



ENTOMOLOGY

Editor

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and José Reis



New Listings

Scott#	Denom	Common Name/Scientific Name	Family/Subfamily	Code
ARGENTINA				
2014 April 14 (Iguazu Falls) (SS/3) (new data)				
2725a	8p	<i>Doxocopa linda</i> ssp. <i>mileta</i> Boisduval	NYM, Apaturinae	A
	Margin	UL: Red Anartia, <i>Anartia amathea</i> L.	NYM, Nymphalinae	Z
		LL: Cramer's Eighty-eight, <i>Diaethria clymena</i> Cramer	NYM, Biblidinae	Z
		UR: Iridescent Blue, <i>Dynamine tithia</i> Hübner	NYM, Biblidinae	Z
ARUBA				
2016 April 29 (Butterflies) (Set/8) (correction)				
487	130c	Claudia's Beauty, <i>Agrias claudina</i> Godart	NYM, Charaxinae	
2016 September 30 (Insects) (Set/8)				
	50c	Roseate or Red Skimmer, <i>Orthemis ferruginea</i> Fabr.	LIB, Tetrathemistinae	A
	90c	American Cockroach, <i>Periplaneta americana</i> L.	BLA, Blattinae	A
	100c	Fire Ant, <i>Solenopsis</i> sp.	FOR, Myrmicinae	A
	130c	Great Green Bush Cricket, <i>Tettigonia viridissima</i> L.	TET, Tettigoniinae	A
	200c	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
	220c	Housefly, <i>Musca domestica</i> L.	MUS, Muscinae	A
	275c	Common Wasp, <i>Vespula vulgaris</i> L.	VES, Vespinae	A
	320c	Red Eye, <i>Psaltoda moerens</i> Germar	CIC, Cicadinae	A
AUSTRALIA				
2016 September 6 (Jewel Beetles) (Set/4)				
	\$1	<i>Stigmodera gratiosa</i> Chevrolat (also in s/a bkl't & coil)	BUP, Buprestinae	A
	\$1	<i>Castiarina klugii</i> Gory & Laporte (also in s/a bkl't & coil)	BUP, Buprestinae	A
	\$2	<i>Temognatha alternata</i> Lumholtz	BUP, Buprestinae	A
	\$2	<i>Julodimorpha bakewelli</i> White	BUP, Julodinae	A
BELARUS				
2016 August 12 (Beekeeping) (SS/2+2 labels)				
a	P	Western Honeybee, <i>Apis mellifera</i> L. (beekeeper smoking hives)	API, Apinae	C
b	P	Western Honeybee, <i>Apis mellifera</i> L. (on flower)	API, Apinae	A
	Label	L: Open box hives & tiny bees	API, Apinae	C
		R: Closed box hives & tiny bees	API, Apinae	C
2016 October 16 (Butterflies & Moths) (Set/4, 4ea MS/5, SS/4)				
Each also issued in MS/5 with a label showing its larva. Each has an invisible butterfly silhouette security imprint.				
a	A	Garden Tiger Moth, <i>Arctia caja</i> L.	ARC, Arctiinae	A
b	N	Mourning Cloak, <i>Nymphalis antiopa</i> L.	NYM, Nymphalinae	A
c	M	Six-Spot Burnet Moth, <i>Zygaena filipendulae</i> L.	ZYG, Zygaeninae	A
d	H	Eyed Hawkmoth, <i>Smerinthus ocellatus</i> L.	SPH, Smerinthinae	A
		SS/4 (a-d)		
	Margin	UR: U/I species	LYC, Polyommatae	U Z
		MR: Peacock, <i>Nymphalis io</i> L.	NYM, Nymphalinae	Z
		LR: Small Tortoise Shell, <i>Nymphalis urticae</i> L.	NYM, Nymphalinae	Z

BERMUDA**2016 October 20** (Lifecycle of a Monarch) (MS/4)

50c	Monarch, <i>Danaus plexippus</i> L. (larva)	NYM, Danainae	A
\$1	Same species (hanging pre-chrysalis & chrysalis)	NYM, Danainae	A
\$1.15	Same species (newly emerged adult)	NYM, Danainae	A
\$1.35	Same species (adult)	NYM, Danainae	A
Margin	L: Same species (pre-chrysalis J shape)	NYM, Danainae	Z
	Ctr: Same species (chrysalis showing color ready to emerge)	NYM, Danainae	Z
	Ctr: Same species (adult just emerging from chrysalis)	NYM, Danainae	Z

BRAZIL**2016 October 20** (Brazilian Butterflies) (MS/6 & MS/20)

