

New records of tiger moths (Lepidoptera: Erebidae: Arctiinae) from Flores Island, Indonesia

Новые находки медведиц (Lepidoptera: Erebidae: Arctiinae) с острова Флорес, Индонезия

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KEY WORDS: Lesser Sunda Archipelago, Wallacean lineage, East Nusa Tenggara, island biogeography, biodiversity.

КЛЮЧЕВЫЕ СЛОВА: Малые Зондские острова, линия Уоллеса, островная биогеография, биоразнообразие.

ABSTRACT. The samples of Arctiini Leach, [1815] collected from Flores Island (Indonesia) and other nearby small islands and deposited in the Russian Museum of Biodiversity Hotspots were studied. The number of processed samples (previously unpublished) belonging to 12 species are 87. Three species are new to the Lepidoptera fauna of island: *Utetheisa lotrix* (Cramer, 1779), *Argina astrea* (Drury, 1777), and *Mangina argus* (Kollar, [1847]). *Mangina argus* is first detected to the east of Wallacean lineage. This finding represents the easternmost known locality of the species and the genus. Thus, the total number of Amerilini and Arctiini species in the fauna of Flores Island is 26 species.

РЕЗЮМЕ. Нами были изучены Arctiini Leach, [1815], собранные с острова Флорес (Индонезия) и близ расположенных малых островов, хранящиеся в Российском музее центров биоразнообразия. Всего было обработано 87 экземпляров (не опубликованных ранее), принадлежащих 12 видам. Три вида оказались новыми для фауны острова: *Utetheisa lotrix* (Cramer, 1779), *Argina astrea* (Drury, 1777) и *Mangina argus* (Kollar, [1847]). *Mangina argus* впервые найдена к востоку от линии Уоллеса и является самой восточной находкой вида и рода. Таким образом, общее число видов Amerilini и Arctiini в фауне острова составило 26 видов.

Introduction

Flores Island has high levels of endemism of several families such as Eupterotidae and Lasiocampidae [Nässig et al., 2009; Zolotuhin, 2009; Nässig, Bouyer, 2010; Spitsyn, Bolotov, 2020a; Spitsyn, Potapov, 2020].

All species of these families are endemics of the island or Lesser Sunda Archipelago [Spitsyn, Bolotov, 2020a; Spitsyn, Potapov, 2020; Spitsyn et al., 2021; Prozorov et al., 2022]. Among tiger moths (Erebidae: Arctiinae) level of endemism is much lower. Only one species in the tribe Amerilini Dubatolov, 2010 is an endemic of the island (50%) [Spitsyn, Bolotov, 2020b]. The tribe Arctiini Leach, [1815] has five species (20.8%) and three subspecies (32%), which are endemics of the island or Lesser Sunda Archipelago [Bolotov et al., 2018; this study]. The fauna of Amerilini and Arctiini of Flores Island recently comprised 22 species [Bolotov et al., 2018]. In 2020 one more *Amerila* Walker, 1855 species, *Amerila rosenfeldae* Spitsyn et Bolotov, 2020, was described from remote mountain range in the middle part of the Flores Island [Spitsyn, Bolotov, 2020b]. In this article, we report on the first records of three species of tiger moths. Therefore, the total number of Amerilini and Arctiini species in the fauna of Flores Island is 26 species [Bolotov et al., 2018; Spitsyn, Bolotov, 2020b; this study]. Additionally, this study presents a new data of locality of nine species, previously known for the island, and illustrations of some species (Figs 1–17).

Material and Methods

This study is based on available materials from the Lepidoptera collection of the Russian Museum of Biodiversity Hotspots, Federal Center for Integrated Arctic Research, Russian Academy of Sciences, Arkhangelsk, Russia (RMBH). Additionally, we reviewed published occurrences of tiger moths from the Flores Island (Table 1). The images of the specimen were taken with a Canon EOS 80D camera (Canon Inc., Tokyo, Japan).

Table 1. List of tiger moth species recorded from Flores Island, Lesser Sunda Archipelago (Lepidoptera: Erebiidae: Arctiinae: Arctiini).

