



ENTOMOLOGY

Editor

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New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
AITUTAKI				
2018 March 19 (Happy Easter) (MS/4)				
d	\$2.40	Stylized butterfly silhouettes	Lepidoptera	S C
ANGOLA				
2018 December 10 (Butterflies) (MS/4 & SS/1) (ANG18110a&b)				
Jose Reis in Angola questioned the Angolan Postal authorities about these Stamperija issues. They were authorized by someone there, but not authorized by someone else. Thus, there is some question about the validity of these issues. He is following up on this.				
1500	300k	Green Swallowtail, <i>Papilio phorcas</i> ssp. <i>congoanus</i> Rothschild	PAP, Papilioninae	A
1501	300k	Large Fairy Hairstreak, <i>Hypolycaena antifaunus</i> Westwood	LYC, Theclinae	A
1502	300k	Lesser Blue Charaxes, <i>Charaxes numenes</i> Hewitson	NYM, Charaxinae	A
1503	300k	Green Charaxes, <i>Charaxes eupale</i> Drury	NYM, Charaxinae	A
1560	SS 1200k	Golden Pansy, <i>Junonia sophia</i> Fabr.	NYM, Nymphalinae	A
	Margin	UL: Large Fairy Hairstreak, <i>Hypolycaena antifaunus</i> Westwood	LYC, Theclinae	Z
		LL: Lesser Blue Charaxes, <i>Charaxes numenes</i> Hewitson	NYM, Charaxinae	Z
		UR: Protea Scarlet, <i>Capys alphaeus</i> Cramer	LYC, Theclinae	Z
		LR: Shining Red Charaxes, <i>Charaxes zingha</i> Stoll	NYM, Charaxinae	Z
2018 December 10 (Bee-eaters) (MS/4 & SS/1) (ANG18115a&b)				
1468	300k	U/I Longhorn Grasshopper (in bird's beak)	Tettigoniidae	U C
1552	SS 1200k	U/I insect (in bird's beak)		U C
2018 December 10 (Cuckoos) (MS/4 & SS/1) (ANG18121a&b)				
N/A	300k	U/I Caterpillar (in <i>Chrysococcyx klaas</i> bird's beak)	Lepidoptera	U C
N/A	SS 1200k	R: U/I Caterpillar (in bird's beak)	Lepidoptera	U Z
AUSTRIA				
2018 September 15 (Year of Noctuidae)				
N/A	N/A	Pease Blossom Moth, <i>Periphanes delphinii</i> L.	NOC, Heliethinae	A
N/A	N/A	Scarce Merveille du Jour, <i>Moma alpium</i> Osbeck	NOC, Acronictinae	A
BELGIUM				
2018 June 11 (Youth Philately) (Single)				
2856	(€1.52)	Stylized Butterfly	Lepidoptera	S B
2018 August 27 (Dragonflies) (MS/5) (corrections)				
2870a	(€1.68)	Blue Darner, <i>Aeshna cyanea</i> Müller	AES, Aeshninae	A
2870b	(€1.68)	Banded Agrion, <i>Calopteryx splendens</i> Harris	CAL, Calopteryginae	A
2870c	(€1.68)	Blue-Tailed Damselfly, <i>Ischnura elegans</i> Vander Linden	COE, Ischnurinae	A
2870d	(€1.68)	Broad-Bodied Chaser, <i>Libellula depressa</i> L.	LIB, Libellulinae	A
2870e	(€1.68)	Ruddy Darter, <i>Sympetrum sanguineum</i> Müller	LIB, Sympetrinae	A
	Margin	Top: U/I Dragonfly	Libellulidae	U Z
CHINA (People's Republic)				
2018 May 19 (Relics of the Silk Road) (Set/4)				
4534	\$1.20	Silkworm, <i>Bombyx mori</i> L. (bronze figurine of a silkworm)	Bombycidae	S A
CUBA				
2018 December 12 (UPAEP Farm Life) (Set/4)				
N/A	65c	Western Honeybee, <i>Apis mellifera</i> L. (w/ beekeeper & hives)	API, Apinae	B

DJIBOUTI		2018 August 27 (Butterflies) (MS/4 & SS/1) (DJB18512a&b)		
1548a	240fr	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A
1548b	240fr	American Lady, <i>Vanessa virginiensis</i> Drury	NYM, Nymphalinae	A
1548c	240fr	Common Rose Butterfly, <i>Atrophaneura aristolochiae</i> Fabr.	PAP, Papilioninae	A
1548d	240fr	Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	A
1565	SS 950fr	Common Birdwing, <i>Troides helena</i> L. ♂	PAP, Papilioninae	A
	Margin	Top: Same species (larva & two chrysalides)	PAP, Papilioninae	Z
		UR: Same species ♀	PAP, Papilioninae	Z
		Bot: Same species ♂	PAP, Papilioninae	Z

