

TERRESTRIAL FAUNA OF KASHIMA ISLETS IN THE BAY OF TANABE, WAKAYAMA PREFECTURE¹⁾

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The Islets of Kashima are located in the Bay of Tanabe, and are about 1 km apart from the mainland, Kii Peninsula, and 3.5 km east of the Seto Marine Biological Laboratory at Shirahama, Wakayama Prefecture. The Islets are actually formed of two small islets, joined by natural bridge of rocks. These two islets are about 700 m and 300 m round respectively. Both of them are less than 20 m at the highest, and they are constituted of the Tertiary rocks. They are covered with primeval dense forests which are composed of *Rhus silvestris*, *Ilex integra*, *Machilus Thunbergii*, *Daphniphyllum Teijsmannii*, *Camellia japonica*, *Cinnamomum japonicum*, *Prunus Zippeliana*, etc. Owing to the abundant flora which contains some subtropical plants, the islets have been designated as a natural monument. The flora have been well surveyed and 160 species of higher plants have been recorded previously. But, hitherto few have been known of the terrestrial fauna except the land snails. This is the reason why the present investigation has been undertaken, and the writer had an opportunity to collect and investigate the land animals of these islets from 1 to 5 June, 1956, through the good offices of Dr. Huzio UTINOMI of the Seto Marine Biological Laboratory.

Subterranean animals were collected from forest soil within the depth of about 2.5 cm by using Berlese funnels, and the soil was of so-called mull type and showed acidity of pH 5.8 on an average. Drosophilids are caught by banana-trapping, and other animals were collected by searching the litter layers of the forest and the sea-shore drifts, and by peeling the bark of trees.

The collected animals were classified into 226 species, 193 genera, 123 families, and 31 orders belonging to 4 phyla, as shown in Table 1.

The findings of such subtropical and noticeable species as *Tornatellides boeningi inexpectus*, *Philoscia muscorum*, *Kashimachelifera cinnamomeus*, *Otocryptops rubiginosus kasimensis*, *Duolandrevus coulonianus*, *Laius asahinai*, etc. are of much interest from the zoogeographical view-point.

1) Contributions from the Seto Marine Biological Laboratory, No. 304.

Table 1.

	Class	Order	Family	Genus	Species
Annelida	1	2	3	4	4
Mollusca	1	1	8	13	14
Arthropoda	6	25	108	172	204
<i>Crustacea</i>		2	4	5	5
<i>Arachnida</i>		4	35	48	56
<i>Diplopoda</i>		3	3	3	3
<i>Symphyla</i>		1	2	2	2
<i>Chilopoda</i>		3	6	8	9
<i>Insecta</i>		12	58	106	129
Vertebrata	2	3	4	4	4
Total	10	31	123	193	226

Acknowledgments

The collected animals were sent to specialists for identification, except the molluscs which were referred to the description of Dr. Tokubei KURODA¹⁾ and such groups familiar to the writer as pseudoscorpions, mites, etc. Consequently, the writer is greatly indebted to many following persons who identified the present materials:

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1) KURODA, T., Venus, 13 (5/8) : 313-316, 1944.

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LIST OF THE LAND ANIMALS OF KASHIMA ISLETS¹⁾

Phylum ANNELIDA

Class OLIGOCHAETA

Order Neoligochaeta

Family Megascolecidae

Pheretima servinus HATAI et OHFUCHI モリミミズ 2 *exs*

Family Lumbricidae

Bimastus sp. (similar to *B. parvus*, but smaller) フクロナシミミズの1種 3 *exs*

Eisenia foetida (SAVIGNY) シマミミズ 8 *exs*

Eisenia or *Pheretima* sp. (juvenile) 7 *exs*

Order Archiologochaeta

Family Enchitraeidae

Pachydrilus? sp. ヒメミミズの1種 about 300 *exs*

Phylum MOLLUSCA

Class GASTROPODA

Order Stylommatophora

Family Elasmatidae

Tornatellides boeningi inexpectus (PILSBRY) ノミガイ²⁾

Family Clausiliidae

Tyrannophaedusa plicilabris (A. ADAMS) コスジギセル abundant

Reinia variegata (A. ADAMS) ヒロクチコギセル common

Family Achatinidae

Allopeas pyrgula SCHMACKER et BOETTGER ホソオカチ ヨウジガイ abundant

Family Discidae

Punctum rota PILSBRY et HIRASE クルマナタネ

1) Abbr. *a*=adult, *s*=subadult, *y*=immature, *deut*=deutonymph, *prot*=protonymph, *trit*=tritonymph.