Таблица 1. Список медведиц острова Флорес, Малые Зондские острова (Lepidoptera: Erebiidae: Arctiinae: Arctiini).

Species	Distribution*	Reference to the records from Flores
Amerilini Dubatolov, 2010		
<i>Amerila astreus</i> (Drury, 1773)	India and Sri-Lanka over Nepal, continental China, Taiwan, the Philippines to Indo-China, Indonesia and New Guinea	[Bolotov et al., 2018; Spitsyn, Bolotov, 2020b]
<i>A. rosenfeldae</i> Spitsyn et Bolotov, 2020	Flores	[Spitsyn, Bolotov, 2020b]
Arctiini Leach, [1815]		
<i>Utetheisa palla</i> (Röber, 1891)	Lesser Sundas	[Dubatolov, 2010, 2012; present study]
<i>U. pulchelloides</i> Hampson, 1907	China, Japan, islands of the Indian Ocean, Pakistan, India, Sri-Lanka, Indochina, Malaysia, Indonesia, the Philippines, Australia, Vanuatu, New Caledonia, Norfolk, and New Zealand	[Bolotov et al., 2018 (it was recorded from Kanawa Island); present study (it is recorded from Flores Island)]
<i>U. lotrix</i> (Cramer, 1779)**	Arabian Peninsula and Africa to Australia and New Zealand	[Present study]
<i>Nyctemera arctata regalis</i> Roepke, 1954	Flores	[Roepke, 1954; Dubatolov, 2010, 2012; De Vos, 2015]
<i>N. baulus</i> Boisduval, 1832	Sundaland to North Australia and Samoa	[Roepke, 1954; Bolotov et al., 2018; present study]
<i>N. coleta</i> (Stoll, 1781)	Japan, Oriental Region to New Guinea	[Roepke, 1954; present study]
<i>N. distincta</i> Walker, 1854	Java and Flores	[Bolotov et al., 2018; present study]
<i>N. maculata variamacula</i> De Vos, 2002	Bali, Lombok, and Flores	[De Vos, 2002]
<i>N. pagenstecheri</i> Pagenstecher, 1898	Pulau Laut (South Borneo), Lombok, Sumbawa, and Flores	[Holloway, 1988; Dubatolov, 2010, 2012]
<i>N. simulatrix</i> Walker, [1865]	Sulawesi and Lesser Sundas	[Roepke, 1954; Dubatolov, 2010, 2012]
<i>N. tripunctaria lombokiana</i> (Swinhoe, 1903)	Lombok, Sumba, Sumbawa, Flores, and Alor	[Roepke, 1954; Dubatolov, 2010, 2012]
<i>Argina astrea</i> (Drury, 1777)**	East Africa, through South and Southeast Asia to New Caledonia and Oceania	[Present study]
<i>Mangina argus</i> (Kollar, [1847])**	Pakistan to Indochina, China, Japan (Okinawa), Sundaland, Flores	[Present study]
<i>Aloa cardinalis danau</i> Bolotov, Kondakov et Spitsyn, 2018	West and central Flores	[Bolotov et al., 2018; present study]
<i>A. c. luteomarginata</i> (Rothschild, 1910)	East edge of Flores (Larantuka), Timor, and Maluku	[Rothschild, 1910; Dubatolov, 2004]
<i>A. lactinea</i> (Cramer, [1777])	India and Japan over continental China, Taiwan and the Philippines to Sundaland and Lesser Sundas	[Rothschild, 1910; Dubatolov, 2010, 2012]
<i>Hollowayana landaca</i> (Moore, [1860])	Java to Flores	[Dubatolov, Kishida, 2006]
<i>Aethalida owdai floresiensis</i> Spitsyn et Bolotov, 2016	West Flores; nominative subspecies is known from the Selayar Island near South Sulawesi	[Spitsyn et al., 2016]
<i>Orhantartia cymbalophoroides</i> (Rothschild, 1910)	Flores	[Rothschild, 1910; Dubatolov, Kishida, 2005; Dubatolov, 2010, 2012]
<i>Cretonotos gangis</i> (Linnaeus, 1763)	Middle East (Oman, the United Arab Emirates and Iran), China and Oriental Region to Australia	[Bolotov et al., 2018; present study]
<i>Lemyra everetti</i> (Rothschild, 1910)	Flores	[Dubatolov, 2010, 2012]
<i>L. maculifascia</i> (Walker, 1855)	China, Oriental Region to Australia	[Bolotov et al., 2018; present study]
<i>L. floresina</i> Černý, 2014	Flores	[Černý, 2014]
<i>Spilarctia mikeli</i> Bolotov, Kondakov et Spitsyn, 2018	Flores	[Bolotov et al., 2018]
<i>Euchromia horsfieldi</i> (Moore, 1859)	Sumatra, Java, Borneo, Bali, Lesser Sundas, and Christmas Island	[Bolotov et al., 2018]

