



2022-2023 Dry Season Moth Survey at Fanling Golf Course, Hong Kong:

key findings and overall findings incorporating 2018 & 2020 surveys

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Ву

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Moth Survey of 2022-2023, Old Course (EIA sub areas 1, 2 & 3)

Front cover photo: Saturnia pyretorum, Fanling Golf Course, EIA sub area 3, 13 February 2023

2022-2023 Dry Season Moth Survey at Fanling Golf Course, Hong Kong: key findings and overall findings incorporating 2018 & 2020 surveys

By Dr. R.C.Kendrick, Director, C & R Wildlife, Tai Po, Hong Kong 27 April 2023

Moth Survey of 2022-2023, Old Course (EIA sub areas 1, 2 & 3)

Summary

In the 2022-2023 dry season moth survey, 323 species were recorded, including four species new to Hong Kong, and at least one unique (likely undescribed) species to Fanlling Golf Course [FGC]. Of the scientifically described species, 12 are endemic to (i.e. only known to occur in) Hong Kong (Table 1) and two are nearly endemic to Hong Kong (Table 2), all 14 of which meet International Union for the Conservation of Nature [IUCN] Red List criteria for species at risk, or greater threat, of extinction globally. There are a further 14 species of international (Table 2) and 6 species of local conservation concern (Table 3), giving a total of 34 moth species of conservation concern found during this dry season survey. A further 14 species are data deficient, suspected to be undescribed species currently not known outside Hong Kong.

The 2022-2023 survey data adds 109 moth species recorded at the Fanling Golf Courses. Together with the data from the 2018 & 2020, 729 moth species are documented, and the **number of species of conservation concern to 107 species** (16 described Hong Kong endemics, 41 further species of international concern and 50 species of local concern).

The log-normal distribution of data obtained from all three surveys combined suggests that less, possibly far less, than half the moth species of Fanling Golf Course have been documented so far. Factors like time of year, weather, moon phase, duration of recording (moth flight times) and alternative recording methods will greatly impact upon the species observed.

As per the methodology undertaken for this study at Fanling Golf Course, as well as for moth recording elsewhere in Hong Kong (e.g. Kendrick, 2010; Kendrick, 2021), all moth recording with light trapping for environmental and ecological impact assessment in Hong Kong should meet all the following abiotic conditions in order to best investigate the presence and abundance of moth species utilising any particular site:

- (1) Record moths by light trapping with the wind average no greater than a Beaufort force 4 **and** not gusting above f. 5;
- (2) the temperature not falling more than 0.5°C per hour;
- (3) the temperature preferably between 28°C (noting that this temperature has historically been the upper threshold of adult moth activity) and 12°C **at dusk**;
- (4) relative humidity above 50%;
- (5) and the lunar phase not at full, nor up to three nights either side thereof, unless there is 100% thick cloud cover or fog.

Further, the recording effort for environmental and ecological impact assessment should be extended to all night recording, with abiotic data logged at the start, end and lowest temperature point of each and every session, so as to document the moth species whose activity is restricted to later parts of the night (e.g. Kendrick, 2005; Kendrick, 2009; Ma & Ma, 2012).

Field Methods

Moths were recorded at 125W mercury vapour [mv] lights on traps (Fry & Waring, 1996; Young, 1997: 201; Lerverton, 2001: 150), with three traps operated (two Robinson traps and one Skinner trap, one mv light per trap) during each session. Twelve sessions were undertaken, on 26th (EIA sub area 1) & 31st (EIA sub area 3) October; 22nd (EIA sub area 1) & 28th (EIA sub area 3) November; 20th (EIA sub area 1) & 21st (EIA sub area 2) December 2022; 13th (EIA sub area 1) & 14th (EIA sub area 2) January; 13th (EIA sub area 3) & 20th (EIA sub area 1) February and 17th (EIA sub area 1) & 18th (EIA sub area 2) March 2023. See Figure 1 for site locations. Traps were operated from dusk for a minimum of three hours to cover the main post-dusk flight. Abiotic data for all 2022-2023 field sessions was recorded (see Appendix 1 for site, trap and abiotic data).

It is known that a number of abiotic factors, including temperature (actual and rate of change), wind, humidity, cloud cover, rain, lunar cycle and air pressure significantly impact adult moth activity (e.g. Persson, 1976; Barlow, 1982: 26; Bowden, 1982; Waring, 1990; Muirhead-Thompson, 1991; Roberts, 1996; Yela & Holyoak, 1997; Young, 1997: 201; Butler *et al.*, 1999; Fetnassi *et al.*, 2022). Consequently, based upon these abiotic factors, and the fieldwork undertaken for Kendrick (2002) in the local Hong Kong conditions, stringent criteria should be met whilst undertaking moth recording in Hong Kong using light traps, with the wind less than a Beaufort force 4 and not gusting above f. 5; the temperature not falling more than 0.5°C per hour; preferably between 28°C and 12°C at dusk; relative humidity above 50%; and the lunar phase not at full, nor up to three nights either side thereof, unless there is 100% thick cloud cover or fog. Where weather conditions were favourable (mild, calm, cloudy and damp), the traps were operated longer, up to as far as midnight, to record later flying taxa (Williams, 1935, Nowinszky *et al.*, 2007), such as Saturniidae and Notodontidae (see Barlow, 1982). Searching by torchlight for adult moths, pupae and larvae was also undertaken in the sub areas. Traps were not operated within 4 days of a full moon.

Species Documentation

Contents of each trap (species present and abundance of each species) were identified in situ and documented by digital voice recorder at the end of each session. Species were photographed where possible, with some species not recognised in situ having voucher specimens retained for subsequent provisional identification and eventual deposition in the fauna collection of Kadoorie Farm & Botanic Garden [KFBG], Tai Po. Identifications are based upon the KFBG collections, with reference to publications on the local, regional and where necessary, global, moth literature (in excess of 1,000 publications) as part of the work ongoing for the forthcoming *Illustrated Guide to the Moths of Hong Kong* (Kendrick, *in prep*); key works include *The Moths of Borneo, Fauna Sinica Insecta*, *Moths of Wu Tong Shan, Moths of Nanling National Nature Reserve, Guide Book to Insects in Taiwan, Moths of Thailand, Moths of Nepal* and *Moths (Insecta: Lepidoptera) of Hong Kong*, as well as the collections at the NHMUK, Nankai University, BPBM, Ottawa, CAS, NMNH Washington and online resources (e.g. Oxford Univeristy NMH) upon which the identifications for the HK moth fauna are based. Further key works are listed in the References & Bibliography.

Species Conservation Assessment

Each recorded species has been assessed for its status (rarity / commonness) at a local and, where significant, global level (following IUCN (2001) criteria), as well as its distribution in Hong Kong: widespread (w), local (l), or restricted (rd) (Kendrick, 2002: 340 and used in Kendrick, 2007 as well as for the HKSAR Biodiversity Strategy & Action Plan 2016-2021). The degree of a species' local rarity in Hong Kong is defined on a seven point scale based upon the number of observations of each species in Hong Kong: very rare (vr) (one or two observations of a species); rare (r) (three to six observations); scarce (s) (seven to 13); uncommon (u) (14 to 27); frequent (f) (28 to 69); common (c) (70 to 229) and very common (vc) (230 or more), where the number of observations is based upon the percentage of recording events undertaken in Hong Kong (following Walthew (1997) for the butterflies of Hong Kong) between 2006 and 2019. Trends for species (Table 3) were assessed by comparing each species' conservation status from the period 1993-2005 to the more recent data from 2006-2019.

[continued, page 5]

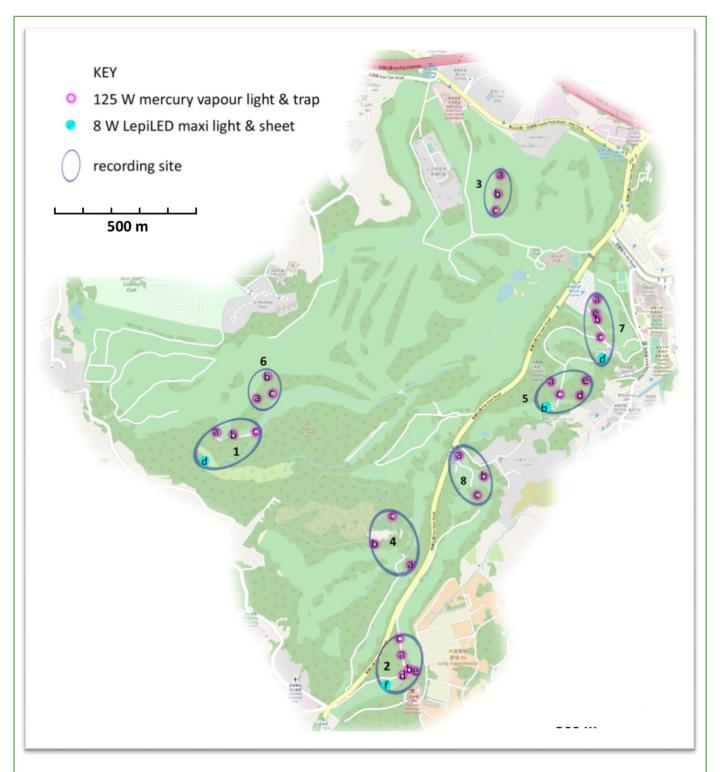


Figure 1.

Moth recording sites for the C & R Wildlife moth surveys at Fanling Golf Course of 2018 (sites 1 to 6), 2020 (sites 2, 5, 7) and 2022-2023 (sites 5(c,d,e); 7(a,c,e) & 8).

Species Conservation Assessment [continued from page 3]

The "data deficient" category represents species that are either:

- (1) in a complex group of externally identical or almost identical species, which are identifiable with certainty to species rank only by dissection of the reproductive organs or molecular analysis, both approaches are beyond the scope of this study due to time constraints, or
- (2) species whose identity has not yet been confirmed as the species is newly or recently recorded in Hong Kong, again the time or cost of confirming the identity is beyond the scope of this study, or
- (3) one of a species complex that can now be identified to species, which has previously been confused with other similar taxa and recorded as such, so that past data for the species is not reliable for the purpose of status and distribution analysis.

Sub Area Assemblages

The distribution of species across the four EIA sub areas using the 2020 and 2022-2023 data is investigated through a simple breakdown of shared species between sub areas, unique species per sub area and overall number of species recorded in the EIA sub areas.

Is the collected data representative of the moth fauna at Fanling Golf Club?

Investigation of the log-normal distribution of species and their abundance (see Magurran, 1988) is required to determine if the recording effort for the surveys is sufficient to have found all the moth species to be found at Fanling Golf Course. A reasonably complete assemblge of taxa should have a normally distributed (bell shaped) data set when classes (octaves) of abundance of species is plotted. Small samples have "veiled" distributions that represent only a part of the normal distribution curve.

Results

The 2022-2023 dry season moth survey at Fanling Gold Course (EIA sub areas 1, 2 & 3) found 323 moth species (1629 individuals) in total (Table 4). All three sub areas had significant numbers of species of conservation concern, including 12 species only found in Hong Kong (Table 1), undescribed species and species whose global populations are strongest in Hong Kong (Table 2, 16 species), species new to Hong Kong that have only been seen at Fanling Golf Course, and species for which Fanling Golf Course holds the strongest Hong Kong populations (Table 3, six species).

Of the 323 species recorded, 109 had not been recorded in the 2018 or 2020 surveys. The total number of species documented in the three surveys is 729, of 6654 individual moths. Within the four EIA sub areas, the total number of species documented rises to 612 species, with 4479 individuals recorded.

Of the scientifically described species found in the 2022-2023 dry season survey, 12 are endemic to (i.e. only known to occur in) Hong Kong (Table 1) and two are nearly endemic to Hong Kong (Table 2), all 14 of which meet International Union for the Conservation of Nature [IUCN] Red List criteria for species at risk, or greater threat, of extinction globally. There are a further 14 species of international (Table 2) and 6 species of local conservation concern (Table 3), giving a total of 34 moth species of conservation concern found. A further 14 species are data deficient, suspected to be undescribed species currently not known outside Hong Kong. Adding the data from the 2018 and 2020 surveys, there have now been 107 moth species of conservation concern recorded at Fanling Golf Course, comprising 57 species meeting IUCN Red List criteria for globally threatened species, and a further 50 species that are locally either (i) very rare and restricted to three or fewer sites; (ii) rare and restricted or (iii) rare and found from three or fewer zones of Hong Kong.

The full list of species and observed data for the 2018, 2020 and 2022-2023 surveys is given in Appendix 2.

Table 1.

Described moth species **endemic to Hong Kong** found in the 2022-2023 dry season survey of the Old Course (EIA sub areas 1, 2 & 3) at Fanling Golf Club

			EIA sub		2018-20)23 data
	Family Subfamily	Species	area(s); abundance	HK status & distribution	abundance	EIA sub area(s)
prov	isional IUCN global Re	d List status: Critically Endanger	ed (CR)			
1	Oecophoridae Oecophorinae	Stereodytis brevignatha Wang & Kendrick, 2009	3; 1	scarce, restricted HK BSAP 2016 Endangered	13	3 & 4
prov	isional IUCN global Re	d List status: Endangered (EN)				
2	Cosmopterigidae Scaeosophinae	<i>Scaeosopha hongkongensis</i> Li & Zhang, 2012	2; 1	scarce, widespread meets HK BSAP 2016 Vulnerable criteria	1	2
3	Erebidae Hypenodinae	Fustius sterlingi Fibiger, 2010	1; 1 2; 3	scarce, widespread meets HK BSAP 2016 Vulnerable criteria	6	1, 2, 3 & 4
4	Geometridae Larentiinae	Spiralisigna gloriae Galsworthy, 1999	1; 1	frequent, widespread HK BSAP 2016 Data Deficient	1	1
prov	<i>visional</i> IUCN global Re	d List status: Vulnerable (VU)				
5	Cosmopterigidae	Scaeosopha hongkongensis Li & Zhang, 2012	2; 1	Uncommon, widespread meets HK BSAP 2016 Vulnerable criteria	1	2
6	Stathmopodidae	Stathmopoda paradiplasis Wang & Guan, 2021	2; 1	Uncommon, widespread meets HK BSAP 2016 Vulnerable criteria	1	2
prov	isional IUCN global Re	d List status: Near Threatened (N	T)			
7	Erebidae Herminiinae	<i>Luceria striata</i> Galsworthy, 1997	2; 1	frequent, widespread HK BSAP 2016 Near Threatened	1	2
8	Erebidae Hypenodinae	Bellulia galsworthyi Fibiger, 2010	3; 1	common, widespread HK BSAP 2016 Least Concern	1	3
9	Erebidae Pangraptinae	Pangrapta bicornuta Galsworthy, 1997	2; 1	frequent, widespread HK BSAP 2016 Least Concern now meets HK BSAP Near Threatened criteria	3	2
10	Geometridae Larentiinae	<i>Sigilliclystis kendricki</i> Galsworthy, 1999	1; 3 2; 1 3; 3	common, widespread HK BSAP 2016 Least Concern now meets HK BSAP Near Threatened criteria	15	1, 2, 3 & 4
11	Noctuidae Noctuinae	Athetis hongkongensis Galsworthy, 1997	1; 2	common, widespread HK BSAP 2016 Least Concern now meets HK BSAP Near Threatened criteria	1	1, 4
12	Oecophoridae Oecophorinae	<i>Stereodytis acutidens</i> Wang & Kendrick, 2009	1; 2 2; 1 3; 34	frequent, widespread HK BSAP 2016 Vulnerable	10	1, 2, 3 & 4

Table 2.

Moth species of international conservation concern, other than described species endemic to Hong Kong,

found in the 2022-2023 dry season survey of the Old Course (EIA sub areas 1, 2 & 3) at Fanling Golf Club

			EIA sub		2018-20	23 data
	Family Subfamily	Species	area(s); abundance	HK status & distribution	abundance	EIA sub area(s)
prov	isional IUCN global Red	List status: Critically Endangered	(CR)			
1	Pterophoridae Pterophorinae	Pterophorinae genus & sp. indeterminate A	1; 1	very rare, restricted. sp. nov ., new GLOBAL record	1	1
2	Tortricidae Olethreutinae	Enarmoniini genus & sp. indeterminate D	1; 1	very rare, restricted. sp. nov ., new GLOBAL record	1	1
3	Crambidae Crambinae	<i>Microchilo</i> sp. indeterminate near <i>inouei</i>	3; 1	very rare, restricted. sp. nov ., probable endemic to HK	1	3
prot	isional IUCN global Red	List status: Endangered (EN)				
4	Crambidae Spilomelinae	<i>Agrotera</i> sp. indeterminate C	3; 1	rare, local endemic to HK meets HK BSAP Endangered criteria possible sp. nov.	1	3
5	Gracillariidae Ornixolinae	<i>Epicephala</i> sp. indeterminate D	1; 1	rare, local endemic to HK meets HK BSAP Endangered criteria possible sp. nov.	1	1
6	Pyralidae Phycitinae	Phycitini sp. indeterminate A of 20230318	3; 1	rare, restricted. probable sp. nov., endemic to HK	1	3
prot	isional IUCN global Red	List status: Near Threatened (NT)				
7	Erebidae Erebinae	Ugia purpurea Galsworthy, 1997	2; 4 3; 3	very common, widespread near endemic; globally restricted main known global population in HK meets HK BSAP Near Threatened criteria	7	2, 3, 4
8	Erebidae Erebinae	Ugia sp. A undescribed	2; 5	uncommon, widespread; near endemic to HK meets HK BSAP Vulnerable criteria	2	2, 4
9	Erebidae Hypenodinae	<i>Lysimelia lucida</i> Galsworthy, 1997	1; 2	common, widespread near endemic; globally restricted main known global population in HK HK BSAP 2016 Least Concern	6	1, 2
10	Erebidae Arctiinae Lithosiini	Lithosiini genus & sp. indeterminate A	1; 1	scarce; local; possibly undesribed, possibly endemic to HK meets HK BSAP Near Threatened criteria	1	1
11	Gelechiidae Dichomeridinae	Dichomeris zonata Li & Wang, 1997	3; 1	common, widespread; globally restricted main known global population in HK meets HK BSAP Near Threatened criteria	2	2, 3
12	Geometridae Geometrinae	Lophophelma calaurops (Prout, 1912)	2; 1 3; 2	common, widespread; globally restricted, main known global population in HK meets HK BSAP Near Threatened criteria	9	2, 3, 4
13	Crambidae Spilomelinae	<i>Niphopyralis</i> sp. indeterminate A	1; 1	uncommon, widespread; possibly undesribed, possibly endemic to HK meets HK BSAP Near Threatened criteria	2	1
14	Crambidae Spilomelinae	Palpita minuscula Inoue, 1996	1; 2	uncommon, widespread; globally restricted, main known global population in HK HK BSAP 2016 Vulnerable, now meets HK BSAP Near Threatened criteria	3	1
15	Crambidae Spilomelinae	Palpita parvifraterna Inoue, 1999	1; 1	common, widespread; globally restricted, main known global population in HK meets HK BSAP Near Threatened criteria	3	1
16	Tortricidae Olethreutinae	Enarmoniini gen. & sp. C undescribed	1; 1 2; 2	frequent, widespread; endemic to HK meets HK BSAP Near Threatened criteria	3	1, 2

Table 3.