a	1.70r	<i>Aricoris middletoni</i> Sharpe	RIO, Riodininae	(new) A
b	1.70r	<i>Evenus gabriela</i> Cramer	LYC, Theclinae	A
c	1.70r	<i>Parides bunichus</i> ssp. <i>bunichus</i> Hübner	PAP, Papilioninae	A
d	1.70r	Common Melwhite, <i>Melete lycimnia</i> Cramer	PIE, Pierinae	A
e	1.70r	<i>Myscelia orsis</i> Drury, ♀	NYM, Biblidinae	A
f	1.70r	<i>Mimoniades versicolor</i> Latreille	HES, Pyrginae	A
Margin		UL: <i>Episcada hymenaea</i> Prittwitz	NYM, Danainae	Z
		ML: U/I chrysalis		U Z
		LL: U/I larva		U Z
a	(1.30r)	<i>Udranomia spitzzi</i> Hayward	HES, Pyrginae	A
b	(1.30r)	Ruddy Daggerwing, <i>Marpesia petreus</i> Cramer	NYM, Cyrestinae	A
c	(1.30r)	Noble Emesis, <i>Emesis fatimella</i> Westwood	RIO, Riodininae	(new) A
d	(1.30r)	Short-Lined Kite, <i>Protographium agesilaus</i> Guér. & Percheron	PAP, Papilioninae	(new) A
e	(1.30r)	Caribbean Buckeye, <i>Junonia evarete</i> Cramer	NYM, Nymphalinae	A
f	(1.30r)	Red Anartia, <i>Anartia amathea</i> L.	NYM, Nymphalinae	A
g	(1.30r)	Sara Longwing, <i>Heliconius sara</i> ssp. <i>apseudes</i> Hübner	NYM, Heliconiinae	(new) A
h	(1.30r)	Glittering Sapphire, Narses Metalmark, <i>Lasaia agesilas</i> Latreille	RIO, Riodininae	(new) A
i	(1.30r)	Banded Lady, Vivid Painted Lady, <i>Vanessa myrinna</i> Doubleday	NYM, Nymphalinae	A
j	(1.30r)	Orange-Banded Gem, <i>Crocozona coecias</i> Hewitson	RIO, Riodininae	A
k	(1.30r)	Malachite, <i>Siproeta stelenes</i> L.	NYM, Nymphalinae	A
l	(1.30r)	Esmeralda Longtail, <i>Urbanus esmeraldus</i> Butler	HES, Pyrginae	(new) A
m	(1.30r)	<i>Phocides</i> sp.	HES, Pyrginae	A
n	(1.30r)	Starry Night Metalmark, <i>Echydna punctata</i> C&R Felder	RIO, Riodininae	(new) A
o	(1.30r)	<i>Chorinea licursis</i> Fabr.	RIO, Riodininae	(new) A
p	(1.30r)	<i>Chamaelimnas briola</i> ssp. <i>meridionalis</i> Lathy	RIO, Riodininae	(new) A
Margin		L: U/I chrysalis		U Z

CHINA (Taiwan)**2016 October 21** (PhilaTaipei 2016) (SS/4)

\$13	Stylized butterfly with lake & mountain	Lepidoptera	S
Margin	UR: Stylized butterfly (also butterfly-shaped perforations)		S Z

2016 October 25 (PhilaTaipei 2016) (SS/2)

Margin	MR: Tiny butterfly silhouette (with tree & ocean scene)	Lepidoptera	S Z
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FINLAND**2016 January 22** (Definitives) (Bklt/5+5 labels)

1508d	(€1.10)	Highly stylized butterfly (with bird)	Lepidoptera	S
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2016 September 9 (WWF) (Vert Strip/3+3 etiquettes)

1519b	(€1.20)	Pygmy Damselfly, <i>Nehalennia speciosa</i> Charpentier	COE, Coenagrioninae	A
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FRANCE**2016 January 30** (Sense of Hearing) (Bklt/12)

4972	(70c)	Cricket	Gryllidae	U B
4973	(70c)	Various stylized insects		S
4982	(70c)	Stylized butterflies (with harp, lyre, & flowers)	Lepidoptera	S

THE GAMBIA		2016 (Butterflies) (2ea MS/4 & 2ea SS/2)			
a	50d	Banded Blue Morpho, <i>Morpho achilles</i> L.	NYM, Morphinae	A	
b	50d	Gold-Banded Forester, <i>Euphaedra neophron</i> Hopffer (Cap: <i>Morpho peleides</i>)	NYM, Limenitidinae	A	
c	50d	Tailed Green Jay, <i>Graphium agamemnon</i> L. (Cap: <i>Siproeta stelenes</i>)	PAP, Papilioninae	A	
d	50d	Malachite, <i>Siproeta stelenes</i> L. (Cap: <i>Graphium agamemnon</i>)	NYM, Nymphalinae	A	
	Margin	UL: <i>Troides</i> sp.	PAP, Papilioninae	Z	
		MR: Cabbage White, <i>Pieris rapae</i> L.	PIE, Pierinae	Z	
a	50d	Red Postman, <i>Heliconius erato</i> L.	NYM, Heliconiinae	A	
b	50d	Postman, <i>Heliconius melpomene</i> L.	NYM, Heliconiinae	A	
c	50d	Zebra, <i>Protographium marcellus</i> Cramer	PAP, Papilioninae	A	
d	50d	Cruiser, <i>Vindula erota</i> Fabr.	NYM, Heliconiinae	A	
	Margin	LL & UR: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	Z	
a	SS 75d	Emerald Swallowtail, <i>Papilio palinurus</i> Fabr.	PAP, Papilioninae	A	
b	SS 75d	Thoas Swallowtail, <i>Papilio thoas</i> L.	PAP, Papilioninae	A	
	Margin	UR: Two Cabbage Whites, <i>Pieris rapae</i> L.	PIE, Pierinae	Z	
a	SS 75d	large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	A	
b	SS 75d	Postman, <i>Heliconius melpomene</i> L.	NYM, Heliconiinae	A	
	Margin	MR: Three stylized butterflies	Lepidoptera	S Z	
		LR: <i>Troides</i> sp.	PAP, Papilioninae	Z	