* Based on Hampson [1900], Rothschild [1910], Holloway [1988], De Freina [2007], Dubatolov [2010, 2012], Černý [2011] and Bucsek [2012] with our additions.

** First record from Flores Island.

Species list*Utetheisa* Hübner, [1819]*Utetheisa pulchelloides* Hampson, 1907

Fig. 3.

MATERIAL. INDONESIA, East Nusa Tenggara: 1♂, 2♀, Flores Island, Labuan Bajo, disturbed monsoon forest, 08°32'17"S, 119°53'05"E, 21–22.I.2020, V. Spitsyn & E. Spitsyna leg.; 1♂, 6♀, Flores Island, Borong, dry monsoon forest and banana plantations, 08°49'05"S, 120°37'33"E, h 90 m, 24–27.I.2020, V. Spitsyn & E. Spitsyna leg.; 1♂, 1♀, Flores Island, Bajawa, Wolokoro Ecolodge, heavily disturbed monsoon forests and eucalyptus plantings, 08°49'02"S, 120°56'03"E, 28–31.I.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. China, Japan, islands of the Indian Ocean, Pakistan, India, Sri-Lanka, Indochina, Malaysia, Indonesia, the Philippines, Australia, Vanuatu, New Caledonia, Norfolk, and New Zealand.

REMARK. First record from Flores Island (previously it was known from Kanawa Island).

Utetheisa lotrix (Cramer, 1779)

Fig. 6.

MATERIAL. INDONESIA, East Nusa Tenggara: 1♂, 1♀, Padar Island, grasslands, 08°40'43"S, 119°33'23"E, 12.II.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. Arabian Peninsula and Africa to Australia and New Zealand.