Other moth species of **local (Hong Kong) conservation concern with uncertain, decreasing or strongly decreasing local trend in status & distribution** found in the 2022-2023 dry season survey of the Old Course (EIA sub areas 1, 2 & 3) at Fanling Golf Club

			Kuznetzov, 1988	one observation of this species.		
6	Tortricidae	Olethreutinae	Peridaedala sp. near tonkinana	Decreasing; only site in HK with more than	14	2
			(Wileman & West, 1928)	first HK record for 7 years		
5	Nolidae	Nolinae	Manoba melancholica	Decreasing;	1	2
4	Noctuidae	incertae sedis	Elusa sp. near subjecta (Hampson, 1909)	Data Deficient; new to HK in 2022	5	1, 2
HK	status & distributio	n: r, l – rare & local	(found at four or more sites in t	hree or fewer districts) (2006-2019 da	ta)	
3	Crambidae	Spilomelinae	Conogethes haemactalis	3rd HK record	1	3
3	Erebidae	Pangraptinae	Pangrapta sp. near suaveola (Staudinger, 1888)	new to HK	2	1
			(Hampson, 1909)			
1	Noctuidae	incertae sedis	Elusa sp. near ustula	new to HK	1	1
HK	status & distributio	n: vr, rd - very rare	(3 or less records) & restricted t	o 3 or fewer sites in Hong Kong (200	6-2019 data)	
	Family	Subfamily	Species	2006-2019 data)	abundance	area(s)
				(comparing 1993-2005 data to		EIA sub
				HK status & distribution trend		

Numerical representation of species assessments

For all the data from the 2022-2023 survey, as well as the 2018 and 2020 surveys, Table 4 depicts the number of species in each category of species' status, including beakdowns for all EIA sites. It is of note that **all** EIA sub areas have species of international conservation concern that are endemic (only found in) to Hong Kong.

Species are not distributed evenly throughout Fanling Golf Course. At the four EIA sub areas, different species assemblages were found. Over half of the species (348 of 612 spp) seen were found at only one of the four sub areas, whereas only six percent (38 species) were found at all four sub areas (Figure 2). These data strongly suggest that there is landscape scale use of the whole of the Old Course by the moth assemblages found within each EIA sub area, and that the ecological functionality of each sub area would be greatly diminished without the other sub areas, as well as species being lost.

Recording Effort

Figure 3 (2.10a of Magurran, 1988) illustrates the principle of log-normal distribution and veiled distributions. A fully documented fauna (A) has a normally distributed species abundance log plot, whereas under-recorded assemblages have "veiled" data that comprise only the right hand end or part of the distribution, and further sampling increases the completeness of the distribution curve

All the moth data samples for the Fanling Golf Course survey are strongly veiled (Figure 4), indicating that no more than half, and probably far less than half, the species assemblages have been sampled

Table 4.

Count of species in each conservation status category for all C & R Wildlife moth surveys at Fanling Golf Course, broken down by survey year and EIA sub area

HK Status ¹ & Distribution ² (2006-2019 data)	ALL EIA 1	EIA 1 (22-23)	ALL EIA 2	EIA 2 (22-23)	ALL EIA 3	EIA 3 (22-23)	ALL EIA 4	2018	2020	2022- 2023	ALL DATA
Species of Global conservation co	oncern										
NEW, HK endemic, vr, rd	1	1								1	1
endemic; r, l					1	1				1	1
endemic; s, rd			1		1	1			1	1	1
endemic; s, l	1	1						1		1	1
endemic; s, w	1	1	2	1				1	2	1	2
endemic; u, w			2	2					1	2	2
endemic; f, w	1	1	3	3	1	1	1	1	2	3	4
endemic; c, w	2	2	2	1	2	2	2	2	3	3	4
near endemic; c, w	1	1	1						1	1	1
near endemic; vc, w			1	1	1	1	1	1	1	1	1
Species of Local conservation cor	ncern										
poss HK end. vr, rd					1	1				1	1
vr, rd - NEW HK	3	3	2	1			1		2	4	6
vr, rd					1	1	1	4		1	5
r, rd	3		9	1			4	10	13	1	22
r, l	6	2	17	4	3	3	6	13	15	7	28
Species considered at local risk o	f threat				•	<u>,</u>					
r, w								2		0	2
s, rd			2					1	1	0	2
s, l	16	10	21	14	4	4	11	8	23	23	46
S, W	9	5	22	5	3	3	14	30	25	10	52
Species currently not considered	threaten	ed									
u, l	5	3	11	3	5	5	7	4	13	10	23
u, w	33	21	44	14	15	15	20	48	48	40	104
u, migrant?	1	1	1	1	1	1	1		1	1	1
f, l	1		2	1			1	2	3	1	3
f, w	70	43	105	36	35	35	81	115	110	81	195
C, W	79	52	109	58	45	45	79	94	116	91	160
vc, w	20	16	22	15	11	11	16	19	25	20	26
intr. c, w	1	1	1	1	1	1	1	1	1	1	1
intr.; vc, w	1	1							1	1	1
Species status is data deficient											
dd	8	8	10	8	1	1	1	19	2	14	35
dd (c, w)	1				1	1	1	1	1	1	1
Total count of species	264	173	390	170	133	133	249	377	411	323	729

1: vr = very rare; r = rare; s = scarce; u = uncommon; f = frequent; c = common; vc = very common

2: rd = restricted; l = local; w = widespread

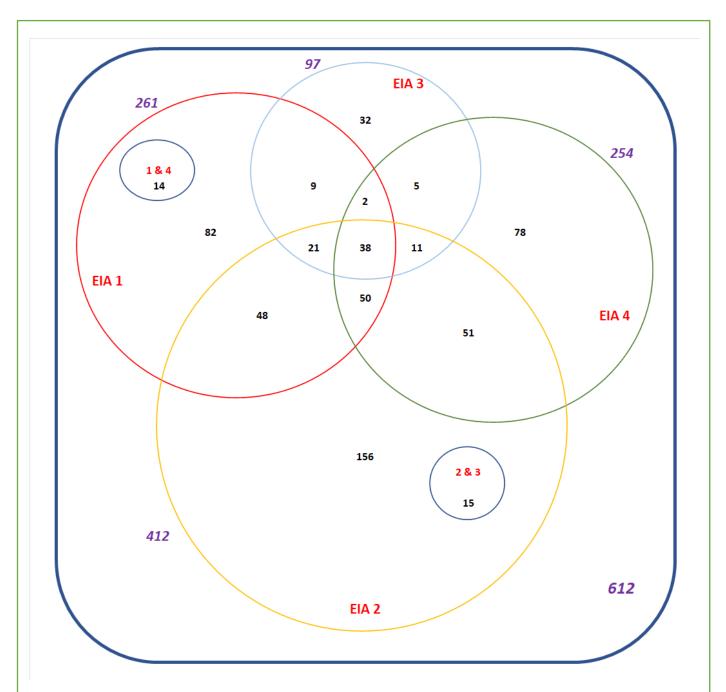


Figure 2.

Venn diagram to illustrate the distribution of species amongst the four EIA sub areas on the Old Course at Fanling Golf Course. Data for 2020 and 2022-2023 surveys combined. The large numbers outside each main circle represent the total number of species seen in that EIA sub area. Numbers within overlapping sections represent the number of species shared by the represented EIA sub areas. The two small circles, for which the shared sub areas are defined are placed within the main circle of the sub area with the higher number of species recorded.

Circle size and overlapping portion size are indicative of the number of shared species, not an exact representation.

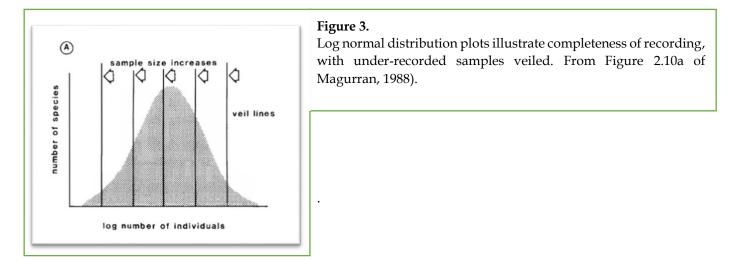
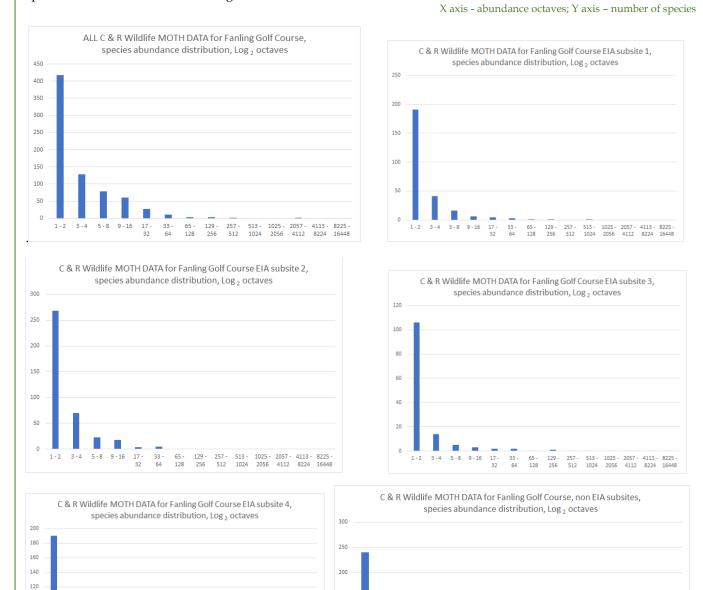


Figure 4.

Log-normal distribution plots of the species-abundance distribution data from the 2018, 2020 and 2022-2023 moth surveys by C & R Wildlife at Fanling Golf Course. All plots are heavily veiled, strongly suggesting many more species occur in all areas of Fanling Golf Course than have been documented so far.



150

100

50

0

1-2 3-4

1025 - 2057 - 4113 - 8225 -2056 4112 8224 16448

65 - 129 - 257 - 513 -128 256 512 1024

5-8 9-16

17 - 33 -32 64

100 80

> 60 40

> 20

0

1 - 2

129 - 257 -256 512 513 -1024 1025 - 2057 -2056 4112

33 - 65 -64 128

9 - 16

8225 -16448

4113 -8224

Discussion

Again in 2022-2023, as with the combined data from the 2018 and 2020 surveys, the number of species of conservation concern was found to be higher in less fragmented woodland: on the Old Course, highest at the woodland between Old 3 and Old 4 (EIA sub area 2). The total species richness of a site followed the same pattern. It is of great concern that any development construction in EIA sub area 1 would result in the loss of habitat used by species of global conservation concern, as well as greatly impact sub area 2 and the even greater concentration of species there. The distribution of species, not just those of conservation concern, throughout the whole of the EIA area as well as some assemblages being restricted to each sub area, is indicative of ecologically functioning landscape for moths, and subsequently for all the flora and fauna that are reliant upon, or utilise to a greater extent, the moths, and their eggs, larvae and pupae, as food and nutrient processors, as well as pollinators.

If the weather had been more suitable for moth recording (see Methods for criteria, but in essence: warmer, less windy, more humid, cloudy or foggy) for at least four of the 12 recording sessions (counts of less than 100 individual moths), the species and individual abundance counts would likely be higher. Weather conditions play an important role in the viability of a moth's activity (see Methods); too hot or too dry and the moth dessicates, too cold and it can't warm up the wing muscles for flight. As per the methodology undertaken for this study at Fanling Golf Course, as well as for moth recording elsewhere in Hong Kong (e.g. Kendrick, 2010; Kendrick, 2021), all moth recording with light trapping for environmental and ecological impact assessment in Hong Kong should meet all the following abiotic conditions in order to best investigate the presence and abundance of moth species utilising any particular site:

- (6) Record moths by light trapping with the wind average no greater than a Beaufort force 4 **and** not gusting above f. 5;
- (7) the temperature not falling more than 0.5°C per hour;
- (8) the temperature preferably between 28°C (noting that this temperature has historically been the upper threshold of adult moth activity) and 12°C at dusk;
- (9) relative humidity above 50%;
- (10) and the lunar phase not at full, nor up to three nights either side thereof, unless there is 100% thick cloud cover or fog.

Further, **the recording effort for environmental and ecological impact assessment should be extended to all night recording**, with abiotic data logged at the start, end and lowest temperature point of each and every session, so as to document the moth species whose activity is restricted to later parts of the night (e.g. Ma & Ma, 2012).

In Hong Kong it appears that post-dusk and pre-dawn are the most active times *in general*, although some groups, such as the Saturniidae, and winter flying taxa like *Cypodes chinensis* (Sphingidae, Smerinthinae) and Xylenini species (Noctuidae, Noctuinae) are active at very much more restricted and specific times late into the night. Fieldwork undertaken at Kadoorie Farm & Botanic Garden to document the moth fauna there (Kendrick, 2005, 2009), from 1996 to 2011, was usually from dusk through to around midnight, though on the occasions that recording continued to dawn, a large increase in species recorded post-midinight was always evident. The same pattern was observed at The University of Hong Kong, Kadoorie Centre, from 1996 to 1999 (Kendrick, 2002) and occurs in Tai Po (e.g. Kendrick, 2010) and Lam Tsuen Valley (*pers. obs.*), with recording from 2002 to date always finding substanially more species added to a night's recording if the recording were extended from around midnight through to dawn.

Additionally, moon phase is known to impact moth activity (see Field Methods and bibliography), with the best results from light-trapping occurring around the new moon, or on cloudy nights when the brighter phases of the moon are obscured. Similarly, it is now understood that artificial night lights from human activity are greatly detrimental to nocturnal fauna, with moths amongst many groups badly affected by both background light pollution and individual lights (see bibliography, especially Frank, 1988; Longcore & Rich, 2004; The Royal Commission of Environmental Pollution, 2009; Wakefield *et al.*, 2018; Boyes *et al.*, 2020).

In the context of other sites with moth data in Hong Kong, a total of 733 species is quite high for the amount of recording undertaken. The total of 57 species of international conservation concern is high, making the site of

international conservation significance for the moth fauna, notwithstanding the internationally significant wet forest flora. Extending moth recording at Fanling Golf Course to full night surveys will enable the proper documentation of late-night flying species.

The final discussion point is placed into the context of the Fanling Golf Course EIA Study Brief, which stated that in Appendix H, paragraph 2 "The assessment shall include the following major tasks" (iv) "establish the ecological profile of the assessment area . . . Major information to be provided shall include: "(c), "ecological characteristics of each habitat type such as size, vegetation and/or substrate type, species present, dominant species found, species diversity and abundance of major taxa groups, community structure, seasonal patterns, ecological value, interdependence of the habitats and species, and presence of any features of ecological importance" and (e) "species found that are rare, endangered and/or listed under local legislation, international conventions for conservation of wildlife/habitats or Red Data Books.".

It is noted here that this C & R Wildlife report should not be considered of sufficient depth to encompass all of (c) above, actually only superficially dealing with the raw number of species seen and their abundance, not attempting to analyse the true alpha or beta diversity of moths at Fanling Golf Course, nor placing into local context (gamma diversity) the findings, nor, indeed, any of the other ecological metrics required in the Study Brief. Point (e) is fully addressed, based on the findings of all three moth surveys (2018, 2020 and 2022-2023) undertaken by C & R Wildlife at Fanling Golf Course.

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These findings are to assist with immediate conservation issues at Fanling Golf Course and may be cited as:

Kendrick, R.C., 2023 April 27. 2022-2023 Dry Season Moth Survey at Fanling Golf Course, Hong Kong: key findings and overall findings incorporating 2018 & 2020 surveys. C & R Wildlife, Tai Po. 25 pp.



Appendix 1

Abiotic data recorded at the start and finish of each sub area and traps' sessions for the 2022-2023 dry season moth survey at Fanling Golf Course.

			Start							Finish							
	FGC				relative			d (Beaufo	ort Scale)			relative			nd (Beaufo	ort Scale)	
	recording	EIA		temp	humidity	cloud	strength f.	gusting to / f.	direction		temp	humidity	cloud	strength f.	gusting to / f.	dia states	
Date	site 7a	subsite	time	°C	%	cover %				time	°C	%	cover %			direction	duration
2022-10-26		1-#1	18:00	26.4	60	0	2	3	east	23:25	21.5	89	0	0	0	[e.s.e.]	05:25
2022-10-20	7e 7c	1-#2 1-#3	18:00 18:00	23.8 23.5	62 60	0	1	2	east north-east	23:00 22:25	21.9 22.1	89 85	0	0 2	2	east by s.e.	05:00
		1-#3 3-#1	18:00	23.5	52	75	2					85 51	U 85	2	3 5	east by s.e.	04:25
2022-10-31	8a 8b	3-#1 3-#2	18:05	26.3		75	1	4	north by n.e.	23:20	24.3	51	80	2	6	north by n.e.	05:15 04:35
2022-10-51	80 80	3-#2 3-#3	18:05	26.3	52 52	75 75	1	4	north by n.e.	22:40	24.3 25.8	42	80	3	6	north by n.e.	
	80 7a				93		1	2	north by n.e.	22:10				2	3	n.e.	04:05
2022-11-11		1-#1	17:45	23.5		100			east by s.e.	22:30	23.2	95	100		3	east	04:45
2022-11-11	7e 7-	1-#2	17:45	23.6	95	100	0	1	east by s.e.	22:15	23.1	97	100	1	3 4	east	04:30
	7c	1-#3	17:45	23.3	94	100	2	3	east by s.e.	22:00	22.9	95	100	2	4	east	04:15
2022-11-28	8a	3-#1	17:45	25.8	89	15	0	-	[south]	22:45	23.6	97	0	1		south-east	05:00
2022-11-28	8b	3-#2	17:45	25.8	89	15	0	0	[south]	22:15	23.2	97	0	-	0	[s.e.]	04:30
	8c	3-#3	17:45	25.8	89	15	0	0	[south]	21:55	23.8	96	0	0	0	[s.e.]	04:10
2022-12-20	7a	1-#1	17:45	16.9	80	50	0	1	north-east	22:30	14.1	91	100	0	0	[n.e.]	04:45
2022-12-20	7e	1-#2	17:45	16.8	84	50	0	0	[n.e.]	22:20	14.9	89	100	0	0	[n.e.]	04:35
	7c	1-#3	17:45	16.8	78	50	0	1	north-east	21:55	14.9	92	100	0	1	north-east	04:10
2022-12-21	5c	2-#1	18:00	14.2	62	0	0	1	north-east	21:35	9.4	87	0	1	2	north-east	03:35
2022-12-21	5e	2-#2	18:00	14.5	65	0	0	1	north-east	21:50	9.2	86	0	0	1	north-east	03:50
	5d	2-#3	18:00	14.3	60	0	0	1	north-east	21:45	9.1	85	0	0	1	north-east	03:45
0000 01 10	7a	1-#1	17:45	22.6	91	100	0	1	south-east	22:45	20.7	99	100	0	2	south-east	05:00
2023-01-13	7e	1-#2	17:45	22.8	94	100	0	1	south-east	22:35	20.8	99	100	0	1	south-east	04:50
	7c	1-#3	17:45	22.6	90	100	0	1	south-east	22:10	20.6	98	100	1	2	south-east	04:25
	5c	2-#1	18:05	21.9	85	15	0	0	[n.e.]	23:25	18.5	94	15	0	0	[n.e.]	05:20
2023-01-14	5e	2-#2	18:05	22.0	87	15	0	0	[n.e.]	22:20	18.8	94	15	0	0	[n.e.]	04:15
	5d	2-#3	18:05	21.8	85	15	0	0	[n.e.]	21:55	18.9	92	15	0	0	[n.e.]	03:50
	8a	3-#1	18:15	24.2	82	100	0	0	[east]	22:50	21.5	94	100	0	1	east	04:35
2023-02-13	8b	3-#2	18:15	24.1	79	100	0	0	[east]	22:25	21.3	95	100	2	3	east	04:10
	8c	3-#3	18:15	24.2	85	100	0	0	[east]	22:00	21.2	96	100	1	2	east	03:45
	7a	1-#1	18:30	21.3	59	0	1	2	east by n.e.	22:30	17.0	79	0	2	4	east by n.e.	04:00
2023-02-20	7e	1-#2	18:30	21.5	65	0	0	0	[e.n.e.]	22:00	17.7	84	0	1	3	east by n.e.	03:30
	7c	1-#3	18:30	21.2	58	0	0	0	[e.n.e.]	21:40	17.9	80	0	2	4	east by n.e.	03:10
	7a	1-#1	18:40	22.2	75	0	1	2	east by n.e.	22:05	18.3	90	0	2	3	east	03:25
2023-03-17	7e	1-#2	18:40	22.3	78	0	0	1	east by n.e.	23:35	18.5	94	0	0	0	[east]	04:55
	7c	1-#3	18:40	22.2	77	0	1	2	east by n.e.	22:50	18.6	95	0	1	2	east	04:10
	5c	2-#1	18:50	23.3	66	100	2	4	east by s.e.	23:40	22.1	88	100	0	2	east by s.e.	04:50
2023-03-18	5e	2-#2	18:50	23.4	70	100	1	3	east by s.e.	23:00	21.0	89	100	0	1	east by s.e.	04:10
	5d	2-#3	18:50	23.5	70	100	2	3	east by s.e.	22:25	21.4	90	100	1	4	east by s.e.	03:35

