage (green bkgrd)		Fl Fr V A U
2735d	(7k)	Collage (green bkgrd)		Fl Fr V A U
2735e	(7k)	Collage (green bkgrd)		Fl Fr V A U
2735		Vert strip of 5 (Sc#2735a–e)		
2735f		Bklt pane 10 (2ea Sc#2735a–e)		

**TONGA****2013 June 6** (Birds and Flora) (Set of 12 & MS of 12)

1203	10s	Saga tree, <i>Adenanthera pavonina</i>	Fabaceae	Fl B
1204	20s	<i>Myristica hypargyrea</i>	Myristicaceae	Fl B
1205	30s	Breadfruit, <i>Artocarpus altilis</i>	Moraceae	Fl B
1206	40s	Sea Hibiscus, <i>Hibiscus tiliaceus</i>	Malvaceae	Fl B
1207	50s	Sea Almond, <i>Terminalia catappa</i>	Combretaceae	Fl B
1208	80s	Coconut, <i>Cocos nucifera</i>	Arecaceae	Fl B
1209	90s	<i>Elattostachys falcata</i>	Sapindaceae	Fl B
1210	1.10pa	<i>Tarennia sambucina</i>	Rubiaceae	Fl B
1211	1.20pa	Giant Sensitive Tree, <i>Mimosa pigra</i>	Fabaceae	Fl B
1212	2pa	Woolly Nightshade, Wild Tobacco, <i>Solanum mauritianum</i>	Solanaceae	Fl B
1213	12.50pa	Saga tree, <i>Adenanthera pavonina</i>	Fabaceae	Fl B
1214	20pa	Guava, <i>Psidium guajava</i>	Myrtaceae	Fl B
1215a	10s	Saga tree, <i>Adenanthera pavonina</i>	Fabaceae	Fl B
1215b	20s	<i>Myristica hypargyrea</i>	Myristicaceae	Fl B
1215c	30s	Breadfruit, <i>Artocarpus altilis</i>	Moraceae	Fl B
1215d	40s	Sea Hibiscus, <i>Hibiscus tiliaceus</i>	Malvaceae	Fl B
1215e	50s	Sea Almond, <i>Terminalia catappa</i>	Combretaceae	Fl B
1215f	80s	Coconut, <i>Cocos nucifera</i>	Arecaceae	Fl B
1215g	90s	<i>Elattostachys falcata</i>	Sapindaceae	Fl B
1215h	1.10pa	<i>Tarennia sambucina</i>	Rubiaceae	Fl B
1215i	1.20pa	Giant Sensitive Tree, <i>Mimosa pigra</i>	Fabaceae	Fl B
1215j	2pa	Woolly Nightshade, Wild Tobacco, <i>Solanum mauritianum</i>	Solanaceae	Fl B
1215k	12.50pa	Saga tree, <i>Adenanthera pavonina</i>	Fabaceae	Fl B
1215l	20pa	Guava, <i>Psidium guajava</i>	Myrtaceae	Fl B
1215		MS of 12 (Sc#1215a–l) (without white frames)		

**2014 May 9** (Sc#1203–14 ovpt “OFFICIAL”)

O100	10s	Saga tree, <i>Adenanthera pavonina</i>	Fabaceae	Fl B
O101	20s	<i>Myristica hypargyrea</i>	Myristicaceae	Fl B
O102	30s	Breadfruit, <i>Artocarpus altilis</i>	Moraceae	Fl B
O103	40s	Sea Hibiscus, <i>Hibiscus tiliaceus</i>	Malvaceae	Fl B
O104	50s	Sea Almond, <i>Terminalia catappa</i>	Combretaceae	Fl B
O105	80s	Coconut, <i>Cocos nucifera</i>	Arecaceae	Fl B
O106	90s	<i>Elattostachys falcata</i>	Sapindaceae	Fl B
O107	1.10pa	<i>Tarennia sambucina</i>	Rubiaceae	Fl B
O108	1.20pa	Giant Sensitive Tree, <i>Mimosa pigra</i>	Fabaceae	Fl B
O109	2pa	Woolly Nightshade, Wild Tobacco, <i>Solanum mauritianum</i>	Solanaceae	Fl B
O110	12.50pa	Saga tree, <i>Adenanthera pavonina</i>	Fabaceae	Fl B
O111	20pa	Guava, <i>Psidium guajava</i>	Myrtaceae	Fl B

**UNITED STATES****2014 October 1** (Stamped envelope)

U684	(49c)	Poinsettia, <i>Euphorbia pulcherrima</i>	Euphorbiaceae	Fl A
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# MAMMALIA

Editor

Michael Prince, LM68



## New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
<b>AZERBAIJAN</b> <b>2014 May 7</b> (International Dialogue for Environmental Action)				
1057a	10g	Goitered Gazelle, <i>Gazella subgutturosa</i>	Bovidae	
1057b	20g	Leopard, <i>Panthera pardus</i>	Felidae	
1057d	50g	Brown Bear, <i>Ursus arctos</i>	Ursidae	
1057e	60g	Grey Wolf, <i>Canis lupus</i>	Canidae	
<b>BELGIUM</b> <b>2014 February 17</b> (Paintings of Mammals by Andre Buzin)				
2686a	(€1.40)	European Rabbit, <i>Oryctolagus cuniculus</i>	Leporidae	
2686b	(€1.40)	Red Fox, <i>Vulpes vulpes</i>	Canidae	
2686c	(€1.40)	Eurasian Lynx, <i>Lynx lynx</i>	Felidae	
2686d	(€1.40)	Western Roe Deer, <i>Capreolus capreolus</i>	Cervidae	
2686e	(€1.40)	Wild Boar, <i>Sus scrofa</i>	Suidae	
<b>BOSNIA &amp; HERZEGOVINA (Croat) 2013 November 1</b> (Otter)				
294a	3.10m	European Otter, <i>Lutra lutra</i>	Mustelidae	
294b	3.10m	European Otter, <i>Lutra lutra</i>	Mustelidae	
294c	3.10m	European Otter, <i>Lutra lutra</i>	Mustelidae	
294d	3.10m	European Otter, <i>Lutra lutra</i>	Mustelidae	
<b>BOSNIA &amp; HERZEGOVINA (Serb) 2013 September 20</b> (Bats)				
483a	90pf	Greater Horseshoe Bat, <i>Rhinolophus ferrumequinum</i>	Rhinolophidae	
483b	90pf	Mouse-eared Myotis, <i>Myotis myotis</i>	Vespertilionidae	
483c	90pf	Mediterranean Horseshoe Bat, <i>Rhinolophus euryale</i>	Rhinolophidae	
483d	90pf	Schreiber's Long-fingered Bat, <i>Miniopterus schreibersi</i>	Vespertilionidae	
<b>BOTSWANA</b> <b>2014 June 20</b> (Lions of the Chobe)				
953	3.50p	Lion, <i>Panthera leo</i>	Felidae	
954	5.40p	Lion, <i>Panthera leo</i>	Felidae	
955	7.30p	Lion, <i>Panthera leo</i>	Felidae	
956	8p	Lion, <i>Panthera leo</i>	Felidae	
<b>BRAZIL</b> <b>2013 December 12</b> (Diplomatic Relations with Kenya)				
3263	2.90r	Grevy's Zebra, <i>Equus grevyi</i>	Equidae	
<b>CAPE VERDE</b> <b>2007 June 14</b> (Whaling)				
892	20e	North Atlantic Right Whale, <i>Eubalaena glacialis</i>	Balaenidae	
893	30e	Unidentified striped whale		
894	40e	Unidentified breaching whale		
895	60e	Fin Whale, <i>Balaenoptera physalus</i>	Balaenopteridae	
<b>ECUADOR</b> <b>2013 November 21</b> (Ecuadorian Presence in the Antarctic, 25th anniv.)				
2109b	50c	Weddell Seal, <i>Leptonychotes weddellii</i>	Phocidae	
<b>ESTONIA</b> <b>2014 August 25</b> (Tallinn Zoo, 75th anniv.)				
766b	55c	Leopard, <i>Panthera pardus</i>	Felidae	



<b>FRANCE</b>		<b>2014 March 21</b> (Bears)			
4585	61c	Giant Panda, <i>Ailuropoda melanoleuca</i>		Ursidae	
4586a	61c	Spectacled Bear, <i>Tremarctos ornatus</i>		Ursidae	
4586b	61c	American Black Bear, <i>Ursus americanus</i>		Ursidae	
4586c	61c	Polar Bear, <i>Ursus maritimus</i>		Ursidae	
<b>FRANCE</b>		<b>2014 June 15</b> (Paris Zoo, 80th anniv.)			
4639	98c	Black Lemur, <i>Eulemur macaco</i>		Lemuridae	
		Leopard, <i>Panthera pardus</i>		Felidae	
		Giraffe, <i>Giraffa camelopardalis</i>		Giraffidae	
<b>FRENCH SOUTHERN &amp; ANTARCTIC TERR.</b>		<b>2014 June 26</b> (Dolphins)			
509a	63c	Commerson's Dolphin, <i>Cephalorhynchus commersonii</i>		Delphinidae	
509b	66c	Commerson's Dolphin, <i>Cephalorhynchus commersonii</i>		Delphinidae	
509c	66c	Commerson's Dolphin, <i>Cephalorhynchus commersonii</i>		Delphinidae	
509d	€1.05	Commerson's Dolphin, <i>Cephalorhynchus commersonii</i>		Delphinidae	
<b>GAMBIA</b>		<b>2014 September 4</b> (Meerkats)			
3590a	50d	Meerkat, <i>Suricata suricatta</i>		Herpestidae	
3590b	50d	Meerkat, <i>Suricata suricatta</i>		Herpestidae	
3590c	50d	Meerkat, <i>Suricata suricatta</i>		Herpestidae	
3590d	50d	Meerkat, <i>Suricata suricatta</i>		Herpestidae	
<b>GRENADA</b>		<b>2014 January 20</b> (Animals of China)			
3948a	\$3.25	Red Panda, <i>Ailurus fulgens</i>		Ailuridae	
3948d	\$3.25	Tiger, <i>Panthera tigris</i>		Felidae	
3949	SS \$9	Giant Panda, <i>Ailuropoda melanoleuca</i>		Ursidae	
<b>GRENADA GRENADINES</b>		<b>2013 October 16</b> (Bats)			
2852a	\$3.50	Big Naked-backed Bat, <i>Pteronotus gymnonotus</i>		Mormoopidae	<b>new</b>
2852b	\$3.50	Particolored Bat, <i>Vespertilio murinus</i>		Vespertilionidae	
2852c	\$3.50	Geoffroy's Horseshoe Bat, <i>Rhinolophus clivosus</i>		Rhinolophidae	
2852d	\$3.50	Asian Particolored Bat, <i>Vespertilio sinensis</i>		Vespertilionidae	
2853	SS \$9	North American Long-nosed Bat, <i>Leptonycteris yerbabuenae</i>		Phyllostomidae	
<b>HUNGARY</b>		<b>2014 March 4</b> (Baby Animals at the Budapest Zoo)			
4306a	115fo	Giraffe, <i>Giraffa camelopardalis</i>		Giraffidae	
4306b	115fo	Linnaeus's Two-toed Sloth, <i>Choloepus didactylus</i>		Megalonychidae	
4306c	115fo	Barbary Sheep, <i>Ammotragus lervia</i>		Bovidae	
4306d	115fo	Sumatran Orangutan, <i>Pongo abelii</i>		Hominidae	
4306e	115fo	Blackbuck, <i>Antilope cervicapra</i>		Bovidae	
4306f	115fo	Black-tailed Prairie Dog, <i>Cynomys ludovicianus</i>		Sciuridae	
4306g	115fo	Ground Cuscus, <i>Phalanger gymnotis</i>		Phalangeridae	<b>new</b>
4306h	115fo	Meerkat, <i>Suricata suricatta</i>		Herpestidae	
4306i	115fo	Ring-tailed Lemur, <i>Lemur catta</i>		Lemuridae	
4306k	115fo	Lion, <i>Panthera leo</i>		Felidae	
4306l	115fo	Common Wombat, <i>Vombatus ursinus</i>		Vombatidae	
<b>MAURITIUS</b>		<b>2014 March 28</b> (Flora and Fauna)			
1138	14r	Rodrigues Flying Fox, <i>Pteropus rodricensis</i>		Pteropodidae	

<b>SOUTH AFRICA</b>		<b>2014 May 9</b> (Big Game Animals)	
1521a	(7.20r)	Leopard, <i>Panthera pardus</i>	Felidae
1521b	(7.20r)	Lion, <i>Panthera leo</i>	Felidae
1521c	(7.20r)	African Buffalo, <i>Syncerus caffer</i>	Bovidae
1521d	(7.20r)	Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae
1521e	(7.20r)	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae
C119	(6.05r)	African Buffalo, <i>Syncerus caffer</i>	Bovidae
C120	(6.05r)	African Bush Elephant, <i>Loxodonta africana</i>	Elephantidae
C121	(6.05r)	Leopard, <i>Panthera pardus</i>	Felidae
C122	(6.05r)	Black Rhinoceros, <i>Diceros bicornis</i>	Rhinocerotidae
C123	(6.05r)	Lion, <i>Panthera leo</i>	Felidae
<b>SOUTH GEORGIA &amp; SOUTH SANDWICH IS.</b>		<b>2014 October 14</b> (Reindeer on South Georgia)	
502	65p	Reindeer (Caribou), <i>Rangifer tarandus</i>	Cervidae
503	75p	Reindeer (Caribou), <i>Rangifer tarandus</i>	Cervidae
504	£1	Reindeer (Caribou), <i>Rangifer tarandus</i>	Cervidae
505	£1.20	Reindeer (Caribou), <i>Rangifer tarandus</i>	Cervidae
<b>SWITZERLAND</b>		<b>2014 September 4</b> (Wildlife)	
1532	85c	Least Weasel, <i>Mustela nivalis</i>	Mustelidae
1533	100c	Alpine Marmot, <i>Marmota marmota</i>	Sciuridae
1535	190c	Red Deer(Elk), <i>Cervus elaphus</i>	Cervidae

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

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# ORNITHOLOGY

Editor

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Updates/Corrections



**SAMOA – Vol. 63(3), p.185**

**Correction:** Sc#1150 should be Sc#1151

## New Issues

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

**2014 June 23**

**A\***

Two MS of four stamps each and two SS with two stamps each. This issue is titled, “Parrots of the World,” but no species of parrots are in resident in Antigua and Barbuda, which is the country name printed on the stamps. Scott Catalog lists Antigua and Barbuda under the name Antigua. **Note:** A number of species genus under Psittacidae have been placed in a new family of Psittaculidae.

3243a	\$4.75	Eclectus Parrot, <i>Eclectus roratus</i>	Psittaculidae	
3243b	\$4.75	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
3243c	\$4.75	Black-capped Lory, <i>Lorius lory</i>	Psittaculidae	
3243d	\$4.75	Sun Parakeet, <i>Aratinga solstitialis</i>	Psittacidae	
	Margin	R: Sun Parakeet, <i>Aratinga solstitialis</i>	Psittacidae	
3244a	\$4.75	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
3244b	\$4.75	Lilac-crowned Parrot, <i>Amazona finschi</i> (Cap: Lilac-crowned Amazon)	Psittacidae	
3244c	\$4.75	Saint Vincent Parrot, <i>Amazona guildingii</i> (Cap: Saint Vincent Amazon)	Psittacidae	
3244d	\$4.75	Rose-ringed Parakeet, <i>Psittacula krameri</i> (Cap: Indian Ring-necked Parakeet v. Yellow <i>Psittacula krameri manillensis</i> , which is a subspecies)	Psittaculidae	
	Margin	R: Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae	
3245a	\$9.50	Scarlet Macaw, <i>Ara macao</i>	Psittacidae	
3245b	\$9.50	Yellow-headed Parrot, <i>Amazona oratrix</i> (Cap: Yellow-headed Amazon)	Psittacidae	
	Margin	R: Eclectus Parrot, <i>Eclectus roratus</i>	Psittaculidae	
3246a	\$9.50	Rainbow Lorikeet, <i>Trichoglossus haematodus</i>	Psittaculidae	
3246b	\$9.50	Hyacinth Macaw, <i>Anodorhynchus hyacinthinus</i>	Psittacidae	
	Margin	R: Black-capped Lory, <i>Lorius lory</i>	Psittaculidae	

### BRAZIL

**2014 June 10**

**A\***

Two s/t stamps issued to commemorate diplomatic relations with the Philippines. The stamps show two eagles in full length portrait photos with a label below each stamp of the head only.

3278a	2,90r	Crowned Eagle, <i>Buteogallus coronatus</i> (Photo by William Mong)	Accipitridae	
3278b	2,90r	Great Philippine Eagle, <i>Pithecophaga jefferyi</i> (Photo by Ryan Capat Arergo)	Accipitridae	

**CENTRAL AFRICAN REPUBLIC 2013 March 25****B**

Scott Publishing is still behind in assigning catalog numbers to this country. I last listed issues of the Central African Republic in Vol. 63(2). MS of 4 s/t stamps and a SS depicting "Lighthouses" with each stamp featuring a bird.

a,b,c,d	750fr	Common Tern, <i>Sterna hirundo</i>	Laridae
	SS 2650fr	Common Tern, <i>Sterna hirundo</i> (also in top margin)	Laridae

**2013 June 10****A\***

MS of four s/t stamps and a SS depicting dolphins and seabirds, but only two of the four feature a bird. The pelican shown on the MS stamp is better than the one shown on a 1973 stamp issued by Peru.

b	900fr	Northern Gannet, <i>Morus bassanus</i>	Sulidae
c	900fr	Peruvian Pelican, <i>Pelecanus thagus</i>	Pelecanidae
	Margin	LL: Sooty Tern, <i>Onychoprion fuscatus</i>	Laridae
	SS 3000fr	Sooty Tern, <i>Onychoprion fuscatus</i> (with Commerson's dolphin)	Laridae
	Margin	UL: Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae

MS of four s/t stamps and a SS depicting owls and birds of prey.

a	750fr	Rough-legged Buzzard, <i>Buteo lagopus</i>	Accipitridae
b	750fr	Little Owl, <i>Athene noctua</i>	Strigidae
c	750fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae
d	750fr	Southern Crested Caracara, <i>Caracara planus</i>	Falconidae
	Margin	LL: Long-eared Owl, <i>Asio otus</i>	Strigidae
		LR: Northern Harrier, <i>Circus cyaneus</i>	Accipitridae
	SS 2650fr	Long-eared Owl, <i>Asio otus</i>	Strigidae
	Margin	UL: Spotted Eagle-owl, <i>Bubo africanus</i>	Strigidae
		LR: Osprey, <i>Pandion haliaetus</i>	Pandionidae

MS of four s/t stamps depicting art paintings at the Amsterdam Rijksmuseum, with one stamp showing a painting by Melchior de Hondecoeter, (1636-1695) that shows 13 species of birds.

a	750fr	Great White Pelican, <i>Pelecanus onocrotalus</i>	Pelecanidae
		Eurasian Teal, <i>Anas crecca</i>	Anatidae
		(Now a subspecies of Green-winged Teal)	
		Common Merganser, <i>Mergus merganser</i>	Anatidae
		Red-breasted Goose, <i>Branta ruficollis</i>	Anatidae
		Eurasian Wigeon, <i>Anas Penelope</i>	Anatidae
		Northern Pintail, <i>Anas acuta</i>	Anatidae
		Southern Cassowary, <i>Casuarius casuarius</i>	Casuariidae
		American Flamingo, <i>Phoenicopterus ruber</i>	Phoenicopteridae
		Black Crowned-Crane, <i>Balearica pavonina</i>	Gruidae
		Smew, <i>Mergellus albellus</i>	Anatidae
		Egyptian Goose, <i>Alopochen aegyptiaca</i>	Anatidae
		Sarus Crane, <i>Grus antigone</i>	Gruidae
		Eurasian Golden Oriole, <i>Oriolus oriolus</i>	Oriolidae

**2013 August 30****A**

MS of four s/t stamps and a SS depicting parrots.

a	900fr	L: Orange-winged Parrot, <i>Amazona amazonica</i>	Psittacidae
		R: Gray Parrot, <i>Psittacus erithacus</i>	Psittacidae
b	900fr	Mealy Parrot, <i>Amazona farinose</i>	Psittacidae
c	900fr	Pileated Parrot, <i>Pionopsitta pileata</i>	Psittacidae
d	900fr	Black-capped Lory, <i>Lorius lory</i>	Psittaculidae
	Margin	LL: Scarlet Macaw, <i>Ara macao</i>	Psittacidae
		LR: Lilac-crowned Parrot, <i>Amazona finschi</i>	Psittacidae
		LR: Turquoise-fronted Parrot, <i>Amazona aestiva</i>	Psittacidae

**CENTRAL AFRICAN REPUBLIC** (continued)

SS 3000fr	Yellow-billed Parrot, <i>Amazona collaria</i>	Psittacidae
Margin	LL: Scarlet Macaw, <i>Ara macao</i>	Psittacidae
	LR: Yellow-headed Parrot, <i>Amazona oratrix</i>	Psittacidae
	(Both species in margin shown entirely in green color.)	

**2014 May 20****A\***

MS of four stamps and a SS depicting owls.

a	750fr	Barn Owl, <i>Tyto alba</i>	Tytonidae
b	750fr	Snowy Owl, <i>Bubo scandiacus</i>	Strigidae
c	750fr	Northern Long-eared Owl, <i>Asio otus</i>	Strigidae
d	750fr	Little Owl, <i>Athene noctua</i>	Strigidae
	SS 2650fr	Great Horned Owl, <i>Bubo virginianus</i>	Strigidae
Margin		Several U/I sp.	

MS of four stamps and a SS depicting peacocks.

a	750fr	Indian Peafowl, <i>Pavo cristatus</i> (displaying tail feathers)	Phasianidae
b	750fr	Indian Peafowl, <i>Pavo cristatus</i> (walking left)	Phasianidae
c	750fr	Indian Peafowl, <i>Pavo cristatus</i> (looking right)	Phasianidae
d	750fr	Green Peafowl, <i>Pavo muticus</i>	Phasianidae
	SS 2650fr	Indian Peafowl, <i>Pavo cristatus</i>	Phasianidae
Margin		Indian Peafowl, <i>Pavo cristatus</i>	Phasianidae

MS of four stamps and a SS depicting birds of prey.

a	750fr	Red-footed Falcon, <i>Falco vespertinus</i>	Falconidae
b	750fr	Osprey, <i>Pandion haliaetus</i>	Pandionidae
c	750fr	African Grass-Owl, <i>Tyto capensis</i>	Tytonidae
d	750fr	Wahlberg's Eagle, <i>Hieraetus wahlbergi</i> (Cap: <i>Aquila wahlbergi</i> )	Accipitridae
	SS 2650fr	Crowned Eagle, <i>Buteogallus coronatus</i>	Accipitridae
Margin		Several U/I sp.	

MS of four stamps and a SS depicting hummingbirds.

a	750fr	Green Violetear, <i>Colibri thalassinus</i>	Trochilidae
b	750fr	Sparkling Violetear, <i>Colibri coruscans</i>	Trochilidae
c	750fr	Brown Violetear, <i>Colibri delphinae</i>	Trochilidae
d	750fr	White-vented Violetear, <i>Colibri serrirostris</i>	Trochilidae
	SS 2650fr	Green Violetear, <i>Colibri thalassinus</i>	Trochilidae

MS of four stamps and a SS depicting eagles.

a	900fr	White-bellied Sea-Eagle, <i>Haliaeetus leucogaster</i>	Accipitridae
b	900fr	Martial Eagle, <i>Polemaetus bellicosus</i>	Accipitridae
c	900fr	Golden Eagle, <i>Aquila chrysaetos</i>	Accipitridae
d	900fr	Steller's Sea-Eagle, <i>Haliaeetus pelagicus</i>	Accipitridae
	SS 3000fr	Bald Eagle, <i>Haliaeetus leucocephalus</i>	Accipitridae
Margin		Several U/I sp.	

MS of four stamps and a SS depicting sea birds.

a	900fr	Great White Pelican, <i>Pelecanus onocrotalus</i>	Pelecanidae
b	900fr	Long-tailed Cormorant, <i>Phalacrocorax africanus</i> (Cap: <i>Microcarbo africanus</i> )	Phalacrocoracidae
c	900fr	Gray Heron, <i>Ardea cinerea</i>	Ardeidae
d	900fr	Little Heron, <i>Tachybaptus ruficollis</i>	Podicipedidae
	SS 3000fr	Pink-backed Pelican, <i>Pelecanus rufescens</i>	Pelecanidae
Margin		Several U/I sp.	

**CENTRAL AFRICA (continued) 2014 June 20****A\***

MS of four stamps depicting species on the Red List. The bird is in the margin.

Margin UR: Red-cockaded Woodpecker, *Picoides borealis* Picidae

MS of four stamps and a SS depicting extinct species. Only one stamp on the MS features a bird.

a 750fr Mascarene Parrot, †*Mascarinus mascarinus* PsittacidaeMargin UR: Chatham Island Bellbird, †*Anthornis melanocephala* Meliphagidae **new**SS 2650fr Norfolk Kaka, †*Nestor productus* PsittacidaeMargin Hawai'i 'Ō'ō, †*Moho nobilis* Meliphagidae

MS of four stamps on "global warming." Only one stamp features a bird.

d 900fr Adelie Penguin, *Pygoscelis adeliae* Spheniscidae**2014 November 20****A\***

MS of four stamps and a SS depicting hornbills imprinted for World Youth Stamp Exhibition, Malaysia, 2014.

a 900fr Rhinoceros Hornbill, *Buceros rhinoceros* (head looking right) Bucerotidaeb 900fr Rhinoceros Hornbill, *Buceros rhinoceros* (bending left) Bucerotidaec 900fr Rhinoceros Hornbill, *Buceros rhinoceros* (perched looking left) Bucerotidaed 900fr Rhinoceros Hornbill, *Buceros rhinoceros* (head looking left) BucerotidaeMargin bkgrd: Rhinoceros Hornbill, *Buceros rhinoceros* BucerotidaeSS 3000fr Rhinoceros Hornbill, *Buceros rhinoceros* BucerotidaeMargin bkgrd: Rhinoceros Hornbill, *Buceros rhinoceros* Bucerotidae

MS of four stamps and a SS depicting parrots.

a 900fr Gray Parrot, *Psittacus erithacus* Psittacidaeb 900fr Sulphur-crested Cockatoo, *Cacatua galerita* Cacatuidaec 900fr Rainbow Lorikeet, *Trichoglossus moluccanus* Psittaculidae  
(Caption has species name of subspecies)d 900fr Eastern Rosella, *Platycercus eximius* Psittaculidae

Margin U/I sp.

SS 3000fr Scarlet Macaw, *Ara macao* Psittacidae

Margin U/I sp.

MS of four stamps and a SS depicting owls.

a 900fr Great Horned Owl, *Bubo virginianus* Strigidaeb 900fr Snowy Owl, *Bubo scandiacus* Strigidaec 900fr Little Owl, *Athene noctua* Strigidaed 900fr Spotted Owl, *Strix occidentalis* StrigidaeMargin L: Little Owl, *Athene noctua* StrigidaeSS 3000fr Eastern Screech-Owl, *Megascops asio* StrigidaeMargin bkgrd: Eastern Screech-Owl, *Megascops asio* Strigidae

MS of four stamps and a SS depicting birds of prey.

a 750fr Bald Eagle, *Haliaeetus leucocephalus* Accipitridaeb 750fr Martial Eagle, *Polemaetus bellicosus* Accipitridaec 750fr Bateleur, *Terathopius ecaudatus* Accipitridaed 750fr Harris's Hawk, *Parabuteo unicinctus* Accipitridae

Margin U/I sp.

SS 2650fr Red-tailed Hawk, *Buteo jamaicensis* AccipitridaeMargin bkgrd: Red-tailed Hawk, *Buteo jamaicensis* Accipitridae

MS of four stamps and a SS depicting water birds.

a 750fr Mallard, *Anas platyrhynchos* Anatidaeb 750fr Great Egret, *Ardea alba* Ardeidaec 750fr Black-necked Swan, *Cygnus melancoryphus* Anatidaed 750fr Red-breasted Merganser, *Mergus serrator* Anatidae

**CENTRAL AFRICAN REPUBLIC** (continued)SS 2650fr Wood Duck, *Aix sponsa*

Anatidae

Margin bkgrd: Swan, *Cygnus* sp.

Anatidae

MS of four stamps depicting the fastest animals.

a 750fr Peregrine Falcon, *Falco peregrinus*

Falconidae

**2014 December 15****A\***

MS of four stamps depicting "Animals in the Bible" with one featuring a bird.

a 750fr Bald Eagle, *Haliaeetus leucocephalus*

Accipitridae

Margin UR: Dove, *Streptopelia* sp.