GREAT BRITAIN		2016 September 14 (Ladybirds) (Vert Strip/6) (s/a)			
a	(64p)	Seven-Spot Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	A	
b	(64p)	14-Spot Ladybird, <i>Propylea quatuordecimpunctata</i> L.	COC, Coccinellinae	A	
c	(64p)	Orange or 16-Spot Ladybird, <i>Halyzia sedecimguttata</i> L.	COC, Coccinellinae	A	
d	(64p)	Heather Ladybird, <i>Chilocorus bipustulatus</i> L.	COC, Chilcorinae	A	
e	(64p)	Striped Ladybird, <i>Myzia oblongoguttata</i> L.	COC, Coccinellinae	A	
f	(64p)	Water or 19-Spot Ladybird, <i>Anisosticta novemdecimpunctata</i> L.	COC, Coccinellinae	A	

GREAT BRITAIN (Jersey)		2016 September 14 (Ladybirds) (Vert Strip/6) (s/a)			
	Loc 100g (48p)	Orange or 16-Spot Ladybird, <i>Halyzia sedecimguttata</i> L.	COC, Coccinellinae	A	
	UK 100g (60p)	Bloody-nosed beetle, <i>Timarcha tenebricosa</i> Fabr. (So called because it emits a foul smelling, red liquid from its mouth when disturbed.)	CHR, Chrysomelinae	A	
	Eur 20g (66p)	Striped Ladybird, <i>Myzia oblongoguttata</i> L.	COC, Coccinellinae	A	
	Loc 1g (76p)	Harlequin or Asian Ladybird, <i>Harmonia axyridis</i> Pallas	COC, Epilachninae	A	
	Intl 20g (88p)	Seven-Spot Ladybird, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	A	
	UK 1g (£1)	Banded Sexton Beetle, <i>Nicrophorus investigator</i> Herschel	SIL, Nicrophorinae	A	

INDONESIA		2016 November 5 (Flora & Fauna) (MS/6 & SS/1)			
a	3000r	Haliphron Birdwing, <i>Troides haliphron</i> Boisduval	PAP, Papilioninae	(new) A	
b	3000r	Common Birdwing, <i>Troides helena</i> L.	PAP, Papilioninae	A	
c	3000r	<i>Papilio peranthus</i> Fabr.	PAP, Papilioninae	A	
d	3000r	Red Lacewing, <i>Cethosia biblis</i> Drury	NYM, Heliconiinae	A	
e	3000r	Sulawesi Blue Mormon, <i>Papilio ascalaphus</i> Boisduval	PAP, Papilioninae	A	
f	3000r	Gray Pansy, <i>Junonia atlites</i> L.	NYM, Nymphalinae	A	
	Margin	MR: Color registration marks are stylized swallowtail silhouettes	PAP, Papilioninae	S Z	
	SS 10000r	Common Birdwing, <i>Troides helena</i> L.	PAP, Papilioninae	A	
	Margin	Bot: Sulawesi Blue Mormon, <i>Papilio ascalaphus</i> Fabr.	PAP, Papilioninae	Z	

ITALY		2016 October 21 (Philately Day)			
	95c	Southern Swallowtail, <i>Papilio alexanor</i> Esper	PAP, Papilioninae	A	