2) Subtropical species, and distributed in S. Kyushu and Izu-hichi-to Islands.

Family Helixarionidae

- Parakaliella crenulata* (GUDE) カサキビ
P. habei (KURODA) ハベキビ
Parasitara pallida (PILSBRY) ウスイロシタラ
Nipponochlamys semisericata (?) (PILSBRY) キヌツヤベッコウ

Family Camaenidae

- Satsuma japonica peculiaria* (A. ADAMS) ムロマイマイ abundant

Family Bradybaenidae

- Euhadra gulicki sigeonis* KURODA シゲオマイマイ abundant
Bradybaena similaris (FÉRUSAC) オナジマイマイ abundant
Acusta sieboldiana (PFEIFFER) ウスカワマイマイ common

Family Streptaxidae

- Guella (Sinoennea) iwakawa* (PILSBRY) タワラガイ abundant

Phylum ARTHROPODA

Class CRUSTACEA

Order Amphipoda

Family Talitridae

- Orchestia platensis* KRÖYER ヒメハマトビムシ 4♂, 15♀, 3s♂, 14s♀, 89y

Order Isopoda

Family Porcellionidae

- Porcellio scaber* LATREILLE ワラジムシ 2♀, 1y

Family Oniscidae

- Alloniscus perconvexus* (DANA) タマワラジムシ 3♀
Philoscia muscorum (SCOPOLI) BUNDE-LUND カナエムシの1種¹⁾ 2♂, 11♀

Family Armadillididae

- Cubalis dorsalis* (IWAMOTO) セグロコシビロテマリムシ 99a, 472y

Class ARACHNIDA

Order Pseudoscorpionidea

Family Chthoniidae

- Mundochthonius japonicus* CHAMBERLIN メクラヒメツチカニムシ 29♂, 12♀, 1 trit
Tyrannochthonius dogoensis MORIKAWA ムネトゲツチカニムシ 1♂, 1♀

1) Recorded in Japan for the first time.

Family Neobisiidae

Neobisium (Parobisium) sp. A. コケカニムシの1種 2 trit, 26 deut, 2 prot

Family Chernetidae

Toxochernes japonicus MORIKAWA モリケルネス 10♂, 21♀, 7 trit, 26 deut, 3 prot

Family Cheliferidae

Kashimachelifer cinnamomeus MORIKAWA カシマイボテカニムシ¹⁾ 2♂, 7♀

Order Araneina

Family Ctenizidae

Ummidia fragaria (DÖNITZ) キノボリトタテグモ 1y♀

Family Segestriidae

Ariadna lateralis (KARSCH) ミヤグモ 1s♀

Family Teridiidae

Teridion crassipes (BOESENBERG et STRAND) コノハヒメグモ 1♀

Th. sterninotatum BOESENBERG et STRAND ムナボシヒメグモ 1s♀

Th. japonicum BOESENBERG et STRAND ヒメグモ 1♂, 1s♀

Th. sp. ヒメグモの1種 1 ex

Dipoena sp. ミジングモの1種 1 ex

Family Micryphantidae

Oedothorax sp. アカムネグモの1種 3 exs

Gen. spp. コサラグモ科の数種 abundant

Family Agriopidae

Neoscona subpullata (BOESENBERG et STRAND) ヘリシロオニグモ 2♀

N. mellotteei SIMON ワキグロサツマノミダマシ 1y♀

Leucauge sp. シロガネグモの1種 1 ex

Family Lycosidae

Pirata piratoides (BOESENBERG et STRAND) ヒナドクグモ 1♀

Lycosa spp. ドクグモの数種 abundant

Family Oxyopidae

Oxyopes sertatus L. KOCH ササグモ 1s♀

1) Found under the bark of tree (*Cinnamomum japonicum*), and described in Zool. Mag. (Jap.) 66 (10) : 399-402, 1957.