Columbidae

MS of four stamps and SS depicting birds.

a 900fr Ring-necked Pheasant, *Phasianus colchicus*

Phasianidae

b 900fr Palm Cockatoo, *Probosciger aterrimus*

Cacatuidae

c 900fr Green Aracari, *Pteroglossus viridis*

Ramphastidae

d 900fr Blue Jay, *Cyanocitta cristata*

Corvidae

Margin UR: Copper Pheasant, *Symaticus soemmerringii* ♂ & ♀

Phasianidae

LL: Sun Parakeet, *Aratinga solstitialis*

Psittacidae

SS 3000fr Toco Toucan, *Ramphastos toco*

Ramphastidae

Margin Red-breasted Toucan, *Ramphastos dicolorus* ♂ & ♀

Ramphastidae

MS of four stamps and SS depicting bee-eaters.

a 750fr Somali Bee-eater, *Merops revoilii*

Meropidae

**new**b 750fr Blue-breasted Bee-eater, *Merops variegates*

Meropidae

c 750fr Green Bee-eater, *Merops orientalis*

Meropidae

d 750fr European Bee-eater, *Merops apiaster*

Meropidae

Margin LL & UR: European Bee-eater, *Merops apiaster*

Meropidae

SS 2650fr Northern Carmine Bee-eater, *Merops nubicus*

Meropidae

Margin LL & LR: European Bee-eater, *Merops apiaster*

Meropidae

MS of four stamps and SS depicting kingfishers.

a 900fr Belted Kingfisher, *Megaceryle alcyon*

Alcedinidae

b 900fr Yellow-billed Kingfisher, *Syma torotoro*

Alcedinidae

c 900fr Black-backed Dwarf-Kingfisher, *Ceyx erithacus*

Alcedinidae

d 900fr Kofiau Paradise-Kingfisher, *Tanyiptera ellioti*

Alcedinidae

**new**Margin LL & UR: Common Kingfisher, *Alcedo atthis*

Alcedinidae

SS 3000fr Common Kingfisher, *Alcedo atthis*

Alcedinidae

Margin LL/UR/LR: Common Kingfisher, *Alcedo atthis*

Alcedinidae

**CHINA PEOPLE'S REPUBLIC** **2014 February 23****A\***

Set of four stamps depicting birds of prey.

4174 \$1.20 Imperial Eagle, *Aquila heliaca*

Accipitridae

4175 \$1.20 Northern Harrier, *Circus cyaneus*

Accipitridae

4176 \$1.50 Northern Goshawk, *Accipiter gentilis*

Accipitridae

4177 \$1.50 Eurasian Kestrel, *Falco tinnunculus*

Falconidae

**CURAÇAO** **2014 March 14****A\***

Set of six stamps depicting birds of prey.

171 100c Bald Eagle, *Haliaeetus leucocephalus*

Accipitridae

172 200c Ornate Hawk-Eagle, *Spizaetus ornatus*

Accipitridae

173 250c Golden Eagle, *Aquila chrysaetos*

Accipitridae

174 300c Black-chested Buzzard-Eagle, *Geranoaetus melanoleucus*

Accipitridae

175 350c Southern Caracara, *Caracara plancus*

Falconidae

176 400c Osprey, *Pandion haliaetus*

Pandionidae

<b>DENMARK</b>		<b>2014 August 30</b>	<b>C*</b>
A self-adhesive stamp with a framed blank space, like a mirror, for greetings by Olafur Eliasson, with an owl in the lower left portion of the frame.			
1687	9k	Tawny Owl, <i>Strix aluco</i>	Strigidae
<b>ESTONIA</b>		<b>2014 August 25</b>	<b>A*</b>
Sheet of two stamps (Sc#766a–b) for the 75th Anniversary of the Tallinn Zoo, with one stamp featuring a bird.			
766a	55c	Lammergeier, <i>Gypaetus barbatus</i>	Accipitridae
<b>FALKLAND ISLANDS</b>		<b>2014 September 16</b>	<b>A*</b>
The third set in Falkland Islands “Color in Nature” series containing two pairs of fauna and flora (Sc#1122–23) with two stamps featuring birds.			
1122a	30p	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae
1123a	75p	Blackish Oystercatcher, <i>Haematopus ater</i>	Haematopodidae
<b>FRANCE</b>		<b>2013 November 7</b>	<b>A*</b>
Two official stamps (Sc#2071–72) for the U.N. Educational Scientific & Cultural Organization, with one stamp featuring birds. Printed by Philaposte.			
2071	58c	Red-crowned Crane, <i>Grus japonensis</i>	Gruidae
		<b>2014 June 15</b>	<b>B*</b>
Single, large, horizontal stamp for the 80th anniversary of the Paris Zoo showing a mix of animals, one being a bird.			
4639	98c	Greater Flamingo, <i>Phoenicopterus roseus</i>	Phoenicopteridae
<b>GAMBIA</b>		<b>2014 April 2</b>	<b>A*</b>
MS of three, MS of four, and two SS of one depicting African Penguins.			
3561a	50d	African Penguin, <i>Spheniscus demersus</i> (three birds standing)	Spheniscidae
3561b	50d	Same species (single bird)	Spheniscidae
3561c	50d	Same species (single bird in foreground/two in background)	Spheniscidae
3561	Margin	Top: Same species (five adults & one chick)	Spheniscidae
3562a	50d	African Penguin, <i>Spheniscus demersus</i> (three birds standing)	Spheniscidae
3562b	50d	Same species (two birds)	Spheniscidae
3562c	50d	Same species (single bird)	Spheniscidae
3562d	50d	Same species (two birds)	Spheniscidae
3563	SS 150d	African Penguin, <i>Spheniscus demersus</i> (head)	Spheniscidae
3564	SS 150d	African Penguin, <i>Spheniscus demersus</i> (torso)	Spheniscidae
		<b>2014 April 2</b>	<b>A*</b>
Two blocks or vert strips of four stamps for Worldwide Fund for Nature.			
3565a	32d	African Darter, <i>Anhinga rufa</i> (two birds on branch)	Anhingidae
3565b	32d	African Darter, <i>Anhinga rufa</i> (bird in water)	Anhingidae
3565c	32d	African Darter, <i>Anhinga rufa</i> (bird on branch)	Anhingidae
3565d	32d	African Darter, <i>Anhinga rufa</i> (bird with wings extended)	Anhingidae
3566a	35d	African Darter, <i>Anhinga rufa</i> (two birds on branch)	Anhingidae
3566b	35d	African Darter, <i>Anhinga rufa</i> (bird in water)	Anhingidae
3566c	35d	African Darter, <i>Anhinga rufa</i> (bird on branch)	Anhingidae
3566d	35d	African Darter, <i>Anhinga rufa</i> (bird with wings extended)	Anhingidae
		<b>2014 September 4</b>	<b>A*</b>
MS of four stamps and SS of two stamps titled “African Birds of Prey.”			
3588a	50d	Crowned Eagle, <i>Buteogallus coronatus</i> (Cap: <i>Stephanoaetus</i> )	Accipitridae
3588b	50d	Pearl-spotted Owlet, <i>Glaucidium perlatum</i>	Strigidae
3588c	50d	Steppe Eagle, <i>Aquila nipalensis</i>	Strigidae
3588d	50d	Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae
3589a	75d	Pale Chanting Goshawk, <i>Melierax canorus</i>	Accipitridae
3589b	75d	Eurasian Kestrel, <i>Falco tinnunculus</i>	Falconidae



**GREECE****2014 March 20****A\***

Set of five stamps titled "Songbirds of the Greek Countryside." Each stamp in a booklet pane of one as part of complete booklet. Also in two s/a booklet panes of 10.

2614	72c	Common Nightingale, <i>Luscinia megarhynchos</i>	Muscicapidae
2614a		Bklt pane of 1 (Sc#2614)	
2615	72c	European Greenfinch, <i>Carduelis chloris</i>	Fringillidae
2615a		Bklt pane of 1 (Sc#2615)	
2616	€1	Eurasian Linnet, <i>Carduelis cannabina</i>	Fringillidae
2616a		Bklt pane of 1 (Sc#2616)	
2617	€1.62	Eurasian Siskin, <i>Spinus spinus</i>	Fringillidae
2617a		Bklt pane of 1 (Sc#2617)	
2618	€2.62	European Goldfinch, <i>Spinus carduelis</i>	Fringillidae
2618a		Bklt pane of 1 (Sc#2618)	
		Complete bklt (Sc#2614a–18a)	
2619	72c	Common Nightingale, <i>Luscinia megarhynchos</i>	Muscicapidae
2619a		Bklt pane of 10 (Sc#2619) s/a	
2620	72c	European Greenfinch, <i>Carduelis chloris</i>	Fringillidae
2620a		Bklt pane of 10 (Sc#2620) s/a	

**GUINEA****2013 August 15****C\***

More releases from Guinea, still not assigned numbers by Scott Publishing. These are updates since my last listing in Vol. 63(4). MS of three s/t stamps for Prince William and Catherine Middleton with two stamps featuring birds.

Mi9938	15000fr	Barn Swallow, <i>Hirundo rustica</i> (with Catherine)	Hirundinidae
Mi9940	20000fr	Barn Swallow, <i>Hirundo rustica</i> (with couple)	Hirundinidae

**2014 May 15****A\***

MS of three horizontal s/t stamps and a SS of depicting birds.

a	15000fr	Common Nightingale, <i>Luscinia megarhynchos</i>	Muscicapidae
b	15000fr	White-rumped Vulture, <i>Gyps bengalensis</i>	Accipitridae
c	15000fr	Stresemann's Bush-Crow, <i>Zavattariornis stresemanni</i>	Corvidae
	Margin	Bot: Common Nightingale, <i>Luscinia megarhynchos</i>	Muscicapidae
	SS 40000fr	Blue Jay, <i>Cyanocitta cristata</i>	Corvidae
	Margin	Bot: Atlantic Puffin, <i>Fratercula arctica</i>	Alcidae
		MR: Greater Bird-of-Paradise, <i>Paradisaea apoda</i>	Paradisaeidae
		Top: Indian Roller, <i>Coracias benghalensis</i>	Coraciidae

MS of three horizontal s/t stamps and a SS of depicting penguins.

a	15000fr	Adelie Penguin, <i>Pygoscelis adeliae</i> (wing raised)	Spheniscidae
b	15000fr	Razorbill, <i>Alca torda</i>	Alcidae
c	15000fr	Adelie Penguin, <i>Pygoscelis adeliae</i>	Spheniscidae
	Margin	LL: Adelie Penguin, <i>Pygoscelis adeliae</i>	Spheniscidae
	SS 40000fr	Adelie Penguin, <i>Pygoscelis adeliae</i>	Spheniscidae
	Margin	LL: Macaroni Penguin, <i>Eudyptes chrysolophus</i>	Spheniscidae
		UR: Adelie Penguin, <i>Pygoscelis adeliae</i>	Spheniscidae

MS of three horizontal s/t stamps and a SS of depicting parrots.

a	15000fr	Red-tailed Black-Cockatoo, <i>Calyptorhynchus banksii</i>	Cacatuidae
b	15000fr	Turquoise-fronted Parrot, <i>Amazona aestiva</i>	Psittacidae
c	15000fr	Sun Parakeet, <i>Aratinga solstitialis</i>	Psittacidae
	Margin	LL: Cuban Parrot, <i>Amazona leucocephala</i>	Psittacidae
	SS 40000fr	Blue-and-yellow Macaw, <i>Ara ararauna</i>	Psittacidae
	Margin	LL: Sun Parakeet, <i>Aratinga solstitialis</i>	Psittacidae
		LR: Turquoise-fronted Parrot, <i>Amazona aestiva</i>	Psittacidae
		UR: Cuban Parrot, <i>Amazona leucocephala</i>	Psittacidae

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**GUINEA** (continued)

MS of three horizontal s/t stamps and a SS of depicting owls.

a	15000fr	Little Owl, <i>Athene noctua</i>	Strigidae	
b	15000fr	Spotted Eagle-Owl, <i>Bubo africanus</i>	Strigidae	
c	15000fr	Great Horned Owl, <i>Bubo virginianus</i>		Strigidae
	Margin	LL: Little Owl, <i>Athene noctua</i>	Strigidae	
SS	40000fr	Barn Owl, <i>Tyto alba</i>	Tytonidae	
	Margin	LL: Tawny Owl, <i>Strix aluco</i>	Strigidae	
		LR: Barn Owl, <i>Tyto alba</i>	Tytonidae	
		UR: Tawny Owl, <i>Strix aluco</i>	Strigidae	

**2014 October 1****A\***

MS of four s/t stamps and one SS depicting guineafowl.

a	10000fr	Helmeted Guineafowl, <i>Numida meleagris</i> (head only)	Phasianidae
b	10000fr	Helmeted Guineafowl, <i>Numida meleagris</i>	Phasianidae
c	15000fr	Vulturine Guineafowl, <i>Acryllium vulturinum</i>	Phasianidae
d	15000fr	Vulturine Guineafowl, <i>Acryllium vulturinum</i> (head only)	Phasianidae
	Margin	Top: Stylized guineafowl silhouette	
SS	40000fr	Helmeted Guineafowl, <i>Numida meleagris</i>	Phasianidae
	Margin	Top: Stylized guineafowl silhouette	
		LL: Vulturine Guineafowl, <i>Acryllium vulturinum</i> (flock)	Phasianidae
		Bot: Vulturine Guineafowl, <i>Acryllium vulturinum</i>	Phasianidae
		Bot: U/I Guineafowl sp. (chick)	Phasianidae
		LR: Crested Guineafowl, <i>Guttera pucherani</i>	Phasianidae

MS of four s/t stamps and one SS titled "Falcons," but not all are falcons.

a	10000fr	Ferruginous Hawk, <i>Buteo regalis</i>	Accipitridae
b	10000fr	Common Buzzard, <i>Buteo buteo</i>	Accipitridae
c	15000fr	Osprey, <i>Pandion haliaetus</i>	Pandionidae
d	15000fr	Eurasian Kestrel, <i>Falco tinnunculus</i>	Falconidae
		(Cap: <i>Falco sparverius</i> , but the bird has a gray tail, thus Eurasian Kestrel)	
	Margin	Top: Stylized falcon silhouette	
SS	40000fr	Jackal Buzzard, <i>Buteo rufofuscus</i>	Accipitridae
	Margin	Top: Stylized falcon silhouette	
		LL: Dark Chanting Goshawk, <i>Melierax metabates</i>	Accipitridae
		(The color on the photo appears too dark)	
		Bot: Osprey, <i>Pandion haliaetus</i>	Pandionidae
		Bot: Peregrine Falcon, <i>Falco peregrinus</i>	Falconidae
		LR: Gyrfalcon, <i>Falco rusticolus</i>	Falconidae
		(Bird depicted is a white-phase Gyrfalcon)	

MS of four s/t stamps and one SS depicting owls.

a	10000fr	Northern Long-eared Owl, <i>Asio otus</i>	Strigidae
b	10000fr	Little Owl, <i>Athene noctua</i>	Strigidae
c	15000fr	Tawny Owl, <i>Strix aluco</i>	Strigidae
d	15000fr	Short-eared Owl, <i>Asio flammeus</i>	Strigidae
	Margin	Top: Stylized owl silhouette	
SS	40000fr	Snowy Owl, <i>Bubo scandiaca</i>	Strigidae
	Margin	Top: Stylized owl silhouette	
		LL: Great Gray Owl, <i>Strix nebulosa</i>	Strigidae
		Bot: Barn Owl, <i>Tyto alba</i>	Tytonidae
		Bot: Northern White-faced Owl, <i>Ptilopsis leucotis</i>	Strigidae
		LR: Barn Owl, <i>Tyto alba</i>	Tytonidae

**GUINEA** (continued)

MS of four s/t stamps and one SS depicting pigeons.

a	10000fr	Spotted Dove, <i>Streptopelia chinensis</i>	Columbidae
b	10000fr	Rock Pigeon, <i>Columba livia</i>	Columbidae
c	15000fr	Pink-necked Pigeon, <i>Treron vernans</i>	Columbidae
d	15000fr	Green Imperial-Pigeon, <i>Ducula aenea</i>	Columbidae
	Margin	Top: Stylized pigeon silhouette	
	SS 40000fr	Pink-necked Pigeon, <i>Treron vernans</i>	Columbidae
	Margin	Top: Stylized pigeon silhouette	
		LL: Green Imperial-Pigeon, <i>Ducula aenea</i>	Columbidae
		Bot: Emerald Dove, <i>Chalcophaps indica</i>	Columbidae
		Bot: Rock Pigeon, <i>Columba livia</i>	Columbidae
		LR: Green Imperial-Pigeon, <i>Ducula aenea</i>	Columbidae

MS of four s/t stamps and one SS depicting water birds.

a	10000fr	Sunbittern, <i>Eurypyga helias</i>	Eurypygidae
b	10000fr	Anhinga, <i>Anhinga anhinga</i>	Anhingiidae
c	15000fr	Elegant Tern, <i>Sterna elegans</i>	Laridae
d	15000fr	Mandarin Duck, <i>Aix galericulata</i>	Anatidae
	Margin	Top: Stylized goose silhouette	
	SS 40000fr	Herring Gull, <i>Larus argentatus</i>	Laridae
	Margin	Top: Stylized goose silhouette	
		LL: Great Blue Heron, <i>Ardea herodias</i>	Ardeidae
		Bot: Mallard, <i>Anas platyrhynchos</i>	Anatidae
		Bot: Brown Pelican, <i>Pelecanus occidentalis</i>	Pelecanidae
		LR: Double-crested Cormorant, <i>Phalacrocorax auritus</i>	Phalacrocoracidae

**2014 October 20****A\***

MS of four s/t stamps and one SS depicting kingfishers.

a	10000fr	Black-backed Dwarf-Kingfisher, <i>Ceyx erithaca</i>	Alcedinidae	
b	10000fr	Common Kingfisher, <i>Alcedo atthis</i>	Alcedinidae	
c	15000fr	Ruddy Kingfisher, <i>Halcyon coromanda</i>	Alcedinidae	
d	15000fr	Blue-banded Kingfisher, <i>Alcedo euryzona</i>	Alcedinidae	<b>new</b>
	Margin	Top: Stylized kingfisher silhouette		
	SS 40000fr	Black-backed Dwarf-Kingfisher, <i>Ceyx erithaca</i> (Cap: <i>Ceyx rufidorsa</i> )	Alcedinidae	
	Margin	Top: Stylized kingfisher silhouette		
		LL: White-bellied Kingfisher, <i>Corythornis leucogaster</i>	Alcedinidae	
		Bot: Rufous-collared Kingfisher, <i>Actenoides concretus</i>	Alcedinidae	
		Bot: White-throated Kingfisher, <i>Halcyon smyrnensis</i>	Alcedinidae	
		LR: Black-capped Kingfisher, <i>Halcyon pileata</i>	Alcedinidae	

MS of four s/t stamps and one SS depicting raptors.

a	10000fr	Osprey, <i>Pandion haliaetus</i>	Pandionidae
b	10000fr	Eurasian Eagle-Owl, <i>Bubo bubo</i>	Strigidae
c	15000fr	Bateleur, <i>Terathopius ecaudatus</i>	Accipitridae
d	15000fr	Secretary-bird, <i>Sagittarius serpentarius</i>	Sagittariidae
	Margin	Top: Stylized raptor silhouette	
	SS 40000fr	Crested Caracara, <i>Caracara cheriway</i>	Falconidae
	Margin	Top: Stylized raptor silhouette	
		LL: Northern Goshawk, <i>Accipiter gentilis</i>	Accipitridae
		Bot: Harpy Eagle, <i>Harpia harpyja</i>	Accipitridae
		Bot: Black-shouldered Kite, <i>Elanus caeruleus</i>	Accipitridae
		LR: Long-crested Eagle, <i>Lophaelus occipitalis</i>	Accipitridae

**GUINEA (continued)****2014 November 20****A\***

MS of four stamps and a SS depicting hornbills imprinted for World Youth Stamp Exhibition, Malaysia, 2014.

a	10000fr	Rhinoceros Hornbill, <i>Buceros rhinoceros</i> (two birds perched)	Bucerotidae
b	10000fr	Rhinoceros Hornbill, <i>Buceros rhinoceros</i> (one bird perched)	Bucerotidae
c	15000fr	Rhinoceros Hornbill, <i>Buceros rhinoceros</i> (in flight right)	Bucerotidae
d	15000fr	Rhinoceros Hornbill, <i>Buceros rhinoceros</i> (in flight left)	Bucerotidae
	Margin	R: Rhinoceros Hornbill, <i>Buceros rhinoceros</i>	Bucerotidae
	SS 40000fr	Rhinoceros Hornbill, <i>Buceros rhinoceros</i> (head looking right)	Bucerotidae
	Margin	R: Rhinoceros Hornbill, <i>Buceros rhinoceros</i>	Bucerotidae

**LATVIA****2014 May 16****A\***

Set of two stamps depicting birds.

875	50c	Common Snipe, <i>Gallinago gallinago</i>	Scolopacidae
876	€1.39	Eurasian Hoopoe, <i>Upupa epops</i>	Upupidae

**NEW ZEALAND****2014 September 3****A\***

Set of five stamps (Sc#2543–47) (perf 14) and a SS of five stamps (Sc#2543a–47a) (perf 13½×13¼) depicting endangered sea birds. Each stamp has an imprinted silhouette of the species in thermochromic ink that disappears when warmed.

2543	80c	Wandering Albatross, <i>Diomedea exulans</i> (Cap: Antipodean Albatross, a ssp. of Wandering Albatross)	Diomedeidae
2544	\$1.40	Fairy Tern, <i>Sternula nereis</i> (Cap: New Zealand Fairy Tern)	Laridae
2545	\$2.00	Chatham Islands Shag, <i>Phalacrocorax onslowi</i>	Phalacrocoracidae Vol.63(4)
2546	\$2.50	Black-billed Gull, <i>Chroicephalus bulleri</i>	Laridae
2547	\$3.00	Magenta Petrel, <i>Pterodroma magentae</i> (Cap: Chatham Islands Taiko)	Procellariidae
2543a	80c	Wandering Albatross, <i>Diomedea exulans</i>	Diomedeidae
2544a	\$1.40	Fairy Tern, <i>Sternula nereis</i>	Laridae
2545a	\$2.00	Chatham Islands Shag, <i>Phalacrocorax onslowi</i>	Phalacrocoracidae
2546a	\$2.50	Black-billed Gull, <i>Larus bulleri</i>	Laridae
2547a	\$3.00	Magenta Petrel, <i>Pterodroma magentae</i>	Procellariidae
	Margin	L: Chatham Islands Shag, <i>Phalacrocorax onslowi</i>	Phalacrocoracidae

**SO. GEORGIA & SANDWICH IS. 2014 October 14****B\***

Set of four stamps (Sc#502–05) for reindeer on South Georgia, but only one stamp features a bird.

503	75p	King Penguin, <i>Aptenodytes patagonicus</i>	Spheniscidae
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## NEW BIRDS IN THE PHILATELIC AVIARY

Charles E. Braun, BU1364

### New Birds



**MANED DUCK, *Chenonetta jubata*** Anatidae  
Nevis, 2014 September 4, not yet cataloged, \$3.25

Length: 18 to 22 inches, resident. The male (shown) is gray with a brown head and neck and a spotted breast. The female is all spotted below and has two white stripes on the face.

Habitat: Wetlands and grassy areas.

Range: Southwestern and eastern Australia and Tasmania.

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



**PUNA TEAL, *Anas puna*** Anatidae  
Nevis, 2014 September 4, not yet cataloged, \$3.25

Length: 19 to 20 inches, sexes similar, resident. Brown above and speckled gray below with a black crown and nape and a blue bill.

Habitat: Montane wetlands with vegetation.

Range: Central Peru to northwestern Argentina.

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



**ROSY-BILLED POCHARD, *Netta peposaca*** Anatidae  
Nevis, 2014 September 4, not yet cataloged, \$3.25

Length: 22 inches, migratory. The male (shown) is brown with a gray lower breast and belly and a red bill. The female is rufous below with a grayish bill.

Habitat: Shallow wetlands with abundant vegetation.

Range: Breeds from central Chile to southern Brazil. Winters in northern Argentina and southern Brazil.

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



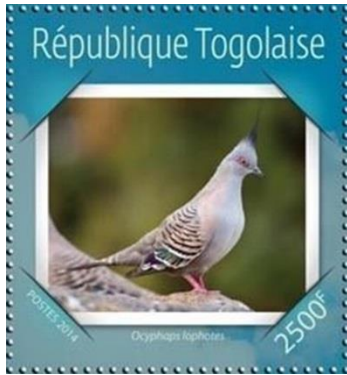
**AUSTRALASIAN BITTERN, *Botaurus poiciloptilus*** Ardeidae  
New Zealand, 2013, \$10 Fish & Game stamp

Length: 26 to 30 inches, sexes alike, resident. Mottled brown and golden-buff above and streaked buff and brown below.

Habitat: Wetlands with tall, dense vegetation.

Range: Southwestern and southeastern Australia, New Zealand, and New Caledonia.

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



**CRESTED PIGEON, *Ocyphaps lophotes*** Columbidae  
Togo, 2014 October 30, not yet cataloged, 2500fr

Length: 12 to 14 inches, sexes alike, resident. Brownish-gray above and gray below with boldly barred wings and a long gray-black crest.

Habitat: Moist woodland and evergreen thickets.

Range: Australia.

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



**KLAAS'S CUCKOO, *Chrysococcyx klaas*** Cuculidae  
Ivory Coast, 2014 March 10, not yet cataloged, 500fr

Length: 7 inches, seasonal migrant at higher altitudes. The male (shown) is green above and white below with green bars on the flanks and a white streak behind the eye. The female has a gray-brown head neck and tail and fine brown bars below.

Habitat: Open woodlands, forest edges, and thickets.

Range: Senegal to Sudan and South Africa.

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



**ARABIAN SCOPS-OWL, *Otus pamela*** Strigidae  
Oman, 2014 December 14, not yet cataloged, 200b

Length: 6.5 to 7.5 inches, sexes alike, resident. Pale brownish gray and whitish with a rufous tinge on the wing coverts and broad white eyebrows on a gray facial disc.

Habitat: Wooded savanna, open woodland, acacia scrub, and large gardens with tall trees.

Range: Southern Saudi Arabia.

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



**BLACK-CAPPED SCREECH-OWL, *Megascops atricapilla*** Strigidae  
St. Martin, 2015 January 14, not yet cataloged, 300c

Length: 9.5 inches, sexes alike, resident. Gray, brown or rufous above and boldly streaked paler below with a blackish crown.

Habitat: Humid forest and forest edge.

Range: Southeastern Brazil and neighboring Paraguay and Argentina.

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



**ASIAN BARRED OWLET, *Glaucidium cuculoides*** Strigidae  
Mozambique, 2014 August 20, not yet cataloged, 175m SS

Length: 9 to 10 inches, sexes alike, resident. Buff-barred brown above and brown-barred white below with a buff-barred gray-brown head.

Habitat: Open forest, evergreen jungle, and scrub.

Range: Northeastern Pakistan and eastern China to Vietnam and southern Myanmar.

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



**RUFOUS NIGHTJAR, *Antrostomus rufus*** Caprimulgidae  
St. Martin, 2015 January 14, not yet cataloged, 60c

Length: 10 to 12 inches, sexes similar, resident. Rufescent-brown with broad blackish-brown streaks above and cinnamon speckles and spots below.

Habitat: Forest, scrub, and savanna thickets.

Range: Southern Costa Rica to northern Argentina.

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

*the World, Volume 5*.



**BLACKISH NIGHTJAR, *Nyctipolis nigrescens*** Caprimulgidae  
St. Martin, 2015 January 14, not yet cataloged, 90c

Length: 7.5 to 8.5 inches, resident. The male (shown) is mottled black above and buff-barred dark brown below with white spots on the wings and tail. The female lacks the white spots.

Habitat: Sparsely vegetated stony areas, rainforest, and open savanna.

Range: Eastern Colombia to central Brazil and eastern Bolivia.

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



**LADDER-TAILED NIGHTJAR, *Hydropsalis climacocerca*** Caprimulgidae  
St. Martin, 2015 January 14, not yet cataloged, 250c

Length: 10 inches, resident. The male (shown) is brownish with blackish streaks and buff-barred and spotted brown below with white wing patches. The female lacks the wing patches.

Habitat: Forest, grassland, and sandbars.

Range: Eastern Colombia to north-central Brazil and eastern Bolivia.

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



**BUFF-BELLIED HUMMINGBIRD, *Amazilia yucatanensis*** Trochilidae  
Antigua, 2015 January 2, not yet cataloged, \$5

Length: 4 inches, partially migratory. The male (shown) is green with a chestnut belly and tail. The female has a paler belly and tail.