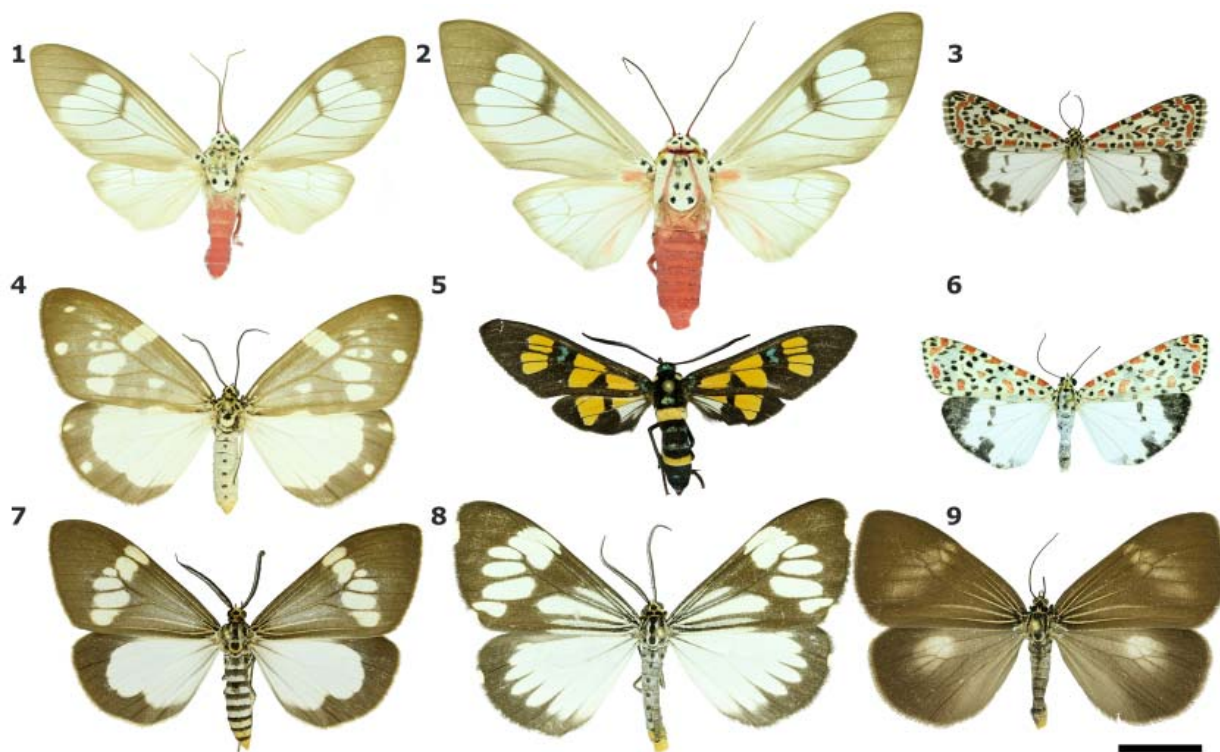
REMARK. First record from Padar Island and the closest to Flores Island. Padar Island is a small island located 20 kilometers from Flores Island. Rinca Island is located between latter islands. Minimal distance by sea from Rinca Island to Padar and Flores islands is one kilometer.

Utetheisa palla (Röber, 1891)

Fig. 4.

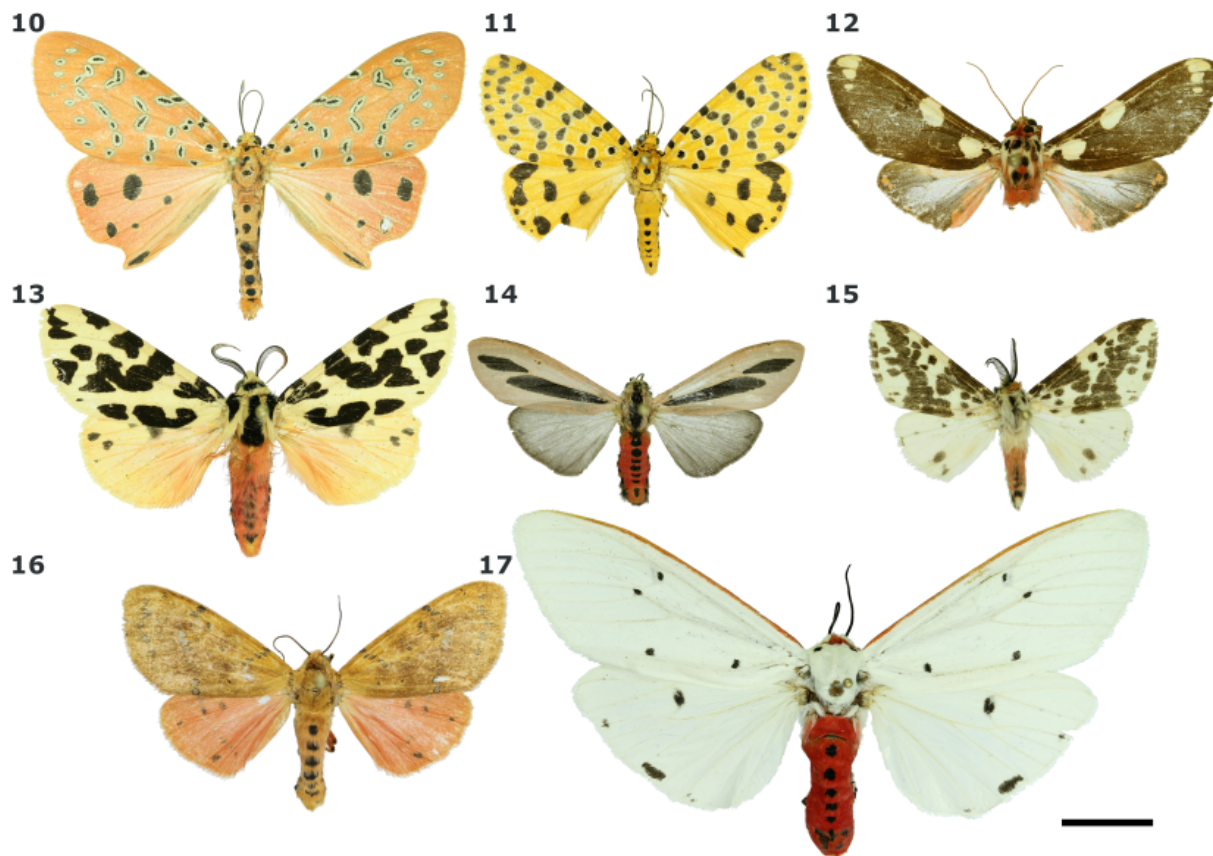
MATERIAL. INDONESIA, East Nusa Tenggara: 1♀, Flores Island, Bajawa, Manulalu Ecolodge, planting of eucalyptus with fragmented areas of natural vegetation, h 1117 m, 08°51'45"S, 120°59'40"E, 1–2.II.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. Lesser Sunda Archipelago.