		2018 December 13 (Endangered Species) (MS/4) (DJB18616a)		
c	240fr	Cloud Copper, <i>Aloeides nubilus</i> Henning & Henning	LYC, Theclinae	A

GRENADA		2018 December 5 (Beautiful Butterflies) (MS/4)		
N/A	\$4	Blue Hookwing, <i>Napeocles jucunda</i> Hübner	NYM, Nymphalinae	A
N/A	\$5	Blue Castnia, <i>Castnia papilionaris</i> Walker	CAS, Castniinae	A
N/A	\$6	Banded Blue Morpho, <i>Morpho achilles</i> ssp. <i>patroclus</i> C&R Felder	NYM, Morphinae	A
N/A	\$7	White-Tailed Page, <i>Urania leilus</i> L.	URA, Uraniinae	A

GRENADA GRENADINES		2018 December 5 (Butterflies) (MS/4)		
N/A	\$5	Uncertain Owlet, <i>Bia actorion</i> L.	NYM, Morphinae	A
N/A	\$6	Cotyto Clearwing, <i>Pteronymia cotyto</i> Guérin-Méneville	NYM, Danainae	A
N/A	\$6	Spatiosa Skipper, <i>Yanguna spatiosa</i> Hewitson	HES, Pyrginae	A
N/A	\$5	Montezuma's Cattleheart, <i>Parides montezuma</i> Westwood	PAP, Papilioninae	A
	Margin	LR: U/I Hawkmoth	Sphingidae	U Z

GUYANA		2018 July 28 (Planetary Nebulae) (MS/6)		
4568e	\$300	"Butterfly Nebula" (so called because it looks like a butterfly)		R

HONG KONG		2018 January 27 (Year of the Dog) (SS/2)		
1912	SS \$50	Printed on silk from Silkworm, <i>Bombyx mori</i> L.,	Bombycidae	R

		2018 October 9 (Cantonese Opera Scenes) (Set/6)		
1963	\$4.90	Actor in Butterfly costume (from <i>Butterfly Lovers</i> opera)		S A

JAPAN		2018 January 23 (Traditional Designs) (MS/10)		
4184c	62¥	Stylized Butterflies	PAP, Papilioninae	S B
4184		MS/10 (2ea Sc#4184a-e)		

KYRGYZSTAN

It appears that Kyrgyzstan is unique in that it has two official postal services, both now recognized by the Kyrgyz government and by the Universal Postal Union. The postage stamps of both services are valid internally and internationally for all postal services. Both the State Enterprise Kyrgyz Post and the Kyrgyz Express Post (KEP), are self-financing companies. KEP has been operating since March 2012 and was designated by the government as the second postal operator for Kyrgyzstan in December 2012. It was recognized as such by the UPU in May 2013. Its first postage stamps were issued in 2014.

LIECHTENSTEIN		2019 March 4 (Dragonflies) (Set/4) (dated 2017)		
N/A	85c	Beautiful Demoiselle, <i>Calopteryx virgo</i> L.	CAL, Calopteryginae	A
N/A	1fr	Emperor Dragonfly, <i>Anax imperator</i> Leach	AES, Aeshninae	A
N/A	1.80fr	Large Red Damselfly, <i>Pyrrosoma nymphula</i> Sulzer	COE, Coenagrioninae	A
N/A	2.60fr	Banded Demoiselle, <i>Calopteryx splendens</i> Harris	CAL, Calopteryginae	A

MEXICO		2018 June 14 (Mexico-Colombia Year) (Pair) (corrected data)		
a	15p	Monarch, <i>Danaus plexippus</i> L.,	NYM, Danainae	A
b	15p	Common Morpho, <i>Morpho helenor peleides</i> Kollar	NYM, Morphinae	A