Habitat: Forest, thickets, and coastal shrubs.

Range: Breeds from extreme southern Texas to northwestern Guatemala. Some winter along the Gulf coast to northwestern Florida.

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

*of the World, Volume 5*.



**BLUE-BANDED KINGFISHER, *Alcedo euryzona*** Alcedinidae  
Guinea, 2014 October 20, not yet cataloged, 1500fr

Length: 7 inches, resident. The male (shown) is blue above and white below with a broad blue band on the breast and rufous and white neck patches. The female has a rufous belly.

Habitat: Slow flowing rivers and streams.

Range: Western Thailand to Java and Borneo.

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



**KOFIAU PARADISE-KINGFISHER, *Tanyisptera ellioti*** Alcedinidae  
Central African Republic, 2014 December 15, not yet cataloged, 900fr

Length: 13 inches, sexes alike, resident. Pale blue crown and nape, dark blue back, white below, rump and tail.

Habitat: Forest.

Range: Kofiau Island, western New Guinea.

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



**SOMALI BEE-EATER, *Merops revoillii*** Meropidae  
Central African Republic, 2014 December 15, not yet cataloged, 750fr

Length: 5 to 6 inches, sexes alike, resident. Green above and fawn below with a greenish crown, buffy nape, white throat, and blue rump and undertail.

Habitat: Thorn-scrub, bushy grasslands, coastal dunes, and clearings in dense forest.

Range: Somalia to eastern Kenya.

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



**BROWN JACAMAR, *Brachygalba lugubris*** Galbulidae  
St. Martin, 2015 January 14, not yet cataloged, 30c

Length: 6 to 7 inches, sexes alike, resident. Sooty-brown with a pale throat and a white or buffy belly.

Habitat: Forest edges and shrubs.

Range: Central Colombia to Bolivia and Brazil.

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

*the World, Volume 7*.





**CAMPO FLICKER**, *Colaptes campestris* Picidae  
St. Martin, 2015 January 14, not yet cataloged, 150c

Length: 11 to 12 inches, resident. The male (shown) is barred dark brown above and barred or spotted whitish below with golden-buff ears to upper breast and a black malar area. The female has a black-and-white malar area.

Habitat: Forest clearings, savanna, and grassland,

Range: Eastern Brazil to northeastern Argentina.

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



**YELLOW-STREAKED LORY**, *Chalcopsitta scintillata* Psittaculidae  
St. Thomas and Prince, 2014 October 15, not yet cataloged, 96000d SS

Length: 12 inches, sexes alike, resident. Green with red forehead and thighs and underwings, and faint yellow streaks on the mantle, breast, and belly.

Habitat: Flowering trees and mangroves.

Range: Aru Islands and southern New Guinea.

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



**GROUND PARROT**, *Pezoporus wallicus* Psittaculidae  
St. Thomas and Prince, 2014 October 15, not yet cataloged, 25000d

Length: 12 inches, sexes similar, resident. Black-spotted green above and black-barred yellowish below with a red front, green face and breast, and black-streaked crown.

Habitat: Coastal heathlands.

Range: Southwestern and southeastern Australia and Tasmania.

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



**MINDORO RACQUET-TAIL** *Prioniturus mindorensis* Psittaculidae  
Djibouti, 2014, not yet cataloged, 300fr

Length: 11 inches, sexes similar, resident. Apple green above and yellowish green below with a blue crown and a green forehead.

Habitat: Forest and plantations.

Range: Mindoro Island, north-central Philippines.

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



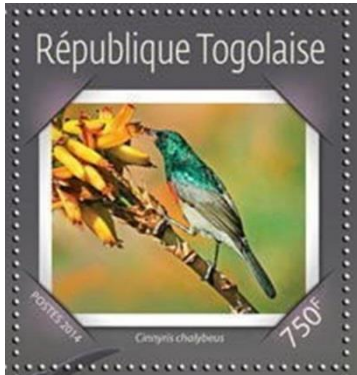
**CHATHAM ISLAND BELLBIRD**, †*Anthornis melanopephala* Meliphagidae  
Central African Republic, 2014 June 20, not yet cataloged, MS of 4 @ 750fr (UR margin)

Length: 9 inches, sexes alike, resident. Dark green above and pale green below with a steel-blue head.

Habitat: Forest.

Range: Formerly Chatham Island, New Zealand. Extinct around 1906.

Reference: Day, D. *Vanished Species*.



**SOUTHERN DOUBLE-COLLARED SUNBIRD**, *Cinnyris chalybeus*

Nectariniidae

Togo, 2014 October 30, not yet cataloged, 750fr

Length: 5 inches, resident. The male (shown) is metallic green with bluish violet and scarlet breast-bands and a gray belly. The female is gray-brown above and pale gray below.

Habitat: Woodland, scrub, gardens, and plantations.

Range: Eastern Namibia and South Africa.

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

## JAPAN DEFINITIVE SET INCLUDES A BIRD

On 2 February 2015, Japan issued a set of 12 definitive stamps with the theme of nature in Japan containing values from one to 1000 yen. Together with 11 new denomination stamps issued on 3 March 2014, 23 definitive stamps are now available. These represent the first major design change since 1998.

The 10¥ stamp depicts a Crested Ibis (*Nipponia nippon*). Other zoological subjects in the set include: a chipmunk (3¥), Japanese macaque (5¥), Japanese deer (20¥), Ezo red fox (30¥), and Japanese serow (50¥).

Botanical subject include: Primrose (100¥), Japanese wisteria (120¥), and *Kerria japonica* (140¥).

The stamps were produced using the gravure printing method by the National Printing Bureau. The designers were Rika Hoshiyama and Junko Kaifuchi, who designed the two yen stamp in the 2014 set.

In 2014 the Japanese government enacted a sales tax hike causing the cost of mailing a letter to increase. As a result, they had to issue a new two yen stamp to fill the price hike, and in an effort to quell public anger, Japan Post put a picture of a cute fluffy bunny on it.

In Japan, cuteness is a rock-solid commodity and the bunny stamp was a huge success. It was so popular that people came out to buy some even though they had no mail to send. And so, Japan Post set a mandate to make all of their stamps pretty before fiscal 2015.





# HERPETOLOGY

Temporary Editor

Jack R. Congrove, BU1424



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

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
<b>ALBANIA</b>				
<b>2007 October 17</b> (Arms Type of 2001)				
2803	60L	Stylized Snake wrapped around branch (Kokini coat of arms)		S
<b>2013 November 6</b> (17th Mediterranean Games)				
2943a	40L	Stylized Sea Turtle (games logo)		S
2943b	150L	Stylized Sea Turtle (games logo)		S
2943		Horiz pair (Sc#2943a–b)		
2944	SS 200L	LL: Stylized Sea Turtle (games logo)		S Z
<b>ARGENTINA</b>				
<b>2013 June 1</b> (50th anniv. African Union)				
2683	4p	Stylized Lizard silhouette in outline of African continent		S
<b>ARUBA</b>				
<b>2013 April 5</b> (Currency)				
425d	200c	Stylized Frog on 100 Florin note		S
<b>2013 November 12</b> (Nature Photography)				
432c	120c	Cope's Ameiva, <i>Ameiva bifrontata</i>	Teiidae	A*
432		Block of 10 (Sc#432a–j)		
<b>2013 December 16</b> (Wildlife)				
433a	175c	Red-eyed Tree Frog, <i>Agalychnis callidryas</i> (Cap: <i>A. callidryas</i> )	Hylidae	A*
433d	175c	Blessed Poison Frog, <i>Ranitomeya benedicta</i> (Cap: <i>Ranitomeya</i> )	Dendrobatidae	A*
433		Block of 8 (Sc#433a–h)		
<b>AUSTRALIA</b>				
<b>2013 September 23</b> (Things That Sting)				
4180	70c	Tiger Snake, <i>Notechis scutatus</i> ☞	Elapidae	A*
4182a		SS of 6 (Sc#4177–82) (perf 14×14¾)		
4187	70c	Tiger Snake, <i>Notechis scutatus</i> ☞	Elapidae	A*
4188a		Bklt pane 10 (Sc#4185, 4188, 2ea Sc#4183–84, 4186–87) (die cut 11¼)		
4188b		Bklt pane 20 (3ea Sc#4183, 4185, 4187, 4188, 4ea Sc#4184, 4186) (die cut 11¼)		
<b>BENIN</b>				
<b>2014</b> (Turtles) (SS of 2)				
a	750fr	Cantor's Giant Softshell Turtle, <i>Pelochelys cantorii</i>	Trionychidae	A*
b	750fr	Black-knobbed Map Turtle, <i>Graptemys nigrinoda</i>	Emydidae	A*
	Margin	Top: Stylized Sea Turtle		S Z
<b>2014</b> (Snakes) (SS of 2)				
a	750fr	Eyelash Viper, <i>Bothriechis schlegelii</i> ☞ (Cap/Syn: <i>Bothrops schlegeli</i> )	Viperidae	A*
b	750fr	Red Spitting Cobra, <i>Naja pallida</i> ☞	Elapidae	A*
	Margin	Top: Stylized Snake		S Z

**BHUTAN****2014 March 2** (Year of the Horse) (MS of 12 & SS of 1)

1487f	20nu	Stylized snake		S
1488	SS 50nu	Margin: Stylized snake		S Z

**BOSNIA & HERZEGOVINA (Serb Admin) 2013 September 12** (European Nature Protection-Amphibians)

481	90pf	Fire Salamander, <i>Salamandra salamandra</i>	Salamandridae	A*
482	1.50m	Agile Frog, <i>Rana dalmatina</i>	Ranidae	A*

**BRAZIL****2014 April 21** (Monica's Gang Comic Strip)

3269a	(1.20r)	Stylized Turtle with Monica & man in car		S
3269i	(1.20r)	Stylized Turtle with Monica & man in car (miniature of image in Sc#3269a)		S
3269		MS of 12+12 labels (Sc#3269a-1)		

**BRITISH INDIAN OCEAN TERR. 2014 June 9** (Coat of Arms) (Horiz pair & SS of 1)

451a	54p	Stylized Sea Turtle (left half of coat of arms)		S
451b	54p	Stylized Sea Turtle (right half of coat of arms)		S
452	SS £2	Stylized Sea Turtle (full coat of arms)		S

**CENTRAL AFRICAN REPUBLIC 2013 March 25** (Year of the Snake) (Block of 4)

Mi4112	750fr	Stylized blue snake		S
Mi4113	750fr	Stylized red and black snake		S
Mi4114	750fr	Stylized green snake		S
Mi4115	750fr	Stylized purple snake		S

**2013 June 10** (Turtles & Tall Ships) (MS of 4 & SS of 1)

Mi4311	900fr	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A
Mi4313	900fr	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A
	Margin	LL: Kemp's Ridley Sea Turtle, <i>Lepidochelys kempii</i>	Cheloniidae	Z
Mi4315 SS	3000fr	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	B
	Margin	LR: Spur-thighed tortoise, <i>Testudo graeca</i>	Testudinidae	Z

**2013 August 30** (Snakes) (MS of 4 & SS of 1)

Mi4385	750fr	Royal Python, <i>Python regius</i>	Pythonidae	A*
Mi4386	750fr	Belcher's Sea Snake, <i>Hydrophis belcheri</i> ♀	Elapidae	A*
Mi4387	750fr	Burmese Python, <i>Python bivittatus</i>	Pythonidae	A*
Mi4388	750fr	Western Terrestrial Garter Snake, <i>Thamnophis elegans terrestris</i>	Colubridae	A*
	Margin	LL: Common Garter Snake, <i>Thamnophis sirtalis</i>	Colubridae	Z*
		LR: Rough Green Snake <i>Opeodryx aestivus</i>	Colubridae	Z*
Mi4389 SS	2650fr	Ringneck Snake, <i>Diadophis punctatus</i>	Colubridae	A*
	Margin	UL: Greater Green Snake, <i>Cyclophiops major</i>	Colubridae	Z*
		Bot: Corn Snake, <i>Pantherophis guttatus</i>	Colubridae	Z*

**2014 May 20** (Crocodiles) (MS of 4 & SS of 1)

Mi4630	750fr	Saltwater Crocodile, <i>Crocodylus porosus</i>	Crocodylidae	A*
Mi4631	750fr	New Guinea Crocodile, <i>Crocodylus novaeguineae</i>	Crocodylidae	A*
Mi4632	750fr	American Crocodile, <i>Crocodylus acutus</i>	Crocodylidae	A*
Mi4633	750fr	African Slender-snouted Crocodile, <i>Mecistops cataphractus</i>	Crocodylidae	A*
		(Cap/Syn: <i>Crocodylus cataphractus</i> )		
	Margin	Partial images of various species	Crocodylidae	U Z
Mi4634 SS	2650fr	American Alligator, <i>Alligator mississippiensis</i>	Alligatoridae	A*
	Margin	Partial images of the same	Alligatoridae	Z*

<b>CENTRAL AFRICA</b> (continued)		<b>2014 May 20</b> (Turtles) (MS of 4 & SS of 1)		
Mi4695	900fr	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A
Mi4696	900fr	Hermann's Tortoise, <i>Testudo hermanni</i>	Testudinidae	A
Mi4697	900fr	African Spurred Tortoise, <i>Centrochelys sulcata</i> (Cap/Syn: <i>Geochelone sulcata</i> )	Testudinidae	A
Mi4698	900fr	Pig-nosed Turtle, <i>Carettochelys insculpta</i>	Carettochelyidae	A
	Margin	UL: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z
		ML: Galápagos Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	Z
		LL: Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	Z
		UR: Pig-nosed Turtle, <i>Carettochelys insculpta</i>	Carettochelyidae	Z
		LR: U/I Tortoise (head only)		U Z
Mi4699 SS	3000fr	Green Sea Turtle, <i>Chelonia mydas</i> (also 5× in margin)	Cheloniidae	A
		<b>2014 June 20</b> (50th anniv. of IUCN Red List) (MS of 4 & SS of 1)		
c	750fr	Hispaniolan Yellow Tree Frog, <i>Osteopilus pulchrilineatus</i>	Hylidae	A*
	SS 2650fr	Honduran Palm Pitviper, <i>Bothriechis marchi</i> ☞	Viperidae	A*
		<b>2014 June 20</b> (Threatened Species) (MS of 4)		
b	750fr	Golden Toad, <i>Incilius periglenes</i>	Bufoidea	A*
		<b>2014 November 20</b> (Snakes) (MS of 4 & SS of 1)		
a	750fr	Ursini's Viper, <i>Vipera ursinii rakosiensis</i> ☞	Viperidae	A*
b	750fr	Common European Adder, <i>Vipera berus</i> ☞	Viperidae	A*
c	750fr	Grass Snake, <i>Natrix natrix</i>	Colubridae	A*
d	750fr	Ursini's Viper, <i>Vipera ursinii</i> ☞	Viperidae	A*
	Margin	Top: U/I tree snake		U Z
	SS 2650fr	Taylor's Cantil, <i>Agkistrodon bilineatus taylori</i> ☞	Viperidae	A*
	Margin	Top: U/I tree snake		U Z
		<b>2014 December 15</b> (Animals of the Bible) (MS of 4)		
	Margin	LL: Grass Snake, <i>Natrix natrix</i>	Colubridae	Z*
		<b>2014 December 15</b> (Frogs) (MS of 4 & SS of 1)		
a	900fr	Northern Leopard Frog, <i>Lithobates pipiens</i>	Ranidae	A*
b	900fr	Blue Poison Dart Frog, <i>Dendrobates tinctorius "azureus"</i> ☞ (Cap/Syn: <i>Dendrobates azureus</i> )	Dendrobatidae	A*
c	900fr	Strawberry Poison Dart Frog, <i>Oophaga pumilio</i> ☞	Dendrobatidae	A*
d	900fr	Red-eyed Tree Frog, <i>Agalychnis callidryas</i>	Hylidae	A*
	Margin	LL: Strawberry Poison Dart Frog, <i>Oophaga pumilio</i> ☞	Dendrobatidae	Z*
		UR: Waxy Monkey Leaf Frog, <i>Phyllomedusa sauvagii</i>	Hylidae	Z*
	SS 3000fr	Waxy Monkey Leaf Frog, <i>Phyllomedusa sauvagii</i>	Hylidae	A*
	Margin	MR & Bot: Waxy Monkey Leaf Frog, <i>Phyllomedusa sauvagii</i>	Hylidae	Z*
<b>CHINA PEOPLE'S REPUBLIC</b>		<b>2013 June 1</b> (Tadpoles and Pond Life)		
4114a	80f	Stylized tadpoles with shrimp		S
4114b	\$1.20	Stylized tadpoles with goldfish		S
4114c	\$1.20	Stylized tadpoles with crab		S
4114d	\$1.20	Stylized tadpoles with turtles		S
4114e	\$1.20	Stylized tadpoles with frog		S
4114		Horiz strip of 5 (Sc#4114a-e)		
4114f		Bklt pane of 5 (Sc#4114a-e)		
<b>CHINA (Taiwan)</b>		<b>2014 April 30</b> (Scroll Paintings)		
4175	\$10	Stylized Toad in ptg "Children Playing in Summer"		S

<b>CHINA (Taiwan)</b> (continued)		<b>2014</b> (100th Anniversary of Taipei Zoo) (SS of 6)		
Margin	LL: Indian Gharial, <i>Gavialis gangeticus</i>	Gavialidae		Z
	LL: U/I green & brown frog			U Z
<b>CHRISTMAS ISLAND</b>		<b>2014 January 7</b> (Year of the Horse)		
526d	15c Stylized Snake Chinese Zodiac symbol			S
526	MS of 14 (Sc#524–25 & Sc#526a–1)			
526e	Bklt pane of 4 (Sc#526c–d & 2ea Sc#524)			
<b>CONGO PEOPLE'S REPUBLIC</b>		<b>2012</b> (Frogs) (MS of 6)		
a	300fr Panamanian Golden Frog, <i>Atelopus zeteki</i>	Bufoidea		A*
b	300fr Tree Frog, <i>Hyla</i> sp. (Cap: <i>Hyla cinerea</i> )	Hylidae		A*
c	300fr Harlequin Tree Frog, <i>Rhacophorus pardalis</i> (Cap: <i>Rhacophorus prominanus</i> )	Rhacophoridae		A*
d	300fr Ornate Chorus Frog, <i>Pseudacris ornata</i>	Hylidae		A*
e	300fr American Bullfrog, <i>Rana catesbeiana</i> (Cap/Syn: <i>Lithobates catesbeiana</i> )	Ranidae		A*
f	300fr Long-nosed Horned Frog, <i>Megophrys nasuta</i>	Megophryidae		A*
<b>COMORO ISLANDS</b>		<b>2014 October 9</b> (Green Sea Turtle) (Joint Issue)		
This stamp is part of a joint issue with France, French Southern & Antarctic Territories, Madagascar, Mauritius, and Seychelles. All stamps have the same common design and were issued on a SS of six.				
	150fr Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae		A*
<b>CROATIA</b>		<b>2013 April 8</b> (Amphibians) (each issued in bklt pane of 10)		
863	1.60k European Fire-bellied Toad, <i>Bombina orientalis</i>			A*
864	3.10k Fire Salamander, <i>Salamandra atra</i>			A*
865	4.60k Olm, <i>Proteus anguinus</i>			A*
		<b>2014 April 1</b> (125th anniv. University of Zagreb Botanical Garden)		
900	SS 11k LL: Hermann's Tortoise, <i>Testudo hermanni</i>	Testudinidae		B Z
<b>CURAÇAO</b>		<b>2013 October 21</b> (Fairy Tales) (Set of 6)		
140	145c Cartoon Frog at sea from "The Frog Prince"			S
<b>CZECH REPUBLIC</b>		<b>2014 September 3</b> (Nature Protection Beskid Mtns) (SS of 4+3 labels)		
Label	Top: Yellow-bellied Toad, <i>Bombina orientalis</i>	Bombinatoridae		Z*
	Bot: Carpathian Newt, <i>Lissotriton montandoni</i>	Salamandridae		Z*
Margin	LR: Common European Adder, <i>Vipera berus</i> ♂	Viperidae		Z*
<b>DENMARK</b>		<b>2013 January 7</b> (Children's Television)		
1621	8k Stylized cartoon frog and bird singing in front of blackboard			S
		<b>2014 August 30</b> (Characters from Hans Christian Andersen)		
1688b	9k Stylized Toad with Thumbelina ( <i>Tommelisa</i> )			S
1688	SS of 2 (Sc#1688a–b) perf 12¾×13¼			
1690	9k Stylized Toad with Thumbelina ( <i>Tommelisa</i> )			S
1690a	Bklt pane of 10 (Sc#1690) s/a die cut 13½×13			
<b>DOMINICA</b>		<b>2014 May 1</b> (Sea Turtles) (MS of 3 & SS of 1)		
2806a	\$3.50 Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae		A*
2806b	\$3.50 Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae		A*
2806c	\$3.50 Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae		A*
2806	Margin UL: Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae		Z*
	Top: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae		Z*
	UR: Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae		Z*
2807	SS \$5 Green Sea Turtle, <i>Chelonia mydas</i> (also in LL margin)	Cheloniidae		A*

<b>FINLAND (Åland Islands)</b>		<b>2014 April 11</b> (Zero Tolerance Program Against Drug Abuse)		
B3	€1.10+20c	Stylized Snakes		S
<b>FRANCE</b>		<b>2014 April 18</b> (European Capitals-Vienna)		
4605	Margin	LL & LR: Stylized Lizards		S
		<b>2014 May 3</b> (Vacation)		
4612	(61c)	Stylized Turtles playing lute and dancing		S
4618	(61c)	Stylized Frogs with umbrellas in swan boat		S
4619a		Bklt pane of 12 (Sc#4609–19)		
<b>FRANCE (continued)</b>		<b>2014 October 9</b> (Green Sea Turtle) (Joint Issue)		
This stamp is part of a joint issue with Comoro Islands, French Southern & Antarctic Territories, Madagascar, Mauritius, and Seychelles. All stamps have the same common design and were issued on a SS of six.				
	98c	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
<b>FRENCH POLYNESIA</b>		<b>2014 January 20</b> (New Banknotes)		
1116	20fr	Stylized Sea Turtle (on 1000fr banknote)		S
1118a		SS of 4 (Sc#1115–18)		
<b>FRENCH SOUTHERN &amp; ANTARCTIC TERR.</b>		<b>2014 March 7</b> (Territory Logos) (SS of 6)		
504	1c	Stylized Sea Turtle silhouette		S
		<b>2014 October 9</b> (Green Sea Turtle) (Joint Issue)		
This stamp is part of a joint issue with Comoro Islands, France, Madagascar, Mauritius, and Seychelles. All stamps have the same common design and were issued on a SS of six.				
511	€1.05	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
<b>GHANA</b>		<b>2014</b> (African Frogs) (2ea MS of 5 & SS of 1)		
a	2.50ce	Snoring Puddle Frog, <i>Phrynobatrachus natalensis</i>	Phrynobatrachidae	A*
b	2.50ce	Mascarene Grass Frog, <i>Ptychadena mascareniensis</i>	Ptychadenidae	A*
c	2.50ce	Painted Reed Frog, <i>Hyperolius marmoratus</i>	Hyperoliidae	A*
d	2.50ce	Nest Frog, <i>Chiromantis xerampelina</i>	Rhacophoridae	A*
e	2.50ce	Fornasini's Spiny Reed Frog, <i>Afrixalus fornasini</i>	Hyperoliidae	A*
a	2.50ce	Nest Tree Frog, <i>Chiromantis rufescens</i>	Rhacophoridae	A*
b	2.50ce	Mababe River Frog, <i>Phrynobatrachus mababiensis</i>	Phrynobatrachidae	A*
c	2.50ce	Pickersgill's Banana Frog, <i>Afrixalus delicatus</i>	Hyperoliidae	A*
d	2.50ce	African Bullfrog, <i>Pyxicephalus adspersus</i>	Pyxicephalidae	A*
e	2.50ce	Mozambique Ridged Frog, <i>Ptychadena mossambica</i>	Ptychadenidae	A*
a	4.50ce	Nosed Grass Frog, <i>Ptychadena oxyrhynchus</i>	Ptychadenidae	A*
b	4.50ce	Waterlily Frog, <i>Hyperolius pusillus</i>	Hyperoliidae	A*
<b>GRENADA</b>		<b>2014 January 20</b> (Turtles) (MS of 4 & SS of 1)		
3950a	\$3.25	Mata Mata, <i>Chelus fimbriata</i>	Chelidae	A*
3950b	\$3.25	Jamaican Slider, <i>Trachemys terrapen</i>	Emydidae	A*
3950c	\$3.25	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A*
3950d	\$3.25	Kemp's Ridley Sea Turtle, <i>Lepidochelys kempii</i>	Cheloniidae	A*
	Margin	UL: Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	Z*
		Top: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z*
		LL: Red-footed Tortoise, <i>Chelonoidis carbonaria</i>	Testudinidae	Z*
3951	SS \$9	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A*
	Margin	UL: Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	Z*
		LL: Common Snapping Turtle, <i>Chelydra serpentina</i>	Chelydridae	Z*

<b>GRENADA GRENADINES</b>		<b>2014 January 20</b> (Sea Turtles of the Caribbean) (MS of 3 & SS of 1)		
2870a	\$3.75	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A*
2870b	\$3.75	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A*
2870c	\$3.75	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
2871	SS \$9	Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	A*
<b>GUATEMALA</b>		<b>2014 July 4</b> (Lizards) (Set of 4)		
689	1q	no common name, <i>Abronia vasconcelosii</i>	Anguidae	A*
690	5q	no common name, <i>Abronia fimbriata</i>	Anguidae	A*
691	6.50q	no common name, <i>Abronia meledona</i>	Anguidae	A*
692	10q	Frost's Arboreal Alligator Lizard, <i>Abronia frosti</i>	Anguidae	A*
<b>GUINEA</b>		<b>2014 March 25</b> (Turtles) (MS of 3 & SS of 1)		
a	15000fr	Galápagos Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	A*
b	15000fr	Painted Turtle, <i>Chrysemys picta marginata</i>	Emydidae	A*
c	15000fr	Hermann's Tortoise, <i>Testudo hermanni</i>	Testudinidae	A*
	Margin	L: Galápagos Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	Z*
	SS 40000fr	Green Sea Turtle, <i>Chelonia mydas</i> (also in Top margin)	Cheloniidae	A*
		<b>2014 May 15</b> (Turtles) (MS of 3 & SS of 1)		
a	15000fr	Red-eared Slider, <i>Trachemys scripta elegans</i>	Emydidae	A*
b	15000fr	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
c	15000fr	Hermann's Tortoise, <i>Testudo hermanni</i>	Testudinidae	A*
	Margin	LL: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z*
	SS 40000fr	Green Sea Turtle, <i>Chelonia mydas</i> (also in Top margin)	Cheloniidae	A*
	Margin	LL & UR: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z*
		LR: African Helmeted Turtle, <i>Pelomedusa subrufa</i>	Pelomedusidae	Z*
		<b>2014 September 1</b> (50th anniv. of IUCN Red List) (MS of 4)		
d	10000fr	Red-headed Poison Frog, <i>Ranitomeya fantastica</i> ☠	Dendrobatidae	A*
		<b>2014 October 1</b> (Frogs) (MS of 4 & SS of 1)		
a	15000fr	Ecuador Poison Frog, <i>Ameerega bilinguis</i> ☠ (Cap: <i>A. bilingua</i> )	Dendrobatidae	A*
b	15000fr	Blue Poison Dart Frog, <i>Dendrobates tinctorius</i> "azureus" ☠	Dendrobatidae	A*
c	15000fr	Yellow-banded Poison Dart Frog, <i>Dendrobates leucomelas</i> ☠	Dendrobatidae	A*
d	15000fr	Golfodulcean Poison Dart Frog, <i>Phyllobates vittatus</i> ☠	Dendrobatidae	A*
	Margin	Top: Stylized frog silhouette		S Z
	SS 40000fr	False Tomato Frog, <i>Dyscophus guineti</i>	Microhylidae	A*
	Margin	LL: Blue Poison Dart Frog, <i>Dendrobates tinctorius</i> "azureus"	Dendrobatidae	Z*
		LL: Yellow-banded Poison Dart Frog, <i>Dendrobates leucomelas</i>	Dendrobatidae	Z*
		Bot: Ornate Chorus Frog, <i>Pseudacris ornata</i>	Hylidae	Z*
		LR: Red-eyed Tree Frog, <i>Agalychnis callidryas</i>	Hylidae	A*
<b>GUINEA-BISSAU</b>		<b>2013 June 24</b> (Turtles) (MS of 4 & SS of 1)		
a	850fr	Green Sea Turtle, <i>Chelonia mydas</i> (Cap: <i>Testudo mydas</i> )	Cheloniidae	A*
b	850fr	Kemp's Ridley Sea Turtle, <i>Lepidochelys kempii</i>	Cheloniidae	A*
c	850fr	Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	A*
d	850fr	Red-bellied Short-necked Turtle, <i>Emydura subglobosa</i>	Chelidae	A*
	SS 3000fr	Bog Turtle, <i>Glyptemys muhlenbergii</i>	Emydidae	A*
	Margin	LL: Western Box Turtle, <i>Terrapene ornata</i>	Emydidae	Z*
		LR: Spotted turtle, <i>Clemmys guttata</i>	Emydidae	Z*
		<b>2014 October 20</b> (Turtles) (MS of 4 & SS of 1)		
a	850fr	Red-eared Slider, <i>Trachemys scripta elegans</i>	Emydidae	A*
b	850fr	Escambia Map Turtle, <i>Graptemys ernsti</i>	Emydidae	A*
c	850fr	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*