Appendix 2

Checklist of species and summary abundance data for each species from 2018, 2020 and 2022-2023 C&R Widlife moth surveys at Fanling Golf Course

Superfamily	Family	Subfamily	Tribe	Species binomial / morphospecies label	Global Status	HK Status & Distribution (1993-2005)	HK Status & Distribution (2006-2019)	trend	2018	02.02	2022-2023	ALL years	new spp in 2022-2023	EIA 1	EIA 2	EIA 3	EIA 4	non-EIA
ADELOIDEA	HELIOZELIDAE			Heliozela / Antispila sp. A	not evaluated	dd	r, rd	dd	0	4	0			0	4	0	0) O
ALUCITOIDEA	ALUCITIDAE			Pterotopteryx spilodesma	not threatened	u, w	u, w	stable	0	1	C	1	1 0	0	0	0	1	<mark>، 0</mark>
BOMBYCOIDEA	BOMBYCIDAE	Bombycinae	Bombycini	Ernolatia moorei	not evaluated	f, w	f, w	(blank)	0	0	1	. 1	1 1	0	0	1	0) 0
				Ocinara albicollis	not threatened	f, w	c, w	increasing	0	1	C	1	1 0	1	0	0	0	, 0
				Trilocha varians	not threatened	f, w	c, w	increasing	3	3	7	13	з о	3	1	5	1	<mark>د ع</mark>
	SATURNIIDAE	Saturniinae	Attacini	Attacus atlas (pupa)	not threatened	u, w	u, w	(blank)	0	0	2		2 1	0	0	2	0) 0
			Saturniini	Saturnia pyretorum		c, w	c, w	(blank)	0	0	5		5 1	1	2	2	0	0
	SPHINGIDAE	Macroglossinae	Macroglossini	Acosmeryx anceus	not evaluated	6.1	c, w	strongly increasing	0	1	c	1	1 0	1	0	0	0	0 0
				Acosmeryx sericeus	not evaluated		u, I	decreasing	0	1	0	1	1 0	1	0	0	0	0 0
				Eupanacra busiris	not evaluated	s, I	s, w	stable	0	1	c	1	1 0	0	0	0	1	1 0
				Eupanacra mydon	not threatened		f, w	decreasing	1	1	c		2 0	0	1	0	1	0
				Hippotion rosetta	not threatened		c, w	stable	0	1	0		1 0	0	0	0	1	
				Macroglossum corythus	not evaluated		u, w	decreasing	2	-				1	0	2	0	
				Macroglossum divergens ssp. heliophila		-4	c, w	stable	1	1			4 0		0	2	0	
				Macroglossum fritzei		vc. w	c, w	decreasing	19	-		26		2	1	1	3	
				-								-		0	-	1		
				Macroglossum neotroglodytus			s, w	stable	2	1	0			0	1	0	0	
				Macroglossum pyrrhosticta	not evaluated		c, w	increasing	0	1	0			1	0	0	0	
				Neogureica hyas	not evaluated	s, I	f, w	increasing	3	0	0		3 0	0	0	0	0	
				Pergesa acteus	not evaluated	u, w	f, w	increasing	0	1	0	1	1 0	0	0	0	1	
				Sphingonaepiopsis pumilio	not evaluated	vr, rd	vr, rd	stable	1	0	0	1	1 0	0	0	0	0	1
		Smerinthinae	Sichiini	Marumba dyras	not evaluated	vc, w	vc, w	stable	5	1	4	10	0 0	2	1	1	1	. 5
		Sphinginae	Acherontiini	Acherontia lachesis	not evaluated	f, w	c, w	increasing	3	0	0	3	з о	0	0	0	0	3
			Sphingini	Psilogramma discistriga	not evaluated	s, w	u, w	increasing	0	1	2	1	3 0	1	0	0	2	2 0
CHOREUTOIDEA	CHOREUTIDAE	Choreutinae		Choreutis ophiosema	not evaluated	s, I	c, w	strongly increasing	2	0	2	4	4 O	0	1	1	0	2
				Choreutis sexfasciella		s, I	f, w	strongly increasing	0	0	1	1	1 1	0	0	1	0	0
COSSOIDEA	BRACHODIDAE	Brachodinae		Nigilgia anactis	not evaluated	s, w	s, w	stable	2	0	0		2 0	0	0	0	0	2
		Phycodinae		Phycodes minor	not evaluated	s, I	f, w	increasing	1	0	0	1	1 0	0	0	0	0	1
	COSSIDAE	Zeuzerinae		Polyphagozerra coffeae	not threatened	c, w	f, w	decreasing	0	2	0		2 0	0	1	0	1	1 0
GELECHIOIDEA	AUTOSTICHIDAE	Autostichinae		Autosticha calceata	not evaluated	c, w	c, w	stable	0	1	0	1	1 0	0	0	0	1	1 0
				Ptochoryctis sp. nr. anguillaris	pIUCN VU	r, rd	s, I	increasing	0	4	(4 0	0	4	0	0	0
		Periacminae	Meleonomini	Meleonoma rostellata	not evaluated		u, I	increasing	1	2	0			0	2	0	0	
		rendenninge	merconomin	Meleonoma sp indet.			dd	dd	0	0				1	1	0	0	
				Variacma sp. A	not evaluated	not evaluated		dd					2 0	0	0	0	0	
	BLASTOBASIDAE	Blastobasinae		Blastobasis divulgata					2					2	2	1	0	
					not threatened		c, w	stable	0					-	-	-		
	COSMOPTERIGIDAE	Chrysopeleiinae		Gisilia sp. nr. thoracista			c, w	stable	1		9	-		-	9	2	0	
		Cosmopteriginae		Anatrachyntis sp. A	PIUCN NT	u, w	f, w	increasing	1	0	0		1 0	0	0	0	0	
				Anatrachyntis sp. B	pIUCN VU	r, rd	r, rd	stable	0	1	C				0	0	0	
				Cosmopterigidae genus & sp. M	PIUCN NT	not present	u, w	increasing	2	0	0			0	0	0	0	
				Labdia oxychlora	not threatened	c, w	f, w	decreasing	3	4	2	-	9 0	1	3	0	2	
				Labdia semicoccinea	not threatened	s, I	s, I	stable	0	3	2		5 0	1	3	1	0	0
				Labdia sp. B nr. citracma	not evaluated	r, 1	r, 1	stable	0	1	4		5 0	1	3	0	1	. 0
				Macrobathra sp. A nr. nomaea	pIUCN NT	f, w	u, w	decreasing	1	0	C	1	1 0	0	0	0	0) 1
		Scaeosophinae		Scaeosopha hongkongensis	pIUCN VU	r, rd	endemic; u, w	increasing	0	0	1	. 1	1 1	0	1	0	0	0 0
				Scaeosopha sp. A	PIUCN NT	s, I	s, I	stable	0	2	C	1	2 0	1	1	0	0	0 0
	DEPRESSARIIDAE	Cryptolechiinae		Scythropiodes sp. nr. oncinius	not evaluated	c, w	c, w	stable	3	49	90	143	2 0	38	55	42	5	2
	GELECHIIDAE	Anacampsinae	Anacampsini	Idiophantis soreuta	not evaluated	not present	s, w	strongly increasing	0	1	C	1	1 0	0	1	0	0	0 0
				Mesophleps sublutiana	not evaluated	u, w	f, w	increasing	4	15	6	2	5 0	5	11	4	1	i 4
			Chelariini	Anarsia patulella	not threatened	c, w	f, w	decreasing	4	12	34	50	o o	10	19	12	5	5 4
				Bagdadia longanae	not evaluated	s, I	f, w	increasing	0	4	1		5 0	0	4	1	0) 0
				Bagdadia tricornis	not evaluated	vr, rd	s, 1	increasing	0	0	2		2 1	1	0	1	0	0 0
				Hypatima sp. C nr. excellentella	not evaluated	£.1	s, I	decreasing	0	1	c	1	1 0	0	0	0	1	0
				Hypatima spathota	not evaluated	f, w	c, w	increasing	2	4	1	1	7 0	3	1	0	1	1 2
				Hypatima venefica	not evaluated		s, I	stable	0	0	1	1	1 1	0	1	0	0	0 0
				Hypatima verticosa	not evaluated		s, 1	strongly decreasing	1	0					0	0	0	
		Apatetrinae	Pexicopiini	Pexicopia melitolicna	not evaluated		u, I	dd	0	1				-	-	0	1	
		Dichomeridinae	Dichomeridini	Dichomeris ochthophora	not evaluated		f, w	increasing	1	0						0	0	
				Dichomeris sandycitis	not evaluated		f. w	strongly increasing	1	0					1	0		
				Dichomeris sandycitis Dichomeris sp. indet. of 20230114	not evaluated		r, w dd	dd	0	0					-	0	0	
				Dichomeris sp. indet. of 20230114 Dichomeris zonata						0	1						0	
					pIUCN NT	f, w	c, w	increasing	2	2	1					1		
		Thissia		Helcystogramma triannulella	not threatened		s, w	dd	0	0	4		4 1	0	4	0	0	
		Thiotrichinae		Thiotricha sp. C nr. margarodes	not evaluated		s, w	dd	0	0	1				0	0	0	
		unplaced to subfar	mily (Gelechiidae)	Empedaula insipiens		c, w	c, w	stable	0	31	20	-			42	2	0	
				Gelechiidae genus & sp A		not evaluated		dd	2	0	0				0	0	0	
				Gelechiidae genus & sp B	not evaluated	not evaluated	bb t	dd	1	0	0	1	1 0	0	0	0	0	1
				Gelechiidae genus & sp C	not evaluated	not evaluated	b dd	dd	1	0	C	1	1 0	0	0	0	0	1
	GELECHIOIDEA incerta	e sedis		Gelechioidea sp A	not evaluated	not present	dd	dd	1	0	C	1	1 0	0	0	0	0	1
				Gelechioidea sp B	not evaluated	not present	dd	dd	1	0	C	1	1 0	0	0	0	0	1
	LECITHOCERIDAE	Lecithocerinae	Lecithocerini	Homaloxestis hainanensis	not evaluated	r, 1	61	stable	3	0	0		з о	0	1	0	0	2
				Lecithocera aulicosta	not evaluated	u, w	u, w	stable	0	3	0	3	3 0	2	1	0	0	0
				Lecitholoxa thiodora	not evaluated		u, w	stable	0	1	0	1	1 0	0	1	0	0) 0
				Lecithocera sp indet A of 20230317	not evaluated	dd	dd	dd	0	0	1	1	1 1	1	0	0	0	0 0
				Lecithocera sp indet B of 20230317	not evaluated		dd	dd	0	0	-		2 1	1	1	0	0	
		Torodorinae	Torodorini	Athymoris martialis	not evaluated		u, w	strongly increasing	2	0			2 0	0		0	1	
				Torodora gemella	not evaluated		f, w	strongly increasing	0		2			-	2	0	1	
		upplaced to subf	mily (Lecithereni de ci							3					2	0		
		unpraced to subfar	mily (Lecithoceridae)	Lecithoceridae genus & sp. A		not evaluated		dd	2	0	0						0	
				Lecithoceridae genus & sp. B		not evaluated		dd	2	0	0			-	-	0	-	-
				Tegenocharis tenebrans	not evaluated	u, w	f, w	increasing	0	0	1	. 1		1	0	0	0	
	OECOPHORIDAE	Oecophorinae		Promalactis albisquama	not evaluated		c, w	strongly increasing	0	16	5	-				0		
				Stereodytis acutidens	pIUCN NT	endemic; f, l	endemic; f, w	increasing	0	10	37	47	7 0	4	8	34	1	. 0
				Stereodytis brevignatha	pIUCN CR		endemic; s, rd		0	12	1	13	з о	0	12	1	0	