NEVIS		2018 December 5 (Beautiful Butterflies) (MS/3 & SS/2)		
N/A	\$4	Jamaican Ringlet, <i>Calisto zangis</i> Fabr.	NYM, Satyrinae	A
N/A	\$5	Red-Splashed Sulfur, <i>Phoebis avellaneda</i> Herrich-Schäffer	PIE, Coliadinae	A
N/A	\$6	Poey's Black Swallowtail, <i>Papilio caiguanabus</i> Poey	PAP, Papilioninae	A
N/A	SS \$7	Cuban Mimic, <i>Dismorphia cubana</i> Herrich-Schäffer	PIE, Dismorphiinae	A
N/A	SS \$8	Gundlach's Swallowtail, <i>Parides gundlachianus</i> C&R Felder	PAP, Papilioninae	A
PENRHYN ISLAND		2018 March 19 (Happy Easter) (MS/4)		
d	\$2.40	Stylized butterfly silhouette	Lepidoptera	S C
ST. VINCENT		2019 January 15 (Butterflies of the Caribbean) (MS/4)		
N/A	\$5	Hewitson's Blue Hairstreak, <i>Evenus coronata</i> Hewitson	LYC, Theclinae	A
N/A	\$6	Godart's Numberwing, <i>Callicore pygas</i> Godart	NYM, Biblidinae	A
N/A	\$6	Green-Celled Cattleheart, <i>Parides childrenae</i> Gray	PAP, Papilioninae	A
N/A	\$5	Loruhama Eye-Mark, <i>Mesosemia loruhama</i> Hewitson	RIO, Riodininae	A
ST. VINCENT GRENADINES (Bequia)		2019 January 15 (Butterflies of the Caribbean) (MS/4)		
N/A	\$4	Ghost Brimstone, <i>Anteos clorinde</i> Godart	PIE, Coliadinae	A
N/A	\$6	Cramer's Swallowtail, <i>Battus lycidas</i> Cramer	PAP, Papilioninae	A
N/A	\$6	Doris Longwing, <i>Laparus doris</i> L.	NYM, Heliconiinae	A
N/A	\$7	Jamaican Swallowtail, <i>Papilio homerus</i> Fabr.	PAP, Papilioninae	A
ST. VINCENT GRENADINES (Mayreau)		2019 January 15 (Butterflies of the Caribbean) (MS/4)		
N/A	\$4	Tailed Orange, <i>Eurema proterpia</i> Fabr.	PIE, Coliadinae	A
N/A	\$5	Fripped Yellow, <i>Catasticta manco</i> Doubleday	PIE, Pierinae	A
N/A	\$6	Klug's Clearwing, <i>Dircenna klugii</i> Geyer	NYM, Danainae	A
N/A	\$7	Tiger Pierid, <i>Dismorphia amphione</i> Cramer	PIE, Dismorphiinae	A
	Margin	UL: Malachite, <i>Siproeta stelenes</i> L.	NYM, Nymphalinae	Z
		LL: Flambeau, <i>Dryas iulia</i> Fabr.	NYM, Heliconiinae	Z
ST. VINCENT GRENADINES (Union Island)		2019 January 15 (Butterflies of the Caribbean) (MS/4)		
N/A	\$5	Small Flambeau, <i>Eueides aliphera</i> Godart	NYM, Heliconiinae	A
N/A	\$6	<i>Blepolenis batea</i> Hübner	NYM, Morphinae	A
N/A	\$5	Double-Spotted Owl, <i>Eryphanis aesacus</i> Herrich-Schäffer	NYM, Morphinae	A
N/A	\$6	White-Barred Longwing, <i>Heliconius cydno</i> Doubleday & Hew.	NYM, Heliconiinae	A
TONGA		2018 March 15 (Happy Easter) (MS/4)		
a	\$2.25	Stylized butterfly silhouette	Lepidoptera	S C
		2019 February 8 (Animals of the World) (Set/4)		
N/A	\$5	Derby's Flower Beetle, <i>Dicronorhina derbyana</i> Westwood ♂	SCA, Cetoniinae	A
UKRAINE		2018 November 30 (Biodiversity) (MS/6)		
a	700h	European Stag Beetle, <i>Lucanus cervus</i> L.	LUC, Lucaninae	A
UNITED STATES		2019 January 27 (Butterfly) (Single)		
N/A	(70c)	California Dogface, <i>Zerene cesonia</i> Boisduval	PIE, Coliadinae	A
UZBEKISTAN		2018 November 23 (Fauna of Uzbekistan) (Set/4)		
N/A	900s	Seven-Spotted Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	A
ZIMBABWE		2018 October 15 (Ladybirds of Zimbabwe) (Set/4)		
N/A	40c	Seven-Spotted Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	A
N/A	75c	Black & Yellow Spotted Ladybird (w/ aphid)	Coccinellidae	U A
N/A	85c	Twenty-Spot Ladybird, <i>Psyllobora vigintimaculata</i> Say	COC, Coccinellinae	A
N/A	\$1	Asian Lady Beetle, <i>Harmonia axyridis</i> Pallas	COC, Epilachninae	A

Beyond the Catalog
(Issues of dubious validity)

The Azerbaijan government has declared the following two issues to be “Fake.”