**GUINEA-BISSAU** (continued)

d	850fr	African Spurred Tortoise, <i>Centrochelys sulcata</i> (Cap/Syn: <i>Geochelone sulcata</i> )	Testudinidae	A*
	Margin	Bot: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z*
	SS 2400fr	Burmese Roofed Turtle, <i>Batagur trivittata</i>	Geoemydidae	A*
	Margin	LL: Brown Roofed Turtle, <i>Pangshura smithii</i>	Geoemydidae	Z*
		MR: Common Snapping Turtle, <i>Chelydra serpentina</i>	Chelydridae	Z*

**2014 October 20** (Carnivorous Plants) (MS of 4)

d	850fr	Red-eyed Tree Frog, <i>Agalychnis callidryas</i>	Hylidae	B*
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**GUYANA****2014** (Animals of South America) (MS of 4)

c	\$300	Three-striped Poison Frog, <i>Ameerega trivittatus</i> ♂ (Cap: <i>Dendrobates trivittatus</i> )	Dendrobatidae	A*
d	\$300	Martinique's Anole, <i>Anolis roquet</i> (Cap: <i>Anoles roquet</i> )	Polychrotidae	A*

**ISRAEL****2014** (Amphibians in Israel) (MS of 8+4 tabs)

a	2s	Hula Painted Frog, <i>Latonia nigriventer</i>	Alytidae	A*
b	2s	Syrian Spadefoot Toad, <i>Pelobates syriacus</i>	Pelobatidae	A*
c	2s	Southern Banded Newt, <i>Ommatotriton vittatus</i>	Salamandridae	A*
d	2s	Near Eastern Fire Salamander, <i>Salamandra infraimmaculata</i>	Salamandridae	A*
	Tab	Southern Banded Newt, <i>Ommatotriton vittatus</i>	Salamandridae	Z*
	Tab	Hula Painted Frog, <i>Latonia nigriventer</i>	Alytidae	Z*

**IVORY COAST****2014 March 10** (African Fauna) (3ea MS of 4 & 3ea SS of 1)

a	250fr	no common name, <i>Hylarana occidentalis</i>	Ranidae	A*
b	350fr	no common name, <i>Hildebrandtia ornata</i>	Ptychadenidae	A*
c	500fr	no common name, <i>Hyperolius fusciventris</i>	Hyperoliidae	A*
d	750fr	West African Rubber Frog, <i>Phrynomantis microps</i>	Microhylidae	A*
	SS 2500fr	Ivory Coast Running Frog, <i>Kassina arboricola</i>	Hyperoliidae	A*
	Margin	LL: Amani Forest Tree Frog, <i>Leptopelis macrotis</i>	Hyperoliidae	Z*
a	250fr	Emerald Snake, <i>Hapsidophrys smaragdina</i>	Colubridae	A*
b	350fr	Senegal Mabuya, <i>Trachylepis affinis</i>	Scincidae	A*
c	500fr	White Worm Lizard, <i>Amphisbaena alba</i> (Cap: <i>Squamata Amphisbaena</i> )	Amphisbaenidae	A*
d	750fr	White-bellied Worm Snake, <i>Leptotyphlops albiventer</i>	Leptotyphlopidae	A*
	SS 2500fr	Five-lined Mabuya, <i>Trachylepis quinquetaeniata</i>	Scincidae	A*
	Margin	UL & ML: Same lizard (juveniles)	Scincidae	Z*
		Bot: Same lizard	Scincidae	Z*
a	250fr	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A*
b	350fr	Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	A*
c	500fr	Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	A*
d	750fr	Red-footed Tortoise, <i>Chelonoidis carbonaria</i>	Testudinidae	A*
	SS 2500fr	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A*
	Margin	UL: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z*
		Bot: Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	Z*

**KENYA****2012 June 22** (UN Environment Program CITES Logo)

861	30s	In letter C: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	B*
		In letter E: U/I Crocodile	Crocodylidae	U B*
		In letter E: Green Tree Snake, <i>Dendrelaphis punctulata</i>	Colubridae	B*
		In letter S: Tomato Frog, <i>Dyscophus</i> sp.	Microhylidae	B*

<b>KENYA</b> (continued)		<b>2013 December 13</b> (Independence 50th anniv.)		
871p	110s	U/I Crocodiles on Tana River	Crocodylidae	U A*
871		Sheet of 25 (Sc#871a–y)		
<b>LIECHTENSTEIN</b>		<b>2014 June 2</b> (Amphibians) (s/a)		
1609	85rp	Yellow-bellied Toad, <i>Bombina variegata</i>	Bombinatoridae	A*
1610	2.90fr	Great Crested Newt, <i>Triturus cristatus</i>	Salamandridae	A*
1611	3.70fr	Alpine Salamander, <i>Salamandra atra</i>	Salamandridae	A*
<b>MACEDONIA</b>		<b>2013 October 16</b> (Mushrooms)		
639b	20d	U/I Lizard sp. (under mushrooms)		U B
639		Horiz strip of 4 (Sc#639a–d)		
<b>MADAGASCAR</b>		<b>2013</b> (Fauna of Madagascar) (7ea SS of 1 triangle stamp)		
	SS 6000a	Angonoka Tortoise, <i>Astrochelys yniphora</i> (Cap/Syn: <i>Geochelone yniphora</i> )	Testudinidae	A*
	Margin	UR: U/I tree snake		U Z
	SS 6000a	Angonoka Tortoise, <i>Astrochelys yniphora</i>	Testudinidae	A*
	Margin	UL: <i>Boa</i> sp.	Boidae	U Z
		UR: U/I brown frog		U Z
	SS 6000a	Panther Chameleon, <i>Furcifer pardalis</i>	Chamaeleonidae	A*
	Margin	UL: <i>Boa</i> sp.	Boidae	U Z
	SS 6000a	Madagascar Tree Boa, <i>Sanzinia madagascariensis</i> (Cap/Syn: <i>Boa manditra</i> )	Boidae	A*
	Margin	Bot: U/I red and green poison frog		U Z
	SS 6000a	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	A*
	Margin	Bot: U/I black and yellow snake		U Z
	SS 6000a	Madagascar Tree Boa, <i>Sanzinia madagascariensis</i>	Boidae	A*
	SS 6000a	Ocelot Gecko, <i>Paroedura pictus</i>	Gekkonidae	A*
	Margin	Bot: U/I brown frog		U Z
		<b>2014</b> (Turtles) (MS of 4 & SS of 1)		
a	2100a	Diamondback Terrapin, <i>Malaclemys terrapin</i>	Emydidae	A*
b	2100a	Painted Wood Turtle, <i>Rhinoclemmys pulcherrima</i>	Geoemydidae	A*
c	2100a	Painted Terrapin, <i>Batagur borneoensis</i>	Geoemydidae	A*
d	2100a	Indian Roofed Turtle, <i>Pangshura tecta</i> (Cap: <i>Batagur tecta</i> )	Geoemydidae	A*
	SS 7500a	Galápagos Tortoise, <i>Chelonoidis nigra</i> (round stamp) (Cap/Syn: <i>Chelonoidis elephantopus</i> )	Testudinidae	A*
	Margin	UR: Aldabra Giant Tortoise, <i>Aldabrachelys gigantea</i>	Testudinidae	Z*
		LL: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z*
		<b>2014</b> (Crocodiles) (MS of 4 & SS of 1)		
a	2100a	American Crocodile, <i>Crocodylus acutus</i>	Crocodylidae	A*
b	2100a	African Slender-snouted Crocodile, <i>Mecistops cataphractus</i> (Cap/Syn: <i>Crocodylus cataphractus</i> )	Crocodylidae	A*
c	2100a	Philippine Crocodile, <i>Crocodylus mindorensis</i>	Crocodylidae	A*
d	2100a	Cuban Crocodile, <i>Crocodylus rhombifer</i>	Crocodylidae	A*
	SS 7500a	New Guinea Crocodile, <i>Crocodylus novaeguineae</i> (round stamp)	Crocodylidae	A*
	Margin	UL & LL: U/I Crocodile sp.		U Z
		<b>2014 October 9</b> (Green Sea Turtle) (Joint Issue)		
This stamp is part of a joint issue with Comoro Islands, France, French Southern & Antarctic Territories, Mauritius, and Seychelles. All stamps have the same common design and were issued on a SS of six.				
	1500a	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*

**MALAWI****2012 (Frogs) (MS of 6 & MS of 4)**

a	150k	Panamanian Golden Frog, <i>Atelopus zeteki</i>	Bufo	A*
b	250k	Phantasmal Poison Dart Frog, <i>Epipedobates tricolor</i> ☞	Dendrobatidae	A*
c	350k	Strawberry Poison Dart Frog, <i>Oophaga pumilio</i> ☞	Dendrobatidae	A*
d	450k	Red-backed Poison Dart Frog, <i>Dendrobates reticulatus</i> ☞	Dendrobatidae	A*
e	550k	Dyeing Poison Dart Frog, <i>Dendrobates tinctorius</i> ☞	Dendrobatidae	A*
f	650k	Yellow-banded Poison Dart Frog, <i>Dendrobates leucomelas</i> ☞	Dendrobatidae	A*
a	150k	Green & Black Poison Dart Frog, <i>Dendrobates auratus</i> ☞	Dendrobatidae	A*
b	250k	Blue Poison Dart Frog, <i>Dendrobates tinctorius</i> "azureus" ☞ (Cap: <i>Dendrobates azureus</i> )	Dendrobatidae	A*
c	450k	Red-headed Poison Dart Frog, <i>Ranitomeya fantastica</i> ☞ (Cap/Syn: <i>Dendrobates fantasticus</i> )	Dendrobatidae	A*
d	550k	Granular Poison Dart Frog, <i>Oophaga granulifera</i> ☞ (Cap/Syn: <i>Dendrobates granuliferous</i> )	Dendrobatidae	A*

**MALDIVIVE ISLANDS****2014 April 1 (Fauna of the Indian Ocean)**

Mi5163	20r	no common name, <i>Mantidactylus madecassus</i>	Mantellidae	A*
Mi5164	20r	Thomasset's Seychelles Frog, <i>Sooglossus thomasseti</i>	Sooglossidae	A*
Mi5165	20r	Main's Frog, <i>Cyclorana maini</i>	Hylidae	A*
Mi5166	20r	Madagascar Tomato Frog, <i>Dyscophus antongilii</i> MS of 4 (Mi#5163-66)	Microhylidae	A*
Mi5167	SS 60r	Blue-legged Mantella, <i>Mantella expectata</i>	Mantellidae	A*
	Margin	R: Main's Frog, <i>Cyclorana maini</i>	Hylidae	Z*
		Bot: Madagascar Tomato Frog, <i>Dyscophus antongilii</i>	Microhylidae	Z*
Mi5183	20r	Oriental Garden Lizard, <i>Calotes versicolor</i>	Agamidae	A*
Mi5184	20r	Komodo Dragon, <i>Varanus komodoensis</i>	Varanidae	A*
Mi5185	20r	Indian Wolf Snake, <i>Lycodon aulicus</i>	Colubridae	A*
Mi5186	20r	Leatherback Sea Turtle, <i>Dermochelys coriacea</i> MS of 4 (Mi#5183-86)	Dermochelyidae	A*
Mi5187	SS 60r	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A*
	Margin	LL: Oriental Garden Lizard, <i>Calotes versicolor</i>	Agamidae	Z*
		LR: Komodo Dragon, <i>Varanus komodoensis</i>	Varanidae	Z*

**2014 October 14 (Turtles) (MS of 4 & SS of 1)**

a	20r	Galápagos Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	A*
b	20r	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
c	20r	Arrau River Turtle, <i>Podocnemis expansa</i>	Podocnemididae	A*
d	20r	Green Sea Turtle, <i>Chelonia mydas</i> (head)	Cheloniidae	A*
	SS 60r	Green Sea Turtle, <i>Chelonia mydas</i> (also in LR margin)	Cheloniidae	A*

**MALI****2012 November 26 (Frogs) (MS of 4 & SS of 1)**

a	350fr	Marsupial Frog, <i>Gastrotheca marsupiata</i>	Hemiphractidae	A*
b	350fr	Arum Lily Frog, <i>Hyperolius horstockii</i>	Hyperoliidae	A*
c	350fr	Corroboree Frog, <i>Pseudophryne corroboree</i>	Myobatrachidae	A*
d	350fr	European Tree Frog, <i>Hyla arborea</i>	Hylidae	A*
	Margin	LL: Red-eyed Tree Frog, <i>Agalychnis callidryas</i>	Hylidae	Z*
		Bot: European Tree Frog, <i>Hyla arborea</i>	Hylidae	Z*
		LR: Dyeing Poison Dart Frog, <i>Dendrobates tinctorius</i> ☞	Dendrobatidae	Z*
	SS 1500fr	Surinam Horned Frog, <i>Ceratophrys cornuta</i> (round stamp)	Leptodactylidae	A*
	Margin	UL: U/I golden frog on stem		U Z
		ML: U/I green frog leaping		U Z
		LL: U/I bull frog in water		U Z
		UR: U/I green frog snatching insect		U Z
		LR: Mimic Poison Frog, <i>Ranitomeya imitator</i> ☞	Dendrobatidae	Z

<b>MALI</b> (continued)		<b>2014</b> (Crocodiles & Boy Scouts) (SS of 2+2 labels)		
a	1000fr	Mugger Crocodile, <i>Crocodylus palustris</i>	Crocodylidae	A*
b	1000fr	Freshwater Crocodile, <i>Crocodylus johnstoni</i> (Cap/Syn: <i>Crocodylus johnstoni</i> )	Crocodylidae	A*
<b>MARSHALL ISLANDS</b>		<b>2014 August 21</b> (Endangered Amphibians and Reptiles) (MS of 12)		
1087a	49c	Golden Mantella, <i>Mantella aurantiaca</i>	Mantellidae	A*
1087b	49c	Carpet Chameleon, <i>Furcifer lateralis</i>	Chamaeleonidae	A*
1087c	49c	Emerald Tree Boa, <i>Corallus caninus</i>	Boidae	A*
1087d	49c	Dyeing Poison Dart Frog, <i>Dendrobates tinctorius</i> ☞	Dendrobatidae	A*
1087e	49c	Golfodulcean Poison Dart Frog, <i>Phyllobates vittatus</i> ☞	Dendrobatidae	A*
1087f	49c	Peruvian Rainbow Boa, <i>Epicrates cenchria gagei</i>	Boidae	A*
1087g	49c	Panther Chameleon, <i>Furcifer pardalis</i>	Chamaeleonidae	A*
1087h	49c	Tomato Frog, <i>Dyscophus</i> sp.	Microhylidae	A*
1087i	49c	Red & Blue Poison Dart Frog, <i>Oophaga pumilio</i> ☞	Dendrobatidae	A*
1087j	49c	Flap-necked Chameleon, <i>Chamaeleo dilepis</i>	Chamaeleonidae	A*
1087k	49c	Amazon Tree Boa, <i>Corallus hortulanus</i>	Boidae	A*
1087l	49c	Yellow Banded Poison Dart Frog, <i>Dendrobates leucomelas</i> ☞	Dendrobatidae	A*
<b>MAURITIUS</b>		<b>2014 October 9</b> (Green Sea Turtle) (Joint Issue)		
This stamp is part of a joint issue with Comoro Islands, France, French Southern & Antarctic Territories, Madagascar, and Seychelles. All stamps have the same common design and were issued on a SS of six.				
	14r	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
<b>MEXICO</b>		<b>2014 June 6</b> (150th anniv. Diplomatic Relations with Portugal)		
2876	13.50p	Stylized Snake (Mexican flag coat of arms)		S
2877	13.50p	Stylized Snake (Mexican flag coat of arms)		S
2877a		Horiz pair (Sc#2876–77)		
<b>NAMIBIA</b>		<b>2014</b> (Poisonous Snakes) (Set of 4)		
	nd	Boomslang, <i>Dispholidus typus</i> ☞	Colubridae	A*
	\$5.40	Black Mamba, <i>Dendroaspis polylepis</i> ☞	Elapidae	A*
	\$6.20	Puff Adder, <i>Bitis arietans</i> ☞	Viperidae	A*
	\$7.30	Black-necked Spitting Cobra, <i>Naja nigricollis</i> ☞	Elapidae	A*
<b>NETHERLANDS</b>		<b>2013 February 25</b> (Animals in Burger's Zoo Arnhem)		
1437h	(54c)	Green Iguanas, <i>Iguana iguana</i>	Iguanidae	A*
1437		MS of 10 (Sc#1437a–j)		
1437n		Bklt pane of 2 (Sc#1437g–h)		
<b>NEW CALEDONIA</b>		<b>2013 June 8</b> (Marine Life in Lagoons)		
1156d	110fr	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
1156		Bklt pane 10 (Sc#1156a–j)		
<b>NORFOLK ISLAND</b>		<b>2014 November 3</b> (Fabric Designs) (Set of 5)		
1104	\$1.70	Stylized Turtles		S
<b>PALAU</b>		<b>2013 October 1</b> (Underwater Photographs)		
1168a	\$1.10	Green Sea Turtle (babies), <i>Chelonia mydas</i>	Cheloniidae	A*
1168		MS of 6 (Sc#1168a–f)		
		<b>2014 September 15</b> (Frogs) (2ea MS of 4 & SS of 1)		
a	\$1.20	Rough-Backed Forest Frog, <i>Platymantis corrugatus</i>	Ceratobatrachidae	A*
b	\$1.20	Common Tree Frog, <i>Polypedates leucomystax</i>	Rhacophoridae	A*
c	\$1.20	Luzon Frog, <i>Hylarana luzonensis</i>	Ranidae	A*
d	\$1.20	Wrinkled Ground Frog, <i>Platymantis cagayanensis</i>	Ceratobatrachidae	A*

**PALAU (continued)**

a	\$1.20	Taylor's Wrinkled Ground Frog, <i>Platymantis taylori</i>	Ceratobatrachidae	A*
b	\$1.20	Woodworth's Wart Frog, <i>Limnectes woodworthi</i>	Dicroglossidae	A*
c	\$1.20	Pygmy Forest Frog, <i>Platymantis pygmaeus</i>	Ceratobatrachidae	A*
d	\$1.20	Kalinga Narrowmouth Toad, <i>Kaloula kalingensis</i>	Microhylidae	A*
	SS \$4	Harlequin Tree Frog, <i>Rhacophorus pardalis</i>	Rhacophoridae	A*
	SS \$4	Luzon Fanged Frog, <i>Limnectes macrocephalus</i>	Dicroglossidae	A*

**PENRHYN****2013 February 21** (Year of the Snake) (MS of 4)

516a	\$1.20	Stylized Snake (blue background)		S
516b	\$1.20	Stylized Snake (rose background)		S
516c	\$1.20	Stylized Snake (green background)		S
516d	\$1.20	Stylized Snake (yellow background)		S

**PHILIPPINES****2013 August 2** (Marine Biodiversity) (MS of 8+label)

3494	Margin	UL: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z
3494i		MS of 8+label (Sc#3494) ovpt Thailand 2013 World Stamp Exhibition		

**2013 October 14** (50th Fish Conservation Week Winning Paintings)

3499a	10p	Green Sea Turtle, <i>Chelonia mydas</i> (with sharks and ray)	Cheloniidae	A*
3499		Horiz strip of 3 (Sc#3499a-c)		

**2014 January 31** (Year of the Horse)

3514a	50p	Stylized Snake		S
3514		SS of 3 (Sc#3514a-c)		

**PORTUGAL****2014 February 24** (400th anniv. Writings of Fernao Pinto)

3576	€1	Stylized Snake (with peacock)		S C
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**ROMANIA****2013 April 17** (National Bank of Romania Bucharest) (SS of 4)

5439b	Margin	CTR: Caduceus on Coat of Arms		S Z
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**RUSSIA****2014 February 13** (150th anniv. Moscow Zoo)

7510	SS 40r	LR: Crocodile, <i>Crocodylus</i> sp.	Crocodylidae	Z*
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**ST. KITTS****2014 February 19** (Reptiles of the Caribbean) (MS of 4 & SS of 1)

863a	\$3.25	Carolina Anole, <i>Anolis carolinensis</i>	Dactyloidae	A*
863b	\$3.25	Puerto Rican Crested Anole, <i>Anolis cristatellus</i>	Dactyloidae	A*
863c	\$3.25	Tropical House Gecko, <i>Hemidactylus mabouia</i>	Gekkonidae	A*
863d	\$3.25	Green Iguana, <i>Iguana iguana</i>	Iguanidae	A*
864	SS \$9	Saba Least Gecko, <i>Sphaerodactylus sabanus</i>	Gekkonidae	A*

**ST. THOMAS & PRINCE IS.****2011 March 30** (Galapagos Islands Protected Species)

2400a	40000d	Galápagos Land Iguana, <i>Conolophus subcristatus</i>	Iguanidae	A*
2400b	40000d	Galápagos Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	A*
2400		MS of 2 (Sc#2400a-b)		
	Margin	LL: U/I Sea Turtle		U Z
2414a	52000d	Aldabra Giant Tortoise, <i>Aldabrachelys gigantea</i> (Cap: <i>Megalochelis gigantea</i> )	Testudinidae	A*
2414b	52000d	River Cooter, <i>Pseudemys concinna</i> (Cap: <i>Chrysemys concinna</i> )	Emydidae	A*
2414		MS of 2 (Sc#2414a-b)		
	Margin	UR: Painted Turtle, <i>Chrysemys picta</i>	Emydidae	Z*
		LR: European Pond Turtle, <i>Emys orbicularis</i>	Emydidae	Z*
2419a	55000d	Horned Marsupial Frog, <i>Gastrotheca cornuta</i>	Hemiphractidae	A*
2419b	55000d	Darwin's Frog, <i>Rhinoderma darwinii</i>	Rhinodermatidae	A*

**ST. THOMAS & PRINCE IS. (continued)**

2419		MS of 2 (Sc#2419a–b)		
	Margin	UR: Barred Leaf Frog, <i>Phyllomedusa tomopterna</i>	Hylidae	Z*
		MR: Waxy Monkey Leaf Frog, <i>Phyllomedusa sauvagii</i>	Hylidae	Z*
		MR: Harlequin Poison Frog, <i>Oophaga histrionica</i> ☠	Dendrobatidae	Z*
		(Cap: <i>Dendrobates histrionicus</i> )		
		LR: Argentine Horned Frog, <i>Ceratophrys ornata</i>	Leptodactylidae	Z*

**2013 March 29 (Year of the Snake) (MS of 4 & SS of 1)**

2445a	25000d	U/I snake sp. (denom at UL and head at LR)		U A*
2445b	25000d	U/I snake sp. (denom at UL and head at LL)		U A*
2445c	25000d	U/I snake sp. (denom at UR)		U A*
2445d	25000d	U/I snake sp. (denom at UL and head at UL)		U A*
2465	SS 96000d	U/I snake sp.		U A*
	Margin	LL & LR: U/I snake sp.		U Z*

**2013 May 10 (Crocodiles & Turtles) (2ea MS of 4 & SS of 1)**

2483a	25000d	Slender-snouted Crocodile, <i>Crocodylus cataphractus</i>	Crocodylidae	A*
2483b	25000d	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	A*
2483c	25000d	West African Crocodile, <i>Crocodylus suchus</i>	Crocodylidae	A*
2483d	25000d	Dwarf Crocodile, <i>Osteolaemus tetraspis</i>	Crocodylidae	A*
2484a	25000d	Aldabra Giant Tortoise, <i>Aldabrachelys gigantea</i>	Testudinidae	A*
		(Cap/Syn: <i>Geochelone gigantea</i> )		
2484b	25000d	Leopard Tortoise, <i>Stigmochelys pardalis</i>	Testudinidae	A*
		(Cap/Syn: <i>Geochelone pardalis</i> )		
2484c	25000d	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A*
2484d	25000d	African Spurred Tortoise, <i>Centrochelys sulcata</i>	Testudinidae	A*
		(Cap/Syn: <i>Geochelone sulcata</i> )		
2503	SS 96000d	Nile Crocodile, <i>Crocodylus niloticus</i> (also in UL margin)	Crocodylidae	A*
2504	SS 96000d	African Helmeted Turtle, <i>Pelomedusa subrufa</i> (also in margin)	Pelomedusidae	A*

**2013 December 10 (Scouting & Turtles) (MS of 4 & SS of 1)**

2600a	25000d	Burmese Roofed Turtle, <i>Batagur trivittata</i>	Geoemydidae	A*
2600b	25000d	Peninsula Cooter, <i>Pseudemys peninsularis</i>	Emydidae	A*
2600c	25000d	Elongated Tortoise, <i>Indotestudo elongata</i>	Testudinidae	A*
2600d	25000d	Northern Red-bellied Cooter, <i>Pseudemys rubriventris</i>	Emydidae	A*
2617	SS 96000d	Sulawesi Forest Turtle, <i>Leucocephalon yuwonoi</i>	Geoemydidae	A*
	Margin	LL: Painted Turtle, <i>Chrysemys picta</i>	Emydidae	Z*
		LR: Western Box Turtle, <i>Terrapene ornata</i>	Emydidae	Z*

**ST. VINCENT****2013 November 28 (Reptiles of the Caribbean) (MS of 4 & SS of 1)**

3886a	\$3.50	Dwarf Gecko, <i>Lygodactylus picturatus</i> (also in margin)	Gekkonidae	A*
3886b	\$3.50	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A*
3886c	\$3.50	Brown Anole, <i>Anolis sagrei</i>	Polychrotidae	A*
3886d	\$3.50	Mona Boa, <i>Epicrates monensis</i>	Boidae	A*
3887	SS \$9	Green Iguana, <i>Iguana iguana</i>	Iguanidae	A*

**ST. VINCENT (Canouan Island) 2013 (Wildlife of South America) (MS of 8 & SS of 1)**

a	\$1	Black-legged Dart Frog, <i>Phyllobates bicolor</i> ☠	Dendrobatidae	A*
b	\$1	Blue Poison Dart Frog, <i>Dendrobates tinctorius</i> "azureus" ☠	Dendrobatidae	A*
		(Cap: <i>Dendrobates azureus</i> )		
c	\$1	Red-Black Poison Frog, <i>Ranitomeya reticulata</i> ☠	Dendrobatidae	A*
d	\$1	Mimic Poison Frog, <i>Ranitomeya imitator</i> ☠	Dendrobatidae	A*
e	\$1	Poison Dart Frog, <i>Dendrobates auratus</i> ☠	Dendrobatidae	A*

**ST. VINCENT (Canouan Island)** (continued)

f	\$1	Harlequin Poison Dart Frog, <i>Oophaga histrionica</i> ☞	Dendrobatidae	A*
g	\$1	Yellow-banded Poison Dart Frog, <i>Dendrobates leucomelas</i> ☞	Dendrobatidae	A*
h	\$1	Strawberry Poison Dart Frog, <i>Oophaga pumilio</i> ☞	Dendrobatidae	A*
Margin		Top: Harlequin Poison Dart Frog, <i>Oophaga histrionica</i> ☞	Dendrobatidae	Z*
SS \$9		Blue Poison Dart Frog, <i>Dendrobates tinctorius</i> "azureus" ☞ (Cap: <i>Dendrobates azureus</i> )	Dendrobatidae	A*

**SAMOA****2013 February 19** (Year of the Snake) (MS of 4)

1139a	\$3	Stylized Snake (yellow background)		S
1139b	\$3	Stylized Snake (purple background)		S
1139c	\$3	Stylized Snake (green background)		S
1139d	\$3	Stylized Snake (orange background)		S

**2014 January 10** (Endangered Marine Life & Reptiles) (Set of 12)

1174	\$6.60	Samoa Skink, <i>Emoia samoensis</i>	Scincidae	A*
1176	\$9	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A*

**SERBIA****2014 January 31** (Year of the Horse)

650	22d	Stylized Snake Chinese Zodiac symbol		S C
651	46d	Stylized Snake Chinese Zodiac symbol		S C

**SEYCHELLES****2014 October 9** (Green Sea Turtle) (Joint Issue)

This stamp is part of a joint issue with Comoro Islands, France, French Southern & Antarctic Territories, Madagascar, and Mauritius. All stamps have the same common design and were issued on a SS of six.