PELEOPODIDA STATHMOPOL STATH	IOPODIDAE	Acriinae Oditinae Stathmopodinae Xyloryctinae Desmobathrinae Ennominae	Oditini Oditini Desmobathrini Abraxini Boarmiini	Aria ceramitis Epimactis talantias Odites sp. A.n.r. ricinella Odites sp. A.n.r. ricinella Statimopoda sp. dr. utila Stathmopoda sp. dr. utila Stathmopoda sp. Inder of 20221122 Stathmopoda sp. D.n.r. xanthomochla Stathmopoda sp. D. r.r. xanthomochla Stathmopoda sp. K. Stathmopoda sp. K. Stathmopoda sp. N. Stathmopoda sp. N. Stathmopoda stimulata Stathmopoda stimulata Stath	not evaluated not evaluated not evaluated not evaluated not evaluated not evaluated pIUCN VU pIUCN VU pIUCN VU pIUCN VU pIUCN VU pIUCN VU not evaluated not evaluated not evaluated not evaluated not evaluated	s, l f, w c, w dd dd (r, rd) dd (r, rd)	f, w r, rd f, w c, w c, w endemic; u, w d u, w u, w r, 1 u, w c, w s, 1 u, w f, w	stable strongly decreasing stable stable dd strongly increasing dd stable dd stable stable stable stable increasing	0 0 1 0 1 2 0 0 1 0 0 3 5 1	1 1 3 0 1 2 0 0 3 1 0 6 0 8	0 0 0 1 1 2 2 0 0 0 1 1 1 1 1 0 0 0 0 0	1 1 5 2 2 1 1 3 3 1 1 1 3 3 1 1 4 4 1 4 1 9 9	0 0 1 0 0 1 0 0 0 0	0 1 1 0 0 0 1 1 0 1 0 1 0 4 0 4 0 4	1 0 2 1 1 3 0 1 2 1 0 2 0 0 0 0		0 0 1 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0
XYLORYCTIDA	IOPODIDAE	Stathmopodinae Xyloryctinae Desmobathrinae	Desmobathrini Abraxini Baptini	Odites sp. A nr. ricinella Odites sp. B nr. atmopa Beijinga sp. cf. utila Stathmopoda auriferella Stathmopoda sp indet of 20221122 Stathmopoda sp. I nr. xanthomochla Stathmopoda sp. R nr. xanthomochla Stathmopoda sp. R nr. trilobata Stathmopoda sp. nr. trilobata Stathmopoda st. Nr. trilobata Stathmopoda st. Nr. arista Eumelea bifavata Eumelea bifavata Eumelea bifavata Abraxa agg. (amicula or illuminata) Nothomiza flavicosta Plesiomorpha flaviceps	not evaluated not evaluated not evaluated not evaluated plUCN VU plUCN VU plUCN VU plUCN VD plUCN EN plUCN EN E	r, w c, w dd dd (r, rd) dd (r, rd) not present u, w dd r, 1 c, w s, 1 c, w s, 1 u, w	f, w c, w r, rd c, w endemic; u, w dd u, w u, w u, w c, w c, w s, 1 u, w	stable stable dd strongly increasing dd dd stable stable stable stable stable stable	1 0 1 2 0 0 1 0 0 3 5 1	3 0 1 2 0 3 1 0 6 0	1 2 0 1 1 0 0 0 0 0 3 0	5 2 1 3 3 1 1 3 1 3 3 1 3	0 1 0 1 0 0 0 0 0 0 0 0	1 0 0 1 0 1 0 4 0 4 0	2 2 1 3 0 1 2 1 0 2 0 0 0 0 0		1 0 0 0 0 0 0 0 4 0 4 0 4 0
XYLORYCTIDA	CTIDAE	Xylaryctinae Desmobathrinae	Abraxini Baptini	Odites sp. B.n. atmopa Beijinga sp. cf. utila Stathmopoda auriferelia Stathmopoda paradipiaspis Stathmopoda sp. df. 20221122 Stathmopoda sp. D. nr. xanthomochia Stathmopoda sp. K. Stathmopoda sp. K. Stathmopoda sp. nr. trilobata Stathmopoda sr. Manage Stathmopoda sy. Stathmopoda sy. Stathmopoda sy. St	not evaluated not evaluated not evaluated pIUCN VU pIUCN VU pIUCN VU pIUCN VU not evaluated not evaluated not evaluated not evaluated not evaluated	c, w dd (r, rd) dd (r, rd) not present u, w dd r, 1 s, 1 c, w s, 1 c, w s, 1 u, w	c, w r, rd c, w endemic: u, w dd u, w u, w r, I u, w c, w s, I u, w	stable dd strongly increasing dd dt stable stable increasing stable stable	0 1 2 0 0 1 0 0 3 5 1	0 0 1 2 0 3 1 0 5 0	2 0 1 1 0 0 0 0 3 0	2 1 3 1 1 3 1 3 3	1 0 0 1 0 0 0 0 0 0 0	0 0 1 0 1 0 4 0 4 0	2 1 3 0 1 2 1 0 2 0 0 0 0		0 0 0 0 0 0 0 0 0 4 0 4 0 4 0 1
XYLORYCTIDA	CTIDAE	Xylaryctinae Desmobathrinae	Abraxini Baptini	Beijinga sp. cf. utila Stathmopoda aurifereita Stathmopoda paradiplaspis Stathmopoda sp. antonochia Stathmopoda sp. D. nr. xanthomochia Stathmopoda sp. E. nr. xanthomochia Stathmopoda sp. K. Stathmopoda sp. nr. trilobata Stathmopoda sp. nr. trilobata Stathmopoda sycophaga Thymiatris sp. A. nr. arista Eumelea biflavata Eumelea ludovicata Abraxas agg. (amicula or illuminata) Nothomiza flavicosta	not evaluated not evaluated pIUCN VU not evaluated pIUCN VU pIUCN VU pIUCN EN pIUCN VU not evaluated not evaluated not evaluated not evaluated	dd dd (r, rd) not present u, w dd r, l s, l c, w s, l s, l u, w u, w	r, rd c, w endemic; u, w dd u, w r, l u, w c, w c, w s, l u, w	dd strongly increasing dd dd stable dd stable increasing stable stable stable	1 2 0 1 0 3 5 1	0 1 2 0 3 1 0 5 0	0 0 1 1 0 0 0 0 3 0	3 3 1 1 3 1 3	0 0 1 0 0 0 0 0 0	0 0 1 0 1 0 4 0 4 0	1 3 0 1 2 1 0 2 0 0 0		0 0 0 0 0 0 0 4 0 4 0 4 0
XYLORYCTIDA	CTIDAE	Xylaryctinae Desmobathrinae	Abraxini Baptini	Stathmopoda auriferella Stathmopoda paradipiaspis Stathmopoda spi ndet of 20221122 Stathmopoda sp. D.nr. xanthomochia Stathmopoda sp. Rr. rx. nthomochia Stathmopoda sp. rx. riliobata Stathmopoda sp. rx. riliobata Stathmopoda sp. rx. riliobata Stathmopoda sycophaga Thymiatris sp. A.nr. arista Eumelea biflavata Eumelea biflavata Eumelea biflavata Eumelea ludovicata Abraxas agg. (amicula or illuminata) Nothomiza flavicosta Plesiomorpha flaviceps	not evaluated pIUCN VU not evaluated pIUCN VU pIUCN VU pIUCN VU pIUCN VU pIUCN VU not evaluated not evaluated not evaluated not evaluated not evaluated	dd (r, rd) dd (r, rd) not present u, w dd r, l s, l c, w s, l s, l u, w u, w	c, w endemic; u, w dd u, w u, w r, l u, w c, w s, l u, w	strongly increasing dd dd stable dd stable increasing stable stable stable	2 0 1 0 3 5 1	1 2 0 3 1 0 6 0	0 1 1 0 0 0 0 3 0	3 3 1 1 3 1 3	0 0 1 0 0 0 0 0 0 0	0 1 0 1 0 4 0 4 0 4	1 3 0 1 2 1 0 2 0 0 0 0		0 0 0 0 0 0 4 0 4 0 4 0
		Desmobathrinae	Abraxini Baptini	Stathmopoda paradipiaspis Stathmopoda sp. indet of 20221122 Stathmopoda sp. D. nr. xanthomochla Stathmopoda sp. D. nr. xanthomochla Stathmopoda sp. K Stathmopoda sp. rr. trilobata Stathmopoda sy. cophaga Thymiatris sp. A. nr. arista Eumelea biflavata Eumelea biflavata Eumelea bidovicata Abraxa: age, (amicula or illuminata) Nothomiza flavicosta Plesiomorpha flaviceps	pIUCN VU not evaluated pIUCN VU pIUCN VU pIUCN NU pIUCN NU pIUCN Valuated not evaluated	dd (r, rd) not present u, w dd r, l s, l s, l s, l u, w	endemic; u, w dd u, w u, w r, 1 u, w c, w s, 1 u, w	dd dd stable dd stable increasing stable stable	0 0 1 0 3 5 1	2 0 3 1 0 6 0	1 1 0 0 0 0 3 0	3 1 1 3 1 3	0 1 0 0 0 0 0 0 0	0 1 0 1 0 4 0 4 0	3 0 1 2 1 0 2 0 0 0 0		0 0 0 0 4 0 4 0 4
		Desmobathrinae	Abraxini Baptini	Stathmopoda sp. indet of 20221122 Stathmopoda sp. D. nr. xanthomochla Stathmopoda sp. E. nr. xanthomochla Stathmopoda sp. K. Stathmopoda sp. nr. trilobata Stathmopoda sizophaga Thymiatris sp. A. nr. arista Eumelea bifavata Eumelea bifavata Abraxa sag. (amicula or illuminata) Nothomilza flavicosta Plesiomorpha flaviceps	not evaluated pIUCN VU pIUCN VU pIUCN EN pIUCN EN pIUCN VU not evaluated not evaluated not evaluated not evaluated not evaluated	not present u, w dd r, l s, l c, w s, l s, l u, w	dd u, w u, w r, i u, w c, w s, i u, w	dd stable dd stable increasing stable stable	0 1 0 3 5 1	0 3 1 0 6 0	0 0 0 3 0	1 3 1 3	1 0 0 0 0 0 0 0	1 0 1 0 4 0 4 0	0 1 2 1 0 2 0 0 0		0 0 0 4 0 4 0 1
		Desmobathrinae	Abraxini Baptini	Stathmopoda sp. D nr. xanthomochla Stathmopoda sp. E nr. xanthomochla Stathmopoda sp. K Stathmopoda sp. nr. trilobata Stathmopoda sycophaga Thymlatris sp. A nr. arista Eumelea bifavata Eumelea ludovicata Abraxa agg. (amicula or illuminata) Nothomiza flavicosta Plesiomorpha flaviceps	pIUCN VU pIUCN VU pIUCN EN pIUCN EN pIUCN VU not evaluated not evaluated not evaluated not evaluated not evaluated	u, w dd r, l s, l c, w s, l s, l u, w	u, w u, w r, l u, w c, w s, l u, w	stable dd stable increasing stable stable	1 0 3 5 1	0 3 1 0 6 0	0 0 0 3 0	1 3 1 3	0 0 0 0 0	0 1 0 4 0 4 0	1 2 1 0 2 0 0 0	0 0 0 0 0 0 0	000000000000000000000000000000000000000
		Desmobathrinae	Abraxini Baptini	Stathmopoda sp. E nr. xanthomochla Stathmopoda sp. K Stathmopoda sp. nr. trilobata Stathmopoda sizonapa Stathmopoda sycophaga Thymiatris sp. A nr. arista Eumelea biflavata Eumelea biflavata Abraxa sag. (amicula or illuminata) Nothomiza flavicosta Plesiomorpha flaviceps	pIUCN VU pIUCN EN pIUCN VU not evaluated not evaluated not evaluated not evaluated not evaluated not evaluated	dd r, I s, I c, w s, I s, I u, w	u, w r, l u, w c, w s, l u, w	dd stable increasing stable stable	0 0 3 5 1	3 1 0 6 0	0 0 3 0	3	0 0 0 0	1 0 4 0 4 0	2 1 0 2 0 0 0		0 0 4 0 4 0
		Desmobathrinae	Abraxini Baptini	Stathmopoda sp. nr. trilobata Stathmopoda stimulata Stathmopoda sycophaga Thymiatris sp. A nr. arista Eumelea biflavata Eumelea lidovicata Abraxas agg. (amicula or illuminata) Nothomiza flavicosta Piesiomorpha flaviceps	pIUCN EN pIUCN VU not evaluated not evaluated not evaluated not evaluated not evaluated not evaluated	r, l s, l c, w s, l s, l u, w	u, w c, w s, I u, w	stable increasing stable stable	3 5 1	0 6 0	0 3 0	3	0 0 0	0 4 0 4 0	0 2 0 0 0	0 0 0 0	0 4 0 4 0 1
		Desmobathrinae	Abraxini Baptini	Stathmopoda stimulata Stathmopoda sycophaga Thymilatria sp. A.nr. arista Eumelea biflavata Eumelea ludovicata Abraxa: agg. (amicula or illuminata) Nothomiza flavicosta Piesiomorpha flaviceps	not evaluated not evaluated not evaluated not evaluated not evaluated not evaluated	c, w s, I s, I u, w	c, w s, l u, w	stable stable	5	6 0	3 0		0 0 0	4 0 4 0	2 0 0 0	0 0 0	4 0 4 0 1
		Desmobathrinae	Abraxini Baptini	Stathmopoda sycophaga Thymiatris sp. A nr. arista Eumelea biflavata Eumelea ludovicata Abraxas agg. (amicula or illuminata) Nothomiza flavicosta Plesiomorpha flaviceps	not evaluated not evaluated not evaluated not evaluated not evaluated	s, I s, I u, w	s, I u, w	stable	1	0	0	14 1 9	0	0 4 0	0 0 0	0 0 0	0 4 0 1
		Desmobathrinae	Abraxini Baptini	Thymiatris sp. A nr. arista Eumelea biflavata Eumelea ludovicata Abraxas agg. (amicula or illuminata) Nothomiza flavicosta Plesiomorpha flaviceps	not evaluated not evaluated not evaluated not evaluated	s, I u, w	u, w		-		-	1 9 1	0	4	0	0	4 0 1
		Desmobathrinae	Abraxini Baptini	Eumelea biflavata Eumelea Iudovicata Abraxas agg. (amicula or illuminata) Nothomiza flavicosta Plesiomorpha flaviceps	not evaluated not evaluated not evaluated	u, w		increasing		8	0	9		0	0	0	0
GEOMETROIDEA GEOMETROID GEOMETROIDEA GEOMETROID GEOMETROIDEA GEOMETROID CONTROIDEA GEOMETROIDE CONTROIDEA GEOMETROIDE CONTRO	RIDAE		Abraxini Baptini	Eumelea ludovicata Abraxas agg. (amicula or illuminata) Nothomiza flavicosta Plesiomorpha flaviceps	not evaluated not evaluated		f, w		1			1	0				1
III<		Ennominae	Baptini	Abraxas agg. (amicula or illuminata) Nothomiza flavicosta Plesiomorpha flaviceps	not evaluated	r, rd		increasing	1	0	0					0	
		Ennominae	Baptini	Nothomiza flavicosta Plesiomorpha flaviceps			c, w	strongly increasing	0	2	0	2	0	0	1		
				Plesiomorpha flaviceps	not evaluated		c, w	dd	0	0	2	2	1	0	0	2	0
Image: state s			Boarmiini			c, w	c, w	stable	0	0	3	3	1	2	0	1	0
			Boarmiini	Biston marginata	not evaluated	c, w	c, w	stable	1	2	0	3	0	0	0	0	2
Image: stateImage: state <td></td> <td></td> <td></td> <td></td> <td>not evaluated</td> <td>s, I</td> <td>u, I</td> <td>stable</td> <td>0</td> <td>0</td> <td>1</td> <td>1</td> <td>1</td> <td>0</td> <td>0</td> <td>1</td> <td>0</td>					not evaluated	s, I	u, I	stable	0	0	1	1	1	0	0	1	0
				Biston suppressaria	not evaluated	c, w	c, w	stable	1	0	4	5	0	3	1	0	0
				Chorodna strixaria	not evaluated	c, w	c, w	stable	0	1	0	1	0	0	1	0	0
				Cleora alienaria	not evaluated	vc, w	c, w	decreasing	1	0	0	1	0	0	0	0	0
				Cleora fraterna	not evaluated	c, w	c, w	stable	0	1	0	1	0	1	0	0	0
				Cleora repulsaria	not evaluated	f, w	f, w	stable	0	5	0	5	0	1	4	0	0
				Coremecis nigrovittata	not evaluated	u, I	r, rd	strongly decreasing	0	1	0	1	0	0	1	0	0
				Dasyboarmia subpilosa Ectropis bhurmitra	not evaluated	vc, w	vc, w vc, w	stable	2	1	3 0	6	0	1	3	0	0
Image: state s				Hypomecis cineracea	not evaluated	c, w	c. w	stable	5	8	5	18		4	6	2	1
Image: state				Hypomecis transcissa	not evaluated	vc, w	c, w	decreasing	0	2	0	2		0	2	0	0
Image: state				Hyposidra infixaria	not threatened		c. w	decreasing	0	2	0	2		0	2	0	0
				Hyposidra talaca	not threatened		vc. w	stable	5	2	2	9		1	4	0	1
Image: set of the set of th				Krananda falcata	not evaluated	c, w	c, w	stable	4	2	9	15	0	3	6	3	1
Image: set of the set of th				Krananda latimarginaria	not threatened		c, w	stable	1	2	7	10		2	5	1	1
Image: set of the set of th				Krananda oliveomarginata	not threatened	vc, w	c, w	decreasing	1	2	2	5	0	2	2	0	1
Image: set of the set of th				Percnia fumidaria	not evaluated	c, w	c, w	stable	0	2	0	2	0	0	0	0	2
Image: set of the set of th				Psilalcis galsworthyi	not evaluated	vc, w	vc, w	stable	7	27	3	37	0	3	15	1	14
				Racotis boarmiaria	not evaluated	c, w	c, w	stable	1	1	1	3	0	1	0	0	1
			Cassymini	Peratophyga crista	not evaluated	c, w	c, w	stable	4	3	0	7	0	2	3	0	0
			Ennomini	Ourapteryx clara	not evaluated	c, w	c, w	stable	0	0	6	6	1	1	5	0	0
			Eutoeini	Luxiaria phyllosaria	not evaluated	f, w	f, w	stable	0	0	2	2	1	2	0	0	0
Image: set of the set of th				Zeheba aureata	not evaluated	f, w	f, w	stable	0	1	0	1	0	0	0	0	1
			Hypochrosini	Celenna festivaria	not evaluated	c, w	c, w	stable	1	4	0	5	0	1	1	0	3
				Corymica arnearia	not evaluated	f, w	c, w	increasing	0	1	0	1	0	0	0	0	1
				Fascellina chromataria	not evaluated	vc, w	c, w	decreasing	16	5	3	24		0	4	1	5
				Fascellina plagiata	not evaluated	c, w	c, w	stable	5	5	3	13		3	4	1	2
			Macariini	Chiasmia emersaria	not threatened		vc, w	increasing	1	2	1	4	-	2	1	0	0
				Chiasmia fidoniata	not evaluated	-4	f, w	decreasing	12	3	1	16		1	1	1	1
			Plutodini	Psamatodes abydata Plutodes exquisita	not threatened		intr.; vc, w c, w	strongly increasing stable	0	0	1	5		5	0	1	0
			unplaced to tribe	Pseudonadagara semicolor			c, w	stable	3	0	2	5		1	1	-	0
		Geometrinae	Comibaenini	Comibaena cassidara	not evaluated		s, w	decreasing	0	1	0	1	-	0	0	0	1
		Geometringe	Geometrini	Agathia lycaenaria	not threatened		c, w	stable	7	1	1		0	0	2	1	1
			Hemitheini	Eucyclodes albisparsa	not evaluated		u, w	increasing	2	0	0	2		0	0	0	0
				Hemithea marina	not evaluated		f, w	decreasing	0	1	0	1	0	0	1	0	0
				Hemithea tritonaria	not evaluated		c, w	stable	1	0	0	1	0	0	0	0	0
				Idiochlora minuscula	not evaluated	s, w	f, w	strongly increasing	0	1	0	1	0	0	1	0	0
				Jodis nanda			u, w	increasing	0	1	0	1	0	0	1	0	0
				Microloxia chlorissodes	not evaluated		61	decreasing	0	1	0	1	0	0	1	0	0
				Pelagodes antiquadraria	not evaluated	c, w	vc, w	increasing	2	14	15	31	0	14	6	4	5
				Thalassodes immissaria	not evaluated	c, w	f, w	decreasing	0	4	1	5	0	1	2	0	2
			Pseudoterpnini	Dindica olivacea	not threatened	c, I	s, w	strongly decreasing	1	1	0	2	0	0	0	0	1
				Herochroma cristata	not evaluated	c, w	f, w	decreasing	0	2	0	2	0	0	1	0	1
				Lophophelma calaurops	pIUCN NT	vc, w	c, w	decreasing	2	4	3	9	0	0	3	2	2
				Lophopheima funebrosa	not evaluated	c, w	f, w	decreasing	1	1	0	2	0	0	0	0	1
				Lophopheima luteipes	not evaluated	c, w	u, w	strongly decreasing	0	1	0	1	0	0	1	0	0
				Pingasa chloroides	pIUCN NT	u, I	u, w	stable	2	0	0	2	0	0	0	0	0
				Pingasa ruginaria	not threatened		c, w	stable	1	1	0	2	0	0	0	0	1
			unplaced to tribe	Comostola pyrrhogona	not evaluated	f, w	u, w	decreasing	1	0	0	1	0	0	0	0	1
		Larentiinae	Eupitheciini	Axinoptera turgidata		s, rd	s, I	stable	0	0	1	1	1	0	1	0	0
				Bosara emarginaria	not evaluated		61	decreasing	0	1	0	1	0	1	0	0	0
				Bosara errabunda	not evaluated		5, W	stable	0	0	1	1	1	0	1	0	0
				Bosara subrobusta	not evaluated		s, I	dd	0	0	1	1	1	0	1	0	0
				Calluga costalis	not evaluated		u, I	increasing	0	0	1	1	1	0	1	0	0
				Casuariclystis latifascia	not evaluated		s, w	decreasing	1	1	0	2	-	0	2	0	0
				Eupitheciini sp A	not evaluated		s, w	increasing	1	0	0	1	0	0	0	0	0
				Glaucoclystis griseorufa			f, w	increasing	0	0	1	1	1	0	1	0	0
				Glaucoclystis immixtaria	not evaluated		r, w	decreasing	3	0	0	3	-	0	0	0	0
				Gymnoscelis taprobanica			f, w	increasing	0	0	1	1	-	0	0	1	0
				Sigilliciystis kendricki	PIUCN NT			stable	0	8	7	15		3	2	3	7
				Spiralisigna gloriae Spiralisigna subpumilata	pIUCN EN not evaluated	endemic; r, rd	endemic; s, l	stable decreasing	1	0	1	2		1	0	0	0 2