AZERBAIJAN		2017 April 24 (Butterflies) (MS/6) (AZRB17211a)		
a	60g	Small or Alpine Apollo, <i>Parnassius phoebus</i> Fabr.	PAP, Papilioninae	A
b	60g	Aegina Number-Wing, <i>Callicore lyca</i> Doubleday	NYM, Biblidinae	A
c	60g	Hewitson’s Blue Hairstreak, <i>Evenus coronata</i> Hewitson	LYC, Theclinae	A
d	60g	<i>Mylothris croceus</i> Butler	PIE, Pierinae	A
e	60g	Atlas Moth, <i>Attacus atlas</i> L.	SAT, Saturniinae	A
f	60g	Purple or Violet Tip, <i>Colotis ione</i> Godart	PIE, Pierinae	A
	Margin	Ctr: Caucasian Dart, <i>Telicota</i> sp.	HES, Hesperinae	Z
		2017 April 24 (Butterflies) (MS/4) (AZRB17220a)		
a	60g	False Tiger Moth, <i>Dysphania militaris</i> L.	GEO, Geometrinae	A
b	60g	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A
c	60g	Question Mark, <i>Nymphalis interrogationis</i> Fabr.	NYM, Nymphalinae	A
d	60g	Blue Pansy, <i>Junonia orithya</i> L.	NYM, Nymphalinae	A
	Margin	Bkgrd: Common Buckeye, <i>Junonia coenia</i> Hübner	NYM, Nymphalinae	Z
CENTRAL AFRICA		2018 December 20 (Mushrooms) (MS/4 & SS/1) (CA18902a&b)		
a	850fr	Common Scorpionfly, <i>Panorpa communis</i> L.	PAN, Panorpiniae	B
b	850fr	Rusty-Tipped Page, <i>Siproeta epaphus</i> Latreille	NYM, Nymphalinae	B
c	850fr	Crimson Rose Butterfly, <i>Atrophaneura hector</i> L.	PAP, Papilioninae	B
d	850fr	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	B
N/A	SS 3300fr	German Wasp, <i>Vespula germanica</i> L.	VES, Vespinae	B
	Margin	R: Crimson Rose Butterfly, <i>Atrophaneura hector</i> L.	PAP, Papilioninae	Z
		2018 December 20 (Butterflies) (MS/4 & SS/1) (CA18906a&b)		
a	850fr	Chiricahua Pine White, <i>Neophasia terlooii</i> Behr	PIE, Pierinae	A
b	850fr	Red Flasher, <i>Panacea prola</i> Doubleday & Hewitson	NYM, Limenitidinae	A
c	850fr	Queen, <i>Danaus gilippus</i> Cramer	NYM, Danainae	A
d	850fr	Common Morpho, <i>Morpho deidamia</i> Hübner	NYM, Morphinae	A
N/A	SS 3300fr	Orange Mimic-Swallowtail, <i>Papilio zagreus</i> Doubleday	PAP, Papilioninae	A
	Margin	UR: Queen, <i>Danaus gilippus</i> Cramer	NYM, Danainae	Z
		LR: Red Flasher, <i>Panacea prola</i> Doubleday & Hewitson	NYM, Limenitidinae	Z
		2019 January 16 (Butterflies) (MS/4 & SS/1) (CA190109a&b)		
a	900fr	Pausanias Swallowtail, <i>Mimoides pausanias</i> Hewitson	PAP, Papilioninae	A
b	900fr	Pipevine Swallowtail, <i>Battus philenor</i> L.	PAP, Papilioninae	A
c	900fr	Cordilleran Mimic-White, <i>Patia cordillera</i> C&R Felder	PIE, Dismorphiinae	A
d	900fr	<i>Entheus lemna</i> Butler	HES, Pyrginae	A
N/A	SS 3600fr	Serville Swallowtail, <i>Eurytides serville</i> Godart	PAP, Papilioninae	A
	Margin	Top: <i>Entheus lemna</i> Butler	HES, Pyrginae	Z
		LR: Pausanias Swallowtail, <i>Mimoides pausanias</i> Hewitson	PAP, Papilioninae	Z
		2019 January 16 (Mushrooms) ((MS/4 & SS1) (CA190111a&b)		
c	900fr	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	B
d	900fr	Meadow Grasshopper, <i>Chorthippus parallelus</i> Zetterstedt	ACR, Gomphocerinae	B
N/A	SS 3600fr	Amanda’s Blue, <i>Polyommatus amandus</i> Schneider	LYC, Polyommatinae	B
	Margin	Top: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z
		2019 January 16 (Scouts) (MS/4) (CA19,0112a)		
a	850fr	Sapho Longwing, <i>Heliconius sapho</i> Drury	NYM, Heliconiinae	B
d	850fr	Khao Stick Insect, <i>Phaenopharos khaoyaiensis</i> Zompro	Diapheromeridae, Necroschiinae	B