Family Agelenidae

- Agelena* sp. クサグモの1種 1 ex
Caelothes sp. ヤチグモの1種 1 ex
Tegenaria sp. タナグモの1種 1 ex

Family Thomisidae

- Xysticus ephippiatus* SIMON ヤミイロカニグモ 2♂

Family Salticidae

- Myrmarachne japonica* (KARSCH) アカアリグモ 1s♀
Evarcha albaria (L. KOCH) マミジロハエトリ 1♂, 1s♀

Family Clubionidae

- Itatsina praticola* (BOESENBERG et STRAND) イタチグモ 1s♀, many y♀
Clubiona sp. フクログモの1種 1 ex

Family Heteropodidae

- Heteropoda forcipata* (KARSCH) コアシダカグモ 1 s♀, 2y♀

Family Ctenidae

- Anahita fauna* KARSCH シボグモ 1♀, 1s♀

Order Opiliones

Family Phalangodidae

- Pseudobiantes japonicus* HIRST カマキリザトウムシ 6 exs (lives in the dark place
 (troglophilous animal))

Family Phalangiidae

- Gagrella japonica* ROEWER ヒトハリザトウムシ 5 exs (maritime animal)

Order Acarina

Family Macrochelidae

- Macrocheles* sp. 1 マエツメナシダニの1種 14♂, 22♀
M. sp. 2 10♀
M. sp. 3 1♀
 Macrochelidae? sp. 18♂, 98♀, 141y

Family Gamasolaelaptidae

- Gen. sp. ヨコスジムシダニ科の1種 1♀

Family Parasitidae

Parasitus sp. キセイダニの1種 10♂, 20♀

Family Neoparasitidae

Gen. sp. 1 シンキセイダニ科の1種 7♂, 26♀

Gen. sp. 2 1♀

Family Calyptostomidae

Gen.? sp. サヤアゴダニ科の1種? 1♀

Family Cunaxidae

Cunaxas sp. ヒメテングダニの1種 1s♀

Family Labidostomidae

Labidostoma sp. ヨロイダニの1種 2♀

Family Acaridae

Rhizoglyphus? sp. ネダニの1種? 4 exs

Family Nanhermanniidae

Nanhermannia sp. pc フクロハラヤマダニ 1 ex

Family Epilohmanniidae

Epilohmannia sp. ja ヨコミゾヤマダニ 1 ex

Family Lohmanniidae

Torpacarus sp. ka ツツハラヤマダニ 106a, 116y

Family Hypochthoniidae

Gen.? sp. チカノヤマダニ科の1種 1 ex

Family Camisiidae

Gen. (closely akin to *Heminothrus*) sp. セクボヤマダニ科の1種 1 ex

Nothrus sp. pb セクボヤマダニ 5 exs

Family Hermanniidae

Gen.? sp. ナカダカヤマダニ科の1種 3 exs

Family Eremaeidae

Eremaeus sp. ke ノロモリダニ 1 ex

Family Phthyracaridae

Phthyracarus sp. hz ハコガメダニ 12a, 11y

Oribotritia sp. pd ミツズメハコガメダニ 8 *exs*

O.? sp. hh 2 *exs*

Pseudotritia sp. sh ホソハコガメダニ 1 *ex*

Class DIPLOPODA

Order Polyxenomorpha

Family Polyxenidae

Monographis takakuwai MIYOSI ハイボクフサヤスデ 10 *exs* (abundant on the ground and trees)