Figs 1–9. Tiger moths of Flores: 1 — *Amerila astreus* (Drury, 1773); 2 — *A. rosenfeldae* Spitsyn et Bolotov, 2020, HT; 3 — *Utetheisa pulchelloides* Hampson, 1907; 4 — *U. palla* (Röber, 1891); 5 — *Euchromia horsfieldi* (Moore, 1859); 6 — *Utetheisa lotrix* (Cramer, 1779); 7 — *Nyctemera baulus* Boisduval, 1832; 8 — *N. coleta* (Stoll, 1781); 9 — *N. distincta* Walker, 1854. Scale bar 10 mm.

Рис. 1–9. Америлини и Арктиини острова Флорес: 1 — *Amerila astreus*; 2 — *A. rosenfeldae*, HT; 3 — *Utetheisa pulchelloides*; 4 — *U. palla*; 5 — *Euchromia horsfieldi*; 6 — *Utetheisa lotrix*; 7 — *Nyctemera baulus*; 8 — *N. coleta*; 9 — *N. distincta*. Масштабная линейка 10 мм.



Figs 10–17. Tiger moths of Flores: 10 — *Mangina argus* (Kollar, [1847]); 11 — *Argina astrea* (Drury, 1777); 12 — *Aethalida owadai floresiensis* Spitsyn et Bolotov, 2016, HT; 13 — *Orhantartia cymbalophoroides* (Rothschild, 1910); 14 — *Cretonotos gangis* (Linnaeus, 1763); 15 — *Lemyra maculifascia* (Walker, 1855); 16 — *Spilarctia mikeli* Bolotov, Kondakov et Spitsyn, 2018, HT; 17 — *Aloa cardinalis danau* Bolotov, Kondakov et Spitsyn, 2018. Scale bar 10 mm.

Рис. 10–17. Арктии острова Флорес: 10 — *Mangina argus*; 11 — *Argina astrea*; 12 — *Aethalida owadai floresiensis*, HT; 13 — *Orhantartia cymbalophoroides*; 14 — *Cretonotos gangis*; 15 — *Lemyra maculifascia*; 16 — *Spilarctia mikeli*, HT; 17 — *Aloa cardinalis danau*. Масштабная линейка 10 мм.