THE GAMBIA**2018 December 19** (Butterflies) (4ea MS/4) (round)

a	80d	Fabulous Green Sphinx Moth, <i>Tinostoma smaragditis</i> Meyrick	SPH, Macroglossinae	A
b	80d	Madagascan Sunset Moth, <i>Chrysidia rhipheus</i> Drury	URA, Uraniinae	A
c	120d	Narrow Blue-Banded Swallowtail, <i>Papilio nireus</i> L.	PAP, Papilioninae	A
d	120d	Erlanger's Dotted Border, <i>Mylothris erlangeri</i> Pagenstecher	PIE, Pierinae	A
a	50d	Figtree Blue, <i>Myrina silenus</i> Fabr.	LYC, Theclinae	A
b	75d	Blue Mother of Pearl, <i>Salamis temora</i> C&R Felder	NYM, Nymphalinae	A
c	100d	Christmas Swallowtail, <i>Papilio demodocus</i> Esper	PAP, Papilioninae	A
d	125d	Beautiful Tiger Moth, <i>Amphicallia bellatrix</i> Dalman	ARC, Arctiinae	A
a	50d	Striped Policeman, <i>Coeliades forestan</i> Stoll	HES, Coeliadinae	A
b	120d	Club-Tailed Emperor, <i>Charaxes zoolina</i> Westwood	NYM, Charaxinae	A
c	150d	Madagascar Diadem, <i>Hypolimnas dexthea</i> Hewitson	NYM, Nymphalinae	A
d	200d	Plain Tiger, <i>Danaus chrysippus</i> ssp. <i>chrysippus</i> L.	NYM, Danainae	A
a	100d	Yellow Patch White, <i>Colotis halimede</i> Klug	PIE, Pierinae	A
b	100d	Wandering Donkey Acraea, <i>Acraea neobule</i> Doubleday	NYM, Heliconiinae	A
c	100d	Pearl Emperor, <i>Charaxes varanes</i> Cramer	NYM, Charaxinae	A
d	100d	African Map, <i>Cyrestis camillus</i> Fabr.	NYM, Cyrestinae	A

GUINEA**2018 October 23** (Bees) (MS/4 & SS/1) (GU18504a&b)

a	12500fr	Alkali Bee, <i>Nomia melanderi</i> Cockerell (w/ entomologist Theodore Dru Alison Cockerell)	HAL, Nomiinae	B
b	12500fr	<i>Euglossa bazinga</i> Nemesio & Ferrari	API, Apinae	A
c	12500fr	Wallace's Giant Bee, <i>Megachile pluto</i> B. Smith (world's largest living bee)	MEG, Megachilinae	A
d	12500fr	Blue-Banded Bee, <i>Amegilla cingulata</i> Fabr.	API, Apinae	A
N/A	SS 50000fr	Western Honeybee, <i>Apis mellifera</i> L. (w/ entomologist Karl von Frisch)	API, Apinae	B
	Margin	Top: Alkali Bee, <i>Nomia melanderi</i> Cockerell	HAL, Nomiinae	Z
		R: <i>Euglossa bazinga</i> Nemesio & Ferrari	API, Apinae	Z

2018 October 23 (Mushrooms) (MS/4 & SS/1) (GU18524a&b)

a	12500fr	White-Letter Hairstreak, <i>Satyrium w-album</i> Knoch	LYC, Theclinae	B
d	12500fr	Sierra Nevada Blue, <i>Agriades podarce</i> C&R Felder (Cap: <i>Plebejus podarce</i>)	LYC, Polyommatae	B
N/A	SS 50000fr	Margin R: White-Letter Hairsreak, <i>Satyrium w-album</i> Knoch	LYC, Theclinae	Z

2018 October 23 (Butterflies) (MS/4 & SS/1) (GU18525a&b)

a	12500fr	Blue Morpho, <i>Morpho menelaus didius</i> Hopffer	NYM, Morphinae	A
b	12500fr	Monarch, <i>Danaus plexippus</i> L. ♂	NYM, Danainae	A
c	12500fr	Chimaera Birdwing, <i>Troides chimaera</i> Rothschild	PAP, Papilioninae	A
d	12500fr	Luzon Peacock, <i>Papilio chikae</i> Igarashi	PAP, Papilioninae	A
N/A	SS 50000fr	Widespread Forester, <i>Euphaedra medon</i> L.	NYM, Limenitidinae	A
	Margin	Ctr: Monarch, <i>Danaus plexippus</i> L. ♂	NYM, Danainae	Z
		LR: Blue Morpho, <i>Morpho menelaus</i> ssp. <i>didius</i> Hopffer	NYM, Morphinae	Z