50r		Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
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**SIERRA LEONE****2013 September 9** (African Turtles) (MS of 4 & SS of 1)

3165a	5000Le	African Helmeted Turtle, <i>Pelomedusa subrufa</i>	Pelomedusidae	A
3165b	5000Le	African Spurred Tortoise, <i>Geochelone sulcata</i>	Testudinidae	A
3165c	5000Le	Leopard Tortoise, <i>Geochelone pardalis</i>	Testudinidae	A
3165d	5000Le	Radiated Tortoise, <i>Astrochelys radiata</i>	Testudinidae	A
3166	SS 16000Le	Yellow-bellied Mud Turtle, <i>Pelusios castanoides</i>	Pelomedusidae	A

**SINGAPORE****2013 July 13** (50 Years of Greening Singapore)

1608	(26c)	Green-crested Lizard, <i>Bronchocela cristatella</i>	Agamidae	B
1612	SS \$5	Composite image of Sc#1608–11		
1613a	(26c)	Same lizard, s/a format		
1613		MS of 4 (2ea Sc#1613a–b)		

**SOLOMON ISLANDS****2012 June 5** (60th anniv. Reign of Queen Elizabeth II)

1145	Margin	LL: Stylized crocodile and turtles in Solomon Islands Coat of Arms		S
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**2012 June 5** (Reptiles and Amphibians of Solomon Islands)

1164a	\$9	Marine File Snake, <i>Acrochordus granulatus</i>	Acrochordidae	A*
1164b	\$9	Saltwater Crocodile, <i>Crocodylus porosus</i>	Crocodylidae	A*
1164c	\$9	Solomon Islands Skink, <i>Corucia zebra</i>	Scincidae	A*
1164d	\$9	Solomon Island Leaf Frog, <i>Ceratobatrachus guentheri</i>	Ceratobatrachidae	A*
1164e	\$27	Guadalcanal Bow-fingered Gecko, <i>Cyrtodactylus biordinis</i>	Gekkonidae	A*
1164	Margin	UL: Solomon Scaly-toed Gecko, <i>Lepidodactylus guppyi</i>	Gekkonidae	Z*
		Bot: Mangrove Monitor, <i>Varanus indicus</i>	Varanidae	Z*
		UR: Saltwater Crocodile, <i>Crocodylus porosus</i>	Crocodylidae	Z*
		LR: Fauro Sticky-toed Frog, <i>Batrachylodes vertebralis</i>	Ceratobatrachidae	Z*

**SOLOMON ISLANDS (continued) 2012 June 5 (Turtles)**

1165a	\$9	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
1165b	\$9	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A*
1165c	\$9	Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A*
1165d	\$9	Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	A*
1165e	\$27	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A*
1165	Margin	LL: U/I Baby sea turtles		Z*
		CTR: Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	Z*
		UR: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z*

**2013 February 15 (Solomon Islands Fauna) (SS of 1)**

Mi1585	SS \$24	Waxy Monkey Leaf Frog, <i>Phyllomedusa sauvagii</i>	Hylidae	A*
	Margin	UL: Waxy Monkey Leaf Frog, <i>Phyllomedusa sauvagii</i>	Hylidae	Z*
		LR: Solomon Islands Skink, <i>Corucia zebrata</i>	Scincidae	Z*

**2013 May 3 (Frogs from the Pacific Region) (MS of 4 & SS of 1)**

a	\$7	Fleay's Barred Frog, <i>Mixophyes fleayi</i>	Myobatrachidae	A*
b	\$7	Giant Barred Frog, <i>Mixophyes iteratus</i>	Myobatrachidae	A*
c	\$7	Solomon Island Palm Frog, <i>Palmatorappia solomonis</i>	Ceratobatrachidae	A*
d	\$7	U/I horned frog (Cap: <i>Phrynosoma</i> [a lizard species])		U
	Margin	UL: no common name, <i>Discodeles bufoniformis</i>	Ceratobatrachidae	Z*
		LL: Solomon Island Leaf Frog, <i>Ceratobatrachus guentheri</i>	Ceratobatrachidae	Z*
	SS \$20	Pacific Horned Frog, <i>Ceratophrys stolzmanni</i>	Leptodactylidae	A*
	Margin	UR: Solomon Island Palm Frog, <i>Palmatorappia solomonis</i>	Ceratobatrachidae	Z*
		MR: Southern Corroboree Frog, <i>Pseudophryne corroboree</i>	Myobatrachidae	Z*
		ML: Crucifix Toad, <i>Notaden bennettii</i>	Myobatrachidae	Z*
		LL: Giant Barred Frog, <i>Mixophyes iteratus</i>	Myobatrachidae	Z*
		Bot: Barred Frog, <i>Mixophyes coggeri</i>	Myobatrachidae	Z*

**2013 May 10 (Australian Fauna-Crocodyles) (MS of 4 & SS of 1)**

a	\$7	Saltwater Crocodile, <i>Crocodylus porosus</i> (face forward)	Crocodylidae	A*
b	\$7	Saltwater Crocodile, <i>Crocodylus porosus</i> (face right)	Crocodylidae	A*
c	\$7	Saltwater Crocodile, <i>Crocodylus porosus</i> (face left)	Crocodylidae	A*
d	\$7	Saltwater Crocodile, <i>Crocodylus porosus</i> (mouth open)	Crocodylidae	A*
	Margin	LL & LR: Saltwater Crocodile, <i>Crocodylus porosus</i>	Crocodylidae	Z*
	SS \$35	Saltwater Crocodile, <i>Crocodylus porosus</i>	Crocodylidae	A*
	Margin	Top, LL, & LR: Saltwater Crocodile, <i>Crocodylus porosus</i>	Crocodylidae	Z*

**2013 May 10 (Australian Fauna-Reptiles) (MS of 4 & SS of 1)**

a	\$7	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
b	\$7	Blotched Blue-tongued Lizard, <i>Tiliqua nigrolutea</i>	Scincidae	A*
c	\$7	Freshwater Crocodile, <i>Crocodylus johnstoni</i> (Cap/Syn: <i>Crocodylus johnstoni</i> )	Crocodylidae	A*
d	\$7	Chappell Island Tiger Snake, <i>Notechis ater serventyi</i> ♀	Elapidae	A*
	Margin	UR: Gippsland Water Dragon, <i>Intelligama lesueurii howittii</i> (Cap/Syn: <i>Physignathus lesueurii howittii</i> )	Agamidae	Z*
	SS \$35	Frill-necked Lizard, <i>Chlamydosaurus kingii</i>	Agamidae	A*
	Margin	Top: Blotched Blue-tongued Lizard, <i>Tiliqua nigrolutea</i>	Scincidae	Z*
		LL: Boyd's Forest Dragon, <i>Hypsilurus boydii</i>	Agamidae	Z*
		LR: Lace Monitor, <i>Varanus varius</i>	Varanidae	Z*



**SOLOMON ISLANDS (continued) 2013 May 10 (Australian Fauna-Snakes) (MS of 4 & SS of 1)**

a	\$7	Eastern Brown Snake, <i>Pseudonaja textilis</i> ☞ (tongue out)	Elapidae	A*
b	\$7	Eastern Brown Snake, <i>Pseudonaja textilis</i> ☞ (coiled)	Elapidae	A*
c	\$7	Eastern Brown Snake, <i>Pseudonaja textilis</i> ☞ (uncoiled)	Elapidae	A*
d	\$7	Tiger Snake, <i>Notechis scutatus</i> ☞	Elapidae	A*
Margin		UR: Eastern Brown Snake, <i>Pseudonaja textilis</i> ☞	Elapidae	Z*
		LL: Common Tree Snake, <i>Dendrelaphis punctulata</i>	Colubridae	Z*
		LR: Coastal Taipan, <i>Oxyuranus scutellatus</i> ☞	Elapidae	Z*
SS \$35		Tiger Snake, <i>Notechis scutatus</i> ☞	Elapidae	A*
Margin		UL, UR, LR: Eastern Brown Snake, <i>Pseudonaja textilis</i> ☞	Elapidae	Z*
		LL: Inland Taipan, <i>Oxyuranus microlepidotus</i> ☞	Elapidae	Z*

**2013 August 30 (Solomon Islands Skink) (MS of 4 & SS of 1)**

a	\$7	Solomon Islands Skink, <i>Corucia zebrata</i> (head to right)	Scincidae	A*
b	\$7	Solomon Islands Skink, <i>Corucia zebrata</i> (head to left)	Scincidae	A*
c	\$7	Solomon Islands Skink, <i>Corucia zebrata</i> (on branch)	Scincidae	A*
d	\$7	Solomon Islands Skink, <i>Corucia zebrata</i> (behind branch)	Scincidae	A*
SS \$35		Solomon Islands Skink, <i>Corucia zebrata</i>	Scincidae	A*
Margin		UR & LR: Solomon Islands Skink, <i>Corucia zebrata</i>	Scincidae	Z*

**2013 November 22 (Turtles) (MS of 4 & SS of 1)**

a	\$7	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A*
b	\$7	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
c	\$7	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A*
d	\$7	Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	A*
SS \$35		Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	A*
Margin		UR: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z*
		Bot: Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	Z*

**2014 March 10 (Marine Life) (MS of 4)**

d	\$7	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
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**2014 July 3 (50th anniv. of IUCN Red List) (MS of 4)**

d	\$7	Growling Grass Frog, <i>Litoria raniformis</i>	Ranidae	A*
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**2014 August 25 (World of Turtles) (MS of 4 & SS of 1) (hexagonal)**

a	\$7	Galápagos Giant Tortoise, <i>Chelonoidis nigra</i>	Testudinidae	A*
b	\$7	Gopher Tortoise, <i>Gopherus polyphemus</i>	Testudinidae	A*
c	\$7	European Pond Turtle, <i>Emys orbicularis</i>	Emydidae	A*
d	\$7	Red-eared Slider, <i>Trachemys scripta elegans</i>	Emydidae	A*
Margin		LL: Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	Z*
		LR: Common Box Turtle, <i>Terrapene carolina</i>	Emydidae	Z*
SS \$35		African Spurred Tortoise, <i>Centrochelys sulcata</i> (Cap/Syn: <i>Geochelone sulcata</i> )	Testudinidae	A*
Margin		LL: Radiated Tortoise, <i>Astrochelys radiata</i>	Testudinidae	Z*
		LR: Red-eared Slider, <i>Trachemys scripta elegans</i>	Emydidae	Z*

**SOUTH AFRICA****2013 September 20 (Symbols of South African Cultures)**

1498i	(4.50r)	Stylized crocodile in his pool (Ngwenya symbol of royalty)		S
1498		MS of 10 (Sc#1498a-j)		

**2013 October 25 (20th anniv. Diplomatic Relations with Mexico)**

1500	SS (6.90r)	Stylized snake in eagle's beak (margin)		S
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**SRI LANKA****2013 July 28** (Wildlife in Yala National Park)

1896	5r	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A*
1897	15r	Mugger Crocodile, <i>Crocodylus palustris</i>	Crocodylidae	A*
1900a		SS of 2 (Sc#1897 & 1900)		
1900b		SS of 2 (Sc#1897 & 1900) ovpt Thailand 2013 Stamp Exhibition emblem		
1901a		SS of 2 (Sc#1896 & 1901)		
1901b		SS of 2 (Sc#1896 & 1901) ovpt Thailand 2013 Stamp Exhibition emblem		

**2014 March 3** (World Wildlife Day)

1896	5r	Mountain Hourglass Tree Frog, <i>Taruga eques</i>	Rhacophoridae	A*
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**TAJIKISTAN****2013 April 11** (Year of the Snake) (SS of 3)

393a	2.50s	Stylized Snake with crown (denom at UL)		S
393b	2.50s	Stylized Snake wrapped around tree		S
393c	2.50s	Stylized Snake with crown (denom at UR)		S

**TANZANIA****2012 October 10** (Year of the Snake)

2676	350sh	Stylized Snake wrapped around branch		S
2677	2000sh	Stylized Snake silhouette design		S
2677	Margin	U/I snake species on sheet of 4 (Sc#2677)		Z
2678e	500sh	Stylized Snake design		S
2678		Sheet of 20 (Sc#2678a–d, 16ea Sc#2678e)		
2679f	450sh	Stylized Snake		S
2679		MS of 12 (Sc#2679a–l) Chinese Zodiac animals		

**THAILAND****2014 July 10** (Amphibians) (MS of 4) (also in sheets of 10)

a	5b	Big-eared Toad, <i>Ingerophrynus macrotis</i>	Bufoidea	A*
b	5b	Common Green Frog, <i>Hylarana erythraea</i>	Ranidae	A*
c	5b	Long-nosed Horned Frog, <i>Megophrys nasuta</i>	Megophryidae	A*
d	5b	Black-webbed Tree Frog, <i>Rhacophorus kio</i>	Rhacophoridae	A*

**TOGO****2012 October 11** (Anniversaries & Events)

Mi4503	750fr	Spiny Turtle, <i>Heosemys spinosa</i> (Cap/Syn: <i>Emys spinosa</i> )	Geoemydidae	A*
Mi4504	750fr	Angulate Tortoise, <i>Chersina angulata</i> (Cap/Syn: <i>Testudo angulata</i> )	Testudinidae	B*
Mi4505	750fr	Spiny Turtle, <i>Heosemys spinosa</i> (Cap/Syn: <i>Emys spinosa</i> )	Geoemydidae	B*
Mi4506	750fr	Indian Star Tortoise, <i>Geochelone elegans</i> (Cap/Syn: <i>Testudo actinodes</i> )	Testudinidae	A*
		MS of 4 (Mi#4503–06) 220th anniv. Thomas Bell (1792–1880)		
Mi4507 SS	2000fr	Red-footed Tortoise, <i>Chelonoidis carbonaria</i>	Testudinidae	A*
	Margin	Bot: Spiny Turtle, <i>Heosemys spinosa</i> (Cap/Syn: <i>Emys spinosa</i> )	Geoemydidae	Z*
Mi4511	750fr	Chinese Softshell Turtle, <i>Pelodiscus sinensis</i> (with skulls)	Trionychidae	A*
		MS of 4 (Mi#4508–11) 210th anniv. Johann Friedrich von Brandt		

**2013 March 1** (Royal Python-Year of the Snake) (MS of 4 & SS of 1)

a	750fr	Royal Python, <i>Python regius</i> (striped morph)	Pythonidae	A*
b	750fr	Royal Python, <i>Python regius</i> (albino)	Pythonidae	A*
c	750fr	Royal Python, <i>Python regius</i> (fire morph)	Pythonidae	A*
d	750fr	Royal Python, <i>Python regius</i> (with eggs)	Pythonidae	A*
	Margin	UL & UR: Royal Python, <i>Python regius</i>	Pythonidae	Z*
	SS 2500fr	Royal Python, <i>Python regius</i> (Blue-eyed leucistic morph)	Pythonidae	A*
	Margin	UR: Royal Python, <i>Python regius</i>	Pythonidae	Z*

**TOGO** (continued)**2013 July 22** (Turtles) (MS of 4 & SS of 1)

a	750fr	Margined Tortoise, <i>Testudo marginata</i>	Testudinidae	A*
b	750fr	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
c	750fr	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A*
d	750fr	Olive Ridley Sea Turtle, <i>Lepidochelys olivacea</i>	Cheloniidae	A*
	SS 2500fr	Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	A*
	Margin	L: Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	Z

**2013 August 30** (Frogs of Togo) (MS of 3 & SS of 1)

a	950fr	Schilluk Ridged Frog, <i>Ptychadena schillukorum</i>	Ptychadenidae	A*
b	950fr	Togo Toad, <i>Amietophrynus togoensis</i>	Bufoidea	A*
c	950fr	Ukami Reed Frog, <i>Hyperolius torrentis</i>	Hyperoliidae	A*
	SS 2500fr	Togo Slippery Frog, <i>Conraua derooi</i>	Conrauidae	A*
	Margin	UR & Bot: Ukami Reed Frog, <i>Hyperolius torrentis</i>	Hyperoliidae	Z*

**2013 November 15** (Turtles) (MS of 4 & SS of 1)

a	750fr	Diamondback Terrapin, <i>Malaclemys terrapin</i>	Emydidae	A*
b	750fr	Ornate Diamondback Terrapin, <i>M. terrapin macrospilota</i>	Emydidae	A*
c	750fr	Carolina Diamondback Terrapin, <i>M. terrapin centrata</i> (Cap/Syn: <i>Malaclemys centrata concentrica</i> )	Emydidae	A*
d	750fr	Common Box Turtle, <i>Terrapene carolina</i>	Emydidae	A*
	SS 2500fr	Serrated Hinged Terrapin, <i>Pelusios sinuatus</i>	Pelomedusidae	A*
	Margin	LL: Painted Turtle, <i>Chrysemys picta</i>	Emydidae	Z*
		UR: Diamondback Terrapin, <i>Malaclemys terrapin</i>	Emydidae	Z*

**2013 December 5** (Predators) (MS of 4)

b	750fr	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	A*
d	750fr	Royal Python, <i>Python regius</i>	Pythonidae	A*

**2014 April 10** (50th anniv. of IUCN Red List) (MS of 4)

a	750fr	Cagle's Map Turtle, <i>Graptemys caglei</i>	Emydidae	A*
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**2014 June 30** (Turtles) (MS of 4 & SS of 1)

a	750fr	Eastern Long-necked Turtle, <i>Chelodina longicollis</i>	Chelidae	A*
b	750fr	Common Snapping Turtle, <i>Chelydra serpentina</i>	Chelydridae	A*
c	750fr	Yellow Mud Turtle, <i>Kinosternon flavescens</i>	Kinosternidae	A*
d	750fr	Spiny Softshell Turtle, <i>Apalone spinifera</i>	Trionychidae	A*
	SS 2500fr	Leatherback Sea Turtle, <i>Dermochelys coriacea</i>	Dermochelyidae	A*
	Margin	LL: Galápagos Giant Tortoise, <i>Chelonoidis nigra abingdonii</i>	Testudinidae	Z*
		UR: Hawksbill Sea Turtle, <i>Eretmochelys imbricata</i>	Cheloniidae	Z*

**TURKEY****2013 June 10** (17th Mediterranean Games) (MS of 4)

3348	Margin	LL & LR: Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	Z
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**UGANDA****2012 March 30** (Reptiles) (MS of 4 & SS of 1)

Mi2780	3400sh	Graceful Chameleon, <i>Chamaeleo gracilis</i>	Chamaeleonidae	A*
Mi2781	3400sh	Leopard Tortoise, <i>Stigmochelys pardalis</i>	Testudinidae	A*
Mi2782	4100sh	Gaboon Viper, <i>Bitis gabonica</i>	Viperidae	A*
Mi2783	4100sh	Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	A*
	Margin	Bot: Graceful Chameleon, <i>Chamaeleo gracilis</i>	Chamaeleonidae	Z*
		LR: Nile Crocodile, <i>Crocodylus niloticus</i>	Crocodylidae	Z*
Mi2784SS	8300sh	Gaboon Viper, <i>Bitis gabonica</i>	Viperidae	A*
	Margin	LL: Graceful Chameleon, <i>Chamaeleo gracilis</i>	Chamaeleonidae	Z*
		Bot: Leopard Tortoise, <i>Stigmochelys pardalis</i>	Testudinidae	Z*
		UR: Montane Egg-eating Snake, <i>Dasypeltis atra</i>	Colubridae	Z*
		LR: Gaboon Viper, <i>Bitis gabonica</i>	Viperidae	Z*

**UGANDA** (continued)**2013 July 8** (Endangered & Vulnerable Species) (MS of 4 & SS of 1)

a	1000sh	Aldabra Giant Tortoise, <i>Aldabrachelys gigantea</i>	Testudinidae	A*
b	4000sh	Home's Hinge-back Tortoise, <i>Kinixys homeana</i>	Testudinidae	A*
c	7500sh	Kleinmann's Tortoise, <i>Testudo kleinmanni</i>	Testudinidae	A*
d	7500sh	Pancake Tortoise, <i>Malacochersus tornieri</i>	Testudinidae	A*
	SS 7500sh	Spider Tortoise, <i>Pyxis arachnoides</i>	Testudinidae	A*
	Margin	L: Kleinmann's Tortoise, <i>Testudo kleinmanni</i>	Testudinidae	Z*
		Bot: Loggerhead Sea Turtle, <i>Caretta caretta</i>	Cheloniidae	Z*
c	4000sh	Chinese Alligator, <i>Alligator sinensis</i>	Alligatoridae	A*
		MS of 4 (Predators)		
a.	1800fr	Dwarf Crocodile, <i>Osteolaemus tetraspis</i>	Crocodylidae	A*
b	1800fr	Armadillo Girdled Lizard, <i>Ouroborus cataphractus</i>	Cordylidae	A*
c	7500fr	African Slender-snouted Crocodile, <i>Crocodylus cataphractus</i>	Crocodylidae	A*
d	7500fr	Leopard Fringe-fingered Lizard, <i>Acanthodactylus pardalis</i>	Lacertidae	A*
	SS 7500fr	Labord's Chameleon, <i>Furcifer labordi</i>	Chamaeleonidae	A*
	Margin	LL: Giant Girdled Lizard, <i>Smaug giganteus</i> (Cap: <i>Cordylus g.</i> )	Cordylidae	Z*

**2013 November 25** (Turtles) (s-o-s) (MS of 4 & SS of 1)

a	2500sh	Loggerhead Sea Turtle, <i>Caretta caretta</i> (New Zealand Sc#1698)	Cheloniidae	A*
b	2500sh	Galápagos Tortoise, <i>Chelonoidis nigra</i> (Benin unlisted 2008)	Testudinidae	A*
c	2500sh	Galápagos Tortoise, <i>Chelonoidis nigra</i> (Tanzania Sc#1128)	Testudinidae	A*
d	2500sh	Leatherback Sea Turtle, <i>Dermochelys coriacea</i> (Vietnam Sc#1968)	Dermochelyidae	A*
	SS 7500sh	Green Sea Turtle, <i>Chelonia mydas</i> (Vietnam Sc#1969)	Cheloniidae	A*
	Margin	Fossilized turtle, <i>Placochelys placodonta</i> (Hungary Sc#1996)	†Placochelyidae	Z
		Loggerhead Sea Turtle, <i>Caretta caretta</i> (Greece Sc#1675)	Cheloniidae	Z
		Indian Star Tortoise, <i>Geochelone elegans</i> (Azerbaijan Sc#523)	Testudinidae	Z
		U/I Tortoise (Rwanda unlisted)		U Z
	SS 7500sh	Golden Bell Frog, <i>Litoria aurea</i> (Vietnam Sc#2281)	Hylidae	A*

**UKRAINE****2012 December 17** (Amphibians of Ukraine) (MS of 5)

906a	2h	European Common Toad, <i>Bufo bufo</i>	Bufoidea	A*
906b	2h	Yellow-Bellied Toad, <i>Bombina variegata</i>	Bombinatoridae	A*
906c	2h	European Green Toad, <i>Bufo viridis</i>	Bufoidea	A*
906d	2h	Common Spadefoot Toad, <i>Pelobates fuscus</i>	Pelobatidae	A*
906e	2h	European Common Brown Frog, <i>Rana temporaria</i>	Ranidae	A*

**2013 December 25** (Year of the Snake)

953f	2.50h	Stylized Snake		S
953		MS of 6 (Sc#953a-f) Chinese Zodiac animals		

**URUGUAY****2013 December 4** (Wildlife)

2451b	15p	Green Sea Turtle, <i>Chelonia mydas</i>	Cheloniidae	A*
2451		Horiz pair (Sc#2451a-b)		

**2014 May 11** (Tourist Destinations Lavalleja) (MS of 8+label)

a	15p	San Martin Toad, <i>Melanophryniscus sanmartini</i>	Bufoidea	A*
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**VANUATU****2013 November 6** (Christmas)

1066	100v	Stylized Sea Turtle (with snorkeling Santa)		S
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**VIETNAM****2014 April 1** (Frogs) (Set of 5)

	3000d	Puer Tree Frog, <i>Rhacophorus puerensis</i>	Rhacophoridae	A*
	4500d	Annam Flying Frog, <i>Rhacophorus annamensis</i>	Rhacophoridae	A*
	6000d	Vietnam Flying Frog, <i>Rhacophorus robertingeri</i>	Rhacophoridae	A*
	8000d	Black-webbed Flying Frog, <i>Rhacophorus kio</i>	Rhacophoridae	A*
	10000d	Red-webbed Treefrog, <i>Rhacophorus rhodopus</i>	Rhacophoridae	A*

**WALLIS & FUTUNA ISLANDS**      **2013 September 2** (2013 Pacific Mini-Games) (Bklt pane of 8)

730a	85fr	Stylized Red Lizard mascot (serving volleyball)	S
730b	85fr	Stylized Red Lizard mascot (diving for volleyball)	S
730c	85fr	Stylized Red Lizard mascot (sailing)	S
730d	85fr	Stylized Red Lizard mascot (weight lifting)	S
730e	85fr	Stylized Red Lizard mascot (playing rugby)	S
730f	85fr	Stylized Red Lizard mascot (Taekwondo)	S
730g	85fr	Stylized Red Lizard mascot (paddling outrigger)	S
730h	85fr	Stylized Red Lizard mascot (throwing javelin)	S
<b>2014 January 24</b> (New Banknotes)			
738	90fr	Stylized Sea Turtle (on 1000fr banknote)	S

**ASCENSION ISLAND GREEN SEA TURTLES**

On 14 February 2015, Ascension Island issued a set of six stamps and a miniature sheet of six with similar designs depicting the Green Sea Turtle (*Chelonia mydas*).

Each stamp pays the airmail postcard rate (50p). The individual stamps were issued in sheets of ten and have a white border around the design. The stamps on the miniature sheet have no borders.

The stamps were designed by Bee Design and printed using lithography by BDT International.

Ascension Island has the second largest nesting population of the green turtle in the entire Atlantic Ocean and the largest nesting population of any marine turtle species in all of the United Kingdom Overseas Territories, with over 25,000 nests annually.

The population was severely depleted by the harvesting of nesting females for meat during the 19th and early 20th centuries by those on the island and passing ships that would take live turtles on-board to ensure fresh meat for their journey. However, it is currently recovering strongly after decades of protection.

The first three stamps show a female turtle moving from the sea to a nesting site, digging a nest to deposit her eggs, and returning to the water.

The second three stamps show a newly hatched baby turtle emerging from the nest (also on the margin) and making its way to the water.