Superfamily	Family	Subfamily	Tribe	Species binomial / morphospecies label	Global Status	HK Status & Distribution (1993-2005)	HK Status & Distribution (2006-2019)	trend	2018	20.20	2022-2023	ALL years	new spp in 2022-2023	EIA 1	EIA 2	EIA 3	EIA 4	non-EIA
			Trichopterygini	Sauris interruptata	not evaluated	5.1	61	decreasing	0	1	0		. 0	0	1	0	0	
				Sauris sp indet	(blank)	(blank)	dd	(blank)	0	0	1			0	1	0	0	
			Xanthorhoini	Disclisioprocta sp. A	not evaluated		u, w	increasing	2	2	C		• o	1	1	0	0	
				Orthonama obstipata	not threatened	c, w	u, w	strongly decreasing	0	1	2		3 O	1	2	0	0	
		Sterrhinae	Cosymbiini	Chrysocraspeda faganaria	not evaluated	s, I	u, w	increasing	0	1	0	1	L O	0	1	0	0	
				Perixera flavispila	not evaluated	f, w	f, w	stable	0	0	1	. :	L 1	0	0	1	0	
				Perixera griseata	not evaluated	f, 1	u, w	decreasing	1	0	1		2 0	0	1	0	0	
				Perixera illepidaria	not evaluated	u, rd	u, I	stable	0	0	1		L 1	0	0	1	0	
				Perixera minorata	not evaluated	c, w	f, w	decreasing	2	0	C		2 0	0	0	0	0	
				Perixera punctata	not evaluated	u, w	f, w	increasing	0	1	C	1	1 0	0	0	0	1	
			Scopulini	Problepsis eucircota	not evaluated	r, rd	s, I	increasing	0	1	0		LO	0	0	0	1	
				Problepsis vulgaris	not evaluated	f, w	c, w	increasing	1	1	3	1	5 0	2	1	0	2	
				Scopula (Antitrygodes) divisaria	not evaluated	c, w	f, w	decreasing	0	1	2		3 0	0	1	2	0	
				Scopula haematophaga	not evaluated	r, rd	s, I	increasing	0	0	1		L 1	1	0	0	0	
				Scopula sp. C (nov.)	PIUCN NT	c, w	c, w	stable	1	3	C		• 0	1	0	0	2	
				Scopula sp. indet.	not evaluated	dd	dd	dd	0	0	1		L 1	0	1	0	0	
			Sterrhini	Idaea costiguttata	not evaluated	c, w	vc, w	increasing	3	1	1		5 0	0	2	0	1	
				Idaea impexa	not evaluated	c, w	vc, w	increasing	9	1	C	1	0 0	0	2	0	0	
				Idaea macrospila	not evaluated	c, w	f, w	decreasing	4	20	7	3	L 0	14	12	0	2	
				Idaea sakuraii	not evaluated	c, w	f, w	decreasing	0	0	5		5 1	1	4	0	0	
				Lophophieps purpurea	not evaluated	u, w	f, w	increasing	3	0	C	1	8 0	0	0	0	0	
			Timandrini	Traminda aventiaria	not threatened	c, w	vc, w	increasing	34	48	4	8	5 0	18	26	0	11	3
	URANIIDAE	Auzeinae		Pseudhyria rubra	not evaluated	s, 1	s, 1	stable	0	0	2		2 1	0	2	0	0	
		Epipleminae	Epiplemini	Monobolodes prunaria	not evaluated	r, rd	u, w	increasing	0	1	C	1	L 0	0	1	0	0	
				Oroplema oyamana	not evaluated	u, w	u, w	stable	0	0	2	1	2 1	0	2	0	0	
				Phazaca leucocera	not evaluated	c, w	c, w	stable	2	9	1	1	2 0	3	8	0	0	
				Phazaca theclata	not evaluated	s, I	s, w	decreasing	2	0	C	:	2 0	0	0	0	0	
			(blank)	Pterostoma castanea	not evaluated	not present	vr, rd [New H	() ? Establishing	0	1	C	1	L 0	0	1	0	0	
		Microniinae		Micronia aculeata	not evaluated	f, w	c, w	increasing	2	1	C	1	3 O	0	1	0	0	
GRACILLARIOIDEA	GRACILLARIIDAE	Acrocercopinae		Gibbovalva quadrifasciata	not threatened	s, w	u, w	increasing	0	0	1		L 1	1	0	0	0	
				Psydrocercops wisteriae	not evaluated	r, 1	s, w	increasing	0	1	C		L 0	0	1	0	0	
		Gracillariinae		Caloptilia protiella	not evaluated	r, rd	s, w	increasing	0	1	C		L O	0	1	0	0	
		Ornixolinae		Conopomorpha sinensis	not evaluated	u, w	s, w	decreasing	1	0	C		L 0	0	0	0	0	
				Epicephala lativalvaris	not evaluated		c, w	(blank)	0	0	4		1	1	0	3	0	
				Epicephala sp. A	not evaluated	s, I	s, I	stable	1	0	C		L 0	0	0	0	0	
				Epicephala sp. indet. D	not evaluated	not present	s, I	increasing	0	0	1		1 1	1	0	0	0	
				Stomphastis polygoni	not evaluated	s, I	u, w	increasing	1	0	C		L O	0	0	0	0	
		Phyllocnistinae		Phyllocnistis citrella	not threatened	c, w	c, w	stable	0	1	C		L 0	0	1	0	0	
		unplaced to subfar	mily (Gracillariidae)	Gracillariidae sp. A		not evaluated	d dd	dd	1	0	C		L O	0	0	0	0	
				Gracillariidae sp. B	not evaluated	not evaluated	d dd	dd	1	0	c		L 0	0	0	0	1	
				Gracillariidae sp. C	not evaluated	not evaluated	d dd	dd	1	0	C		LO	0	0	0	0	
				Gracillariidae (AT photo, voucher retaine	ed not evaluated	vr, rd - NEW H	K dd	(blank)	0	0	1		1 1	0	0	1	0	
				Gracillariidae genus & sp indet A	not evaluated	vr, rd - NEW H	K dd	(blank)	0	0	1		1	0	1	0	0	
IMMOIDEA	IMMIDAE	unplaced to subfar	mily (Immidae)	Imma mylias	not evaluated	f, w	f, w	stable	2	5	2		ə o	4	1	0	2	
				Imma sp. A	not evaluated	u, w	u, w	stable	0	0	1		1 1	0	1	0	0	
LASIOCAMPOIDEA	LASIOCAMPIDAE	Pinarinae	Pinarini	Dendrolimus punctatus	not evaluated	f, w	f, w	stable	1	1	C		2 0	1	0	0	0	
			Selenepherini	Euthrix isocyma	not evaluated	vc, w	c, w	decreasing	2	1	c		3 0	0	0	0	1	
NEPTICULOIDEA	NEPTICULIDAE			Ectoedemia sp. indet A	not evaluated	dd	dd	(blank)	0	0	1		. 1	1	0	0	0	
		Oposteginae		Pseudopostega zelopa	not evaluated	dd (r, rd)	u, w	increasing	0	0	1		1	1	0	0	0	
NOCTUOIDEA		Aganainae	Aganini	Asota caricae	not threatened		c, w	stable	8	11	3	2	2 0	6	7	1	2	
				Asota heliconia	not threatened		c, w	stable	2	1	0			0	2	0	1	
				Asota plaginota	not threatened		c, w	stable	6	8	2			6	4	0	2	
				Mecodina bisignata		not present		strongly increasing	0	1	0			0	0	0	1	
				Mecodina diastriga		not present	s, w	increasing	1	0	c			0	0	0	0	
				Psimada quadripennis	not evaluated		f, w	increasing	0	4	0			1	3	0	0	
		Anobinae	Anobini	Piecoptera quaesita	not evaluated		n l	increasing	1	0	0			0	0	0	0	
				Piecoptera quaesita Piecoptera reflexa	not evaluated		r, 1 s, w	decreasing	0	4	2		5 0	0	4	1	1	
				Rema costimacula	not evaluated		s, w vc. w	stable	4	1	0			0	4	0	1	
		Arctiinae	Arctiini - Callimorphina		not threatened		u, w	strongly increasing	1	1	0			1	0	0	0	
			Arctiini - Calilmorphina Arctiini - Pericopina		not threatened			strongly increasing	0	1	1				1	0	0	
			- Pericopina	Nyctemera adversata Nyctemera lacticinia	not threatened		vc, w		0	1	1			1	1	0	1	
			Arctini Caltanada	,				strongly increasing			1			4				
			Arctinii - Spiiosomina	Creatonotos transiens	not threatened		vc, w	increasing	49	21		1		-	9	3	17	4
			University of the state	Spilarctia subcarnea	not threatened		f, w	increasing	1	0	1		2 0	0	0	1	0	
			utnosiini - Cisthenina	Aemene sp. A nr. punctigera	not evaluated		s, I		1	0	0			0	0	0	1	
				Aemene sp. B nr. dentata	pIUCN VU	r, rd	r, 1	stable	0	1	0		1 0	0	1	0	0	
				Aemene sp. nr. nigra	pIUCN NT	s, rd	s, I	stable	1	0	0		1 0	0	0	0	0	
				Pseudoblabes oophora	not evaluated		u, w	increasing	0	1	C			0	0	0	1	
			Lithosiini - Eugoa gener	Narosodes sp. nr. punctata	not evaluated		f, w	strongly increasing	0	1	C		1 0	0	1	0	0	
				Neoduma kuangtungensis	not evaluated		f, w	strongly increasing	0	2	C			2	0	0	0	
			Lithosiini - Lithosiina	"Eilema" sp. indet.	not evaluated	not present	s, w	strongly increasing	0	1	C			0	0	0	1	
				Brunia antica	not threatened	vc, w	vc, w	stable	4	3	13	2	0 0	2	6	7	2	
				Danielithosia sp. cf. immaculata	not evaluated	vc, w	vc, w	stable	2	0	5	1	7 0	4	1	0	0	
				Lithosiini sp. indet. A	not evaluated	not present	s, I	increasing	0	0	1		L 1	1	0	0	0	
				Manulea fuscodorsalis	not evaluated		f, w	decreasing	19	0	3	2	2 0	0	4	0	2	1

perfamily	Family	Subfamily	Tribe	Species binomial / morphospecies label	Global Status	HK Status & Distribution (1993-2005)	HK Status & Distribution (2006-2019)	trend	2018	20.20	2022-2023	ALL years	new spp in 2022-2023	EIA 1	EIA 2	EIA 3	EIA 4 non-EIA
				Barsine striata	not evaluated		vc, w	stable	0	2	0	2	0	0	1	0	1
				Cyana alborosea	not evaluated	c, w	c, w	stable	1	0	0	1	0	0	0	0	0
				Huangilene sp. cf. apoklinousa	not evaluated	c, w	c, w	stable	0	1	1	2	0	2	0	0	0
				Miltochrista acteola		u, I	u, I	stable	0	0	1	1	1	1	0	0	0
			Lithosiini incertae sedis	Schistophleps bipuncta	not evaluated	vc, w f, w	c, w	decreasing stable	4	3	0	2	0	0	1	0	4
				Eressa confinis	not evaluated	t, w	f, w f, w	stable	1	1	0	2	0	0	1	0	0
		Boletobiinae	-						2	0	0	2	0	0	0	0	0
		Boletobilhae		Araeopteron sp. nr. amoenum	pIUCN VU		r, rd	increasing	0	0	1	1	1	0	1	0	0
				Araeopteron sp. nr. nebulosa Ataboruza divisa		s, I	s, I c. w	(blank) stable	1	2	2	5	0	0	3	0	1
						c, w			0	2	0	2	0	0	1	0	1
				Ataboruza lauta Cerynea discontenta	not evaluated	dd endemic: c. w	u, w endemic; c, w	dd stable	1	1	0	2	0	0	1	0	0
									1	3	0	4	0	2	0	0	1
				Cerynea punctilinealis	not evaluated	c, w	c, w	stable	5	8	1		0	0	3	0	8
				Cerynea ustula Corgatha dictaria	not evaluated	c, w	c, w	stable	1	2	1	14	0	1	2	0	0
					not evaluated	c, w	f, w	decreasing	1	1	1		0	0	0	0	
				Corgatha nitens	not evaluated		u, w	stable	-	-	0	2	-	-	-	-	1
				Enispa elataria	not evaluated	c, w	c, w	stable	0	0	1	1	1	1	0	0	0
				Enispa sp. A	PIUCN NT	r, rd	r, rd	stable	0	1	0	1	0	0	1	0	
				Eugnathia albicostalis	not evaluated		61	decreasing	0	1	0	1	0	0	1	0	0
				Hypenagonia angulata	not evaluated	f, w	f, w	stable	0	1	0	1	0	0	0	0	1
				Hyposada kadooriensis	pIUCN VU	endemic; f, w	endemic; f, w	stable	1	0	0	1	0	0	0	0	0
				Laspeyria ruficeps	not evaluated	vc, w	vc, w	stable	18	18	2	38	0	4	10	0	8
				Metaemene atrigutta	not evaluated	f, w	c, w	increasing	4	9	0	13	0	0	0	0	9
				Parasada carnosa	not evaluated	s, I	s, w	increasing	1	0	0	1	0	0	0	0	0
			Boletobiinae incertae s	Homodes bracteigutta	not evaluated	dd (r, rd?)	u, w	increasing	0	1	2	3	0	1	1	1	0
			Boletobiini	Maguda suffusa	not evaluated	c, w	c, w	stable	26	6	1	33	0	0	13	0	8
			Eublemmini	Eublemma abrupta	not evaluated	r, 1	f, w	strongly increasing	0	2	0	2	0	0	1	0	1
				Eublemma accedens	not evaluated	s, I	f, w	increasing	2	0	o	2	0	0	0	0	0
				Eublemma albostriata	not evaluated		£1	stable	3	1	0	4	0	0	1	0	1
				Eublemma cochylioides	not threatened	c, w	f, w	decreasing	1	2	0	3	0	0	2	0	1
				Eublemma rufiplaga	not evaluated		c, w	strongly increasing	7	10	4	21	0	3	3	1	9
				Mataeomera semialba	not evaluated		f. w	stable	0	0	1	1	1	0	0	1	0
				Condate hypenoides	not evaluated	u, rd	f, w	increasing	6	3	1	10	0	0	3	0	2
				Lopharthrum comprimens	not evaluated		vc, w	increasing	0	1	5	6	0	4	0	1	1
				Olulis puncticinctalis		c, w	f, w	decreasing	0	0	2	2	1	2	0	0	0
								_	1	0	0	2	0	0	-	0	0
				Saroba pustulifera	not evaluated	c, w	c, w	stable				1			0		
				Sarobides inconclusa	not evaluated		c, w	increasing	3	1	0	4	0	0	0	0	1
		Calpinae		Calyptra minuticornis	not evaluated		f, w	stable	1	3	0	4	0	1	0	0	2
				Dierna patibulum	not evaluated	u, I	s, I	decreasing	0	1	0	1	0	1	0	0	0
				Goniocraspedon mistura	not evaluated		u, w	decreasing	2	0	0	2	0	0	0	0	0
				Oraesia emarginata	not evaluated	f, w	f, w	stable	0	1	0	1	0	0	0	0	1
				Oraesia excavata	not threatened	f, w	f, w	stable	1	0	0	1	0	0	0	0	0
				Plusiodonta coelonota	not evaluated	f, w	f, w	stable	5	5	3	13	0	2	4	0	2
			Ophiderini	Eudocima salaminia	not threatened	f, w	f, w	stable	0	1	1	2	0	0	0	1	1
		Erebidae incertae	sedis	Anachrostis sp. nr. nigripuncta	not evaluated	f, w	c, w	increasing	1	0	2	3	0	1	2	0	0
				Arsacia rectalis	not threatened	c, w	f, w	decreasing	1	0	0	1	0	0	0	0	0
				Avitta fasciosa	not evaluated	f, I	f, w	stable	0	0	3	3	1	1	1	1	0
				Blasticorhinus enervis	not evaluated	f, w	f, w	stable	0	0	1	1	1	0	1	0	0
				Chorsia albiscripta	not evaluated	c, w	c, w	stable	0	0	5	5	1	0	3	2	0
				Gesonia obeditalis	not evaluated	c, w	c, w	stable	7	4	1	12	0	2	1	0	2
				Neachrostia undulata	not evaluated	s, I	r, 1	decreasing	9	3	0	12	0	0	4	0	3
				Oglasa costimacula	not evaluated	not present	s, I	strongly increasing	0	1	0	1	0	1	0	0	0
				Pilipectus prunifera	not evaluated	not present	vr, rd	increasing	3	0	0	3	0	0	0	0	0
		Erebinae		Hamodes propitia	not evaluated	u, w	f, w	increasing	0	0	4	4	1	3	1	0	0
				Hypospila bolinoides	not evaluated	c, w	f, w	decreasing	0	1	0	1	0	0	0	0	1
				Ugia insuspecta	not evaluated		f, w	decreasing	3	0	0	3	0	0	0	0	1
				Ugia purpurea	pIUCN NT		near endemic;	-	37	7	3	47	0	0	11	1	9
				Ugia sp. A nr. insuspecta	pIUCN NT				0	2	5		0	0	5	0	2
					pIUCN NT		u, w	strongly increasing	0	2	0		0		0	0	1
				Serrodes campana			u, I	decreasing	0	1	0	1	0	0	0	0	
				Ercheia cyllaria	not evaluated		vc, w	increasing	-	3	-	6	-	-	4		1
			Erebinae incertae sedis		not evaluated	f, w	f, w	stable	0	1	0	1	0	0	0	0	1
				Ischyja ferrifracta		s, rd	f, w	strongly increasing	0	2	0	2	0	0	2	0	0
				Ischyja manlia	not evaluated		c, w	stable	0	1	0	1	0	1	0	0	0
				Platyja umminia	not evaluated	f, 1	u, w	decreasing	1	0	0	1	0	0	0	0	0
				Erygia apicalis	not evaluated		c, w	stable	1	2	0	3	0	0	1	0	1
				Sympis rufibasis	not threatened	c, w	vc, w	increasing	4	8	15	27	0	6	15	3	1
			Euclidiini	Mocis frugalis	not threatened	c, w	c, w	stable	4	5	1	10	0	1	1	1	4
				Mocis undata	not evaluated	c, w	c, w	stable	0	1	0	1	0	0	1	0	0
			Hulodini	Ericeia fraterna	not evaluated	dd (r, rd?)	f, w	increasing	4	0	1	5	0	1	0	0	0
				Ericeia inangulata	not evaluated	u, I	u, w	stable	0	1	o	1	0	0	1	0	0
				Ericeia pertendens	not evaluated	c, w	u, w	decreasing	0	3	o	3	0	1	1	0	1
				Ericeia subcinerea	not evaluated		c, w	decreasing	7	2	3	12	0	2	1	0	2
				Hypopyra vespertilio	not evaluated		f, w	decreasing	1	0	0	1	0	0	0	0	0
			Hypopyrini				u, w	stable	0	0	1	1	1	0	0	1	0
					not threatened					v	4			v			
			Ophiusini	Achaea janata	not threatened	c.w			0	1		2	0	0	0	1	
			Ophiusini	Achaea janata Artena dotata	not threatened		c, w	stable	0	1	1	2	0	0	0	1	1
			Ophiusini	Achaea janata Artena dotata Ophiusa disjungens	not threatened not evaluated	t, 1	f, w	increasing	8	2	1	10	0	1	1	1 0	1 0
			Ophiusini	Achaea janata Artena dotata Ophiusa disjungens Ophiusa tirhaca	not threatened not evaluated not evaluated	f, l u, l	f, w u, w	increasing stable	8	2 0	1 0 2	10 2	0	1	1 0	2	1 0 0
			Ophiusini	Achaea janata Artena dotata Ophiusa disjungens Ophiusa tirhaca Ophiusa trapezium	not threatened not evaluated not evaluated not evaluated	f, l u, l f, w	f, w u, w f, w	increasing stable stable	8 0 0	2 0 0	1 0 2 1	10	0 1 1	1 0 0	1 0 0	2	1 0 0
			Ophiusini	Achaea janata Artena dotata Ophiusa disjungens Ophiusa tirhaca Ophiusa trapezium Ophiusa triphaenoides	not threatened not evaluated not evaluated not evaluated not evaluated	f, 1 u, 1 f, w f, w	f, w u, w f, w f, w	increasing stable stable stable	8 0 0	2 0 0 0	2 1 1	10 2	0 1 1 1	1 0 0	1 0 0 0	2 1 1	1 0 0 0
			Ophiusini	Achaea janata Artena dotata Ophiusa disjungens Ophiusa tirhaca Ophiusa trapezium	not threatened not evaluated not evaluated not evaluated	f, 1 u, 1 f, w f, w	f, w u, w f, w	increasing stable stable	8 0 0	2 0 0	1 0 2 1 1 0	10 2 1	0 1 1	1 0 0	1 0 0	2	1 0 0 0
			Ophiusini	Achaea janata Artena dotata Ophiusa disjungens Ophiusa tirhaca Ophiusa trapezium Ophiusa triphaenoides	not threatened not evaluated not evaluated not evaluated not evaluated	f, I u, I f, w f, w c, w	f, w u, w f, w f, w	increasing stable stable stable	8 0 0	2 0 0 0	2 1 1	10 2 1	0 1 1 1	1 0 0	1 0 0 0	2 1 1	1 0 0 0
			Ophiusini Pericymini	Acheea janata Artena dotata Ophiusa disjungens Ophiusa tirhaca Ophiusa trapezium Ophiusa trapezium Ophiusa trapezium	not threatened not evaluated not evaluated not evaluated not evaluated not threatened	f, I u, I f, w f, w c, w u, w	f, w u, w f, w f, w f, w	increasing stable stable stable decreasing	8 0 0 0 2	2 0 0 0	2 1 1 0	10 2 1 1 2	0 1 1 1 0	1 0 0 0	1 0 0 0	2 1 1 0	1 0 0 0 0 0
			Ophiusini Pericymini Poaphilini	Acheea janata Artena dotata Ophiusa disjungens Ophiusa tirhaca Ophiusa tirapezium Ophiusa tirapezium Ophiusa riphaenoides Thyas juno Pericyma cruegeri	not threatened not evaluated not evaluated not evaluated not evaluated not threatened not evaluated	f, l u, l f, w f, w c, w u, w u, u	f, w u, w f, w f, w f, w f, w f, w	increasing stable stable decreasing increasing	8 0 0 2 0	2 0 0 0 1	2 1 1 0 0	10 2 1 1 2 1	0 1 1 1 0 0	1 0 0 0 0	1 0 0 0 0	2 1 1 0 0	1 0 0 0 0 0 1
			Ophiusini Pericymini Poaphilini	Acheea janata Artena dotata Ophiusa disjungens Ophiusa timaca Ophiusa trapezium Ophiusa triphaenoides Tryas juno Pericyma cruegeri Bastilla crameri	not threatened not evaluated not evaluated not evaluated not evaluated not threatened not evaluated not evaluated	f, l u, l f, w f, w c, w u, w u, w u, l c, w	f, w u, w f, w f, w f, w f, w f, w f, w	increasing stable stable decreasing increasing increasing	8 0 0 2 0 1	2 0 0 0 1 0	2 1 1 0 0 0	10 2 1 1 2 1	0 1 1 0 0 0	1 0 0 0 0 0 0	1 0 0 0 0 0	2 1 1 0 0 0	1 0 0 0 0 1
			Ophiusini Pericymini Posphilini	Achees janata Artena dotata Ophiusa disjungens Ophiusa tirhaca Ophiusa triphaenoides Thyas juno Pericyma cruegeri Bastilla crameri Bastilla juviana	not threatened not evaluated not evaluated not evaluated not evaluated not threatened not evaluated not evaluated not evaluated not evaluated not evaluated	f, I u, I f, w f, w c, w u, w u, w u, I c, w c, w	f, w u, w f, w f, w f, w f, w f, w f, w c, w c, w	increasing stable stable decreasing increasing stable stable stable	8 0 0 2 0 1 0 2	2 0 0 1 0 1 5	2 1 1 0 0 0 0 2	10 2 1 1 2 1 1 1 9	0 1 1 0 0 0 0	1 0 0 0 0 0 0 0 2	1 0 0 0 0 1 0 5	2 1 1 0 0 0 0 0	1 0 0 0 1 0 1 1
			Ophiusini Pericymini Poaphilini	Acheea janata Artena dotata Ophiusa disjungens Ophiusa tirihaca Ophiusa trapezium Ophiusa trapezium Ophiusa triphaenoides Thyas juno Pericyma cruegeri Bastilla crameri Bastilla fulvotaenia	not threatened not evaluated not evaluated not evaluated not evaluated not threatened not evaluated not evaluated not evaluated	f, I u, I f, w f, w c, w u, w u, I c, w c, w c, w	f, w u, w f, w f, w f, w f, w f, w c, w	increasing stable stable decreasing increasing increasing stable	8 0 0 2 0 1 0	2 0 0 1 0 1	2 1 1 0 0 0 0	10 2 1 2 1 1 1 1	0 1 1 0 0 0	1 0 0 0 0 0 0	1 0 0 0 0 1 0	2 1 1 0 0 0 0	1 0 0 0 1 0 1