IVORY COAST		2016 (Butterflies) (MS/2 & SS/1)			
a	1000fr	Euchenor Butterfly, <i>Papilio euchenor</i> Guerin-Méneville	PAP, Papilioninae	A	
b	1000fr	Punchinello, <i>Zemerus flegyas</i> Cramer	RIO, Riodininae	A	
	Margin	LL: Ruddy Daggerwing, <i>Marpesia petreus</i> Cramer	NYM, Cyrestinae	Z	
		Bot: 20 assorted stylized butterfly silhouettes	Lepidoptera	S Z	
	SS 1600fr	Gold-Banded Forester, <i>Euphaedra neophron</i> Hopffer (triangular)	NYM, Limenitidinae	A	
	Margin	LR: Tiger Leafwing, <i>Consul fabius</i> Cramer	NYM, Charaxinae	Z	
		LL: Stylized butterfly silhouette	Lepidoptera	S Z	
		Top: 18 assorted stylized butterfly silhouettes	Lepidoptera	S Z	
JAPAN		2016 September 23 (National Monuments Kamikochi) (MS/10)			
f	82¥	Poplar Admiral, <i>Limenitis populi</i> L.	NYM, Limenitidinae	A	
i	82¥	Orange Tip, <i>Anthocharis cardamines</i> L.	PIE, Pierinae	A	
j	82¥	Palaeno Sulfur, Clouded Yellow, <i>Colias palaeno</i> L.	PIE, Coliadinae	A	
LITHUANIA		2016 July 9 (Cucumbers & Honey)			
1080	39c	Honey from Western Honeybee, <i>Apis mellifera</i> L. (no insect)	API, Apinae	R	
MADAGASCAR		2016 (Scouts & Nature) (MS/3 & SS/1)			
a	2500m	<i>Epilema exornata</i> Eversmann (Cap: <i>Eversmannia exornata</i>)	URA, Epipleminae	A	
b	2500m	<i>Troides hypolitus</i> Cramer	PAP, Papilioninae	A	
c	2500m	False Apollo, <i>Archon apollinus</i> Herbst	PAP, Parnassiinae	A	
	Margin	UR: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z	
	SS 8600m	Monarch, <i>Danaus plexippus</i> L. (also in LR margin)	NYM, Danainae	B	
	Margin	UR: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z	
MALAYSIA		2016 August 23 (Tujuh Keajaiban Flora & Fauna) (SS/7)			
b	50s	<i>Meliponula ferruginea</i> Cockerell	API, Apinae	A	
	Margin	UR; Red Lacewing, <i>Cethosia chrysippe</i> L.	NYM, Heliconiinae	Z	
MEXICO		2016 October 28 (50th anniv. Diplomatic Relations with Jamaica) (Pair)			
a	7p	Jamaican Swallowtail, <i>Papilio homerus</i> Fabr. (Cap: <i>crephontes</i>)	PAP, Papilioninae	A	
b	11.50p	Monarch, <i>Danaus plexippus</i> L. ♂	NYM, Danainae	A	
PAPUA NEW GUINEA		2016 (Personalizable)			
	5t	Queen Alexandra's Birdwing, <i>Troides alexandrae</i> Roths. ♂ & ♀	PAP, Papilioninae	A	
	5t	Same species (purple value numeral) (also on attached label) ♂	PAP, Papilioninae	A	
		2016 May 19 (Coins & Bank Notes) (Block/4)			
a	1.45k	Paradise Birdwing, <i>Troides paradisea</i> Staudinger (silhouette)	PAP, Papilioninae	S B	
ST. MARTIN		2016 January 2 (Butterflies) (MS/10) (correction-Jose Reis)			
81	500c	Lebasi's Perisama, <i>Perisama lebasii</i> Guérin-Méneville (Cap: <i>Perisama Priene</i>)	NYM, Biblidinae	(new) A	
		2016 (Butterflies) (MS/10+2 labels)			
a	25c	Zebra Swallowtail, <i>Protographium marcellus</i> Cramer (Cap: <i>Eurytides</i>)	PAP, Papilioninae	A	
b	100c	Starry Night Cracker, <i>Hamadryas laodamia</i> Cramer	NYM, Biblidinae	A	
c	125c	Postman, <i>Heliconius melpomene</i> L.	NYM, Heliconiinae	A	
d	200c	Leonard's Skipper, <i>Hesperia leonardus</i> Harris (also on label)	HES, Hesperinae	(new) A	
e	250c	Amymone, <i>Mestra dorcas</i> ssp. <i>amymone</i> Ménéties	NYM, Biblidinae	(new) A	
f	300c	Blue Wave, <i>Myscelia ethusa</i> Boisduval	NYM, Biblidinae	A	
g	350c	Riding's Satyr, <i>Neominois ridingsii</i> Edwards	NYM, Satyrinae	(new) A	
h	400c	Eastern Black Swallowtail, <i>Papilio polyxenes</i> Fabr. (also label)	PAP, Papilioninae	A	
i	450c	Bloody Spot, Guava Skipper, <i>Phocides polybius</i> Fabr.	HES, Pyrginae	A	
j	500c	<i>Riodina lysippus</i> L.	RIO, Riodininae	(new) A	

SWITZERLAND		2016 May 12 (Europa–Environment) (Pair)		
b	100c	Stylized butterfly with leaves	Nymphalidae	S
		2016 September 8 (Summer) (SS/2)		
b	100c	Very stylized butterfly with filigree laser cut-out	Lepidoptera	S
TONGA		2016 January 4 (Air Post Special Delivery) (additional data)		
CE12a	Margin	Bkgrd: Common Lime Butterfly, <i>Papilio demoleus</i> L.	PAP, Papilioninae	Z
TONGA (Niuafu'ou)		2016 January 4 (Air Post Special Delivery) (additional data)		
CE11a	Margin	Bkgrd: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	Z
UNITED STATES		2016 September 24 (Non-machinable)		
5136	(68c)	Eastern Tailed Blue, <i>Cupido comyntas</i> Godart	LYC, Polyommatinae	A
		2017 (Non-machinable)		
	(68c)	California Dogface, <i>Zerene eurydice</i> Godart	PIE, Coliadinae	A
URUGUAY		2016 October 7 (Butterflies of Uruguay) (MS/9+3 labels)		
a	20p	<i>Chorinea licursis</i> Fabr.	RIO, Riodininae	A
b	20p	Sweet-Oil Tiger, <i>Mechanitis lysimnia</i> ssp. <i>lysimnia</i> Fabr.	NYM, Danainae	A
c	20p	Tropical Buckeye, <i>Junonia genoveva hilaris</i> C&R Felder	NYM, Nymphalinae	A
		MS/9 (3ea #a–c) with three labels that give butterfly information		
	Margin	LR: Stylized butterfly silhouette color registration marks		

Beyond the Catalog (Issues of dubious validity)