# ENTOMOLOGY

Editor

Donald P. Wright, Jr., BU243



Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
<b>ANDORRA (French) 2014 September 6 (Butterflies)</b>				
	83c	Scotch Argus, <i>Erebia aethiops</i> Esper	NYM, Satyrinae	A*
<b>BURUNDI 2014 (Butterflies of Burundi I) (MS of 4, SS of 4, &amp; 4ea SS of 1)</b>				
a	2025fr	Chestnut Emperor, <i>Melanocera menippe</i> Westwood (with larva)	SAT, Saturniinae	new A*
b	2025fr	Mopane Moth, <i>Gonimbrasia belina</i> Westwood (with larva)	SAT, Saturniinae	A*
c	2025fr	<i>Cirina forda amieti</i> Darge (with larva)	SAT, Saturniinae	new A*
d	2025fr	Death's Head Moth, <i>Acherontia atropos</i> L. (with larva)	SPH, Sphinginae	A*
		MS of 4 (a-d) (with silhouettes of each species in margin)		
		SS of 4 (a-d)		
Margin		UR: <i>Bunaeopsis licharbas</i> Maassen & Weyding (with larva)	SAT, Saturniinae	new Z*
		LR: East African Sunset Moth, <i>Chrysidia croesus</i> Gerstaecker	URA, Uraniinae	Z*
SS 2025fr		Chestnut Emperor, <i>Melanocera menippe</i> Westwood (with larva)	SAT, Saturniinae	A*
Margin		UR: Common Emperor, <i>Bunaea alcinoe</i> Stoll (larva)	SAT, Saturniinae	Z*
		LR: Common Emperor, <i>Bunaea alcinoe</i> Stoll (larva)	SAT, Saturniinae	Z*
		MR: Mocker Swallowtail, <i>Papilio dardanus antinorii</i> Oberthür	PAP, Papilioninae	Z*
SS 2025fr		Mopane Moth, <i>Gonimbrasia belina</i> Westwood (with larva)	SAT, Saturniinae	A*
Margin		UR: Soldier Commodore, <i>Junonia terea</i> Drury	NYM, Nymphalinae	Z*
		LR: <i>Imbrasia anthina</i> Karsch (with larva)	SAT, Saturniinae	new Z*
SS 2025fr		<i>Cirina forda amieti</i> Darge (with larva)	SAT, Saturniinae	A*
Margin		UR: Roseate Emperor, <i>Eochroa trimenii</i> Felder (larva)	SAT, Saturniinae	new Z*
		LR: Roseate Emperor, <i>Eochroa trimenii</i> Felder (moth)	SAT, Saturniinae	Z*
		MR: Light Brown Forester, <i>Bebearia zonara</i> Butler	NYM, Limenitidinae	new Z*
SS 2025fr		Death's Head Moth, <i>Acherontia atropos</i> L. (with larva)	SPH, Sphinginae	A*
Margin		UR: Sweetpotato Hawkmoth, <i>Agrius convolvuli</i> L. (with larva)	SPH, Sphinginae	Z*
		LR: <i>Balacra guillemei</i> Oberthür	ARC, Arctiinae	new Z*
<b>2014 (Butterflies of Burundi II) (MS of 4, SS of 4, &amp; 4ea SS of 1)</b>				
a	3770fr	Lunar Prince, <i>Goodia kuntzei</i> Dewitz (with larva)	SAT, Ludiinae	new A*
b	3770fr	<i>Alpenus maculosa</i> Stoll (with larva)	ARC, Arctiinae	new A*
c	3770fr	African Moon Moth, <i>Argema mimosae</i> Boisduval (with larva)	SAT, Saturniinae	A*
d	3770fr	Cat's Eye Emperor, <i>Aurivillius arata</i> Westwood (with larva)	SAT, Saturniinae	A*
		MS of 4 (a-d) (with silhouettes of each species in margin)		
		SS of 4 (a-d)		
Margin		UR: <i>Amphicallia pactolicus</i> Butler	ARC, Arctiinae	Z*
		MR: <i>Balacra compsa</i> Jordan	ARC, Arctiinae	new Z*
		LR: Injured Footman, <i>Eilema sanguicosta</i> Hampson	ARC, Arctiinae	new Z*
SS 3770fr		Lunar Prince, <i>Goodia kuntzei</i> Dewitz (with larva)	SAT, Ludiinae	A*
Margin		UR: Wahlberg's Emperor, <i>Imbrasia wahlbergi</i> Boisduval (larva)	SAT, Saturniinae	Z*
		LR: Wahlberg's Emperor, <i>Imbrasia wahlbergi</i> Boisduval (moth)	SAT, Saturniinae	Z*
		MR: <i>Pselaphelia aurata</i> Bouyer	SAT, Saturniinae	new Z*
SS 3770fr		<i>Alpenus maculosus</i> Stoll (with larva)	ARC, Arctiinae	A*
Margin		UR: <i>Bebearia sophus</i> Fabr.	NYM, Limenitidinae	Z*
		LR: <i>Imbrasia eblis</i> Strecker (moth & larva)	SAT, Saturniinae	Z*

**BURUNDI** (continued)

	SS 3770fr	African Moon Moth, <i>Argema mimosae</i> Boisduval (with larva)	SAT, Saturniinae	A*
	Margin	UR: Blotched Emperor, <i>Lobobunaea phaedusa</i> Drury (larva)	SAT, Saturniinae	Z*
		LR: Blotched Emperor, <i>Lobobunaea phaedusa</i> Drury (moth)	SAT, Saturniinae	Z*
		MR: Themis Forester, <i>Euphaedra themis</i> Hübner	NYM, Limenitidinae	Z*
	SS 3770fr	Cat's Eye Emperor, <i>Aurivillius arata</i> Westwood (with larva)	SAT, Saturniinae	A*
	Margin	UR: Speckled Emperor, <i>Gynanisa maja</i> Klug (larva)	SAT, Saturniinae	Z*
		LR: Speckled Emperor, <i>Gynanisa maja</i> Klug (moth)	SAT, Saturniinae	Z*
		MR: Golden Piper, <i>Eurytela dryope</i> Cramer	NYM, Biblidinae	Z*
<b>2014 May 19</b> (Butterflies III) (MS of 4, SS of 4, & 4ea SS of 1)				
a	3970fr	Broad Green-banded Sw'tail, <i>Papilio chrapkowskoides</i> Storace (Cap: <i>Papilio bromius</i> )	PAP, Papilioninae	A*
b	3970fr	Snow Apollo, <i>Parnassius apollonius</i> Eversmann	PAP, Papilioninae	A*
c	3970fr	<i>Cymothoe sangaris</i> Godart ♂ & ♀	NYM, Limenitidinae	A*
d	3970fr	Angola White Lady, <i>Graphium angolanus</i> Goeze	PAP, Papilioninae	A*
		MS of 4 (a-d) (with silhouettes of each species in margin)		
		SS of 4 (a-d)		
	Margin	UR: Acraea Swordtail, <i>Graphium ridleyanus</i> White	PAP, Papilioninae	Z*
		LR: Injured Footman, <i>Papilio demodocus</i> Hampson	PAP, Papilioninae	Z*
	SS 3970fr	Broad Green-banded Sw'tail, <i>Papilio chrapkowskoides</i> Storace	PAP, Papilioninae	A*
	Margin	UR: Eastern Blue Beauty, <i>Salamis temora</i> C&R. Felder	NYM, Nymphalinae	Z*
		LR: Western Blue Charaxes, <i>Charaxes smaragdalis</i> Butler	NYM, Charaxinae	Z*
	SS 3970fr	Snow Apollo, <i>Parnassius apollonius</i> Eversmann	PAP, Papilioninae	A*
	Margin	UR: Scarlet Tip, <i>Colotis danae</i> Fabr. ♂	PIE, Pierinae	Z*
		MR: Scarlet Tip, <i>Colotis danae</i> Fabr. ♀	PIE, Pierinae	Z*
		Bot: Silver-studded Blue, <i>Plebejus argus</i> L. ♀	LYC, Polyommatinae	Z*
		LR: Silver-studded Blue, <i>Plebejus argus</i> L. ♂	LYC, Polyommatinae	Z*
	SS 3970fr	<i>Cymothoe sangaris</i> Godart ♂ & ♀	NYM, Limenitidinae	A*
	Margin	UR: Caper White, <i>Belenois aurota aurota</i> Fabr.	PIE, Pierinae	Z*
		MR: Red-edged White, <i>Belenois rubrosignata</i> Weymer	PIE, Pierinae	new Z*
		LR: Calypso White, <i>Belenois calypso</i> Drury	PIE, Pierinae	Z*
	SS 3970fr	Angola White Lady, <i>Graphium angolanus</i> Goeze	PAP, Papilioninae	A*
	Margin	UR: Ornate Green Charaxes, <i>Charaxes subornatus</i> Schultze	NYM, Charaxinae	Z*
		LR: Common Green Charaxes, <i>Charaxes eupale</i> Drury	NYM, Charaxinae	Z*

**CENTRAL AFRICAN REPUBLIC** 2014 May 20 (Butterflies) (Stamperija) (Corrections) Vol. 63(3)

Mi4615	750fr	Old World Swallowtail, <i>Papilio machaon</i> L. (Cap: Parthenos sylvia)	PAP, Papilioninae	A*
Mi4616	750fr	Great Yellow Mormon, <i>Papilio helenus</i> L. (Cap: <i>Papilio lowi</i> )	PAP, Papilioninae	A*
Mi4617	750fr	Common Mapwing, <i>Cyrestis maenalis negros</i> Martin	NYM, Cyrestinae	A*
Mi4618	750fr	Orange Oakleaf, <i>Kallima inachus</i> Boisduval	NYM, Nymphalinae	A*

Each stamp above in deluxe SS of 1 shows following in margins:

Margin	UL: Mocker Swallowtail, <i>Papilio dardanus</i> Brown	PAP, Papilioninae	Z*
	LL: Buckeye, <i>Junonia coenia</i> Hübner	NYM, Nymphalinae	Z*
	UR: Number Eighty, <i>Diaethria candrena</i> Godart	NYM, Biblidinae	new Z*
	LR: Common Map Butterfly, <i>Cyrestis thyodamas</i> Boisduval	NYM, Cyrestinae	Z*
	Bot: Eurasian Comma, <i>Nymphalis c-album</i> L.	NYM, Nymphalinae	Z*

**2014 November 20** (Butterflies) (Stamperija) (MS of 4 & SS of 1)

a	750fr	Blue Morpho, <i>Morpho menelaus</i> L.	NYM, Morphinae	A*
b	750fr	Marbled Fritillary, <i>Brenthis daphne</i> Bergsträsser	NYM, Heliconiinae	A*
c	750fr	Lime Swallowtail, <i>Papilio demoleus</i> L.	PAP, Papilioninae	A*
d	750fr	Eastern Black Swallowtail, <i>Papilio polyxenes</i> Fabr.	PAP, Papilioninae	A*

**CENTRAL AFRICAN REPUBLIC** (continued)

Margin	UL: Cabbage White, <i>Pieris rapae</i> L.	PIE, Pierinae	Z*
SS 2650fr	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A*
Margin	UL: Large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	Z*

**2014 November 20** (Dragonflies) (Stamperija) (MS of 4 & SS of 1)

a	750fr	Green Darner, <i>Anax junius</i> Drury	AES, Aeshninae	A*
b	750fr	Common Whitetail, <i>Plathemis lydia</i> Drury	LIB, Libellulinae	A*
c	750fr	Lesser Emperor, <i>Anax parthenope</i> Selys	AES, Aeshninae	A*
d	750fr	White-faced Meadowhawk, <i>Sympetrum obtrusum</i> Hagen	LIB, Sympetrinae	A*
SS 3000fr		Green Darner, <i>Anax junius</i> Drury	AES, Aeshninae	A*
Margin		LR: Silhouettes of DAMSELFLY & DRAGONFLY		S Z
		UR: DRAGONFLY face (enlarged)		U Z

**2014 December 15** (World's Most Dangerous Viruses) (Stamperija)

4x900fr	UR: <i>Anopheles stephensi</i> Liston	CUL, Anophelinae	
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**CHAD****2012 September 4** (Mushrooms & Insects) (Stamperija) (New data)

d	500fr	<i>Tomatares citrinus</i> Hagen	MYR, Palparinae	B*
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**2014** (Butterflies) (Stamperija)

a	1000fr	Blue Morpho, <i>Morpho menelaus</i> L.	NYM, Morphinae	A*
b	1000fr	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A*
Margin		Portions of 21+ different butterflies		
a	1000fr	Blue Mormon, <i>Papilio polymnestor</i> Cramer	PAP, Papilioninae	A*
b	1000fr	Plain Tiger, <i>Danaus chrysippus</i> L.	NYM, Danainae	A*
c	1000fr	Caledonian Blue Swallowtail, <i>Papilio montouzieri</i> Boisduval	PAP, Papilioninae	A*
d	1000fr	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A*
Margin		Portions of 21+ different butterflies		
a	1000fr	Painted Lady, <i>Vanessa cardui</i> L.	NYM, Nymphalinae	A*
b	1000fr	Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	A*
c	1000fr	Red Admiral, <i>Vanessa atalanta</i> L.	NYM, Nymphalinae	A*
d	1000fr	Small Copper, <i>Lycaena phlaeas</i> L.	LYC, Lycaeninae	A*
Margin		Very stylized BUTTERFLY		S Z
a	1000fr	Brimstone, <i>Gonepteryx rhamni</i> L.	PIE, Coliadinae	A*
b	1000fr	Chalk-Hill Blue, <i>Polyommatus coridon</i> Poda	LYC, Polyommatinae	A*
c	1000fr	Question Mark, <i>Nymphalis interrogationis</i> Fabr.	NYM, Nymphalinae	A*
d	1000fr	Holly Blue, <i>Celastrina argiolus</i> L.	LYC, Polyommatinae	A*
Margin		Very stylized BUTTERFLY		S Z

**CHINA (Taiwan)****2014 September 19** (Blue & White Porcelain)

4195	SS \$25	Stylized INSECT (also in UL margin)		S
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**CYPRUS****2014 March 12** (Four Seasons) (Set of 4)

1202	43c	Girl wearing costume resembling <i>Idea</i> sp.	NYM, Danainae	S
	€1	Girl wearing costume resembling <i>Idea</i> sp. (Sc#1202 surch)	NYM, Danainae	S

**DOMINICAN REPUBLIC****1994 March 15** (WWF) (New listing) (Block of 4)

1158d	\$1	Insect in solenodon's mouth		U C
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**2014** (Butterflies of Hispaniola) (MS of 12)

a	\$25	Florida Leafwing, <i>Anaea troglodyta</i> Fabr.	NYM, Charaxinae	A*
b	\$25	Godart's Peacock, <i>Anartia lytrea</i> Godart	NYM, Nymphalinae	A*
c	\$25	Stillman's Skipper, <i>Burca stillmanni</i> Bell & Comstock	HES, Pyrginae	new A*
d	\$25	Hispaniolan Skipper, <i>Burca hispaniolae</i> Bell & Comstock	HES, Pyrginae	new A*
e	\$25	Hispaniolan Bluewing, <i>Myscelia aracynthia</i> Dalman	NYM, Biblidinae	new A*



**DOMINICAN REPUBLIC** (continued)

f	\$25	<i>Archimestra teleboas</i> Ménétries	NYM, Biblidinae	new A*
g	\$25	Hispaniolan Checkerspot, <i>Atlantea cryptadia</i> Sommer & Schwartz (Cap: <i>Atlantea cryptadia</i> )	NYM, Nymphalinae	new A*
h	\$25	Antillean Clearwing, <i>Greta diaphanus quisqueya</i> Fox	NYM, Danainae	new A*
i	\$25	Machaonides Swallowtail, <i>Papilio machaonides</i> Esper (Cap: <i>Heraclides machaonides</i> )	PAP, Papilioninae	A*
j	\$25	Haitian Skipper, <i>Choranthus haitensis</i> Skinner	HES, Hesperinae	new A*
k	\$25	Hispaniolan Leafwing, <i>Memphis verticordia</i> Hübner	NYM, Charaxinae	A*
l	\$25	Fiery Sulfur, <i>Eurema pyro</i> Godart (Cap: <i>Pyrisitia pyro</i> )	PIE, Coliadinae	A*

**GAMBIA****2014 July 1** (Ladybirds II) (MS of 4 & SS of 2)

3582a	50d	7-Spotted Ladybird, <i>Coccinella septempunctata</i> L. (green leaf)	COC, Coccinellinae	A*
3582b	50d	7-Spotted Ladybird, <i>Coccinella septempunctata</i> L. (yellow leaf)	COC, Coccinellinae	A*
3582c	50d	Asian Ladybird, <i>Harmonia axyridis</i> Pallas (orange & black)	COC, Epilachninae	A*
3582d	50d	7-Spotted Ladybird, <i>Coccinella septempunctata</i> L. (dk grn leaf)	COC, Coccinellinae	A*
	Margin	Bot: 7-Spotted Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	Z*
3583a	75d	10-Spotted Ladybird, <i>Adalia decempunctata</i> L.	COC, Coccinellinae	A*
3583b	75d	Spotless Ladybird, <i>Cycloneda polita</i> Casey	COC, Coccinellinae	A*
	Margin	Bot: 7-Spotted Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	Z*

**2014 October 20** (Butterflies II) (MS of 4 & SS of 1)

a	50d	Christmas Butterfly, <i>Papilio demodocus</i> Esper	PAP, Papilioninae	A*
b	50d	Angola White Lady, <i>Graphium angolanus</i> Goeze	PAP, Papilioninae	A*
c	50d	Plain Tiger, <i>Danaus chrysippus</i> L.	NYM, Danainae	A*
d	50d	Mocker Swallowtail, <i>Papilio dardanus</i> Brown	PAP, Papilioninae	A*
	SS 150d	Giant Blue Swallowtail, <i>Papilio zalmoxis</i> Hewitson	PAP, Papilioninae	A*

**GHANA****2014** (African Frogs) (2ea MS of 5 & one SS of 2)

	5×2.50ce	Stylized DRAGONFLY in ML margin (MS I)	Odonata	S Z
	5×2.50ce	Stylized DRAGONFLY in ML margin (MS II)	Odonata	S Z
	Margin	UL: Stylized BUTTERFLY (like <i>D. chrysippus</i> L.)	NYM, Danainae	S Z
	2×4.50ce	Stylized DRAGONFLY in LL margin (MS II)	Odonata	S Z
	Margin	UL: Stylized BUTTERFLY (like <i>D. chrysippus</i> L.)	NYM, Danainae	S Z

**GRENADA****2014 November 3** (Monarch Butterflies) (2ea MS of 3 & 2ea SS of 2)

a	\$3.50	Viceroy, <i>Limnitis archippus</i> Cramer (Cap: <i>Danaus plexippus</i> )	NYM, Limenitidinae	A*
b	\$3.50	Monarch, <i>Danaus plexippus</i> L. (on orange flower)	NYM, Danainae	A*
c	\$3.50	Monarch, <i>Danaus plexippus</i> L. (on blue flower) MS of 3 (a–c) (pink background)	NYM, Danainae	A*
	Margin	Top: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	Z*
a	\$5	Monarch, <i>Danaus plexippus</i> L. (on flower facing left)	NYM, Danainae	A*
b	\$5	Monarch, <i>Danaus plexippus</i> L. (on flower facing right) SS of 2 (a–b) (rose background)	NYM, Danainae	A*
a	\$3.50	Monarch, <i>Danaus plexippus</i> L. (with pink flower)	NYM, Danainae	A*
b	\$3.50	Monarch, <i>Danaus plexippus</i> L. (with orange flower)	NYM, Danainae	A*
c	\$3.50	Monarch, <i>Danaus plexippus</i> L. (on purple flower) MS of 3 (a–c) (blue background)	NYM, Danainae	A*
	Margin	Top: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	Z*
a	\$5	Monarch, <i>Danaus plexippus</i> L. (on flower facing left)	NYM, Danainae	A*
b	\$5	Monarch, <i>Danaus plexippus</i> L. (on flower facing right) SS of 2 (a–b) (pink background)	NYM, Danainae	A*

**GUINEA****2014 October 1** (Butterflies) (Stamperija) (MS of 4 & SS of 1)

a	10000fr	Apollo, <i>Parnassius apollo</i> L.	PAP, Parnassiinae	A*
b	10000fr	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A*
c	15000fr	Scarlet Mormon, <i>Papilio deiphobus rumanzovia</i> Eschscholtz	PAP, Papilioninae	A*
d	15000fr	Common Morpho, <i>Morpho helenor peleides</i> Kollar	NYM, Morphinae	A*
	Margin	UL: Stylized BUTTERFLY silhouette		S Z
SS	40000fr	Painted Jezebel, <i>Delias hyparete</i> L.	PIE, Pierinae	
	Margin	UL: Stylized BUTTERFLY silhouette		S Z
		LL: Red-Spotted Purple, <i>Limenitis arthemis astyanax</i> Fabr.	NYM, Limenitidinae	Z*
		Bot: Blue Monarch, <i>Tirumala limniace</i> Cramer	NYM, Danainae	Z*
		Bot: Cairns Birdwing, <i>Troides priamus euphorion</i> Gray	PAP, Papilioninae	Z*
		LR: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z*

**2014 October 1** (Bees) (Stamperija) (MS of 4 & SS of 1)

a	10000fr	Bumblebee, <i>Bombus terrestris</i> L.	API, Apinae	A*
b	10000fr	Western Honeybee, <i>Apis mellifera</i> L. (five bees on comb)	API, Apinae	A*
c	15000fr	Western Honeybee, <i>Apis mellifera</i> L. (one bee on comb)	API, Apinae	A*
d	15000fr	Western Honeybee, <i>Apis mellifera</i> L. (bee on flower)	API, Apinae	A*
	Margin	UL: Stylized BEE silhouette with honeypot		S Z
SS	40000fr	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A*
	Margin	LL & Bot: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	Z*
		LR: Bumblebee, <i>Bombus terrestris</i> L.	API, Apinae	Z*

**2014 October 20** (Stamperija) (MS of 4 & SS of 1)

a	10000fr	Chocolate Albatross, <i>Appias lyncida eleonora</i> Boisduval	PIE, Pierinae	new A*
b	10000fr	7-Spotted Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	A*
c	15000fr	Six-spot Burnet Moth, <i>Zygaena filipendulae</i> L.	ZYG, Zygaeninae	A*
d	15000fr	Chinese Lanternfly, <i>Pyrops candelaria</i> L.	FUL, Fulgorinae	A*
	Margin	UL: Stylized DRAGONFLY silhouette		S Z
SS	40000fr	Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	A*
	Margin	Top: Stylized DRAGONFLY silhouette		S Z
		LL: Orange Oakleaf, <i>Kallima inachus</i> Boisduval	NYM, Nymphalinae	Z*
		Bot: Scarlet Dragonfly, <i>Crocothemis erythraea</i> Brullé	LIB, Sympetrinae	Z*
		Bot: Chinese Mantis, <i>Tenodera sinensis</i> Saussure	MAN, Mantinae	Z*
		LR: Great Southern White, <i>Ascia monuste</i> L.	PIE, Pierinae	Z*

**GUINEA-BISSAU****2014 May 15** (New Data) (Stamperija) (MS of 4 & SS of 1)

a	850fr	Cairns Birdwing, <i>Troides priamus euphorion</i> Gray	PAP, Papilioninae	A*
b	850fr	Eastern Black Swallowtail, <i>Papilio polyxenes</i> Fabr.	PAP, Papilioninae	A*
c	850fr	Cydney Longwing, <i>Heliconius cydno</i> Doubleday	NYM, Heliconiinae	A*
d	850fr	Zebra, <i>Heliconius charithonia</i> L.	NYM, Heliconiinae	A*
SS	2800fr	Painted Jezebel, <i>Delias hyparete</i> L.	PIE, Pierinae	A*
	Margin	LR: Postman, <i>Heliconius melpomene</i> L.	NYM, Heliconiinae	Z*

**2014 October 20** (Carnivorous Plants) (Stamperija) (Revised) Vol. 63(4)

SS	2400fr	Black Garden Ant, <i>Lasius niger</i> L.	FOR, Formicinae	B
	Margin	LL: CRANEFLY in Venus Fly Trap	Tipulidae	U Z
		Top: House Fly, <i>Musca domestica</i> L.	MUS, Muscinae	Z
		UR: House Fly, <i>Musca domestica</i> L. in Venus Fly Trap	MUS, Muscinae	Z

<b>GUINEA-BISSAU</b> (continued)		<b>2014 December 12</b> (Butterflies) (Stamperija) (MS of 4 & SS of 1)	
a	800fr	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae A*
b	800fr	Black-Veined White, <i>Aporia crataegi</i> L.	PIE, Pierinae A*
c	800fr	Purple-Spotted Swallowtail, <i>Graphium weiskei</i> Ribbe	PAP, Papilioninae A*
d	800fr	Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae A*
	SS 2400fr	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae A*
	Margin	ML: Hydaspe Fritillary, <i>Speyeria hydaspe</i> Boisduval	NYM, Heliconiinae <b>new</b> Z*
		UR: Clouded Yellow, <i>Colias croceus</i> L.	PIE, Coliadinae Z*
<b>GUYANA</b>		<b>2014 July 1</b> (Monarch Butterflies I) (MS of 4 & SS of 2)	
a	\$200	Monarch, <i>Danaus plexippus</i> L. (green background)	NYM, Danainae A*
b	\$200	Monarch, <i>Danaus plexippus</i> L. (with yellow flower)	NYM, Danainae A*
c	\$200	Monarch, <i>Danaus plexippus</i> L. (with red flower)	NYM, Danainae A*
d	\$200	Monarch, <i>Danaus plexippus</i> L. (with lavender flower)	NYM, Danainae A*
	Margin	Same (parts of ten butterflies)	NYM, Danainae Z
a	\$400	Monarch, <i>Danaus plexippus</i> L. (with pink flower)	NYM, Danainae A*
b	\$400	Monarch, <i>Danaus plexippus</i> L. (with orange flower)	NYM, Danainae A*
	Margin	Same (enlarged)	NYM, Danainae Z*
		<b>2014</b> (Monarch Butterflies II) (MS of 4 & SS of 2)	
a	\$200	Monarch, <i>Danaus plexippus</i> L. (larva)	NYM, Danainae A*
b	\$200	Monarch, <i>Danaus plexippus</i> L. (chrysalis)	NYM, Danainae A*
c	\$200	Monarch, <i>Danaus plexippus</i> L. (emerging adult)	NYM, Danainae A*
d	\$200	Monarch, <i>Danaus plexippus</i> L. (adult)	NYM, Danainae A*
	Margin	Same (enlarged)	NYM, Danainae Z*
a	\$400	Monarch, <i>Danaus plexippus</i> L. (on top of many butterflies)	NYM, Danainae A*
b	\$400	Monarch, <i>Danaus plexippus</i> L. (two butterflies)	NYM, Danainae A*
	Margin	Same (many butterflies roosting)	NYM, Danainae Z
<b>HONG KONG</b>		<b>2014 January 11</b> (Year of the Horse)	
1618	SS \$50	Printed on Italian SILK from Silkworm, <i>Bombyx mori</i> L.	Bombycidae R
<b>INDONESIA</b>		<b>2014 May 27</b> (Four Nations Stamp Show, Bandung, Indonesia) (SS of 4)	
	Margin	Very stylized BUTTERFLY	Lepidoptera S Z
<b>MACEDONIA</b>		<b>2013 October 16</b> (Mushrooms & Insects) (MS of 4)	
639a	10d	UL: Apollo, <i>Parnassius apollo</i> L.	PAP, Papilioninae B*
		LL: 7-Spotted ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae B*
639b	20d	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae B*
639c	50d	U/I INSECT	U
639d	100d	U/I INSECT	U
<b>MADAGASCAR</b>		<b>2014</b> (Rare Butterflies) (Stamperija) (MS of 4 & SS of 1)	
a	2000m	Clouded Apollo, <i>Parnassius mnemosyne</i> L.	PAP, Parnassiinae A*
b	2000m	Queen Alexandra's Birdwing, <i>Troides alexandrae</i> Rothschild	PAP, Papilioninae A*
c	2000m	Lange's Metalmark, <i>Apodemia mormo langei</i> Comstock	RIO, Riordininae A*
d	2000m	Schrenck's Emperor, <i>Mimathyma schrenckii</i> Ménétries (Cap: <i>Apatura schrenckii</i> )	NYM, Apaturinae <b>new</b> A*
	SS 9000m	European Owl Moth, <i>Acanthobrahmaea europaea</i> Hartig (Cap: <i>Brahmaea europaea</i> )	BRA, Brahmaeinae A*
	Margin	Silhouettes of 18 U/I BUTTERFLIES	Lepidoptera U Z

**MADAGASCAR** (continued)**2014** (Flowers & Butterflies) (Stamperija) (6ea SS of 1)

Six heart-shaped SS that show additional images of the depicted species in the margins.