amily	Family	Subfamily	Tribe	Species binomial / morphospecies label	Global Status	HK Status & Distribution (1993-2005)	HK Status & Distribution (2006-2019)	trend	2018	02.02	2022-2023	ALL years	new spp in 2022-2023	EIA 1	EIA 2	EIA 3	EIA 4
		Eulepidotinae	Panopodini	Anticarsia irrorata	not evaluated	r, rd	s, w	increasing	1	0	0	1	0	0	1	0	0
		Herminiinae	Herminiini	Adrapsa ablualis	not evaluated	c, w	f, w	decreasing	0	4	0	4	0	2	1	0	1
				Adrapsa mediana	not evaluated	not present	u, 1	strongly increasing	1	2	0	3	0	0	1	0	1
				Adrapsa quadrilinealis	not evaluated	c, w	c, w	stable	1	0	0	1	0	0	0	0	0
				Bertula abjudicalis	not evaluated	c, w	c, w	stable	1	0	0	1	0	0	0	0	0
				Hadennia jutalis agg.	not evaluated	c, w	c, w	stable	13	3	2	18	0	0	4	0	2
				Hipoepa biasalis	not evaluated		f, w	stable	1	0	0		0	0	0	0	0
				Hipoepa fractalis	not evaluated		c, w	increasing	0	5	3	8	0	0	1	2	5
				Hydrillodes lentalis	not evaluated	c. w	c, w	stable	5	24	8	37	0	17	12	1	
				Hydrillodes nilgirialis	not evaluated		f, w	decreasing	0		1	3/	1	1	0	0	
									Ĭ	-	-	-	-	-		-	
				Lysimelia alstoni	not evaluated		f, w	stable	1	3	0		0	1	2	0	
				Lysimelia lucida	PIUCN NT		nr endemic; c,		0	4	2	6		3	3	0	(
				Lysimelia neleusalis	not evaluated	f, w	c, w	increasing	6	1	1	8	0	1	2	0	(
				Nodaria externalis	not evaluated	c, w	c, w	stable	2	11	3	16	0	2	7	1	
				Progonia oileusalis	not evaluated	c, w	c, w	stable	2	2	1	5	0	1	2	1	
				Simplicia mistacalis	not evaluated	s, rd	f, w	strongly increasing	1	1	1	3	0	1	0	0	
				Simplicia niphona	not evaluated	c, w	u, w	decreasing	2	0	0	2	0	0	0	0	
				Simplicia sp. cf. cornicalis	not evaluated	c, w	f, w	decreasing	2	2	5	9	0	2	3	0	1
		Hypeninae	Hypenini	Euwilemania angulata	not evaluated	5. W	u, w	strongly increasing	1	1	0	2	0	0	1	0	(
				Hypena cidarioides	not evaluated		u, w	increasing	1	0	1	2		0	2	0	
				Hypena obacceralis				increasing	0	0	1		1	0	0	1	
					not evaluated	s, I	u, w				-	1	-		-	-	
				Hypena ophiusoides	not evaluated		u, I	decreasing	0	1	0	1	0	0	1	0	
				Hypena similata	not evaluated		r, rd	strongly decreasing	1	0	0	-	0	0	0	0	(
				Naarda ochreistigma	not evaluated	f, rd	f, w	increasing	3	1	0		0	0	1	0	-
			Mecistoptera group	Acidon evae	pIUCN VU	c, w	f. I	decreasing	0	1	0	1	. 0	1	0	0	
				Hepatica sp. A / nov.	pIUCN NT	u, I	c, w	strongly increasing	0	1	0	1	. 0	0	1	0	
		Hypenodinae	Hypenodini	Luceria oculalis	not evaluated	f, w	f, w	stable	5	3	0	8	0	1	2	0	
				Luceria striata	DIUCN NT	endemic: f. w	endemic: f. w	stable	0	0	1	1	1	0	1	0	
				Schrankia bilineata	pIUCN VU	endemic: s w	endemic; s, w	stable	0	1	0	1	0	0	1	0	
				Schrankia costaestrigalis	not threatened		u, w	decreasing	1	2	0		0	0	2	0	
								_	1								
				r Bellulia galsworthyi	PIUCN NT			strongly increasing	0	0	1	1	-	0	0	1	0
			Micronoctuini - Tactusi		pIUCN VU	endemic; r, ro	endemic; s, w	strongly increasing	1	1	4	6	0	1	4	0	
		Hypocalinae	Hypocalini	Hypocala subsatura	not evaluated	c, w	c, w	stable	0	1	0	1	. 0	0	0	0	1
		Lymantriinae	Arctornithini	Arctornis sp. (agg.)	not evaluated	dd	dd (c, w)	stable	1	4	1	6	0	1	0	1	
			Leucomini	Perina nuda	not threatened	c, w	vc, w	strongly increasing	0	2	4	6	0	3	3	0	(
			Lymantriini	Lymantria mathura	not threatened	f, I	f, w	increasing	2	3	0	5	0	1	1	0	1
			Nygmiini	Arna bipunctapex	not threatened	f. w	c, w	increasing	0	2	0	2	0	2	0	0	
				Aroa substrigosa	not evaluated		c, w	stable	0	1	0	1	0	1	0	0	
				Artaxa sp. J	not evaluated		u. w	strongly increasing	0	3	0			0	2	0	
									0	2	0			0	2	0	
				Artaxa sp. nr. lubecula	not evaluated		f, w	stable	-				-				
				Euproctis seitzi	not evaluated		5, W	decreasing	1	0	0		. 0	0	0	0	
				Euproctis sp. G	not evaluated	r, rd	s, I	increasing	0	1	0	1	. 0	0	0	0	
				Orvasca subnotata	not threatened	c, w	c, w	stable	0	0	4	4	1	1	2	1	
				Pantana substrigosa	not evaluated	c, w	c, w	stable	0	0	1	1	1	0	1	0	
			Orgyiini	Calliteara angulata	not evaluated	u, I	u, w	stable	1	0	1	2	0	0	0	1	
				Calliteara grotei (larva)	not evaluated	c, w	c, w	stable	0	0	2	2	1	0	2	0	
				Dasychira chekiangensis	not threatened	c, w	vc, w	strongly increasing	0	1	1	2	0	0	1	1	
				llema costalis	not evaluated	s w	f, w	increasing	0	1	0	1	0	0	1	0	
									3	8	13	-	-	9	11		
				Orgyia postica	not threatened		vc, w	stable	-					-		1	
				Pantana visum		r, rd	s, rd	increasing	0	1	0		-	0	1	0	
		Pangraptinae	Episparis group	Egnasia seclusalis	not evaluated	c, w	c, w	stable	0	1	0	1	0	0	0	0	
				Taviodes fulvescens	not evaluated	not present	f, w	strongly increasing	0	1	0	1	. 0	0	0	0	
			Pangraptini	Pangrapta bicornuta	PIUCN NT	endemic; c, w	endemic; f,w	decreasing	0	2	1	3	0	0	3	0	
				Pangrapta curtalis	not evaluated	f, w	f, w	stable	0	1	1	2	0	0	1	1	
				Pangrapta obscurata	not evaluated	c, w	f, w	decreasing	6	0	0	6	0	0	1	0	:
				Pangrapta sp nr suaveola	not evaluated	not present	vr, rd - NEW H	R ?	0	0	2	2	1	2	0	0	
			Throana group	Throana pectinifer	not evaluated		c, w	increasing	0	1	2		0	0	2	0	
		Rivulinae	Rivulini						0	1	-		0	0	-		
		Rivulinae	Rivulini	Bocula marginata	not evaluated		c, w	stable	-	-	0	1			1	0	
				Rivula basalis		c, w	c, w	stable	0	0	1	1	1	1	0	0	(
				Rivula bioculalis	not evaluated		6 I	stable	0	0	1	1	1	0	0	1	
				Rivula ochracea	not evaluated	u, I	u, w	stable	0	2	1	3	0	2	0	0	
				Rivula sasaphila	not evaluated	u, I	s, w	decreasing	0	1	0	1	. 0	1	0	0	
				Rivula sordida	not evaluated	not present	s, w	increasing	0	0	2	2	1	0	1	1	
				Rivula sp. cf. inconspicua	not evaluated		c, w	increasing	9	10	1	20	0	4	5	0	
				Rivula striatura	not evaluated		f, w	stable	0	3	1	4	0	0	0	1	
		Scolloptenging	Scoliopteryginae incert		not evaluated		u, I	increasing	1	0	0		0	0	0	0	
		sconopteryginae							-				-	-		-	
			Scoliopterygini	Anomis figlina	not evaluated		u, w	strongly decreasing	1	0	0	-	0	0	0	0	
				Anomis flava	not evaluated	c, w	f, w	decreasing	1	1	0	2	0	0	0	0	
				Anomis flava / Iyona agg (females)	not evaluated	c, w	f, w	decreasing	1	0	1	2	0	0	1	0	
				Anomis Iyona	not evaluated	dd	f, w	dd	0	1	0	1	. 0	0	1	0	
				Falana sordida	not evaluated	f, w	f, w	stable	1	3	0	4	0	0	3	0	
	EUPTEROTIDAE	Eupterotinae	(blank)	Apha kantonensis (larva)	not evaluated		f, w	stable	0	0	1	1	. 1	1	0	0	
	EUTELIIDAE	Euteliinae	Euteliini	Chlumetia transversa	not evaluated		f, w	increasing	4	0	1	5	-	0	1	0	
	EUTELIIDAE	Luteninae	LUCCIIIII							-	-	-	-	-	-		
				Penicillaria jocosatrix	not evaluated		u, w	stable	0	1	0		0	0	0	0	
		Stictopterinae	Odontodini	Lophoptera hayesi	not evaluated		s, I	increasing	0	1	0	1	. 0	0	0	0	
				Lophoptera hemithyris	not evaluated	s, I	s, I	stable	0	0	1	1	. 1	0	0	1	