Nyctemera Hübner, [1820]

Nyctemera baulus Boisduval, 1832

Fig. 7.

MATERIAL. INDONESIA, East Nusa Tenggara: 1♂, Flores Island, Borong, dry monsoon forest and banana plantations, h 90 m, 08°49'05"S, 120°37'33"E, 24–27.I.2020, V. Spitsyn & E. Spitsyna leg.; 3♂, 2♀, Flores Island, Bajawa, Wolokoro Ecolodge, heavily disturbed monsoon forests and eucalyptus plantings, 08°49'02"S, 120°56'03"E, 28–31.I.2020, V. Spitsyn & E. Spitsyna leg.; 1♂, 1♀, Flores Island, Bajawa, Manulalu Ecolodge, planting of eucalyptus with fragmented areas of natural vegetation, h 1117 m, 08°51'45"S, 120°59'40"E, 1–2.II.2020, V. Spitsyn & E. Spitsyna leg.; 2♂, 2♀, Flores Island, Labuan Bajo, Mbeliling Mountain Ecolodge, mountain monsoon forest, 08°35'21"S, 119°59'12"E, 05–07.II.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. Sundaland to North Australia and Samoa.

Nyctemera coleta (Stoll, 1781)

Fig. 8.

MATERIAL. INDONESIA, East Nusa Tenggara: 1♂, Flores Island, Bajawa, Wolokoro Ecolodge, heavily disturbed monsoon forests and eucalyptus plantings, 08°49'02"S, 120°56'03"E, 28–31.I.2020, V. Spitsyn & E. Spitsyna leg.; 1♂, Flores Island, Labuan Bajo, Mbeliling Mountain Ecolodge, mountain monsoon forest, 08°35'21"S, 119°59'12"E, 5–7.II.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. Japan, Oriental Region to New Guinea.

Nyctemera distincta Walker, 1854

Fig. 9.

MATERIAL. INDONESIA, East Nusa Tenggara: 1♀, Flores Island, 4 km E Labuan Bajo, 08°30'07"S, 119°54'50"E, 150 m a.s.l., 23–26.II.2019, N. Rubin leg.

DISTRIBUTION. Java and Flores islands.

Mangina Kaleka et Kirti, 2001

Mangina argus (Kollar, [1847])

Fig. 10.

MATERIAL. INDONESIA, East Nusa Tenggara: 2♂, Flores Island, Bajawa, Wolokoro Ecological, heavily disturbed monsoon forests and eucalyptus plantings, 08°49'02"S, 120°56'03"E, 28–31.I.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. Pakistan to Indochina, China, Japan (Okinawa), Sundaland, Flores Island.

REMARK. First record from Flores Island. This finding represents the easternmost known locality of the species and the genus. The species is first detected to the east of Wallacean lineage.

Argina Hübner, [1819]

Argina astrea (Drury, 1777)

Fig. 11.

MATERIAL. INDONESIA, East Nusa Tenggara: 1♂, Flores Island, Bajawa, Wolokoro Ecological, heavily disturbed monsoon forests and eucalyptus plantings, 08°49'02"S, 120°56'03"E, 28–31.I.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. East Africa, through South and South-east Asia to New Caledonia and Oceania.

REMARK. First record from Flores Island.

Orhantarctia Dubatolov et Kishida, 2005

Orhantarctia cymbalophoroides (Rothschild, 1910)

Fig. 13.

MATERIAL. INDONESIA, East Nusa Tenggara: 7♂, Flores Island, Bajawa, Wolokoro Ecological, heavily disturbed monsoon forests and eucalyptus plantings, 08°49'02"S, 120°56'03"E, 28–31.I.2020, V. Spitsyn & E. Spitsyna leg.; 7♂, Flores Island, Bajawa, Manulalu Ecological, planting of eucalyptus with fragmented areas of natural vegetation, h 1117 m, 08°51'45"S, 120°59'40"E, 1–2.II.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. Flores Island.

Cretonotos Hübner, [1819]

Cretonotos gangis (Linnaeus, 1763)

Fig. 14.