2018 August 8 (Scouts) (MS/4) (GU18320a)

d	12500fr	Common Blue-Banded Forester, <i>Euphaedra harpalyce</i> Cramer	NYM, Limenitidinae	B
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GUINEA-BISSAU**2018 October 15** (Butterflies) (MS/5 & SS/1) (GB18905a&b)

a	640fr	Purple Emperor, <i>Apatura iris</i> L.	NYM, Apaturinae	A
b	640fr	Gulf Fritillary, <i>Agraulis vanillae</i> L.	NYM, Heliconiinae	A
c	640fr	<i>Semomesia capanea</i> Cramer ♂	RIO, Riordininae	A
d	640fr	Corsican Swallowtail, <i>Papilio hospiton</i> Guenée	PAP, Papilioninae	A
e	640fr	Little Commodore, <i>Junonia sophia</i> ssp. <i>infracta</i> Butler	NYM, Nymphalinae	A
	Margin	LL: Green-Spotted Swallowtail, <i>Graphium tynderaeus</i> Fabr.	PAP, Papilioninae	Z

GUINEA-BISSAU (continued)

N/A	SS 3300fr	Green-Spotted Swallowtail, <i>Graphium tynderaeus</i> Fabr.	PAP, Papilioninae	A
	Margin	LL: Purple Emperor, <i>Apatura iris</i> L.	NYM, Apaturinae	Z
		R: Gulf Fritillary, <i>Agraulis vanillae</i> L.	NYM, Heliconiinae	Z

2018 October 15 (Mushrooms) (MS/5 & SS/1) (GB18906a&b)

a	640fr	Cicada Killer Wasp, <i>Sphecius speciosus</i> Drury	CRA, Bembicinae	A
b	640fr	Eastern Cucurbit Bee, <i>Peponapis pruinosa</i> Say	API, Apinae	A
c	640fr	Bog Bush Cricket, <i>Metrioptera brachyptera</i> L.	TET, Tettigoniinae	A
d	640fr	Emperor Dragonfly, <i>Anax imperator</i> Leach,	AES, Aeshninae	A
e	640fr	Blue Metalmark, <i>Lasaia sula</i> Staudinger	RIO, Riodininae	A
	Margin	LL: <i>Scarabaeus viettei</i> Paulian	SCA, Scarabaeinae	Z
N/A	SS 3300fr	<i>Scarabaeus viettei</i> Paulian (= <i>Madateuchus</i> of some)	SCA, Scarabaeinae	A
	Margin	LL: Blue Metalmark, <i>Lasaia sula</i> Staudinger	RIO, Riodininae	Z
		R: Bog Bush Cricket, <i>Metrioptera brachyptera</i> L.	TET, Tettigoniinae	Z

2018 November 12 (Butterflies & Kingfishers) (MS/5 & SS/1)

a	640fr	Small Tortoiseshell, <i>Nymphalis urticae</i> L.	NYM, Nymphalinae	B
b	640fr	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	B
c	640fr	Blue Diadem, <i>Hypolimnias salmactis</i> Drury	NYM, Nymphalinae	B
d	640fr	Southern Monarch, <i>Danaus erippus</i> Cramer	NYM, Danainae	B
e	640fr	Common Buckeye, <i>Junonia coenia</i> Hübner	NYM, Nymphalinae	B
	Margin	Top: Small Copper, <i>Lycaena phlaeas</i> L.	LYC, Lycaeninae	Z
N/A	SS 3300fr	Small Copper, <i>Lycaena phlaeas</i> L.	LYC, Lycaeninae	B
	Margin	Ctr: Southern Monarch, <i>Danaus erippus</i> Cramer	NYM, Danainae	Z

2018 November 12 (Bees) (MS/5 & SS/1) (GB181006a&b)

a	640fr	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
b	640fr	Violet Carpenter Bee, <i>Xylocopa violacea</i> L.	API, Xylocopinae	A
c	640fr	Buff-Tailed Bumblebee, <i>Bombus terrestris</i> L.	API, Apinae	A
d	640fr	Southern Bronze Furrow Bee, <i>Halictus confusus</i> Smith	HAL, Halictinae	A
e	640fr	White-Tailed Bumblebee, <i>Bombus lucorum</i> L.	API, Apinae	A
	Margin	Top: Great Banded Furrow Bee, <i>Halictus scabiosae</i> Rossi	HAL, Halictinae	Z
N/A	SS 3300fr	Great Banded Furrow Bee, <i>Halictus scabiosae</i> Rossi	HAL, Halictinae	A
	Margin	Top: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	Z
		Ctr: White-Tailed Bumblebee, <i>Bombus lucorum</i> L.	API, Apinae	Z
		LR: Buff-Tailed Bumblebee, <i>Bombus terrestris</i> L.	API, Apinae	Z