Superfamily	Family	Subfamily	Tribe	Species binomial / morphospecies label	Global Status	HK Status & Distribution (1993-2005)	HK Status & Distribution (2006-2019)	trend	2018	02.02	2022-2023	ALL years	new spp in 2022-2023	EIA 1	EIA 2	EIA 3	EIA 4	non-EIA
	NOCTUIDAE	Acontiinae	Acontiini	Acontiinae genus & sp. B	not evaluated	u, I	u, 1	stable	1	0	0	1	0	0	1	0	0	
		Acronictinae	Acronictini	Bryophilina mollicula	not evaluated	vr, rd	s, I	increasing	0	1	0	1		0	1	0	0	
		Aediinae	Aediini	Aedia leucomelas	not evaluated	f, w	f, w	stable	0	4	0	4	-	2	1	0	1	
			Elaphriini	Mosara apicalis	not evaluated	c, w c, w	c, w f, w	stable	0 10	0	1	1		0	1	0	0	10
		Agaristinae	Agaristini	Ecpatia longinquua Mimeusemia postica	not evaluated	c, w c, w	f, w	decreasing	10	0	0	10		0	0	0	0	1
		Bagisarinae	Bagisarini	Amyna axis	not threatened		f, w	stable	11	0	3	14		2	0	1	0	11
				Amyna punctum	not threatened	f, w	f, w	stable	2	0	0	2	0	0	0	0	0	2
				Chasmina candida	not evaluated	u, I	f, w	increasing	2	0	0	2	0	0	0	0	0	2
				Dyrzela plagiata	not evaluated	f, w	f, w	stable	5	0	0	5	0	0	0	0	0	5
		Condicinae	Condicini	Acosmetia chinensis	not evaluated	u, w	61	strongly decreasing	0	1	0	1	0	0	1	0	0	0
				Condica conducta	not threatened	-4.1	c, w	stable	3	2	0	5		0	3	0	1	1
				Condica illecta	not threatened		c, w	stable	8	5	7	20		5	3	0	5	7
		Dyopsinae		Belciana scorpio	not threatened		s, I	decreasing	0	1	0	1		0	1	0	0	(
				Cyclodes omma	not evaluated	r, rd	f, w	strongly increasing	4	0	0	4	-	0	0	0	0	
		Eriopinae		Callopistria exotica Callopistria maillardi	not evaluated	c, w r, rd	c, w u, l	stable	0	1	0	5		1	1	1	0	0
				Callopistria rivularis	not evaluated	s, w	n I	decreasing	0	1	2	3		0	1	2	0	_
				Callopistria sp. cf. deflexusa	not evaluated	dd	s, w	?	0	0	1	1	1	1	0	0	0	-
				Callopistria sp. nr. duplicans	not evaluated	dd	s, w	increasing	3	0	0	3	0	0	0	0	0	3
		Eustrotiinae	Eustrotiini	Maliattha signifera	not threatened	c, w	f, w	decreasing	11	4	1	16	0	2	3	0	1	10
		Heliothinae		Helicoverpa armigera	not threatened	f, w	f, w	stable	0	0	1	1	1	0	0	1	0	0
		Lophonyctinae	Lophonyctini	Lophonycta confusa	not evaluated	t, i	u, w	decreasing	1	0	0	1	. 0	0	0	0	0	1
		Noctuinae	Agrotini	Agrotis ipsilon	not threatened	c, w	u, w	decreasing	0	0	2	2	1	2	0	0	0	C
			Caradrinini - Athetiina	Athetis bremusa	not evaluated	c, w	c, w	stable	11	6	2	19	0	1	7	1	1	9
				Athetis cognata	not evaluated	c, w	f, w	decreasing	1	1	2	4	0	1	2	0	0	1
				Athetis hongkongensis	PIUCN NT	endemic; c, w	endemic; c, w	stable	1	4	2	7	0	3	0	0	3	1
				Athetis obtusa	not evaluated	f, 1	f, w	stable	0	0	3	3	1	1	1	1	0	0
				Athetis sincera	not evaluated	c, w	u, w	strongly decreasing	1	0	0	1	0	0	0	0	0	1
				Athetis stellata	not evaluated	c, w	c, w	stable	0	0	1	1	1	1	0	0	0	0
				Athetis terminata	not evaluated		u, w	strongly increasing	0	1	6	7	0	2	5	0	0	0
				Athetis thoracica	not evaluated	f, w	u, w	decreasing	0	0	1	1	-	0	1	0	0	0
			Dypterygiini	Sasunaga tenebrosa	not evaluated	c, w	s, I	strongly decreasing	1	0	0	1		0	0	0	0	1
				Trachea auriplena	not evaluated	f, w	f, w	stable	0	2	0	2		0	1	0	1	0
			Elaphriini	Ecpatia longinquua	not evaluated	c, w	f, w	decreasing	0	3	0	3	-	0	1	0	2	0
			Leucaniini	Strotihypera macroplaga	not evaluated	f, w	f, w	stable	0	2	0	2		0	1	0	10	0
			Leucaniini	Leucania roseilinea Leucania yu	not evaluated	u, w	s, w f, w	decreasing decreasing	0	2		1	-	0	4	4	1	1
				Mythimna compta	not evaluated	u, w	u, w	stable	1	0	0	1		0	0	0	0	1
				Mythimna moorei		s, I	s, w	increasing	1	0	0	1		0	0	0	0	1
				Mythimna reversa		c. w	f, w	decreasing	1	1	0	2	0	0	0	0	1	1
				Mythimna snelleni	not evaluated	c, w	f, w	decreasing	0	1	0	1	. 0	1	0	0	0	0
				Tiracola plagiata	not evaluated	r, rd	r, rd	stable	0	1	0	1	. 0	0	0	0	1	0
			Noctuinae incertae sed	Paradiopa postfusca	not evaluated		f, w	decreasing	2	2	0	4	. 0	2	0	0	0	2
			Prodeniini	Spodoptera cilium	not threatened	f, w	f, w	stable	115	180	52	347	0	130	49	25	40	103
				Spodoptera exigua	not threatened	f, w	u, w	decreasing	0	1	17	18	0	4	3	10	1	0
				Spodoptera litura	not threatened	c, w	vc, w	increasing	4	5	2	11	. 0	1	3	1	4	2
				Spodoptera mauritia	not threatened	c, w	u, w	decreasing	2	3	2	7	0	2	0	0	3	2
				Spodoptera pecten	not threatened	f, w	f, w	stable	18	6	1	25		2	4	0	9	10
				Spodoptera pectinicornis	PIUCN NT	r, rd	6.I	stable	3	3	0	6		2	0	0	4	0
		Pantheinae	Pantheini	Antitrisuloides catocalina	not evaluated		r, rd	stable	0	1	0	1	-	0	1	0	0	0
		Plusiinae	Argyrogrammatini	Chrysodeixis eriosoma	not threatened		c, w	stable	5	0	1	6	0	0	1	0	0	0
				Ctenoplusia agnata Ctenoplusia albostriata	not evaluated		f, w f, w	decreasing	1	0	1	-	1	0	0	1	1	0
				Dactyloplusia impulsa	not threatened		6 W	decreasing	1	0	0	1	0	0	1	0	0	0
				Plusiopalpa adrasta		s, i c. w	c. w	stable	0	0	1	1		0	0	1	0	0
				Thysanoplusia daubei	not evaluated	s. I	s, I	stable	0	0	1	1	1	0	1	0	0	0
				Thysanoplusia reticulata	not evaluated		u, w	strongly increasing	1	1	0	2	0	0	1	0	0	1
				Zonoplusia ochreata	not evaluated	f, w	f, w	stable	1	1	0	2	0	0	0	0	1	1
		unplaced to subfar	mily (Noctuidae)	Elusa antennata	not evaluated	c, w	c, w	stable	2	0	7	9	0	1	4	2	0	2
				Elusa sp. cf. subjecta	not evaluated	not present	61	strongly increasing	0	0	5	5	1	4	1	0	0	C
				Elusa sp. cf. ustula	not evaluated	not present	vr, rd - NEW H	K?Establishing	0	0	1	1	1	1	0	0	0	C
	NOLIDAE	Chloephorinae	Ariolicini	Paracrama latimargo	not evaluated	c, w	f, w	decreasing	3	2	0	5	0	0	2	0	0	3
			Careina	Calymera confinis		c, w	c, w	stable	0	3	2	5		2	2	0	1	0
				Carea angulata	not evaluated	f, w	f, w	stable	0	5	0	5		0	0	0	5	0
			Eariadini	Earias flavida	not evaluated		f, w	stable	1	0	0	1	0	0	0	0	0	1
				Earias luteolaria	not evaluated		u, w	decreasing	0	3	0	3		1	2	0	0	C
			Sarrothripini	Blenina quinaria		f, w	f, w	stable	1	0	0	1	0	0	0	0	0	1
				Etanna breviuscula	not threatened		c, w	increasing	1	2	1	4	0	2	0	0	1	1
		Fligminae		Garella ruficirra	not evaluated		u, w	increasing	4	0	0	-	0	0	0	0	0	-4
		Eligminae		Gadirtha impingens Selepa discigera	not evaluated		u, w u, l	decreasing	0	0	1	1	1	1	0	0	0	0
				Selepa discigera Selepa molybdea	not evaluated	- 7 -	u, I u, w	increasing	1	0	1	1	0	0	1	1	0	-
		Nolinae	Collomenini	Lamprothripa scotia	not evaluated		u, w c, w	increasing	0	1	0		0	0	1	0	0	-
			Nolini	Inouenola pallescens	not evaluated		f, w	stable	1	0	2	3		2	0	0	0	1
				Manoba melancholica	not evaluated		r, 1	stable	0	0	1	1		0	1	0	0	-
				Meganola brunellus	not threatened		c, w	stable	1	5	0	6	0	0	5	0	0	1
				Meganola zolotuhini		u, w	s, w	decreasing	0	1	0	1		0	1	0	0	
				Nola bifascialis	not evaluated	u, I	u, w	increasing	0	1	0	1	-	0	1	0	0	
				Nola ceylonica	not evaluated		c, w	stable	0	4	8	12	0	5	3	4	0	(
				Nola lucidalis	not threatened	c, w	f, w	decreasing	0	2	0	2		0	2	0	0	(
				Nola marginata	not evaluated		f, w	stable	0	1	0	1	. 0	0	1	0	0	C
				Nola pascua	not evaluated		f, w	stable	6	6	1	13	0	3	1	0	3	6
				Nola thyrophora	not evaluated	f, w	f, w	stable	1	0	1	2	0	1	0	0	0	:
			Westermanniini	Negeta contrariata	not evaluated		f, w	decreasing	2	0	0	2	0	0	0	0	0	:
				Westermannia superba	not evaluated	not present	vr, rd	increasing	1	0	0	1	. 0	0	0	0	0	1
										0	0		0					

Superfamily	Family	Subfamily	Tribe	Species binomial / morphospecies label	Global Status	HK Status & Distribution (1993-2005)	HK Status & Distribution (2006-2019)	trend	2018	20.20	2022-2023	ALL years	new spp in 2022-2023	EIA 1	EIA 2	EIA 3	EIA 4
PTEROPHOROIDEA	PTEROPHORIDAE	Pterophorinae	Platyptiliini	Lantanophaga pusillidactylus Nippoptilia vitis	not threatened		u, w s, w	decreasing increasing	0	1	0	1		0	1	0	0
				Stenoptilodes taprobanes	not evaluated	r, rd	f, w	strongly increasing	0	2	0	2		1	1	0	0
			Pterophorini	Diacrotricha fasciola	not threatened	s, I	f, w	increasing	1	0	1	2	0	1	0	0	0
				Pterophorinae genus & sp indet A	pIUCN CR	not present	NEW, HK end,	? Establishing	0	0	1	1	1	1	0	0	0
PYRALOIDEA	CRAMBIDAE	Acentropinae		Elophila sp. A	not evaluated	u, w	u, w	stable	1	0	0	1	0	0	0	0	0
				Parapoynx diminutalis	not threatened	c, w	c, w	stable	0	1	0	1	0	0	0	0	1
				Parapoynx stagnalis	not threatened	r, 1	s, w	increasing	1	0	3	4	0	2	0	1	0
				Parapoynx villidalis	not evaluated	r, rd	s, I	increasing	0	0	1	1	1	0	1	0	0
				Eoophyla sp. A (agg.)	not evaluated	f, w	f, w	stable	0	1	0	1	0	1	0	0	0
		Crambinae	Crambini	Chilo luteellus	not evaluated	u, rd	s, rd	decreasing	1	0	0	1	0	0	1	0	0
				Culladia hastiferalis / zhengi agg.	not evaluated	c, w	c, w	stable	51	49	72	172	0	67	25	25	26
				Pseudocatharylla duplicella	not evaluated	u, w	u, w	stable	0	0	3	3	1	0	3	0	0
			Diptychophorini	Glaucocharis siciformis	not evaluated	f, w	f, w	stable	0	0	2	2	1	0	1	1	0
				Microchilo sp A nr inouei	not evaluated	not present	poss HK end. v	r?Establishing	0	0	1	1	1	0	0	1	0
		Cybalomiinae	Cybalomini	Ptychopseustis plumbeolinealis	not evaluated	s, I	s, w	stable	1	0	0	1	0	0	0	0	0
		Glaphyriinae	Glaphyriini	Crocidolomia pavonana	not evaluated	f, w	f, w	stable	0	2	2	4	0	1	2	0	1
		Lathrotelinae		Diplopseustis perieresalis	not threatened		f, w	increasing	1	0	0	1	0	0	0	0	0
				Sufetula sp. cf. sunidesalis	not evaluated		u, w	increasing	0	3	1	4	0	2	1	1	0
		Musotiminae	Musotimini	Drosophantis caeruleata	not evaluated	r, rd	s, I	increasing	0	1	0	1	0	0	1	0	0
		Odontiinae		Hemiscopis sanguinea	not evaluated	c, w	f, w	decreasing	0	0	1	1	1	0	0	1	0
				Heortia vitessoides	not threatened	-4	c, w	stable	0	4	2	6	0	1	1	0	4
		D	B	Syntonarcha iriastis	not evaluated	intr. c, w	intr. c, w	stable	1166	499	409	2074	0	637	81	201	198
		Pyraustinae	Portentomorphini	Hyalobathra coenostolalis	not evaluated	u, I	u, w	increasing	0	3	0	3	0	0	1	0	2
				Hyalobathra undulinea	not evaluated	c, w	c, w	stable	0	2	0	2	0	0	0	0	2
			Pyraustini	Crocidophora habisalis	not evaluated	u, w	s, w	decreasing	1	0	0	1	0	0	0	0	0
				Crypsiptya coclesalis	not evaluated	f, w	u, w	decreasing	3	0	0	3	0	0	0	0	0
				Procedema incisalis		s, w	u, w	increasing	1	0	0	1	0	0	0	0	0
				Sinibotys habisalis	not evaluated	u, w	u, w	stable	1	0	0	1	0	0	0	0	0
			unplaced to tribe	Mabra eryxalis	not evaluated	r, rd	u, I	strongly increasing	0	3	1	4	0	1	2	0	1
				Poliobotys ablactalis	not evaluated	r, rd	s, I	increasing	0	1	0	1	0	0	0	0	1
				Uresiphita quinquigera	not evaluated	s, rd	u, I	strongly increasing	0	1	0	1	0	0	1	0	0
		Schoenobiinae		Scirpophaga praelata	not evaluated	u, I	s, w	decreasing	2	0	0	2	0	0	1	0	0
		Spilomelinae	Agroterini	Aetholix flavibasalis	not evaluated	u, I	u, w	increasing	1	0	0	1	0	0	0	0	0
				Agrotera sp. C (dark f/w tornus)	pIUCN EN	endemic; r, l		stable	0	0	1	1	1	0	0	1	0
				Haritalodes derogata	not threatened		c, w	stable	1	0	1	2	0	0	1	0	0
				Nosophora dispilalis	not evaluated	r, 1	s, w	increasing	0	1	0	1	0	0	0	0	1
				Nosophora semitritalis	not evaluated		u, w	decreasing	1	0	0	1	0	0	0	0	0
				Notarcha aurolinealis	not evaluated	c, w	c, w	stable	2	4	0	6	0	3	1	0	0
				Notarcha tigrina	not evaluated		u, w	increasing	0	1	0	1	0	0	1	0	0
				Tyspanodes linealis	not evaluated		r, I	strongly decreasing	1	0	0	1	0	0	0	0	0
			Herpetogrammatini	Eurrhyparodes bracteolalis	not evaluated	f, w	c, w	increasing	0	2	1	3	0	1	2	0	0
				Herpetogramma basalis		u, w	f, w	increasing	3	0	1	4	0	1	1	0	0
				Herpetogramma cynaralis	not evaluated		f, w	stable	0	2	1	3	0	0	1	0	2
				Herpetogramma licarsisalis	not threatened		c, w	stable	105	61	16	182		25	34	12	20
				Herpetogramma rudis	not evaluated		c, w	increasing	1	7	0	8	0	2	2	0	3
			Hydririni Hymeniini	Hydriris ornatalis Hymenia perspectalis	not threatened		c, w	stable strongly increasing	4	0 10	2	14	0	5	4	1	0
			nymennin	Spoladea recurvalis	not threatened		f, w c, w	stable	24	20	6	50		3	10	4	11
			Margaroniini	Agrioglypta zelimalis	not evaluated	r, rd	r, rd	stable	1	1	0	2		0	2	0	0
			margaronnin	Conogethes haemactalis		not present	vr, rd	? Establishing	0	0	1	1	1	0	0	1	0
				Diaphania indica	not evaluated	f, w	f, w	stable	1	1	0	2	0	0	0	0	1
				Didymostoma chalybifascia	not evaluated		s, w	stable	0	1	0	1	0	0	0	0	1
				Dysallacta negatalis	not evaluated		s, I	increasing	2	1	0	3	0	0	0	0	1
				Glyphodes bivitralis	not threatened		f, w	decreasing	1	0	0	1	0	0	0	0	0
				Glyphodes caesalis [group]	not evaluated		f, w	stable	0	0	1	1	1	0	0	1	0
				Glyphodes onychinalis	not evaluated		t.w	increasing	1	0	0	1	0	0	0	0	0
				Glyphodes stolalis [group]		s, I	r, rd	decreasing	0	1	0	1	0	0	0	0	1
				Maruca vitrata	not evaluated		c, w	stable	0	2	0	2	0	0	2	0	0
				Omiodes diemenalis	not threatened		t, w	increasing	0	3	0	3	0	2	1	0	0
				Omiodes sp. D	not evaluated	u, w	t, w	increasing	0	0	1	1	1	1	0	0	0
				Omiodes tristrialis		s, I	t.w	strongly increasing	14	18	7	39	0	11	6	0	8
				Palpita annulifer [group]	not evaluated		f, w	stable	14	10	3	9	0	2	2	0	5
				Palpita minuscula	plUCN NT	s, I	u, w	increasing	0	0	2	2	1	2	0	0	0
				Palpita minuscula	pIUNC NT	s, i s, l	u, w	increasing	1	0	0	1	0	0	0	0	0
				Palpita minuscula Palpita pajnii	not evaluated		u, w u, w	increasing	1	0	0	1	0	0	0	2	0
				Palpita pajnii Palpita parvifraterna	not evaluated		u, w s, I	stable	0	2	2	3	0	3	0	2	0
				Palpita warrenalis	not threatened		s, 1 u, 1	stable	0	1	0		0	0	0	0	1
									0	1	0	1	0	0	0	0	1
				Parotis punctiferalis	not evaluated		c, w	stable	1	0	0	1	0	0	0	0	0
			Nemertil-i	Stemorrhages sp cf marthesiusalis	not evaluated		s, I	increasing				1					
			Nomophilini	Bocchoris inspersalis	not threatened		f, w	decreasing	3	1	0	4	0	0	0	0	1
				Diasemia accalis	not evaluated		f, w	stable	9	7	3	19		5	5	1	1
				Lygropia distorta	not evaluated		f, w	increasing	1	0	0	1	0	0	1	0	0
				Nomophila noctuella	not threatened		u, migrant?	increasing	0	1	7	8	0	3	3	1	1
			- 1	Sameodes cancellalis	not threatened		c, w	increasing	1	4	0	5	0	2	2	0	0
			Spilomelini	Cnaphalocrocis latimarginalis	not threatened		f, w	stable	3	8	0	11		5	4	0	1
				Cnaphalocrocis medinalis	not threatened		c, w	stable	2	20	6	28	0	7	5	5	10
				Cnaphalocrocis poeyalis	not threatened		c, w	stable	1	3	0	4	0	0	0	0	3
				Cnaphalocrocis trapezalis	not evaluated		s, I	stable	0	1	0	1	0	1	0	0	0
			Steniini	Bradina admixtalis	not evaluated	r, 1	s, I	increasing	0	1	4	5	0	0	3	1	1
				Bradina sp. A	not evaluated	s, I	f, w	increasing	7	0	0	7	0	0	0	0	0
				Tatobotys biannulalis	not evaluated	s, I	u, I	increasing	0	33	2	35	0	0	0	2	33
			Trichaeini	Archernis humilis		u, I	s, w	decreasing	1	0	0	1	0	0	1	0	0