Order Polydesmoidea

Family Strongylosomatidae

Ndyopus patrioticus patrioticus (ATTEMS) ヤマトアカヤスデ 2♂, 6♀

Order Juliformia

Family Julidae

Fusiulus sp. ヒメヤスデの1種 2♂, 5♀

Class SYMPHYLA

Order Symphyla

Family Scolopendrellidae

Symphylella vulgaris HANSEN ヤサコムカデ 22 *exs*

Family Scutigereidae

Hanseniella sp.? ナミコムカデ 1 *ex*

Class CHILOPODA

Order Scolopendromorpha

Family Scolopendridae

Scolopendra subspinipes japonica L. KOCH アオズムカデ 4 *exs*

Family Cryptopidae

Otocryptops rubiginosus (L. KOCH) セスジアカムカデ 1 *ex*

O. rubiginosus kashimensis MIYOSI カシマセスジアカムカデ¹⁾ 1♂, 1♀

1) Newly found and described by Y. MIYOSHI in Zool. Mag. (Jap.) 66 (6) : 256-257, 1959.

Order Geophilomorpha

Family Schendylidae

- Momophilus serratus* TAKAKUWA モモジムカデ 2 *exs*
Thalthybius tenuicolis TAKAKUWA サキプトジムカデ 3 *exs*

Family Mecistocephalidae

- Mecistocephalus fenestratus* VERHOEFF マドナガズジムカデ 5 *exs*
M. marmoratus VERHOEFF ブチナガズジムカデ 5♂, 9♀

Family Geophilidae

- Pleurogeophilus* sp. ツチムカデの1種 12y

Order Lithobiomorpha

Family Lithobiidae

- Bothropolys imaharensis* VERHOEFF イマハルイッスンムカデ 15 *exs*
Monotarsobius ramulosus TAKAKUWA ランザンヒトフシムカデ 12 *exs*

Class INSECTA

Order Thysanura

Family Japygidae

- Japyx japonicus* ENDERLINE ヤマトハサミコムシ 7 *exs*

Order Collembola

Family Hypogastruridae

- Hypogastrura communis exillis* YOSHII ムラサキトビムシ 1y

Family Neanuridae

- Neanura (Propeanura) mandarina* YOSHII オオアカイボトビムシ 2y
N. sp. 1y
Metanura sancti-sebastiani YOSHII 1a

Family Brachystomellidae

- Odonthella* sp. 2y

Family Onychiuridae

- Onychiurus yagii* MIYOSHI ヤギトビムシモドキ 8a
O. flavescens YOSHII 5a, 4y
O. spp. (containing *O. uenoi* YOSHII?) 82y

Family Isotomidae

- Folsomia fimetaria* LINNÉ? フオルソムトビムシ 3a
Isotoma trispinata MACGILLIVRAY ミドリトビムシ 4a
I. sp. 83y
Isotomiella minor (SCHAFFERS) 1y

Family Achorutidae

- Pseudoachorutes* sp. 3a

Family Entomobryidae

- Sinella umesaoi* YOSHII? 1y
Homidia sauteri BÖRNER ザウテルアヤトビムシ 7a, 7y

Order Orthoptera

Family Gryllidae

- Duolandrevus coulonianus* DE SAUSSURE クチキコオロギ 4y (subtropical species)

Family Mogoplistidae

- Ornebius bimaculatus* SHIRAKI イソカネタタキ 2s♀, 2y (subtropical species)

Family Phyllodromiidae

- Phyllodromyia lituricollis* WALKER モリチャバネゴキブリ 1♂, 2♀, 2y
Ph. kumamotonis SHIRAKI スカシバチビゴキブリ 1♂, 3y

Order Dermaptera

Family Anisolabiidae

- Anisolabis maritima* BORELLI ハサミムシ 14y

Order Isoptera

Family Termitidae

- Coptotermes formosanus* SHIRAKI イエシロアリ 52f

Order Thysanoptera

Family Thripidae

- Hoplothrips flavipes* (BAGNALL) クチキクダアザミウマ 3 exs

Order Hemiptera

Family Cicadidae

- Terpnosia vacua* OLIVIER ハルゼミ abundant

Family Miridae

Deraeocoris rufus DISTANT 1 ex

Family Reduviidae

Sphedanolestes impressicollis STÅL シマサシガメ 1 ex

Family Coreidae

Hygia opaca UHLER ツマキヘリカメムシ 8 exs

Family Pentatomidae

Megymenum gracilicorne DALLAS ノコギリカメムシ 1 ex*Glaucias subpunctatus* WALKER ツヤアオカメムシ 1 ex*Nezara antenuata* SCOTT アオクサカメムシ 1 ex