2018 November 12 (Butterflies) (MS/5 & SS/1) (GB181010a&b)

a	640fr	Zebra Swallowtail, <i>Protographium marcellus</i> Cramer	PAP, Papilioninae	A
b	640fr	Southern Dogface, <i>Zerene cesonia</i> Stoll	PIE, Coliadinae	A
c	640fr	Northern Pearly-Eye, <i>Enodia anhedon</i> Clark	NYM, Satyrinae	A
d	640fr	Mazarine Blue, <i>Polyommatus semiargus</i> Rottemburg	LYC, Polyommatinae	A
e	640fr	Mourning Cloak, <i>Nymphalis antiopa</i> L.	NYM, Nymphalinae	A
	Margin	Top: Milbert's Tortoiseshell, <i>Nymphalis milberti</i> Godart	NYM, Nymphalinae	Z
N/A	SS 3300fr	Milbert's Tortoiseshell, <i>Nymphalis milberti</i> Godart	NYM, Nymphalinae	A
	Margin	R: Zebra Swallowtail, <i>Protographium marcellus</i> Cramer	PAP, Papilioninae	Z

2018 December 17 (Mushrooms) ((MS/5 & SS/1) (GB181105a&b)

a	640fr	Lesser Spotted Fritillary, <i>Melitaea trivia</i> Schiffermüller	NYM, Nymphalinae	B
d	640fr	Apollo, <i>Parnassius apollo</i> L.	PAP, Parnassiinae	B
N/A	SS 3300fr	LR: Lesser Spotted Fritillary, <i>Melitaea trivia</i> Schiffermüller	NYM, Nymphalinae	Z
		UR: Apollo, <i>Parnassius apollo</i> L.	PAP, Parnassiinae	Z

MALDIVE ISLANDS		2018 October 4 (Butterflies & Flowers) (MS/4 & SS/1) (MLD181004a&b)		
a	22r	Constable, <i>Dichorragia nesimachus</i> Doyere	NYM, Cyrestinae	B
b	22r	Regent Skipper, <i>Euschemon rafflesia</i> Macleay	HES, Pyrginae	B
c	22r	Bhutan Glory, <i>Bhutanitis lidderdalii</i> Atkinson	PAP, Parnassiinae	B
d	22r	<i>Lemonias zygia</i> Hübner	RIO, Riodininae	B
N/A	SS 70r	Atala, <i>Eumaeus atala</i> Poey	LYC, Theclinae	B
	Margin	LL: Atala, <i>Eumaeus atala</i> Poey (chrysalis)	LYC, Theclinae	Z
		UR: <i>Lemonias zygia</i> Hübner	RIO, Riodininae	Z
MOZAMBIQUE		2018 November 19 (Butterflies) (MS/4 & SS/1) (MOZ18505a&b)		
a	116m	Peacock Pansy, <i>Junonia almana</i> L.	NYM, Nymphalinae	A
b	116m	Madagascan Sunset Moth, <i>Chrysidia rhipheus</i> Drury	URA, Uraniinae	A
c	116m	Sylphina Angel, <i>Chorinea sylphina</i> Bates	RIO, Riodininae	A
d	116m	Hewitson's Blue Hairsreak, <i>Evenus coronata</i> Hewitson	LYC, Theclinae	A
N/A	SS 300m	Goliath Birdwing, <i>Troides goliath</i> Oberthür	PAP, Papilioninae	A
	Margin	UR: Madagascan Sunset Moth, <i>Chrysidia rhipheus</i> Drury	URA, Uraniinae	Z
		LR: Peacock Pansy, <i>Junonia almana</i> L.	NYM, Nymphalinae	Z
NIGER		2018 October 24 (Bees) (MS/4 & SS/1) (NIG18510a&b)		
a	800fr	Neon Cuckoo Bee, <i>Thyreus nitidulus</i> Fabr.	API, Xylocopinae	A
b	800fr	Barbut's Cuckoo Bee, <i>Psithyrus barbutellus</i> Kirby	API, Apinae	A
c	800fr	Asian Honeybee, <i>Apis cerana</i> Enderlein	API, Apinae	A
d	800fr	Silky Striped Sweat Bee, <i>Agapostemon sericeus</i> Forster	HAL, Halictinae	A
N/A	SS 3300fr	Bicolored Striped Sweat Bee, <i>Agapostemon virescens</i> Fabr.	HAL, Halictinae	A
	Margin	LR: Barbut's Cuckoo Bee, <i>Psithyrus barbutellus</i> Kirby	API, Apinae	Z
		LL & UR: Red-Tailed Bumblebee, <i>Bombus lapidarius</i> L.	API, Apinae	Z
		2018 October 24 (Mushrooms) (MS/4) (NIG18516a)		
d	800fr	European Stag Beetle, <i>Lucanus cervus</i> L. (w/ mushroom)	LUC, Lucaninae	B
		2018 November 22 (Butterflies) (MS/4 & SS/1) (NIG18607a&b)		
a	800fr	Ornate Dusk-Flat, <i>Chaetocneme denitza</i> Hewitson	HES, Pyrginae	B
b	800fr	Parthenice Tiger Moth, <i>Grammia parthenice</i> Kirby	ARC, Arctiinae	B
c	800fr	Luna Moth, <i>Actias luna</i> L.	SAT, Saturniinae	B
d	800fr	Elephant Hawkmoth, <i>Deilephila elpenor</i> L.	SPH, Macroglossinae	B
N/A	SS 3300fr	Orange Oakleaf, <i>Kallima inachus</i> Boisduval	NYM, Nymphalinae	B
	Margin	LL: Parthenice Tiger Moth, <i>Grammia parthenice</i> Kirby	ARC, Arctiinae	BZ
		MR: Ornate Dusk-Flat, <i>Chaetocneme denitza</i> Hewitson	HES, Pyrginae	BZ
		LR: Luna Moth, <i>Actias luna</i> L.	SAT, Saturniinae	BZ
		2018 November 22 (Scouts) (MS/4 & SS/1) (NIG18619a&b)		
N/A	MS 800fr	Top: Stylized Butterfly	Nymphalidae	S Z
N/A	SS 3300fr	Ctr: Stylized Butterflies	Nymphalidae	S Z
ST. THOMAS & PRINCE IS.		2018 November 7 (Butterflies) (MS/4 & SS/1) (ST18511a&b)		
a	31d	White-Barred Longwing, <i>Heliconius cydno</i> Doubleday & Hew.	NYM, Heliconiinae	A
b	31d	Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	A
c	31d	Cairns Birdwing, <i>Troides priamus euphorion</i> Gray	PAP, Papilioninae	A
d	31d	Menelaus Blue Morpho, <i>Morpho menelaus coeruleus</i> Perry	NYM, Morphinae	A
N/A	SS 124d	Viceroy, <i>Limenitis archippus</i> Cramer	NYM, Limenitidinae	A
	Margin	R: Eastern Tiger Swallowtail, <i>Papilio glaucus</i> L.	PAP, Papilioninae	Z