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			unplaced to tribe	Almonia sp. indet. A	not evaluated	not present	u, w	increasing	0	0	1	1	1	0	0	1	0
				Analyta apicalis	not evaluated	s, I	s, w	stable	1	0	0	1	0	0	1	0	0
				Camptomastix hisbonalis	not evaluated		c, w	stable	2	2	0	4	0	0	2	0	0
				Cangetta hartoghialis	not evaluated		f, I	stable	2	1	1	4	0	0	2	0	0
				Conogethes evaxalis Conogethes punctiferalis agg.	not evaluated		r, rd f, w	increasing stable	1	0	0	1	0	0	0	0	0
				Conogethes punctiferalis agg. Coptobasis sp. A	not threatened		f, w	increasing	11	0	0	11	0	0	0	0	0
				Cotachena histricalis	not evaluated	u, w	f, w	increasing	2	0	0		0	0	2	0	0
				Glyphodes negatalis	not evaluated	r, rd	s, w	increasing	1	0	0	1	0	0	0	0	0
				Hydriris ornatalis	not threatened		c, w	stable	3	0	0	3	0	0	1	0	0
				Metoeca foedalis	not threatened		c, w	stable	4	9	4	17	0	9	6	0	2
				Metoeca nymphulalis	not evaluated	r, I	u, w	increasing	0	0	2	2	1	0	1	1	0
				Nacoleia charesalis	not threatened	c, w	c, w	stable	0	0	5	5	1	2	1	2	0
				Nacoleia commixta	not evaluated	c, w	c, w	stable	3	1	0	4	0	0	2	0	0
				Nacoleia tampiusalis	not evaluated	c, w	c, w	stable	1	8	1	10	0	0	9	0	0
				Nausinoe perspectata	not threatened	r, rd	s, I	increasing	0	1	2	3	0	1	2	0	0
				Protonoceras capitalis	not evaluated	u, w	f, w	increasing	0	0	1	1	1	0	1	0	0
				Rehimena phrynealis	not evaluated	f, 1	f, w	increasing	2	0	0	2	0	0	1	0	0
				Rhimphaliodes macrostigma	not evaluated	not present	f, w	strongly increasing	1	0	0	1	0	0	0	0	1
				Syllepte sellalis	not evaluated	u, I	u, w	stable	0	1	0	1	0	0	0	0	1
				Talanga sexpunctalis	not threatened	c, w	c, w	stable	10	4	0	14	0	0	3	0	1
			Wurthiini	Niphopyralis sp. A	PIUCN NT	r, rd	uw	strongly increasing	1	0	2	3	0	2	0	0	0
	PYRALIDAE	Epipaschiinae	Epipaschiini	Lamida sp. cf. moncusalis	not evaluated	s, rd	r, rd	decreasing	1	0	0	1	0	0	0	0	0
				Lepidogma sp. A	pIUCN NT	s, I	s, w	increasing	2	1	0	3	0	0	1	0	0
				Salma ridiculalis	not evaluated	u, I	f, w	increasing	0	1	11	12	0	3	8	1	0
		Galleriinae	Tirathabini	Corcyra cephalonica	not evaluated	dd (urban?)	u, w	increasing	0	0	4	4	1	3	0	1	0
				Doloessa viridis	not evaluated	c, w	f, w	decreasing	3	0	0	3	0	0	0	0	0
				Lamoria adaptella	not evaluated	s, I	u, w	increasing	4	3	0	7	0	0	6	0	0
		Phycitinae	Cryptoblabini	Guastica semilutea	not evaluated	c, w	c, w	stable	0	2	2	4	0	0	2	0	2
			Phycitini	Acrobasis encaustella	not evaluated	u, I	s, I	decreasing	0	1	1	2	0	0	2	0	0
				Acrobasis sp indet	not evaluated	not present	s, w	increasing	0	0	1	1	1	1	0	0	0
				Anabasis obliquifasciella	not evaluated	vr, rd	r, 1	increasing	1	0	0	1	0	0	0	0	0
				Assara sp. A	not evaluated	u, I	u, I	stable	0	1	0	1	0	0	1	0	0
				Copamyntis leptocosma	not evaluated		u, I	increasing	0	0	1	1	1	1	0	0	0
				Ectomyelois ceratoniae	not threatened		c, w	stable	0	0	2	2	1	1	1	0	0
				Etiella zinckenella	not threatened		f, w	stable	1	1	0	2	0	0	0	0	1
				Euzophera batangensis	not evaluated		s, I	stable	0	0	1	1	1	1	0	0	0
				Indomyrlaea ferreotincta	not evaluated	s, I	f, w	increasing	1	1	0	2	0	0	0	0	1
				Mesciniadia infractalis	not evaluated		s, w	increasing	2	0	0	2	0	0	1	0	0
				Metallostichodes hemicautella	not evaluated		u, I	stable	0	3	0	3	0	0	2	0	1
				Metallostichodes sp. C	not evaluated		u, I	increasing	0	0	3	3	1	0	1	2	0
				Nephopterix ferreotincta	not evaluated		f, w	stable	0	0	5	5	1	2	1	2	0
				Phycita cavifrons Phycita cirrhodelta?	not evaluated	s, I	u, w	increasing	0	2	2	4	0	3	1	0	0
				Phycita cirrhodeita? Phycitini sp indet A of 20230318	not evaluated		u, w	increasing 2 Establishing	0	0	1	1	1	0	1	0	0
					not evaluated		r, rd s, l	? Establishing decreasing	0	16	0	16	0	3	2	0	11
		Pyralinae	Endotrichini	Ptyomaxia syntaractis Endotricha consocia	not threatened	r, rd	s, I	increasing	0	10	1	10	0	0	3	0	1
		rylalliae	Endotricinin	Endotricha mesenterialis				-	0	2	2	4	0	0	4	0	0
				Endotricha minialis	not evaluated	not present	u, w s, I	strongly increasing decreasing	1	0	0	1	0	0	0	0	0
				Endotricha minutipera	not evaluated	vr. rd	s, w	increasing	23	5	0	28	0	0	3	0	2
				Endotricha olivacealis	not evaluated		c, w	stable	23	1	0		0	0	1	0	0
				Endotricha repandalis	not evaluated		c, w	stable	19	1	5	25	0	2	3	2	0
				Endotricha theonalis	not evaluated		c, w	stable	1	0	1	2	0	1	0	0	0
			Pyralini	Arippara indicator	not evaluated		c, w	increasing	8	0	0	8	0	0	2	0	0
				Hypsopygia igniflualis	not evaluated		t, w	stable	1	0	0	1	0	0	0	0	0
				Hypsopygia mauritialis	not evaluated		f, w	stable	3	1	0	4	0	1	0	0	0
				Hypsopygia nannodes	not evaluated		f, w	increasing	1	2	1	4	0	1	1	0	1
				Hypsopygia repetita	not evaluated		s, w	increasing	1	0	2	3	0	2	0	0	0
				Perisseretma endotrichalis	not evaluated	-7.	t, w	increasing	0	0	2	2	1	0	2	0	0
				Pyralis pictalis	not threatened		f, w	decreasing	0	1	0	1	0	1	0	0	0
				Zitha torridalis	not threatened	u, I	f. w	increasing	1	0	1	2	0	1	0	0	0
				Zitha tripartalis	not evaluated	dd	r, rd	increasing	2	0	0	2	0	0	0	0	0
HYRIDOIDEA	THYRIDIDAE	Siculodinae		Herdonia hainanensis	not evaluated		f, w	stable	0	1	0	1	0	0	0	0	1
		Thyridinae		Dysodia miniata	not evaluated		s, w	decreasing	0	2	0	2	0	1	0	0	1
NEOIDEA	MEESSIIDAE			Infurcitinea ? sp indet.	not evaluated	s, w	dd	(blank)	0	0	1	1	1	0	1	0	0
	PSYCHIDAE	Oiketicinae		Amatissa leonina	not evaluated		s, I	increasing	0	0	16	16	1	7	9	0	0
		Unplaced to subfa	mily (Psychidae)	genus & sp. indet. A	pIUCN VU	dd	dd	dd	0	1	0	1	0	0	1	0	0
				Kophene sp. A nr. cuprea	pIUCN NT	s, I	u, w	increasing	0	2	0	2	0	2	0	0	0
	TINEIDAE	Erechthiinae	Erechthiini	Erechthias atririvis	not evaluated		u, w	increasing	4	0	0	4	0	0	1	0	0
		Hapsiferinae	Hapsiferini	Dasyses sp. nr. correpta	not evaluated	-7	c, w	strongly increasing	0	1	0	1	0	0	1	0	0
		Myrmecozelinae	Myrmecozelini	Tineovertex sp. nr. antidroma	not evaluated		r, 1	increasing	1	ō	0	1	0	0	ō	0	0
			unplaced to tribe	Thisizima subceratella	pIUCN VU	r, rd	u, w	increasing	1	0	0	1	0	0	0	0	0
		Perissomasticinae		Edosa robinsoni?	not evaluated		dd	dd	0	0	1	1	1	1	0	0	0
				Edosa varians	not evaluated		c, w	stable	6	0	1	7	0	0	2	0	2
		Tineinae	Monopini	Monopis sp. A	not evaluated		dd	dd	1	0	0	1	0	0	0	0	0
		unplaced to subfa		Tineidae genus & sp indet A of 20230317			dd	dd	0	0	2	2	1	1	1	0	0
										0	2				1	U	0

Superfamily	Family	Subfamily	Tribe	Species binomial / morphospecies label	Global Status	HK Status & Distribution (1993-2005)	HK Status & Distribution (2006-2019)	trend	2018	02.02	2022-2023	ALL years	new spp in 2022-2023	EIA 1	EIA 2	EIA 3	EIA 4
TORTRICOIDEA	TORTRICIDAE	Chlidanotinae	Polyorthini	Polylopha cassiicola	pIUCN NT	dd (r, rd)	s, w	increasing	1	4	0	5	0	0	3	0	1
		Olethreutinae	Bactrini	Bactra sp. A	not evaluated	u, I	r, rd	decreasing	1	0	0	1	0	0	0	0	0
				Bactra venosana	not threatened	r, rd	r, rd	stable	0	2	0	2	0	1	1	0	0
			Enarmoniini	Anthozela sp. A	pIUCN CR	not present	vr, rd [New HK]	dd	0	1	0	1	0	0	0	0	1
				Enarmoniini genus & sp D	pIUCN CR	vr, rd	vr, rd [New HK]	dd	0	0	1	1	1	1	0	0	0
				Enarmoniini genus & sp. indet. B	pIUCN NT	not present	s, w	strongly increasing	0	3	0	3	0	0	0	0	3
				Enarmoniini sp. C	PIUCN NT	u, w	u, w	stable	0	0	3	3	1	1	2	0	0
				Fibuloides cyanopsis				decreasing	0	1	0	1	0	0	1	0	0
				Rhopobota naevana	not threatened	u, w	u, w	increasing	0	1	0	1	0	1	0	0	0
			Eucosmini	Dicephalarcha herbosa	not evaluated	u, I	s, w	increasing	1	0	1	2	0	0	1	0	0
				Eucosmini sp. A (IGMHK)	pIUCN VU	r, rd		stable	1	0	0	1	0	0	0	0	0
				Eucosmini sp. C (IGMHK)	PIUCN NT	s, rd	u, w	increasing	0	0	1	1	1	1	0	0	0
				Peridaedala sp. cf. tonkinana	not evaluated	not present		increasing	0	11	3	14	0	1	13	0	0
				Rhopobota sp. A cf. naevana	not evaluated	u, w		stable	0	0	3	3	1	3	0	0	0
				Strepsicrates sp A cf. semicanella	not threatened		u, w	increasing	1	1	24	26	0	20	2	4	0
			Gatesclarkeanini	Gatesclarkeana idia		-1	f, w	increasing	0	3	1	4	0	1	1	0	2
			Grapholitini	Cryptophlebia ombrodelta	not threatened		f, w	decreasing	7	1	1	9	0	0	1	1	1
				Cryptophlebia repletana	not threatened			decreasing	5	0	0	5	0	0	1	0	3
				Cryptophlebia sp. A	not evaluated	vr, rd		stable	2	0	0	2	0	0	0	0	2
				Cydia sp. A nr. nigricana / inopinata	not evaluated	r, I	r, 1	stable	12	0	0	12		0	2	0	2
				Grapholitini sp. A	PIUCN EN			dd	1	0	0	1	0	0	0	0	0
				Matsumuraeses vicina	not evaluated	not present	u, I	increasing	0	0	1	1	1	1	0	0	0
				Thaumatotibia sp. B cf. hemitoma	not evaluated	dd (r, rd)		strongly increasing	29	31	16	76	0	8	32	4	9
			Microcorsini	Cryptaspasma helota	not evaluated	f, w		stable	2	1	0	3	0	0	0	0	1
			Olethreutini	Dudua aprobola	not threatened		f, w	decreasing	0	12	3	15	0	8	3	3	1
				Dudua hemigrapta	not evaluated	u, w	s, w	decreasing	2	1	0	3	0	0	1	0	1
				Lobesia aeolopa	not threatened			stable	1	8	1	10	0	0	6	1	2
				Lobesia sp. A	not evaluated		r, rd	stable	0	1	0	1	0	0	1	0	0
				Lobesia sp. B nr. pyriformis	not evaluated	s, I	61	decreasing	0	0	1	1	1	0	0	1	0
				Ophiorrhabda mormopa	not evaluated	u, I		stable	1	2	0	3	0	0	0	0	2
				Phaecasiophora cornigera	not evaluated	u, I	61	decreasing	2	2	0	4	0	2	2	0	0
				Phaecasiophora fernaldana	not evaluated	s, w	61	decreasing	0	3	0	3	0	0	2	0	1
				Phaecasiophora leechi	not evaluated	c, w	f, w	decreasing	4	0	0	4	0	0	1	0	1
				Phaecasiophora sp. cf. obraztsovi	not evaluated	not present	r, w	increasing	2	0	0	2	0	0	0	0	0
L				Sorolopha herbifera	not evaluated	not present	r, rd	increasing	0	4	0	4	0	0	0	0	4
				Sorolopha plinthograpta	not evaluated	not present	6 1	increasing	1	1	0	2	0	0	0	0	1
				Sorolopha sp. A nr. phyllochlora	not evaluated	u, w	s, w	decreasing	2	1	0	3	0	1	0	0	0
				Sorolopha sp. C nr. latiuscula	not evaluated	not present	s, I	increasing	0	3	1	4	0	1	0	0	3
				Statherotis discana	not evaluated	u, w	f, w	increasing	3	3	5	11	0	0	4	5	2
				Sycacantha inodes	not evaluated	s, I	u, w	increasing	4	1	0	5	0	0	0	0	2
				Sycacantha inopinata	not threatened	u, w	f, w	increasing	0	8	1	9	0	3	3	0	3
			unplaced to tribe	Olethreutinae genus & sp. A	not evaluated	not present	dd	dd	1	0	0	1	0	0	0	0	0
				Olethreutinae genus & sp. B	not evaluated	not present	dd	dd	1	0	0	1	0	0	0	0	0
				Olethreutinae genus & sp. C	not evaluated	not present	dd	dd	1	0	0	1	0	0	0	0	0
				Olethreutinae genus & sp. D	not evaluated	not present	dd	dd	1	0	0	1	0	0	0	0	0
				Olethreutinae genus & sp. E	not evaluated	not present	dd	dd	1	0	0	1	0	0	0	0	0
				Olethreutinae genus & sp. F	not evaluated	not present	dd	dd	1	0	0	1	0	0	0	0	0
		Tortricinae	Archipini	Adoxophyes privatana	not threatened	c, w	c, w	stable	0	4	0	4	0	0	3	0	1
				Diplocalyptis sp. A / B agg.	not evaluated	f, w	dd	dd	0	1	0	1	0	0	1	0	0
				Diplocalyptis sp. cf. operosa	not evaluated	dd (r, rd)	f, w	increasing	7	1	2	10	0	0	3	2	0
				Homona coffearia	not threatened	c, w	f, w	decreasing	2	0	0	2	0	0	2	0	0
				Homona eductana	not threatened	c, w	u, w	strongly decreasing	1	5	0	6	0	0	4	0	1
				Homona magnanima	not threatened	not present	f, w	stable	1	0	0	1	0	0	0	0	1
				Homona tabescens	not threatened	f, w	s, w	strongly decreasing	0	1	0	1	0	0	1	0	0
				Neocalyptis affinisana agg.	not threatened	c, w	f, w	decreasing	1	2	1	4	0	0	3	0	0
				Neocalyptis liratana	not threatened	f, w	f, w	stable	1	7	9	17	0	3	12	1	0
				Neocalyptis sp. A	not evaluated	not evaluated	dd	dd	1	0	0	1	0	0	0	0	0
			Cnephasiini	Drachmobola sp. A / nov.	pIUCN VU	dd (r, rd)	r, rd	stable	1	2	0	3	0	0	0	0	2
			Phricanthini	Phricanthes flexilineana	not evaluated	c, w	f, w	decreasing	0	5	0	5	0	2	2	0	1
				Phricanthes sp. B nr. peistica	pIUCN NT	u, rd	f, w	strongly increasing	0	1	0	1	0	0	1	0	0
			Tortricini	Cnesteboda celligera	not evaluated	s, I	u, w	increasing	0	1	0	1	0	0	1	0	0
				Protopterna sp. A nr. eremia	not evaluated		s, I	increasing	0	0	2	2	1	2	0	0	0
PONOMEUTOIDEA	ARGYRESTHIIDAE	Argyresthiinae	(blank)	Argyresthia sp. indet. of 20230114	not evaluated	not present	vr, rd - NEW H	? Establishing	0	0	1	1	1	0	1	0	0
	PLUTELLIDAE	Plutellinae	Plutellini	Plutella xylostella	not threatened	c, w	vc, w	increasing	0	4	96	100	0	35	57	8	0
	PRAYDIDAE	Praydinae		Prays sp A cf cingulata	not evaluated		u, w	increasing	0	0	1	1	1	1	0	0	0
YGAENOIDEA	LIMACODIDAE	Limacodinae		Miresa kwangtungensis	not threatened		f, w	stable	7	7	0	14	0	0	4	0	3
				Narosa nigrisigna	not evaluated		f, w	decreasing	, 9	3	0	12	0	0	3	0	2
				Thosea sinensis	not evaluated			stable	1	0	0	1	0	0	0	0	0
		unplaced to subf	amily (Limacodidae)	Cania bilinea	not evaluated		r, w c, w	stable	0	10	0	10	0	0	0	0	10
			(2.1.200.002)	Griseothosea fasciata	not evaluated		f, w	increasing	1	6	1	8	0	3	4	0	0
				Orthocraspeda furva	not evaluated		r, w c. w	increasing	4	0	1	5	0	1	2	0	0
										0	1	5	-	1	2	-	
				Oxyplax pallivitta	not threatened		f, w	stable	1		-	-	0	-	1	0	0
				Phlossa conjuncta	not evaluated			stable	1	0	0	1	0	0	0	0	0
				Quasithosea obliquistriga	not evaluated		c, w	increasing	3	0	0	3	0	0	0	0	1
				Spatulifimbria sp. nr. opprimata	not evaluated		u, w	stable	2	0	7	9	0	4	0	3	0
				Vanlangia castanea	not evaluated			strongly decreasing	10	1	0	11	0	0	1	0	0
	PHAUDIDAE	Phaudinae		Phauda flammans			c, w	stable	0	0	3	3	1	3	0	0	0
	ZYGAENIDAE	Chalcosiinae	Chalcosiini	Pidorus gemina	not evaluated	c, w	f, w	decreasing	25	166	0	191	0	35	137	0	1
				Retina rubrivitta	not evaluated	u, I	c, w	strongly increasing	0	1	0	1	0	0	1	0	0
			Cyclosiini	Cyclosia papilionaris	not threatened		vc, w	strongly increasing	1	2	0	3	0	2	0	0	0