CENTRAL AFRICAN REPUBLIC		2016 July 18 (Butterflies) (MS/4 & SS/1) (CA16401a–b)		
a	900fr	Common Morpho, <i>Morpho helenor</i> ssp. <i>peleides</i> Kollar	NYM, Morphinae	A
b	900fr	Lilac Clipper, <i>Parthenos sylvia</i> ssp. <i>lilacinus</i> Butler	NYM, Limenitidinae	A
c	900fr	Rusty-Tipped Page, <i>Siproeta epaphus</i> Latreille	NYM, Nymphalinae	A
d	900fr	Malay Cruiser, <i>Vindula dejone</i> Erichson	NYM, Heliconiinae	A
	Margin	UR: Lilac Clipper, <i>Parthenos sylvia</i> ssp. <i>lilacinus</i> Butler	NYM, Limenitidinae	Z
		MR: <i>Papilio</i> sp.	PAP, Papilioninae	U Z
		MR: U/I butterfly	Pieridae	U Z
	SS 3000fr	Black-Bordered Charaxes, <i>Charaxes pollux</i> Cramer	NYM, Charaxinae	A
	Margin	UL: Red-Spotted Purple, <i>Limenitis arthemis</i> ssp. <i>astyanax</i> Fabr.	NYM, Limenitidinae	Z
		UR: Painted Lady, <i>Vanessa cardui</i> L.	NYM, Nymphalinae	Z
		2016 July 18 (Malaria Control) (MS/4 & SS/1) (CA16414a–b)		
a	750fr	<i>Anopheles stephensi</i> Liston	CUL, Anophelinae	A
	Margin	R: Common Malaria Mosquito, <i>Anopheles quadrimaculatus</i> Say	CUL, Anophelinae	Z
	SS 2650fr	Child under bed net		
	Margin	L: Western Malaria Mosquito, <i>Anopheles freeborni</i> Aitken	CUL, Anophelinae	Z
		(found only in SW United States)		
		2016 July 18 (PhilaTaipei 2016 - Toad) (SS/1) (CA16415b)		
	SS 2000fr	UR & MR: Great Mormon, <i>Papilio memnon</i> L. ♀	PAP, Papilioninae	Z
CHAD		2016 (Impressor) (2ea MS/4)		
a	200fr	Desert Locust, <i>Schistocerca gregaria</i> Forskål	ACR, Cyrtacanthacridinae	A
b	200fr	Weeping Grasshopper, <i>Eyprepocnemis plorans</i> Charpentier	ACR, Eyprepocnemidinae	A
c	200fr	<i>Maura rubroornata</i> Stål	PYRG, Pyrgomorphinae	A
d	200fr	Variiegated Grasshopper, <i>Zonocerus variegata</i> L.	PYRG, Pyrgomorphinae	A
	Margin	Each of above also in margin corners		Z
a	350fr	Salt & Pepper or Crotalaria Moth, <i>Utetheisa lotrix</i> Cramer (w/larva)	ARC, Arctiinae (new)	A
b	350fr	Cotton Bollworm, <i>Helicoverpa armigera</i> Hübner (with larva)	NOC, Heliothinae	A

CHAD (continued)

c	350fr	Painted Lady, <i>Vanessa cardui</i> L. (with larva)	NYM, Nymphalinae	A
d	350fr	Banded Emperor, <i>Cinabra hyperbius</i> Westwood (with larva)	SAT, Saturniinae	(new) A
	Margin	Corners: Three larvae & a chrysalis		Z

GUINEA**2016 July 18** (Bee-eaters) (MS/4 & SS/1) (GU16302a–b)

a	10000fr	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	C
c	10000fr	4-Spotted Skimmer, <i>Libellula quadrimaculata</i> L.	LIB, Libellulinae	B
SS	40000fr	Western Honeybee, <i>Apis mellifera</i> L. (in bird's beak)	API, Apinae	C
	Margin	UR: Blue Diadem, <i>Hypolimnas salmaccis</i> Drury (in bird's beak)	NYM, Nymphalinae	Z
		R: Western Honeybee, <i>Apis mellifera</i> L. (7 of various sizes)	API, Apinae	Z

2016 July 18 (Butterflies) (MS/4 & SS/1) (GU16305a–b)

a	10000fr	Diana Fritillary, <i>Speyeria diana</i> Cramer ♀	NYM, Heliconiinae	A
b	10000fr	Falcate Orange Tip, <i>Anthocharis midea</i> Hübner	PIE, Pierinae	A
c	10000fr	Tropical Milkweed Butterfly, <i>Lycorea halia</i> Hübner	NYM, Danainae	A
d	10000fr	Chiricahua Pine White, <i>Neophasia terlooii</i> Behr	PIE, Pierinae	A
	Margin	Mid: 3 Wood Nymphs, <i>Ideopsis gaura</i> Horsfield	NYM, Danainae	Z
		LR: Heliconius sp.	NYM, Heliconiinae	Z
		Top & LL: U/I larva		U Z
SS	40000fr	Rusty-tipped Page, <i>Siproeta epaphus</i> Latreille	NYM, Nymphalinae	A
	Margin	LL: African Giant Swallowtail, <i>Papilio antimachus</i> Drury (Cap: <i>Phengaris</i> sp.)	PAP, Papilioninae	Z
		UR: U/I larva		U Z
		MR: African Monarch, <i>Danaus chrysippus</i> L. (Cap: <i>Limenitis archippus</i>)	NYM, Danainae	Z
		LR: Heliconius sp.	NYM, Heliconiinae	Z