MATERIAL. INDONESIA, East Nusa Tenggara: 1♂, 1♀, Flores Island, Labuan Bajo, disturbed monsoon forest, 08°32'17"S, 119°53'05"E, 21–22.I.2020, V. Spitsyn & E. Spitsyna leg.; 3♂, 1♀, Flores Island, Borong, dry monsoon forest and banana plantations, h 90 m, 08°49'05"S, 120°37'33"E, 24–27.I.2020, V. Spitsyn & E. Spitsyna leg.; 2♂, Flores Island, Bajawa, Wolokoro Ecological, heavily disturbed monsoon forests and eucalyptus plantings, 08°49'02"S, 120°56'03"E, 28–31.I.2020, V. Spitsyn & E. Spitsyna leg.; 2♂, Flores Island, Bajawa, Manulalu Ecological, planting of eucalyptus with fragmented areas of natural vegetation, h 1117 m, 08°51'45"S, 120°59'40"E, 1–2.II.2020, V. Spitsyn & E. Spitsyna leg.; 1♂, Flores Island, Labuan Bajo, disturbed monsoon forest, 08°30'42"S, 119°54'09"E, 13.II.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. Middle East (Oman, the United Arab Emirates and Iran), China and Oriental Region to Australia.

Lemyra Walker, 1856

Lemyra maculifascia (Walker, 1855)

Fig. 15.

MATERIAL. INDONESIA, East Nusa Tenggara: 4♂, Flores Island, Bajawa, Wolokoro Ecological, heavily disturbed monsoon forests and eucalyptus plantings, 08°49'02"S, 120°56'03"E, 28–31.I.2020, V. Spitsyn & E. Spitsyna leg.; 2♂, Flores Island, Bajawa, Manulalu Ecological, planting of eucalyptus with fragmented areas of natural vegetation, h 1117 m, 08°51'45"S, 120°59'40"E, 1–2.II.2020, V. Spitsyn & E. Spitsyna leg.; 3♂, Flores Island, Bajawa, Wolokoro Ecological, heavily disturbed monsoon forests and eucalyptus plantings, 08°49'02"S, 120°56'03"E, 8.II.2020, V. Spitsyn & E. Spitsyna leg.; 7♂, Flores Island, Labuan Bajo, Mbeliling Mountain Ecological, mountain monsoon forest, 08°35'21"S, 119°59'12"E, 5–7.II.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. China, Oriental Region to Australia.

Aloa Walker, 1855

Aloa cardinalis danau Bolotov, Kondakov et Spitsyn,

2018

Fig. 17.

MATERIAL. INDONESIA, East Nusa Tenggara: 5♂, Flores Island, Labuan Bajo, disturbed monsoon forest, 8°32'17"S, 119°53'05"E, 21–22.I.2020, V. Spitsyn & E. Spitsyna leg.; 2♂, 3♀, Flores Island, Borong, dry monsoon forest and banana plantations, h 90 m, 08°49'05"S, 120°37'33"E, 24–27.I.2020, V. Spitsyn & E. Spitsyna leg.; 2♂, 1♀, Flores Island, Bajawa, Manulalu Ecological, planting of eucalyptus with fragmented areas of natural vegetation, h 1117 m, 08°51'45"S, 120°59'40"E, 1–2.II.2020, V. Spitsyn & E. Spitsyna leg.

DISTRIBUTION. West and central Flores Island.

Discussion

Thus, the total number of Amerilini Dubatolov, 2010 and Arctiini Leach, [1815] species in the fauna of Flores Island is 26 species [Bolotov et al., 2018; Spitsyn, Bolotov, 2020b; this study]. However, among these tribes only six species and three subspecies are endemics of the island or Lesser Sunda Archipelago (one species in the tribe Amerilini, five species and three subspecies in the tribe Arctiini) [Bolotov et al., 2018; Spitsyn, Bolotov, 2020b; this study].

Acknowledgements. This study was partly supported by the Russian Ministry of Science and Higher Education (project No. FUUW-2023-0001).

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