SS 9000m	Zebra Swallowtail, <i>Protesilaus protesilaus</i> L. (Cap: <i>Eurytides protesilaus</i> )	PAP, Papilioninae	A*
SS 9000m	Emperor of India, <i>Teinopalpus imperialis</i> Hope	PAP, Papilioninae	A*
SS 9000m	Crimson Rose, <i>Atrophaneura hector</i> L. (Cap: <i>Pachliopta hector</i> )	PAP, Papilioninae	A*
SS 9000m	Little Callicore, <i>Callicore hydaspes</i> Drury	NYM, Biblidinae	A*
SS 9000m	Clipper, <i>Parthenos sylvia</i> Cramer	NYM, Limenitidinae	A*
SS 9000m	Malachite, <i>Siproeta stelenes</i> L.	NYM, Nymphalinae	A*

**MALDIVIVE ISLANDS****2014 December 15** (Water Birds & Insects) (Stamperija)

a	20r	Common Jezebel, <i>Delias eucharis</i> Drury	PIE, Pierinae	B*
b	20r	<i>Enallagma maldivensis</i> Laidlaw	COE, Ischnurinae	B*
c	20r	Yellow Crazy Ant, <i>Anoplolepis gracilipes</i> F.Smith	FOR, Formicinae	B*
d	20r	Leafroller Moth, <i>Glyphodes bivitalis</i> Guenée	CRAM, Pyraustinae	new B*
	SS 60r	Oil Palm Slug Caterpillar, <i>Darna furva</i> Wileman	Limacodidae	new B*
	Margin	LL: Lesser Purple Emperor, <i>Apatura ilia</i> L. ML: Monarch, <i>Danaus plexippus</i> L.	NYM, Apaturinae NYM, Danainae	Z* Z*

**MICRONESIA****2014 October 20** (Corrections) Vol. 63(4)

b	\$1	Blue Morpho, <i>Morpho helenor peleides</i> Kollar	NYM, Morphinae	A*
e	\$1	Goliath Birdwing, <i>Troides goliath</i> Oberthür	PAP, Papilioninae	A*

**2014** (Butterflies II) (MS of 6 & SS of 1)

a	\$1	Emerald Swallowtail, <i>Papilio palinurus</i> Fabr.	PAP, Papilioninae	A*
b	\$1	Gold Rim Swallowtail, <i>Battus polydamas</i> L.	PAP, Papilioninae	A*
c	\$1	Scalloped Grass yellow, <i>Eurema alitha</i> C&R Felder	PIE, Coliadinae	new A*
d	\$1	Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	A*
e	\$1	Blue Mountain Swallowtail, <i>Papilio ulysses</i> L.	PAP, Papilioninae	A*
f	\$1	Orange Tip, <i>Anthocharis cardamines</i> L.	PIE, Pierinae	A*
	SS \$3.50	Postman, <i>Heliconius melpomene</i> L.	NYM, Heliconiinae	A*

**MOZAMBIQUE****2014 August 20** (Bee-eaters) (Stamperija) (MS of 4 & SS of 1)

a	46m	BEE in bird's beak	Hymenoptera	C
	SS 175m	Bird chasing BEE (also in UR margin)	Hymenoptera	C

**2014 August 20** (Stamperija) (MS of 4 & SS of 1)

a	46m	Cairns Birdwing, <i>Troides priamus euphorion</i> Gray	PAP, Papilioninae	A*
b	46m	Large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	A*
c	46m	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A*
d	46m	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A*
	Margin	Christmas Butterfly, <i>Papilio demodocus</i> Esper	PAP, Papilioninae	Z*
	SS 175m	Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	A*
	Margin	MR: Old World Swallowtail, <i>Papilio machaon</i> L. Top: Common Blue, <i>Polyommatus icarus</i> Rottentburg LR: Monarch, <i>Danaus plexippus</i> L.	PAP, Papilioninae LYC, Polyommatinae NYM, Danainae	Z* Z* Z*

**2014 August 20** (Anti-Malaria) (Stamperija) (MS of 4 & SS of 1)

a	46m	<i>Anopheles stephensi</i> Liston (feeding)	CUL, Anophelinae	A*
c	46m	<i>Anopheles</i> sp. (pupa) (also stylized in barred-circle sign)	CUL, Anophelinae	A*
d	46m	Stylized MOSQUITO (in barred-circle sign)	CUL, Anophelinae	S
	SS 175m	Stylized MOSQUITO (in barred-circle sign)	CUL, Anophelinae	S
	Margin	Top: <i>Anopheles</i> sp. (pupae) MR: <i>Anopheles stephensi</i> Liston (feeding)	CUL, Anophelinae CUL, Anophelinae	Z* Z*

**NAMIBIA****2015 February 6** (Namib Sand Sea World Heritage Site) (Jose Reis)

MS of three non-denominated (postcard rate). This is a new-to-stamps Family in Orthoptera, Suborder Ensifera, Superfamily Schizodactyloidea, usually placed between the weta and the cave cricket Superfamilies.

b nd Dune Cricket, *Comicus* sp. Schizodactylidae, Comicinae A\***NEPAL****2014** (Moths of Nepal) (3ea MS of 4)

a 10r Owl Moth, *Brahmaea wallichii* Gray BRA, Brahmaeinae A\*

b 10r *Campylotes histrionicus* Westwood (mimics *Danaus genutia*) ZYG, Chalcosiinae new A\*

c 10r *Thyas junco* Dalman (Cap: *Dermaleipa* [Lagoptera]) NOC, Catocalinae A\*

d, 10r *Episteme adulatrix* Kollar NOC, Agaristinae new A\*

a 10r Death's Head Moth, Bee Robber, *Acherontia lachesis* Fabr. SPH, Sphinginae new A\*

b 10r *Asota producta* Butler NOC, Aganainae new A\*

c 10r *Argina argus* Kollar ARC, Arctiinae new A\*

d, 10r *Biston contectaria* Walker GEO, Ennominae new A\*

a 10r *Erasmia pulchella* Hope ZYG, Chalcosiinae A\*

b 10r Red Slug Caterpillar, *Eterusia aedea edocla* Doubleday ZYG, Chalcosiinae new A\*

c 10r *Eudocima salamina* Cramer NOC, Calpinae A\*

d, 10r *Gynautocera papilionaria* Guérin-Méneville ZYG, Chalcosiinae A\*

**NIGER****2014 October 13** (Bees) (Stamperija) (MS of 4 & SS of 1)

a 750fr Western Honeybee, *Apis mellifera* L. API, Apinae A\*

b 750fr Tawny Mining Bee, *Andrena fulva* Mueller AND, Andreninae A\*

c 750fr *Andrena accepta* Viereck AND, Andreninae A\*

d 750fr European Wool-Carder Bee, *Anthidium manicatum* L. MEGA, Megachilinae A\*

SS 2500fr *Anthidium florentinum* Fabr. MEGA, Megachilinae A\*

Margin UR: Western Honeybee, *Apis mellifera* L. (with box hive) API, Apinae C Z

Bot: European Wool-Carder Bee, *Anthidium manicatum* L. MEGA, Megachilinae Z\*

**2014 November 30** (Stamperija) (MS of 4 & SS of 1)

a 750fr Spotted Fritillary, *Melitaea didyma* Esper NYM, Nymphalinae A\*

b 750fr Golden Birdwing, *Troides aeacus* C&R Felder PAP, Papilioninae A\*

c 750fr Brimstone, *Gonepteryx rhamni* L. PIE, Coliadinae A\*

d 750fr Glasswing, *Greta morgane oto* Hewitson NYM, Danainae A\*

Margin UR: Chapman's Blue, *Polyommatus thersites* Cantener LYC, Polyommatinae new Z\*

SS 2500fr Small White, *Pieris rapae* L. PIE, Pierinae A\*

Margin Top: Small Tortoiseshell, *Nymphalis urticae* L. NYM, Nymphalinae Z\*

**2014 November 30** (Fight Against Malaria) (Stamperija)(MS of 4 & SS)

b 750fr *Anopheles gambiae* Giles CUL, Anophelinae A\*

Margin Top: Stylized MOSQUITO silhouette S

SS 2500fr Margin: *Anopheles* sp. (enlarged) CUL, Anophelinae U Z\*

**POLAND****2014 July 31** (Birds)

SS 5.50z Margin: Bird with DRAGONFLY in beak Odonata U Z

**ST. LUCIA****2014** (Dragonflies) (Set of 8)

5c Antillean Skimmer, *Orthetrum macrostigma* Longfield LIB, Libellulinae A\*

20c Spot-tail Dasher, *Micrathyria aequalis* Hagen LIB, Brachydiplacinae A\*

30c Vermilion Saddlebags, *Tramea abdominalis* Rambur LIB, Trameinae A\*

50c Tawny Pennant, *Brachymesia herbida* Gundlach LIB, Libellulinae A\*

75c Great Pondhawk, *Erythemis vesiculosa* Fabr. LIB, Sympetrinae A\*

\$1 Band-winged Dragonlet, *Erythrodiplax umbrata* L. LIB, Sympetrinae A\*

\$1.50 Wandering Glider, *Pantala flavescens* Fabr. LIB, Trameinae A\*

\$2 Rambur's Forktail, *Ischnura ramburii* Selys COE, Ischnurinae A\*

**ST MARTIN****2014 (Butterflies) (Block of 12)**

10c	Southern Dogface, <i>Zerene cesonia</i> Stoll	PIE, Coliadinae	A*
20c	Baltimore Checkerspot, <i>Euphydryas phaeton</i> Drury (Cap: <i>Historis acheronta</i> )	NYM, Nymphalinae	A*
50c	Tailed Cecropian, <i>Historis acheronta</i> Fabr.	NYM, Nymphalinae	A*
70c	Queen of Spain Fritillary, <i>Issoria lathonia</i> L.	NYM, Heliconiinae	A*
90c	Many-Banded Daggerwing, <i>Marpesia chiron</i> Fabr.	NYM, Cyrestinae	A*
100c	Paradise Birdwing, <i>Troides paradisea</i> Staudinger	PAP, Papilioninae	A*
150c	Anise Swallowtail, <i>Papilio zelicaon</i> Lucas	PAP, Papilioninae	A*
210c	Question Mark, <i>Nymphalis interrogationis</i> Fabr.	NYM, Nymphalinae	A*
300c	Blue Pansy, <i>Junonia orithya</i> L.	NYM, Nymphalinae	A*
350c	Diana Fritillary, <i>Speyeria diana</i> Cramer	NYM, Heliconiinae	A*
400c	Regal Fritillary, <i>Speyeria idalia</i> Drury	NYM, Heliconiinae	A*
650c	Golden Birdwing, <i>Troides aeacus</i> C&R Felder	PAP, Papilioninae	A*

**ST. THOMAS & PRINCE ISLANDS 2014 September 15 (Bee-eaters) (Stamperija) (MS of 4)**

c	25000d	DRAGONFLY (in bird's beak)	Odonata	C
d	25000d	Bumblebee, <i>Bombus</i> sp. (in bird's beak)	API, Apinae	C
	Margin	Top: Five birds on a branch with various insects in their beak L to R: GRASSHOPPER, WASP, GRASSHOPPER, DRAGONFLY, & DRAGONFLY		C Z

**2014 November 17 (Butterflies) (Stamperija) (MS of 4 & SS of 1)**

a	25000d	<i>Troides priamus urvilleanus</i> Guérin-Ménéville ♂ (v.)	PAP, Papilioninae	A*
b	25000d	<i>Stichophthalma lousia</i> Wood-Mason (v.)	NYM, Morphinae	A*
c	25000d	Croesus Birdwing, <i>Troides croesus</i> Wallace	PAP, Papilioninae	A*
d	25000d	Kaiser-I-Hind, <i>Teinopalpus imperialis</i> Hope	PAP, Papilioninae	A*
	Margin	bkgd shape: <i>Stichophthalma lousia</i> Wood-Mason	NYM, Morphinae	Z*
	SS 96000d	White Witch, <i>Thysania agrippina</i> Cramer (v.)	NOC, Calpinae	A*
	Margin	bkgd shape: <i>Stichophthalma lousia</i> Wood-Mason (v.)	NYM, Morphinae	Z*

**ST. VINCENT****2014 June 23 (Sunflowers) (MS of 4 & SS of 1)**

d	\$3.25	Western Honeybee, <i>Apis mellifera</i> L. (on sunflower)	API, Apinae	B*
	SS \$10	Western Honeybee, <i>Apis mellifera</i> L. (on sunflower)	API, Apinae	B*

**SINGAPORE****2014 October 31**

	\$1.30	Atlas Moth, <i>Attacus atlas</i> L.	SAT, Saturniinae	B*
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**SLOVAKIA****2014 June 6 (Medicinal Plants)**

692	(45c)	7-Spotted Ladybird, <i>Coccinella septempunctata</i> L. (on flower)	COC, Coccinellinae	B*
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**SOLOMON ISLANDS****2014 August 25 (New Data) (Stamperija) (MS of 4 & SS of 1)**

a	\$7	Holly Blue, <i>Celastrina argiolus</i> L.	LYC, Polyommatae	A*
b	\$7	Green Hairstreak, <i>Callophrys rubi</i> L.	LYC, Theclinae	A*
c	\$7	Scarlet Tiger Moth, <i>Callimorpha dominula</i> L.	ARC, Arctiinae	A*
d	\$7	Apollo, <i>Parnassius apollo</i> L.	PAP, Parnassiinae	A*
	Margin	U/I BUTTERFLY	LYC, Polyommatae	U Z
	SS \$35	Lime or Checkered Swallowtail, <i>Papilio demoleus</i> L.	PAP, Papilioninae	A*
	Margin	UL: Apollo, <i>Parnassius apollo</i> L.	PAP, Parnassiinae	Z*
		LL: Malachite, <i>Siproeta stelenes</i> L.	NYM, Nymphalinae	Z*
		R: Lime or Checkered Swallowtail, <i>Papilio demoleus</i> L.	PAP, Papilioninae	Z*

**2014 March 3 (World Malaria Day I) (Stamperija) (MS of 4 & SS of 1)**

c	\$7	<i>Anopheles stephensi</i> Liston	CUL, Anophelinae	A*
	SS \$35	Margin: <i>Anopheles stephensi</i> Liston	CUL, Anophelinae	Z*

**SOLOMON ISLANDS** (continued) **2014 November 20** (Fighting Malaria) (Stamperija) (MS of 4 & SS of 1)

d	\$7	<i>Anopheles stephensi</i> Liston	CUL, Anophelinae	A*
	SS \$35	<i>Anopheles stephensi</i> Liston	CUL, Anophelinae	C

**2014 November 28** (Butterflies) (Stamperija) (MS of 4 & SS of 1)

a	\$7	Sapho Longwing, <i>Heliconius sapho</i> Drury (Cap: <i>H. melpomene</i> )	NYM, Heliconiinae	A*
b	\$7	Southern Dogface, <i>Zerene cesonia</i> Stoll (Cap: <i>Colias cesonia</i> )	PIE, Coliadinae	A*
c	\$7	Viceroy, <i>Limnitis archippus</i> Cramer	NYM, Limenitidinae	A*
d	\$7	Jersey Tiger Moth, <i>Euplagia quadripunctaria</i> Poda (Cap: <i>Arctia caja</i> )	ARC, Arctiinae	A*
Margin	ML & LL:	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	Z*
SS \$35		Blue Morpho, <i>Morpho menelaus</i> L.	NYM, Morphinae	A*
Margin	L:	Saturn, <i>Zeuxidia amethystus</i> Butler	NYM, Morphinae	Z*

**SURINAM****2015 January 14** (Butterflies) (From Jose Reis) (Block of 12+4 labels)

a	\$2.25	Claudia's Beauty, <i>Agrias claudina sardanapalus</i> Bates	NYM, Charaxinae	A*
b	\$2.75	Cloudless Sulfur, <i>Phoebis sennae</i> L.	PIE, Coliadinae	A*
c	\$3.25	Common Emerald Moth, <i>Hemitea aestivaria</i> Hübner	GEO, Geometrinae	new A*
d	\$3.75	Purple-Edged Copper, <i>Lycaena hippothoe</i> L. (Cap: <i>Palaeochrysophanus</i> )	LYC, Lycaeninae	A*
e	\$4.25	European Brown Hairstreak, <i>Thecla betulae</i> L.	LYC, Theclinae	A*
f	\$4.75	Polyphemus Moth, <i>Antheraea polyphemus</i> Cramer	SAT, Saturniinae	A*
g	\$5.25	Large Emerald Moth, <i>Geometra papilionaria</i> L.	GEO, Geometrinae	A*
h	\$5.75	Lorquin's Admiral, <i>Limnitis lorquini</i> Boisduval	NYM, Limenitidinae	new A*
i	\$6.25	Imperial Moth, <i>Eacles imperialis</i> Drury	SAT, Ceratocampinae	A*
j	\$6.75	Thor's Fritillary, <i>Clossiana thore</i> Hübner (Cap: <i>Boloria thore</i> )	NYM, Heliconiinae	new A*
k	\$7.25	Leprieuri's Glory, <i>Asterope leprieuri</i> Feisthamel (Cap: <i>Callithea leprieuri</i> )	NYM, Biblidinae	A*
l	\$7.75	Io Moth, <i>Automeris io</i> Fabr.	SAT, Hemileucinae	A*
Labels	L:	Large Emerald Moth, <i>Geometra papilionaria</i> L.	GEO, Geometrinae	Z*
	ML:	Polyphemus Moth, <i>Antheraea polyphemus</i> Cramer	SAT, Saturniinae	Z*
	MR:	Claudia's Beauty, <i>Agrias claudina sardanapalus</i> Bates	NYM, Charaxinae	Z*
	R:	Thor's Fritillary, <i>Clossiana thore</i> Hübner	NYM, Heliconiinae	Z*

**TOGO****2014 December 30** (Stamperija) (MS of 4 & SS of 1)

a	750fr	Leopard Lacewing, <i>Cethosia cyane</i> Drury	NYM, Heliconiinae	A*
b	750fr	Large Striped Swordtail, <i>Graphium antheus</i> Cramer	PAP, Papilioninae	A*
c	750fr	Large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	A*
d	750fr	Malachite, <i>Siproeta stelenes</i> L.	NYM, Nymphalinae	A*
Margin	LL:	Scarlet Mormon, <i>Papilio deiphobus rumanzovia</i> Eschscholtz	PAP, Papilioninae	Z*
	UR:	Two very stylized BUTTERFLIES		S Z
SS 2500fr		Glasswing, <i>Greta morgane oto</i> Hewitson	NYM, Danainae	A*
Margin	LL:	Blue Tiger, <i>Tirumala limniace</i> Cramer (larva)	NYM, Danainae	Z*
	UR:	Two very stylized BUTTERFLIES		S Z
	LR:	Blue Tiger, <i>Tirumala limniace</i> Cramer	NYM, Danainae	Z*

**TUNISIA****2014 December 19** (Butterflies of Tunisia) (Set of 4 & SS of 4)

a	250m	Southern Gatekeeper, <i>Pyronia cecilia</i> Vallantin	NYM, Satyrinae	A*
b	250m	Sooty Orange Tip, <i>Zegris eupheme</i> Esper	PIE, Pierinae	A*
c	600m	Large White, <i>Pieris brassicae</i> L.	PIE, Pierinae	A*
d	250m	Orange Tip, <i>Anthocharis cardamines</i> L. (Cap: <i>Spialia sertorius</i> )	PIE, Pierinae	A*

**UGANDA****2013 November 25** (Stamperija) (New data) (s-o-s)

a	2500sh	Tailed Jay, <i>Graphium agamemnon</i> L. (Vietnam Sc#1310)	PAP, Papilioninae	A*
b	2500sh	<i>Aporia hippia</i> Bremer (Laos Sc#692)	PIE, Pierinae	A*
c	2500sh	Marbled White, <i>Melanargia galathea</i> L. (Hungary Sc#2314)	NYM, Satyrinae	A*
d	2500sh	<i>Papilio maackii</i> Ménétries (Nicaragua #1570)	PAP, Papilioninae	A*
	SS 7500sh	Chestnut Tiger, <i>Parantica sita</i> Kollar (Cambodia Sc#772)	NYM, Danainae	A*
	Margin	UL: Tiger Longwing, <i>Heliconius hecale zuleika</i> Hewitson (Image taken from Aruba Sc#372a)	NYM, Heliconiinae	Z*
		Top: Scarce Bamboo Page, <i>Philaethria dido</i> L. (Image taken from Cuba Sc#3102)	NYM, Nymphalinae	Z*
		UR: <i>Colias heos</i> Herbst (Image taken from N. Korea Sc#1602)	PIE, Coliadinae	Z*
		MR: Swallowtail, <i>Papilio machaon</i> L. (Gabon Sc#605)	PAP, Papilioninae	Z*
		MR: Monarch, <i>Danaus plexippus</i> L. (Aruba Sc#372c)	NYM, Danainae	Z*
		MR: Clouded Yellow, <i>Colias croceus</i> Fourcroy (DDR Sc#686)	PIE, Coliadinae	Z*
		LR: Blue Emperor, <i>Papilio ulysseus autolyucus</i> C&R Felder (Papua New Guinea Sc#209)	PAP, Papilioninae	Z*

**ZAMBIA****2014 May 2** (Surcharges)

1.50k	Dragonfly in bird's beak (Sc#1030 surch)	Odonata	C
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**Mystery Solved**

Jose Reis has solved the mystery of the DMR stamps. They are from Abkhazia.

**GEORGIA-ABKHAZIA****2014 August 24** (Mi#526–31 & B62)

a	K(inland)	Jersey Tiger Moth, <i>Euplagia quadripunctaria</i> Poda	ARC, Arctiinae	A*
b	K(inland)	Emperor Moth, <i>Saturnia pavonia</i> L.	SAT, Saturniinae	A*
c	K(inland)	Eastern Dappled White, <i>Euchloe ausonia</i> Hübner	PIE, Pierinae	A*
d	K(inland)	Oak Hawkmoth, <i>Marumba quercus</i> Denis & Schiffermüller	SPH, Smerinthinae	A*
	E(inland)	Nogel's Hairstreak, <i>Tomares nogelii</i> Herrich-Schaeffer	LYC, Theclinae	A*
	C(inland)	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	A*

**ASCESION ISLAND INSECTS***Amalopteryx maritima*

On 2 January 2015, French Southern & Antarctic Territory issued a set of two stamps depicting insects found on the Crozet. They were printed using gravure by Philaposte.

The 66c value shows *Amalopteryx maritima* Eaton (Ephydriidae), a species of shore fly found in the Antarctic/subantarctic or Southern Ocean. They can jump, but not fly. They live on bird droppings.

The €2 stamp shows *Ectemnorhinus vanhoeffenianus* Enderlein (Curculionidae), a weevil endemic to the Crozet Islands.

*Ectemnorhinus vanhoeffenianus*





# PALEONTOLOGY

Editor

Michael Kogan, BU1863

New Listings



Scott#	Denom	Common Name/Scientific Name	Family	Code
<b>ARGENTINA</b>		<b>2014 March 25</b> (Argentina in Antarctica) (SS of 2)		
2724b	\$6	<i>Plesiosaurus</i>	†Plesiosauridae	A
2724	Margin	<i>Plesiosaurus</i> fossil	†Plesiosauridae	Z
<b>BRAZIL</b>		<b>2014 October 12</b> (Prehistoric Animals of Brazil) (MS of 4)		
a	\$1.30	<i>Prionosuchus plummeri</i> (eating a <i>Ceratodus</i> fish) <i>Psaronius</i> palms on the shore	†Archegosauridae	A
b	\$1.30	<i>Oxalaia quilombensis</i> (feeding on <i>Atlanticopristis</i> ) Ctr: <i>Atlanticopristis</i> UL: <i>Anhanguera</i> (in flight) ML: <i>Andesaurus</i> (pair) R: <i>Masiakasaurus</i> LL: Fish, <i>Mawsonia</i> LR: Hybodont Shark, <i>Tribodus</i> LL: Eagle Ray, <i>Myliobatis</i> LR: Lepidotid fish LR: Pycnodontiform fish	†Spinosauridae †Sclerorhynchidae †Anhangueridae †Andesauridae †Noosauridae †Mawsoniidae †Hybodontidae Myliobatidae	B B B B B B B B B B
c	\$1.30	<i>Pycnonemosaurus nevesi</i> (feeding on carcass) L: Sauropod, <i>Uberabatitan ribeiroi</i> LR: Crocodile, <i>Uberabasuchus terrificus</i>	†Abelisauridae †Titanosauria †Peirosauridae	A B B
d	\$1.30	Ground Sloth, <i>Eremotherium laurillardii</i>	†Megatheriidae	A
<b>CANADA</b>		<b>2014 March 31</b> (UNESCO World Heritage Sites)		
2718b	(85c)	Joggins Fossil Cliffs (NS) fossil discovery site		R
2718e	(85c)	Miguasha National Park (QC) fossil discovery site		R
2718		SS of 5 (Sc#2718a–e) (perf 13¼×13)		
2721	(85c)	Joggins Fossil Cliffs (NS) fossil discovery site		R
2722	(85c)	Miguasha National Park (QC) fossil discovery site		R
2723a		Bklt pane 10 (2ea Sc#2719–23) (die cut 13¼) (s/a)		
2723b		Bklt pane 30 (6ea Sc#2719–23) (die cut 13¼) (s/a)		
<b>CENTRAL AFRICAN REPUBLIC</b>		<b>2014 May 20</b> (Dinosaurs) [*1]		
Mi4690	900fr	<i>Dilophosaurus</i>	†Dilophosauridae	A
Mi4691	900fr	<i>Stegosaurus</i>	†Stegosauridae	A
Mi4692	900fr	<i>Triceratops</i>	†Ceratopsidae	A
Mi4693	900fr	<i>Tyrannosaurus</i>	†Tyrannosauridae	A
		MS of 4 (various species in margin)		
Mi4694 SS	3000fr	<i>Allosaurus</i>	†Allosauridae	A
	Margin	UL: <i>Triceratops</i>	†Ceratopsidae	Z
		UR: <i>Tyrannosaurus</i>	†Tyrannosauridae	Z
		ML: <i>Diplodocus</i>	†Diplodocidae	Z
		LL: <i>Centrosaurus</i>	†Ceratopsidae	Z
		LR: <i>Dilophosaurus</i>	†Dilophosauridae	Z

<b>CENTRAL AFRICA (continued)</b>		<b>2014 May 20</b> (Prehistoric Fish) (MS of 4 & SS of 1) [1]	
Mi4620	750fr <i>Coccosteus</i>	†Coccosteidae	A
Mi4621	750fr <i>Xenacanthus</i>	†Xenacanthidae	A
Mi4622	750fr <i>Orthacanthus</i>	†Orthacanthidae	A
Mi4623	750fr <i>Acanthodii</i>	Class: Acanthodii	A
	Margin UL: <i>Enchodus</i>	†Enchodontidae	Z
	ML: <i>Doryaspis</i>	Doraspidae	Z
	UR: <i>Helicoprion</i>	†Agassizodontidae	Z
	LL: <i>Cladoselache</i>	†Cladoselachidae	Z
	LR: <i>Stethacanthus</i>	†Stethacanthidae	Z
Mi4624 SS 2650fr	<i>Boreaspis</i>	†Boreaspididae	A
	Margin UL: <i>Xenacanthus</i>	†Xenacanthidae	Z
	ML: <i>Drepanaspis</i>	†Psammosteidae	Z
	LL: <i>Gemuendina</i>	†Asterosteidae	Z
	LR: <i>Dunkleosteus</i>	†Dunkleosteidae	Z
	UR: <i>Pteraspis</i>	Pteraspidae	Z
		<b>2014 December 15</b> (Prehistoric Water Animals) (MS of 4/SS of 1) [*1]	
a	750fr <i>Kronosaurus</i>	†Pliosauridae	A
b	750fr <i>Tylosaurus</i>	†Mosasauridae	A
c	750fr <i>Mosasaurus</i>	†Mosasauridae	A
d	750fr <i>Platecarpus</i>	†Mosasauridae	A
	Margin LL: <i>Liopleurodon</i>	†Pliosauridae	Z
	SS 2650fr <i>Ophthalmosaurus</i>	†Ophthalmosauridae	A
	Margin LR: <i>Tylosaurus</i>	†Mosasauridae	Z
<b>DOMINICAN REPUBLIC</b>		<b>2014 May 21</b> (National Museums) (SS of 2+2 labels)	
a	50p National Natural History Museum entrance		R
b	50p Marine life exhibit with whale skeleton		R
<b>GAMBIA</b>		<b>2014 September 15</b> (Dinosaurs) (2ea MS of 4 & 2ea SS of 1) [1]	
a	50d <i>Pteranodon longiceps</i>	†Pteranodontidae	A
b	50d <i>Archaeoceratops</i>	†Archaeoceratopsidae	A
c	50d <i>Ampelosaurus</i>	†Nemegtosauridae	A
d	50d <i>Apatosaurus</i>	†Diplodocidae	A
	Margin LR: <i>Ampelosaurus</i>	†Nemegtosauridae	Z
a	50d <i>Stegosaurus</i>	†Stegosauridae	A
b	50d <i>Albertaceratops</i>	†Ceratopsidae	A
c	50d <i>Spinosaurus</i>	†Spinosauridae	A
d	50d <i>Nedoceratops</i>	†Ceratopsidae	A
	Margin LR: U/I sp.		U Z
	SS 150d <i>Kentrosaurus</i>	†Stegosauridae	A
	Margin LR: U/I sp.		U Z
	SS 150d <i>Compsognathus</i>	†Compsognathidae	A
	Margin Bot: <i>Compsognathus</i>	†Compsognathidae	Z
<b>GHANA</b>		<b>2014 September 15</b> (Dinosaurs) (2ea MS of 4 & 2ea SS of 2) [1]	
a	2.75ce <i>Kentrosaurus</i>	†Stegosauridae	A
b	2.75ce <i>Achelousaurus</i>	†Ceratopsidae	A
c	2.75ce <i>Brachiosaurus</i>	†Brachiosauridae	A
d	2.75ce <i>Camarasaurus</i>	†Camarasauridae	A
	Margin Bot: U/I fossil skeleton		U Z

**GHANA** (continued)

a	2.75ce	<i>Dilophosaurus</i>	†Dilophosauridae	A
b	2.75ce	<i>Tyrannosaurus</i>	†Tyrannosauridae	A
c	2.75ce	<i>Ornitholestes</i>	†Ornitholestidae	A
d	2.75ce	<i>Compsognathus</i>	†Compsognathidae	A
a	4.50ce	<i>Majungasaurus</i>	†Abelisauridae	A
b	4.50ce	<i>Ceratosaurus</i>	†Ceratosauridae	A
	Margin	L: U/I fossil skeleton		U Z
a	4.50ce	<i>Aucasaurus</i> (facing left)	†Abelisauridae	A
b	4.50ce	<i>Aucasaurus</i> (facing right)	†Abelisauridae	A