SIERRA LEONE**2018 June 29** (Mushrooms) (MS/4 & SS/1) (SRL18503a&b)

a	9800le	Red Wood Ant, <i>Formica rufa</i> L.	FOR, Formicinae	B
c	9800le	Privet Hawk Moth, <i>Sphinx ligustri</i> L.	SPH, Sphinginae	B
N/A	SS 40000le	Orange Assassin Bug, <i>Gminatulus australis</i> Erichson	RED, Harpactorinae	B
	Margin	Ctr: Roesel's Bush Cricket, <i>Metrioptera roeselii</i> Hagenbach	TET, Tettigoniinae	Z

2018 December 28 (Butterflies) (MS/4 & SS/1) (SRL181103a&b)

a	9800le	Gulf Fritillary, <i>Agraulis vanillae</i> L.	NYM, Heliconiinae	A
b	9800le	Orange Tip, <i>Anthocharis cardamines</i> L.	PIE, Pierinae	A
c	9800le	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	A
d	9800le	Large Blue, <i>Maculinea arion</i> L.	LYC, Polyommatainae	A
N/A	SS 40000le	Rusty-Tipped Page, <i>Siproeta epaphus</i> Latreille	NYM, Nymphalinae	A
	Margin	R: Large Blue, <i>Maculinea arion</i> L.	LYC, Polyommatainae	Z

2018 December 28 (Bees) (MS/4 & SS/1) (SRL181115a&b)

a	9800le	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
b	9800le	White-Tailed Bumblebee, <i>Bombus lucorum</i> L.	API, Apinae	A
c	9800le	Eastern Carpenter Bee, <i>Xylocopa virginica</i> L.	API, Xylocopinae	A
d	9800le	Common Carder Bee, <i>Bombus pascuorum</i> Scopoli	API, Apinae	A
N/A	SS 40000le	Violet Carpenter Bee, <i>Xylocopa violacea</i> L.	API, Xylocopinae	A
	Margin	R: Common Carder Bee, <i>Bombus pascuorum</i> Scopoli	API, Apinae	Z

2018 December 28 (Fight Malaria) (MS/4 & SS/1) (SRL181118a&b)

a	9800le	African Malaria Mosquito, <i>Anopheles gambiae</i> Giles (w/ net)	CUL, Anophelinae	A
b	9800le	Same species (inoculation)	CUL, Anophelinae	B
c	9800le	Same species (silhouette)	CUL, Anophelinae	B
d	9800le	Same species (silhouette in blood drop)	CUL, Anophelinae	C
N/A	SS 40000le	R: African Malaria Mosquito, <i>Anopheles gambiae</i> Giles	CUL, Anophelinae	Z