2016 September 26 (Bees) (MS/4 & SS/1) (GU16402a–b)

a	10000fr	Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	A
b	10000fr	White-Tailed Bumblebee, <i>Bombus lucorum</i> L.	API, Apinae	A
c	10000fr	Eastern Carpenter Bee, <i>Xylocopa virginica</i> L.	API, Xylocopinae	A
d	10000fr	Peacock Carpenter Bee, <i>Xylocopa bombylans</i> Fabr.	API, Xylocopinae	A
SS	40000fr	Violet Carpenter Bee, <i>Xylocopa violacea</i> L.	API, Xylocopinae	A
	Margin	LL: Western Honeybee, <i>Apis mellifera</i> L. (w/ beekeeper & hive)	API, Apinae	Z

2016 September 26 (Butterflies) (MS/4 & SS/1) (GU16403a–b)

a	10000fr	Western Brown, <i>Heteronympha merope</i> Fabr. (with larva)	NYM, Satyrinae	A
b	10000fr	Lime/Lemon Butterfly, <i>Papilio demoleus</i> L. (with chrysalis)	PAP, Papilioninae	A
c	10000fr	Large White, <i>Pieris brassicae</i> L. (with larva)	PIE, Pierinae	A
d	10000fr	Red Admiral, <i>Vanessa atalanta</i> L. (with larva)	NYM, Nymphalinae	A
SS	40000fr	Australian Painted Lady, <i>Vanessa kershawi</i> McCoy	NYM, Nymphalinae	A
	Margin	LL: Old World Swallowtail, <i>Papilio machaon</i> L. (larva)	PAP, Papilioninae	Z
		UR & MR: Gulf Fritillary, <i>Agraulis vanillae</i> L.	NYM, Heliconiinae	Z
		LR: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z

MALDIVE ISLANDS**2016 July 20** (Butterflies & Minerals) (MS/4 & SS/1) (MLD16602a–b)

a	20r	Orange-Barred Sulfur, <i>Phoebis philea</i> L.	PIE, Coliadinae	B
b	20r	Saturn, <i>Zeuxidia amethystus</i> Butler	NYM, Morphinae	B
c	20r	<i>Rothschildia aurota</i> Cramer,	SAT, Saturniinae	B
d	20r	Blue Morpho, <i>Morpho menelaus didius</i> Hopffer	NYM, Morphinae	B
SS	60r	Amber Daggerwing, <i>Marpesia berania</i> Hewitson	NYM, Cyrestinae	B
	Margin	UL: <i>Thyridia</i> sp.	NYM, Danainae	Z
		LL: Saturn, <i>Zeuxidia amethystus</i> Butler	NYM, Morphinae	Z
		LR: Indian Moon Moth, <i>Actias selene</i> Butler	SAT, Saturniinae	Z

NIGER**2016 April 20** (Baden-Powell) (MS/4) (NIG16122a)

c	900fr	Queen Alexandra's Birdwing, <i>Troides alexandrae</i> Rothschild	PAP, Papilioninae	B
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2016 August 15 (Bees) (MS/4 & SS/1) (NIG16301a-b)

a	750fr	<i>Apis nearctica</i> Engel et al (extinct from Miocene epoch)	API, Apinae	A
b	750fr	Blue-Banded Bee, <i>Amegilla cingulata</i> Fabr.	API, Apinae	A
c	750fr	Metallic Green Sweat Bees, <i>Agapostemon</i> sp. (also UR margin)	HAL, Halictinae	A
d	750fr	Red-Tailed Bumblebee, <i>Bombus lapidarius</i> L.	API, Apinae	A
SS	3000fr	Forest Cuckoo Bee, <i>Bombus sylvestris</i> Lepeletier	API, Apinae	A
Margin		UL: Bee hive in tree	API, Apinae	R Z
		UR: U/I bee (chased by bee-eater bird)		U Z
		LR: Western Honeybee, <i>Apis mellifera</i> L. (hive & beekeeper)	API, Apinae	C Z

2016 August 15 (Princess Charlotte) (MS/4) (NIG16303a)

b	750fr	Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	B
c	750fr	Scarlet, Red or Crimson Tip, <i>Colotis danae</i> Fabr. ♂	PIE, Pierinae	B
d	750fr	Large Blue, <i>Maculinea arion</i> L.	LYC, Polyommatae	B
Margin		UL&UR: 7-Spotted Lady Beetle, <i>Coccinella septempunctata</i> L.	COC, Coccinellinae	Z
		Ctr: Scarlet, Red or Crimson Tip, <i>Colotis danae</i> Fabr.	PIE, Pierinae	Z

2016 August 15 (Zika Virus/Red Cross) (MS/4 & SS/1) (NIG16324a-b)

Margin		UR: Yellow Fever Mosquito, <i>Aedes aegypti</i> L.	CUL, Culicinae	Z
SS	3000fr	Yellow Fever Mosquito, <i>Aedes aegypti</i> L.	CUL, Culicinae	A