Family Thyreocoridae

Adrisa magna (UHLER) ヨコズナツチカメムシ¹⁾

Order Neuroptera

Family Chrysopidae

Chrysopa sp. クサカゲロウの1種 1 ex

Order Lepidoptera

Family Geometridae

Archanna jaguararia GUÉNÉE ヒョウモンエダシャク 3 exs

Family Pieridae

Eurema hecabe LINNÉ キチョウ 5 exs*Pieris rapae crucivora* BOISDUVAL モンシロチョウ 6 exs

Family Papilionidae

Graphium sarpedon nipponus FRUHSTORFER アオスジアゲハ 2 exs

Family Satyridae

Ypthima argus BUTLER ヒメウラナミジャノメ 2 exs

Order Coleoptera

Family Paussidae

Eustra plagiata japonica BATES エグリゴミムシ 3 exs

1) After GOTO, S., Nanki-Seibutsu II (2) : 95, 1950.

Family Harpalidae

- Tachys sericans* BATES ウスオビコミズギワゴミムシ 2 exs
Platymetopus flavilabris corrosus BATES 1 ex
Calathus (Crepidactyla) nitidus MOTSCHULSKY オオクロツヤヒラタゴミムシ 3 exs
C. (Pristodactyla) dulcigradus BATES ヒメツヤヒラタゴミムシ 1 ex

Family Staphylinidae

- Osorius taurus* SHARP ツノフトツツハネカクシ 2 exs
Domene crassicornis SHARP オオマルズハネカクシ 2 exs
Lathrobium partitum SHARP サキアカバナガハネカクシ 3 exs
Philonthus rectangularis SHARP カクコガシラハネカクシ 7 exs
Ph. sp. カクコガシラハネカクシの1種 1 ex
Cafius vestitus SHARP アバタウミベハネカクシ 1 ex
Phucobius simulator SHARP ウミベアカバハネカクシ 15 exs
Ischnopoda (Microdota) sp. 1 ex
Thamiaraea japonica CAMERON 3 exs
Amarochara (Amarochara) sp. 1 ex

Family Hydrophilidae

- Cercyon sharpi* HAROLD フチトリケシガムシの1種 4 exs
Megasternum gibbulum MOTSCHULSKY マグソガムシの1種 2 exs

Family Lampyridae

- Psilocladus ruficollis* KIESENWETTER ムネクリイロボタル 1 ex

Family Dasytidae

- Laius asahinai* NAKANE イソジョウカイモドキ 1 ex (interesting species and live in the maritime drifts)

Family Nitidulidae

- Haptoncus ocularis* FAIRMAIRE ケシキスイの1種 5 exs

Family Coccinelidae

- Epilachna sparsa orientalis* DIEKE ニジュウヤホシテントウ 1 ex
Hyperaspis japonica CROTCH ウスフタホシテントウ 1 ex
Scymnus (Pullus) hilaris MOTSCHULSKY 2 exs
Serangium japonicum CHAPIN 1 ex
Amida tricolor HAROLD アミダテントウ 2 exs

Family Elateridae

- Dicronychus (Platynchus) adjutor* CANDEZE アカアシハナコメツキ 1 ex

Family Dermestidae

- Trinodes rufescens* REITTER チビケカツオブシムシ 1 ex
Gastrallus laevigatus OLIVIER 1 ex

Family Ciidae

- Cis (Hadraule) bifasciatus* REITTER フタオビツツキノコムシ 2 exs

Family Sphindidae

- Aspidiphorus* sp. ヒメキノコムシの1種 1 ex

Family Tenebrionidae

- Idisia ornata* PASCOE ハマヒョウタンゴミムシダマシ 1 ex
Micropedinus algae LEWIS ホソハマベゴミムシダマシ 23 exs
M. pallidipennis LEWIS ヒメホソハマベゴミムシダマシ 1 ex