**GRENADA GRENADINES (Carriacou) 2014 April 7** (Rock and minerals) [1]

2884b	\$3.25	<i>Mercenaria permagna</i> (fossil shell filled with calcite crystals)	Veneridae	B
2884		MS of 4 (Sc#2884a–d)		

**GUINEA****2014 October 1** (Prehistoric Men and Animals) (MS of 4/SS of 1) [1]

Each stamp has an image of a prehistoric man in various poses with the depicted animal.

a	10000fr	Giant Ground Sloth, <i>Megatherium americanum</i>	†Megatheriidae	B
b	10000fr	Saber-toothed Cat, <i>Smilodon populator</i>	Felidae	B
c	15000fr	Terror Bird, <i>Phorusrhacos longissimus</i>	†Phorusrhacidae	B
d	15000fr	Woolly Mammoth, <i>Mammuthus primigenius</i>	Elephantidae	B
SS	40000fr	Woolly Mammoth, <i>Mammuthus primigenius</i>	Elephantidae	B
	Margin	LL: Saber-toothed Cat, <i>Smilodon populator</i>	Felidae	Z
		Bot: Woolly Mammoth, <i>Mammuthus primigenius</i>	Elephantidae	Z
		Bot: Saber-toothed Cat, <i>Smilodon populator</i> (skull)	Felidae	Z
		LR: Terror Bird, <i>Brontornis burmeisteri</i>	†Phorusrhacidae	Z

**2014 October 27** (Dinosaurs) (MS of 4 & SS of 1) [1]

a	1000fr	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
b	1000fr	<i>Triceratops</i>	†Ceratopsidae	A
c	1500fr	<i>Velociraptor</i>	†Dromaeosauridae	A
d	1500fr	<i>Pachycephalosaurus</i>	†Pachycephalosauridae	A
	Margin	LL: U/I sauropod		U Z
SS	4000fr	<i>Torvosaurus tanneri</i>	†Megalosauridae	A
	Margin	Top: <i>Brachiosaurus</i> (head and neck)	†Brachiosauridae	Z

**GUINEA BISSAU****2014 May 15** (Dinosaurs) (MS of 4 & SS of 1) [1]

a	800fr	<i>Einosaurus</i>	†Ceratopsidae	A
b	800fr	<i>Nedoceratops</i> (Cap/Syn: <i>Diceratops</i> )	†Ceratopsidae	A
c	800fr	<i>Kentrosaurus</i>	†Stegosauridae	A
d	800fr	<i>Pentaceratops</i>	†Ceratopsidae	A
	Margin	LL & UR: Pterosaur	Order: †Pterosauria	Z
SS	2200fr	<i>Yangchuanosaurus</i>	†Metriacanthosauridae	A
	Margin	R: Pterosaur	Order: †Pterosauria	Z

**2014 November 5** (Prehistoric Water Animals) (MS of 4 & SS of 1) [1]

a	800fr	<i>Thalattoarchon saurophagis</i>	Order: †Ichthyosauria	A
b	800fr	<i>Nothosaurus</i>	†Nothosauridae	A
c	800fr	<i>Liopleurodon</i>	†Pliosauridae	A
d	800fr	<i>Tylosaurus</i>	†Mosasauridae	A
	Margin	LL: <i>Tylosaurus</i>	†Mosasauridae	Z
SS	2400fr	<i>Dakosaurus</i> (attacking marine creature)	†Metriorhynchidae	A
	Margin	UR: <i>Tylosaurus</i>	†Mosasauridae	Z
		LR: <i>Nothosaurus</i>	†Nothosauridae	Z

<b>HONG KONG</b>		<b>2014 February 20</b> (Chinese Dinosaurs)		
1625	\$1.70	<i>Daxiatitan binglingi</i>	†Titanosauroidae	A
1626	\$2.20	<i>Microraptor gui</i>	†Dromaeosauridae	A
1627	\$2.90	Lufeng Lizard, <i>Lufengosaurus magnus</i>	†Massospondylidae	A
1628	\$3.10	Tuo River Lizard, <i>Tuojiangosaurus multispinus</i>	†Stegosauridae	A
1629	\$3.70	<i>Protoceratops andrewsi</i>	†Protoceratopsidae	A
1630	\$5	<i>Yangchuanosaurus shangyouensis</i>	†Metriacanthosauridae	A
1630a		SS of 6 (Sc#1625–30)		
<b>HONG KONG</b> (continued)		<b>2014 July 24</b> (Definitive Stamps)		
	\$2.20	Wong Chuk Kok Tsui (Devonian fossil discovery site)		R
		MS of 12		
		<b>2014 December 4</b> (World Heritage in China Series 3: China Danxia)		
	SS \$10	Danxia Mountains (fossil discovery site)		R
<b>INDONESIA</b>		<b>2014 September 12</b> (125 years Paleoanthropological Institute Indonesia)		
This issue was planned for 31.08.2014, but delayed for two weeks. It arrived in post offices on September 12.				
a	3000r	<i>Homo erectus</i> (family)	Hominidae	A
b	3000r	<i>Homo sapiens</i> (skull)	Hominidae	A
		Strip of 2 stamps		
<b>ISRAEL</b>		<b>2014 February 11</b> (Ancient Erosion Craters in Israel)		
2005	3.10s	Makhtesh Ramon (fossil discovery site)		R
<b>IVORY COAST</b>		<b>2014 March 10</b> (African Dinosaurs) (MS of 4 & SS of 1) [1]		
a	250fr	<i>Carcharodontosaurus</i>	†Carcharodontosauridae	A
b	350fr	<i>Ceratosaurus</i>	†Ceratosauridae	A
c	500fr	<i>Allosaurus</i>	†Allosauridae	A
d	750fr	<i>Suchomimus</i>	†Spinosauridae	A
	SS 2500fr	<i>Afrovenator</i>	†Megalosauridae	A
	Margin	LL: <i>Massospondylus</i>	†Massospondylidae	Z
<b>MALDIVE ISLANDS</b>		<b>2014 October 14</b> (Dinosaurs) (MS of 4 & SS of 1) [1]		
a	22r	L: <i>Tylosaurus</i>	†Mosasauridae	A
		R: <i>Pteranodon</i>	†Pteranodontidae	A
b	22r	<i>Cryolophosaurus</i>	†Dilophosauridae	A
c	22r	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
d	22r	<i>Kentrosaurus</i>	†Stegosauridae	A
	SS 70r	<i>Nanotyrannus</i>	†Tyrannosauridae	A
	Margin	Bot & LR: <i>Stegosaurus</i>	†Stegosauridae	Z
<b>MOLDOVA</b>		<b>2014 May 3</b> (National Museums of the Republic of Moldova)		
	1.20L	National Museum of Ethnography and Natural History		R
		Sheet 10+5 labels		
	Label	<i>Deinotherium</i> (fossil skeleton)	†Deinotheriidae	Z
<b>MONGOLIA</b>		<b>2014 March 25</b> (Famous Scientists)		
2788	100t	Charles Darwin (1809–1882)		R
		<b>2014 July 24</b> ( <i>Tarbosaurus bataar</i> ) (MS of 4 & SS of 2)		
a	200t	<i>Tarbosaurus bataar</i>	†Tyrannosauridae	A
b	400t	<i>Tarbosaurus bataar</i> (fossil skull)	†Tyrannosauridae	A
c	500t	<i>Tarbosaurus bataar</i> (fossil skeleton)	†Tyrannosauridae	A
d	800t	<i>Tarbosaurus bataar</i>	†Tyrannosauridae	A
	Margin	LL: Fossil eggs in nest and skeleton		U Z

**MONGOLIA** (continued)

a	1000t	<i>Tarbosaurus bataar</i>	†Tyrannosauridae	A
b	1000t	<i>Tarbosaurus bataar</i> (fossil skeleton)	†Tyrannosauridae	A

**MOZAMBIQUE****2014 March 30** (Dinosaurs) (MS of 4 & SS of 1) [1]

Mi7255	46m	<i>Ceratops</i>	†Ceratopsidae	A
Mi7256	46m	<i>Acrocanthosaurus</i>	†Carcharodontosauridae	A
Mi7257	46m	Park's Lizard, <i>Parksosaurus</i>	†Hypsilophodontidae	A
Mi7258	46m	<i>Kosmoceratops</i>	†Ceratopsidae	A
Mi7259	SS 175m	<i>Albertosaurus</i>	†Tyrannosauridae	A
	Margin	UR: Park's Lizard, <i>Parksosaurus</i>	†Hypsilophodontidae	Z
		LL: <i>Stegoceras</i>	†Pachycephalosauridae	Z

**2014 June 30** (Paleolithic Cave Paintings) (MS of 4 & SS of 1) [1]

a	46m	Steppe Bison, <i>Bison priscus</i> (Altamira Cave ca.15,000 BC)	Bovidae	S
b	46m	Steppe Bison, <i>Bison priscus</i> (Niaux Cave ca.10,500 BC)	Bovidae	S
c	46m	Steppe Bison, <i>Bison priscus</i> (Font-de-Gaume ca.14,000 BC)	Bovidae	S
d	46m	<i>Cervus</i> sp. (Lascaux Cave ca.15,000–13,500 BC)	Cervidae	S
	Margin	Steppe Bison, <i>Bison priscus</i> (Chauvet Cave ca.30,000 BC)	Bovidae	S Z
	SS 175m	Auroch, <i>Bos primigenius</i> (Lascaux Cave ca.15,000–13,500 BC)	Bovidae	S
	Margin	Steppe Bison, <i>Bison priscus</i> (Altamira Cave ca.15,000 BC)	Bovidae	S Z

**NEVIS****2015 January 21** (Prehistoric Mammals) (2ea MS of 4 & SS of 1) [1]

a	\$3.25	<i>Daeodon</i>	†Entelodontidae	A
b	\$3.25	<i>Pseudaelurus</i>	Felidae	A
c	\$3.25	<i>Stenomylus</i>	Camelidae	A
d	\$3.25	<i>Amebelodon</i>	†Gomphotheriidae	A
	Margin	Top: <i>Stenomylus</i>	Camelidae	Z
	SS \$10	Saber-toothed Cat	Felidae	U A
	Margin	ML: <i>Stenomylus</i>	Camelidae	Z
a	\$3.25	<i>Megacerops</i>	†Brontotheriidae	A
b	\$3.25	<i>Synthetoceras</i>	†Protoceratidae	A
c	\$3.25	<i>Merychys</i>	†Merycoidodontidae	A
d	\$3.25	<i>Prosthennops</i>	Tayassuidae	A
	Margin	Bkgrd: Various prehistoric mammals		U Z
	SS \$10	Woolly Mammoth, <i>Mammuthus primigenius</i>	Elephantidae	A
	Margin	Bkgrd: Various prehistoric mammals		U Z

**NIGER****2014 June 25** (Extinct Animals) (MS of 4) [\*1]

	Margin	LR: Saber-toothed Cat, <i>Smilodon</i>	Felidae	Z
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**2014 September 10** (Flying Dinosaurs) (MS of 4 & SS of 1) [1]

This set should really be captioned, "Flying Reptiles" because dinosaurs are land creatures.

a	750fr	<i>Eudimorphodon</i>	†Eudimorphodontidae	A
b	750fr	<i>Dorygnathus</i> (facing left)	†Rhamphorhynchidae	A
c	750fr	<i>Dorygnathus</i> (facing right)	†Rhamphorhynchidae	A
d	750fr	<i>Archaeopteryx</i>	†Archaeopterygidae	A
	Margin	Ctr: <i>Pteranodon</i>	†Pteranodontidae	Z
	SS 2500fr	<i>Pteranodon</i>	†Pteranodontidae	A
	Margin	Top & Ctr: <i>Pteranodon</i>	†Pteranodontidae	Z
		L: <i>Archaeopteryx</i>	†Archaeopterygidae	Z

<b>NIGER</b> (continued)		<b>2014 October 13</b> (Dinosaurs) (MS of 4 & SS of 1) [1]		
a	750fr	<i>Triceratops</i>	†Ceratopsidae	A
b	750fr	<i>Ankylosaurus</i> (Cap: Thyreophora)	†Ankylosauridae	A
c	750fr	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
d	750fr	<i>Stegosaurus</i>	†Stegosauridae	A
	SS 2500fr	<i>Parasaurolophus</i>	†Hadrosauridae	A
	Margin	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	Z
<b>PALAU</b>		<b>2014 December 22</b> (Dinosaurs) (2ea MS of 4 & 2ea SS of 1) [1]		
a	\$1.20	<i>Nigersaurus</i>	†Rebbachisauridae	A
b	\$1.20	<i>Iguanodon</i>	†Iguanodontidae	A
c	\$1.20	<i>Agustinia</i>	†Agustiniidae	A
d	\$1.20	<i>Doliosauriscus</i>	†Anteosauridae	A
	SS \$4	<i>Gigantspinosaurus</i> (also partial in margin)	Suborder: Thyreophora	A
a	\$1.20	<i>Ankylosaurus</i>	†Ankylosauridae	A
b	\$1.20	<i>Giganotosaurus</i>	†Carcharodontosauridae	A
c	\$1.20	<i>Diplodocus</i>	†Diplodocidae	A
d	\$1.20	<i>Tyrannosaurus</i>	†Tyrannosauridae	A
	SS \$4	<i>Stegosaurus</i> (also partial in margin)	†Stegosauridae	A
<b>PERU</b>		<b>2014 November 5</b> (Prehistoric Insects)		
	SS 8s	<i>Sycorax peruensis</i> (in amber) (also in L margin)	Psychodidae	A
<b>ROMANIA</b>		<b>2014 September 20</b> (555th anniv. Bucharest)		
	9.10L	National Geologic Museum (also contains extensive paleontology exhibits)		R
<b>ST. THOMAS &amp; PRINCE IS.</b>		<b>2014 August 8</b> (Dinosaurs) (MS of 4 & SS of 1) [1]		
a	25000d	<i>Ankylosaurus</i> (Cap: Thyreophora)	†Ankylosauridae	A
b	25000d	<i>Allosaurus</i>	†Allosauridae	A
c	25000d	<i>Triceratops</i>	†Ceratopsidae	A
d	25000d	<i>Pachycephalosaurus</i>	†Pachycephalosauridae	A
	SS 96000d	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
	Margin	UL: <i>Tyrannosaurus rex</i> (skeleton)	†Tyrannosauridae	Z
		R: Richard Owen (1804–1892) (British paleontologist)		R Z
		<b>2014 September 15</b> (Fossils and Prehistoric Age) (MS of 4/SS of 1) [1]		
a	25000d	<i>Homo erectus</i> (skull)	Hominidae	A
b	25000d	Shark teeth (fossils)		U A
c	25000d	<i>Tyrannosaurus rex</i> (skeleton)	†Tyrannosauridae	A
d	25000d	Trilobite (fossil)	Class: †Trilobita	A
	Margin	UL: <i>Homo sapiens</i> (with prehistoric cave drawings)	Hominidae	Z
		UR: Ammonite	Class: Cephalopoda	Z
	SS 96000d	Ammonites	Class: Cephalopoda	A
	Margin	Ctr: <i>Homo sapiens</i> (prehistoric hunter)	Hominidae	Z
		LR: Saber-toothed Cat	Felidae	U Z
		<b>2014 October 15</b> (Dinosaurs) (MS of 4 & SS of 1) [1]		
a	25000d	<i>Styracosaurus</i>	†Ceratopsidae	A
b	25000d	<i>Liliensternus</i>	†Coelophysoidea	A
c	25000d	<i>Euoplocephalus</i>	†Ankylosauridae	A
d	25000d	<i>Caudipteryx</i>	†Caudipteridae	A
	SS 96000d	Top: <i>Styracosaurus</i>	†Ceratopsidae	A
		Bot: <i>Triceratops</i>	†Ceratopsidae	A
	Margin	LR: <i>Tyrannosaurus</i>	†Tyrannosauridae	Z
		Ctr & UR: <i>Diplodocus</i>	†Diplodocidae	Z

<b>ST. VINCENT (Union Island)</b>		<b>2014 October 14</b> (Dinosaurs) (2ea MS of 3 & 2ea SS of 1) [1]		
a	\$3.25	<i>Tyrannosaurus rex</i>	†Tyrannosauridae	A
b	\$3.25	<i>Archaeopteryx</i>	†Archaeopterygidae	A
c	\$3.25	<i>Compsognathus longipes</i>	†Compsognathidae	A
a	\$3.25	<i>Diplodocus</i>	†Diplodocidae	A
b	\$3.25	<i>Stegosaurus</i>	†Stegosauridae	A
c	\$3.25	<i>Triceratops</i>	†Ceratopsidae	A
	SS \$10	<i>Parasaurolophus walkeri</i>	†Hadrosauridae	A
	SS \$10	<i>Nodosaurus textilis</i>	†Nodosauridae	A
<b>SERBIA</b>		<b>2014 October 10</b> (Science)		
	23d	Petar Stevanović (1914–1999) (paleontologist)		R
		Cockle, <i>Lymnocardium</i> sp. (fossil)	Cardiidae	B
<b>SOLOMON ISLANDS</b>		<b>2014 August 24</b> (World of Dinosaurs) (MS of 4 & SS of 1) [1]		
a	\$7	<i>Carnotaurus</i>	†Abelisauridae	A
b	\$7	<i>Quetzalcoatlus</i>	†Azhdarchidae	A
c	\$7	<i>Styracosaurus</i>	†Ceratopsidae	A
d	\$7	<i>Piveteausaurus divesensis</i>	†Megalosauridae	A
	Margin	LL: <i>Puertasaurus</i>	†Titanosauroidae	Z
		LR: <i>Troodon</i>	†Troodontidae	Z
	SS \$35	<i>Triceratops horridus</i>	†Ceratopsidae	A
	Margin	UL: <i>Gegepterus changi</i>	†Ctenochasmatidae	Z
		LL: <i>Psittacosaurus sibiricus</i>	†Psittacosauridae	Z
		MR: <i>Utahraptor</i>	†Dromaeosauridae	Z
		<b>2014 November 28</b> (Dinosaurs) (MS of 4 & SS of 1) [1]		
a	\$7	<i>Parasaurolophus</i>	†Hadrosauridae	A
b	\$7	<i>Dromiceiomimus</i>	†Ornithomimidae	A
c	\$7	<i>Shunosaurus</i>	?†Cetiosauridae	A
d	\$7	<i>Proceratosaurus</i>	†Proceratosauridae	A
	Margin	L: <i>Iguanodon</i>	†Iguanodontidae	Z
	SS \$35	<i>Anchiceratops</i>	†Ceratopsidae	A
	Margin	UL: <i>Plateosaurus</i>	†Plateosauridae	Z
		<b>2014 December 20</b> (Fossils) (MS of 4 & SS of 1) [1]		
a	\$5	Shrimp fossil		U A
b	\$5	Dinosaur fossil		U A
c	\$5	Trilobite fossil		U A
d	\$5	Ammonite fossil		U A
	Margin	L: Ammonite fossil (cut away)		U Z
	SS \$24	Ammonite fossils (also in margin)		U A
	Margin	L: Marine reptile fossil		U Z
<b>TANZANIA</b>		<b>2014 September 20</b> (Tanzania Heritage Sites)		
	1500s	<i>Australopithecus</i> couple (with fossil footprints) (Laetoli)	Hominidae	A
	SS 1500s	<i>Australopithecus</i> couple (with fossil footprints) (Laetoli)	Hominidae	A
<b>TOGO</b>		<b>2014 June 30</b> (Dinosaurs) (MS of 4 & SS of 1) [1]		
a	750fr	<i>Apatosaurus</i>	†Diplodocidae	A
b	750fr	<i>Pteranodon</i>	†Pteranodontidae	A
c	750fr	<i>Einiosaurus</i>	†Ceratopsidae	A
d	750fr	<i>Wuerhosaurus</i>	†Stegosauridae	A

**TOGO** (continued)

SS 2500fr	<i>Parasaurolophus</i>	†Hadrosauridae	A
Margin	UL: <i>Pteranodon</i>	†Pteranodontidae	Z
	LL: <i>Abriktosaurus</i>	†Heterodontosauridae	Z
	LR: <i>Tyrannosaurus</i>	†Tyrannosauridae	Z

**Personalized Stamps****SLOVENIA****2014 April 20**

Discovery of a sea-horse fossil at Kamnik-Savinja Alps, Slovenia, issued by Philatelic Club Ivan Vavpotic Kamnik, Slovenia. A rate (domestic letter). This is the first stamp to ever show a fossil of a sea horse.

(29c) *Hippocampus sarmaticus* Syngnathidae new

**Postmarks****FRANCE****2014 July 22** (50th anniv. Tautavel man discovery)

Round mark with facial silhouettes

**GERMANY****2014 October 24** (51st International Mineral and Fossil Show)*Tyrannosaurus rex* and a meteorite shown on the post mark**Future Issues**

xx.xx.2015: Marshall Islands: Dinosaurs Bones. Set of 4 stamps

10.02.2015: Russia: World Nature Heritage of Russia. Lena Pillars (fossil discovery site) 50r

20.02.2015: Latvia: Latvian Natural History Museum's unique exhibits. Placodermi (prehistoric fish) 71c

05.03.2015: Switzerland: Ammonite, *Colombiceras*. SS of 1

xx.04.2015: Singapore: "Lee Kong Chian" Natural History Museum opening (delayed due to construction)

xx.05.2015:Canada: Dinosaurs

xx.05.2015:Portugal: Dinosaurs on Frama labels

17.09.2015 Belgium: s/a booklet with 10 dinosaur stamps

**Notes:**

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



## BIOLOGY REFERENCE WEBSITES

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

### STAMP ISSUES

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

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

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

<http://www.cyberstamps.com>

**Delcampe.** Worldwide listings and illustrations of stamps for sale.

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

**Neofila.** Modern issues from Russia, Eastern Europe, and Baltic States. Also includes some African countries.

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

**\*Stamp Collection.** On-line postage stamp catalogue of worldwide issues. Includes production information.

<http://colnect.com/en/stamps/countries>

**Stamperija.** Listings and illustrations of thematic issues from countries located in Africa, Asia, and Oceania produced by Stamperija, Ltd., under contract to several postal administrations. Requires login.

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

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

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

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

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

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

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

### GENERAL

**\*Collect 4 All.** Listings of stamps for sale by country and theme. Includes spectrum of animal stamps.

<http://www.collect4all.com/>

**Fauna-Stamps.** Listings of stamps for sale (mainly new issues) on all sorts of biological themes including Cats, Dogs, Horses, Birds, Butterflies, Paleontology, Flora, and WWF animal stamps.

<http://www.fauna-stamps.com/>

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

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

**Zip Code Zoo.** Links to taxonomic identification for all areas of biology including both zoology and botany.

<http://zipcodezoo.com/>

### BOTANY

**Fungal Biodiversity Center.** Dutch site under the Royal Netherlands Academy of Science and Arts dealing with the taxonomy and evolution of fungi. Includes searchable taxonomic databases.

<http://www.cbs.knaw.nl/>

**\*Garden Guides.** Replacement site for [www.botany.com](http://www.botany.com). All kinds of information about plants including cultivation. Listings by common name or scientific name. Grouped by plant types.

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

**International Association for Plant Taxonomy.** Links for the standard international codes on taxonomy and nomenclature for algae, fungi, and plants.

<http://www.iapt-taxon.org/nomen/main.php>

**Lichens of North America.** Many photos of lichens and links to related sites.

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

**ENTOMOLOGY:**

\***Antbase.** On-line databases maintained by the American Museum of Natural History and Ohio State University listing all the ant species of the world.

<http://www.antbase.org/index.htm>

\***Australian National Insect Collection.** Listings of Common and Scientific Names, systematic listing, and author abbreviations.

<http://www.ces.csiro.au/aicn/intro.htm>

\* **Cerambycidae.** Species listing and illustrations of Cerambycidae of the West Palearctic Region organized by subfamily and tribe.

<http://www.cerambyx.uochb.cz/>

**Cercopoidea Organised On Line.** Taxonomic database operated under the auspices of *Université Pierre-et-Marie-Curie* in Paris and dedicated to the insects Cercopoidea, which belong to the Hemiptera order.

<http://rameau.snv.jussieu.fr/cool/index.php>

\***Entomological Data Information System.** Internet links to many worldwide websites dealing with biology and ecology, especially Lepidoptera.

<http://www.insects-online.de/linkfram.htm>

**FUNET.** Finnish university share network site containing updated taxonomic listings for insects, especially Lepidoptera. It also has limited listings for mammals, birds, and plants.

<http://www.nic.funet.fi/pub/sci/bio/life/intro.html>

**International Odonata Research Institute.** Information about dragonflies and damselflies, including listings by geographical area, taxonomy, and links to related sites.

<http://www.iodonata.net/>

**Natural History Museum.** British site containing Lepidoptera generic names and type species listings.

<http://www.nhm.ac.uk/research-curation/research/projects/butmoth/>

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

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

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

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

**HERPETOLOGY:**

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

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

**The Reptile Database.** Uetz, P. (Ed.). Taxonomic database that provides basic information about all living reptile species, such as turtles, snakes, lizards, and crocodiles, as well as tuataras and amphisbaenians, but does not include dinosaurs.

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

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

<http://www.personal.psu.edu/crr2/turtstmp/>

**ICHTHYOLOGY**

**FishBase.** A searchable database developed at the WorldFish Center in Taiwan in collaboration with the Food and Agriculture Organization of the United Nations. Contains all you ever wanted to know about fishes.

[http://fishbase.sinica.edu.tw/home\\_tw.htm](http://fishbase.sinica.edu.tw/home_tw.htm)

**MAMMALS**

**Feline Philately Homepage.** All sorts of cat stamps, postmarks, and related articles.

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

**\*Mammal Species of the World.** On-line database of worldwide mammal species hosted by the Smithsonian Museum of Natural History.

<http://www.vertebrates.si.edu/msw/mswcfapp/msw/index.cfm>

**ORNITHOLOGY**

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

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

**Birds on Stamps.** Listings of local, unofficial, and cinderella issues featuring birds—last updated in 2007.

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

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

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

**PALEONTOLOGY:**

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

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

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

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

**EDITOR BIOGRAPHIES****Michael Kogan**

*[Ed. Note: Michael Kogan recently joined both the American Topical Association and the Biology Unit. He has taken over as Associate Editor of the Paleontology column from Dr. Hans-Peter Schultze.]*

Michael was born in Ukraine in 1971. His topical collecting interest is Paleontology and includes stamps and other philatelic material that depicts fossils, prehistoric flora and fauna, paleontologists, and contributors to paleontology.

He found his first fossil (the tooth of a prehistoric fish) when he was about 12 years old. This find led him to a local natural history museum where he discovered more about prehistoric life in the region. One of the museum employees explained his fossil and he began looking for more. After a while, he had a collection of ammonites, belemnites, petrified wood, and teeth of prehistoric fishes, and he dreamed of becoming a paleontologist.

At about the same time, he started collecting stamps depicting dinosaurs, fossils, and paleontologists, although few of this topic were available then. After finishing school, his family decided to move to Germany. The emigration process was not easy, especially moving to a country with a different culture and language. Along with adapting to these changes came military service, study in college, marriage, and getting a job—not much time left for a hobby.

Michael now works as freelance electronic engineer and hardware designer in Munich, Germany, and still keeps an interest in paleontology. A few years ago, he and his teenage daughter found his old stamp-album and became interested in stamp collecting again continuing with the paleontology topic. Now both are collecting stamps.

Michael manages a website at <http://www.paleophilatelic.eu> where he shares his knowledge about the topic and has created a thematic philatelic catalogue. He is active on Facebook and dozens of international forums under nickname Paleophilatelist. He speaks several languages including English, German, Russian, and Hebrew, and understands Ukrainian. He considers himself multicultural and open to other opinions and is always eager to hear from another collectors, especially those who have similar collecting interest.



Michael Kogan

## GLOSSARY OF TERMS

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

### Checklist Codes:

Br	Branch	A	Subject is the primary design element
Fl	Flowers (with or without other plant parts)	B	Subject is only part of the main design
Fr	Fruit (including seeds, nuts, grains, etc.)	C	Subject is a minor representation
FrV	Grain head with sheaf or stalk	G	Subject is a generalized depiction
L	Lichen	R	Related subject (e.g., scientist, equipment)
M	Mushroom or fungus	S	Subject is a stylized or symbolic depiction
T	Trees (without flowers or fruit)	U	Subject is unidentified or unidentifiable
V	Various (vines, vegetables, roots, leaves, etc.)	X	Subject is a lookalike (e.g., mushroom cloud)
Wr	Wreath	Z	Subject is in the margin or selva
Wr*	Head wreath (or chaplet)	*	Subject depicted in natural colors

### Acronyms and Abbreviations:

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