2016 October 24 (Butterflies) (MS/4 & SS/1) (NIG16404a-b)

a	750fr	Caribbean Blue, <i>Hemiargus ceraunus</i> Fabr. (pair mating)	LYC, Polyommatae	A
b	750fr	Chalk Hill Blue, <i>Polyommatus coridon</i> Poda	LYC, Polyommatae	A
c	750fr	Banded Orange Heliconian, <i>Dryadula phaetusa</i> L. (with larva)	NYM, Heliconiinae	A
d	750fr	Large Skipper, <i>Ochlodes sylvanus</i> Esper	HES, Hesperinae	A
SS	3000fr	<i>Dysphania militaris</i> L.	GEO, Geometrinae	A
Margin		LL: Large Tree Nymph, <i>Idea leuconoe</i> Erichson	NYM, Danainae	Z
		UR: <i>Dysphania militaris</i> L. (larva)	GEO, Geometrinae	Z
		LR: Large Copper, <i>Lycaena dispar</i> Haworth	LYC, Lycaeninae	Z

ST. THOMAS & PRINCE IS.**2015** (Biodiversity) (MS/9) (ST15601a)

f	2000d	Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	A
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2016 July 20 (American Fauna) (MS/4 & SS/1) (ST16311a-b)

a	31000d	<i>Graphocephala coccinea</i> Forster	CIC, Cicadellinae	A
b	31000d	Saddleback Caterpillar, <i>Sibine stimulea</i> Clemens (larva)	LIM, Limacodinae	A
c	31000d	Harlequin Bug, <i>Murgantia histrionica</i> Hahn	PEN, Pentatominae	A
d	31000d	Spider (<i>Araneus trifolium</i>)	Araneidae	
Margin		Top: American Bumblebee, <i>Bombus pennsylvanicus</i> DeGeer	API, Apinae	Z
SS	96000d	Centipede (<i>Theatops californiensis</i>)	Plutoniumidae	
Margin		LL: 3 Boll Weevils, <i>Anthonomus grandis</i> Boheman	CUR, Curculioninae	Z
		Top: Giant Swallowtail, <i>Papilio cresphontes</i> Cramer	PAP, Papilioninae	Z
		UR: Polyphemus Moth, <i>Antheraea polyphemus</i> Cramer	SAT, Saturniinae	Z
		MR: Many-spotted Tiger Moth, <i>Hypercompe permaculata</i> Packard	ARC, Arctiinae (new)	Z
		LR: Garden Tiger Moth, <i>Arctia caja</i> L.	ARC, Arctiinae	Z
		Ctr: Pipevine Swallowtail, <i>Battus philenor</i> L.	PAP, Papilioninae	Z

2016 July 20 (Asiatic Fauna) (MS/4 & SS/1) (ST16315a-b)

a	31000d	Sibina Fritillary, <i>Melitaea sibina</i> Alphéraky	NYM, Nymphalinae (new)	A
b	31000d	Lesser Purple Emperor, <i>Apatura ilia</i> Denis & Schiffermüller	NYM, Apaturinae	A
c	31000d	Great Purple, <i>Sasakia charonda</i> Hewitson	NYM, Apaturinae	A
d	31000d	Tibetan Marbled Satyr, <i>Tatinga tibetanus</i> Oberthür	NYM, Satyrinae (new)	A

ST. THOMAS & PRINCE IS. (continued)

Margin	U/I butterfly	Lepidoptera	U Z
SS 96000d	<i>Heliophorus saphir</i> Blanchard	LYC, Lycaeninae	(new) A
Margin	LL: Scarce or Kite Swallowtail, <i>Iphiclides podalirius</i> L.	PAP, Papilioninae	Z
	UR: Rajah Brooke's Birdwing, <i>Troides brookiana</i> Wallace	PAP, Papilioninae	Z
	LR: Indian Yellow Nawab, <i>Polyura jalysus</i> C&R Felder	NYM, Charaxinae	Z

2016 September 12 (Orchids) (SS/1) (ST16403b)

SS 96000d	L: Two Monarchs, <i>Danaus plexippus</i> L.	NYM, Danainae	Z
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2016 September 12 (Bee-eaters) (MS/4 & SS/1) (ST16420a-b)

Margin	UR: Western Honeybee, <i>Apis mellifera</i> L.	API, Apinae	Z
SS 96000d	Western Honeybee, <i>Apis mellifera</i> L. (two bees with birds)	API, Apinae	B
Margin	ML & UR: <i>Apis mellifera</i> L.	API, Apinae	Z

SIERRA LEONE**2016 January 28** (Butterflies) (MS/4 & SS/1) (SRL16101a-b)

a	6000Le	Postman, <i>Heliconius melpomene</i> L.	NYM, Heliconiinae	A
b	6000Le	Lime Swallowtail, <i>Papilio demoleus</i> L.	PAP, Papilioninae	A
c	6000Le	Southern Festoon, <i>Zerynthia polyxena</i> Denis & Schiffermüller	PAP, Parnassiinae	A
d	6000Le	Viceroy, <i>Limnitis archippus</i> Cramer	NYM, Limenitidinae	A
	Margin	L: Death's Head Moth, <i>Acherontia atropos</i> L. (with larva)	SPH, Sphinginae	Z
SS 24000Le		Southern Festoon, <i>Zerynthia polyxena</i> Denis & Schiffermüller	PAP, Parnassiinae	A
	Margin	UR: Atlas Moth, <i>Attacus atlas</i> L.	SAT, Saturniinae	Z

2016 February 26 (Baden Powell) (SS/1) (SRL16215b)

SS 24000Le	LL: Monarch, <i>Danaus plexippus</i> L.	NYM, Danainae	Z
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2016 February 26 (Zika Virus) (MS/4) (SRL16218a)

d	6000Le	<i>Aedes aegypti</i> L. or <i>A. albopictus</i> Skuse	CUL, Culicinae	A
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2016 March 25 (Frogs) (SS/1) (SRL16301b)

SS 24000Le	U/I fly (on frog's extended tongue)	Diptera	U	
	Margin	LR: U/I ladybird	Coccinellidae	U Z

2016 June 30 (Qi Baishi Paintings) (MS/4 & SS/1) (SRL16614a-b)

a	6000Le	"Butterfly and Flowering Plum." (looks like a moth)	Lepidoptera	U C
d	6000Le	"Likvidamera Taiwan and the Cicada"	Cicadidae	U C
SS 24000Le		UR: Damselfly (in large painting)	Odonata	U Z

SOLOMON ISLANDS**2016 August 1** (Zika Virus) (MS/4 & SS/1) (SLM16224a-b)

d	\$12	Yellow Fever Mosquito, <i>Aedes aegypti</i> L. (with nurse & baby)	CUL, Culicinae	C
	SS \$35	Bot: <i>Aedes aegypti</i> L.	CUL, Culicinae	Z

2016 September 1 (Butterflies) (MS/4 & SS/1) (SLM16303)

a	\$12	Penciled Blue, <i>Candalides absimilis</i> C. Felder (top: ♀ bot: ♂)	LYC, Polyommatae	(n) A
b	\$12	Giant Brimstone, <i>Anteos maerula</i> Fabr.	PIE, Coliadinae	A
c	\$12	Oleander Hawkmoth, <i>Daphnis nerii</i> L.	SPH, Macroglossinae	A
d	\$12	Mourning Cloak, <i>Nymphalis antiopa</i> L.	NYM, Nymphalinae	A
SS \$35		Spicebush Swallowtail, <i>Papilio troilus</i> L. (with larva)	PAP, Papilioninae	A
	Margin	UL: Old World Swallowtail, <i>Papilio machaon</i> L.	PAP, Papilioninae	Z
		LL: <i>Parides zacyanthus</i> Fabr.	PAP, Papilioninae	(new) Z
		UR: Roseate Emperor, <i>Eochroa trimeni</i> Felder	SAT, Saturniinae	Z

WALLIS & FUTUNA**2016 September 21** (Butterflies of Wallis & Futuna) (MS/3)

a	115fr	Samoa Gram Blue, <i>Euchrysops cnejus samoae</i> H-Schaeffer ♀	LYC, Polyommatae	(n) A	
b	115fr	Meadow Argus, <i>Junonia villida</i> Fabr.	NYM, Nymphalinae	A	
c	115fr	Eschscholtz's Crow, <i>Euploea lewinii eschscholtzii</i> C&R Felder	NYM, Danaeae	(new) A	
	Margin	Tiny images of above butterflies each appear twice in the margins			Z

A Note About Recent Taxonomy

In the past 5-10 years, there have been many taxonomic studies using DNA determinations in order to find the proper relationships between Superfamilies, Families, Subfamilies, Tribes, and Genera. However, since the literature references are scattered and not necessarily simple to search out, I will continue to use the readily available website (www.funet.fi/pub/sci/bio/life/insecta/index.html) as my standard source of names, even though some of the arrangements may be considered out of date in very recent literature.

For those interested, the following is the proposed 2012 arrangement for moths in Drepanoidea and Noctuoidea based primarily on DNA studies by Reza Zahiri* of the University of Turku, Finland. Since Zahiri's advisor is Niklas Wahlberg, associated with the www.funet.fi website, our standard for naming, I would expect to see such changes also made in that website in the near future.

DREPANOIDEA**Cimeliidae****Drepanidae:** Drepaninae, Thyatirinae**Epicopeiidae****NOCTUOIDEA****Oenosandridae****Notodontidae:** Thaumetopoeinae, Notodontinae, Phalerinae, Heterocampinae, Dioprinae**Euteliidae:** Euteliinae, Stictopterinae**Erebidae:** Erebininae, Eulepidotinae, Lymantriinae, Herminiinae, Arctiinae, Calpinae, Aganainae, Rivulinae, Anobinae, Scolopteryginae, Hypeninae, Pangraptinae, Hypocalinae, Toxocampinae, Tinoliinae, Scolecocampinae, Hypenodinae, Boletobiinae**Nolidae:** Diphtherinae, Eligminae, Risobinae, Chloephorinae, Collomeninae, Beaninae, Westermanninae, Nolinae**Noctuidae:** Dyopsinae, Plusiinae, Cuculliinae, Dilobinae, Pantheinae, Acontiinae, Bagasarinae, Amphipyriinae, Metopiinae, Acronictinae, Heliothinae, Noctuinae

Note that the long-standing families Arctiidae and Lymantriidae are now considered subfamilies in Erebidae.

* Thesis, University of Turku, Finland, *Molecular Systematics of Noctuoidea (Insecta, Lepidoptera)*, Reza Zahiri (2012)