Family Alleculidae

- Hymenaria rufipennis* MARSEUL アカハネヒメクチキムシ 1 ex

Family Curculionidae

- Trachyphloeosoma* sp. A 1 ex
T. sp. B 1 ex
Curculio funebris ROELOFS 2 exs
Myosides seriehispidus ROELOFS チビヒョウタンゾウムシ 8 exs
Phyllobius brevitarsis KONO コヒゲボソゾウムシ 1 ex
Stenoscelis gracilitarsis WOLLASTON 5 exs
Demimaea circula ROELOFS マルモンササラゾウムシ 2 exs
Cryptorrhynchidius insidiosus ROELOFS マツシラホシゾウムシ 3 exs
Acalles sp. 8 exs
 Gen. sp. (Gen. & sp. nov. belongings to new Tribe) メクラツヤゾウムシ 10 exs

Family Ipidae (Scolytidae)

- Xyleborus rubicollis* EICHHOFF アカクビキクイムシ 1 ex
Cryphalus sp. コキクイムシの1種 2 exs

Family Trogidae

- Trox opacotuberculatus* MOTSCHULSKY ヒメコブスジコガネ 1 ex

Family Scarabaeidae

- Panelus parvulus* WATERHOUSE マメガムシガタコガネ 1 ex
Cetonia pilifera MOTSCHULSKY ハナムグリ 1 ex

Order Hymenoptera

Family Ichneumonidae

Diplozon laetatorius (FABRICIUS) アカハラヒラタアブヤドリバチ 1 ex

Family Vespidae

Polistes japonicus fadwigae DALLA TORRE セグロアシナガバチ 1 ex

Vespa mandarina SMITH スズメバチ 3 exs

Family Crabronidae

Lestica (=Crabro) sp. ギンクチバチの1種 1 ex

Family Halictidae

Halictus sp. コハナバチの1種 4 exs

Family Formicidae

Amblyopone silvestrii WHEELER ノコギリハリアリ 4♀

Sysphincta watasei WHEELER ワタセハリアリ 10♀

S. sp. 1♀

Ponera scabra WHEELER テラニシハリアリ 5♀

P. sp. 1♀

Pheidole pieli SANTSCHI オオズアカアリの1種 132♀, 98♀

Crematogaster laboriosa SMITH? トビイロシリアゲアリ 3♀

C. sordidula osakensis FOREL キイロシリアゲアリ 147♀

Myrmecina graminicola nipponica WHEELER カドフシアリ 7♀

Pristomyrmex pungens MAYER アミメアリ 3♀

Olygomyrme sauteri FOREL コツノアリ 42♀, 37♀

Strumigenis lewisi CAMERON ウロコアリ 1♀, 6♀

Smithistrum sp. 2♀

Polyrhachis hippomanes moesta EMERY チクシトゲアリ 1♀

Paratrechina flavipes SMITH アメイロアリ 1♀, 86♀

Lasius niger LINNÉ? トビイロケアリ 10♀

Formica fusca japonica MOTSCHULSKY クロヤマアリ 51♀

Camponotus (*Camponotus*) sp. オオアリの1種 1♀

Order Diptera

Family Culicidae

Aedes albopictus SKUSE ヒトスジシマカ abundant

A. niveus LUDLOW シロカタヤブカ common

A. togoi THEOBALD トウゴウヤブカ common

Family Tipulidae

Gen. sp. ガガンボ科の1種 1 ex

Family Chironomidae

Chironomus (*Chironomus*) sp. 1 ex

Family Dolichopodidae

Psilopus nebulosus MATSUMURA? マダラアシナガバエ 2 exs

Family Syrphidae

Epistrophe balteatus DE GEER? ホソヒラタアブ 1 ex

Family Drosophilidae

- Drosophila* (*Sophophora*) *auraria* PENG, type A カオシロシヨウジヨウバエA型 8♂, 2♀
D. (*S.*) *auraria* PENG, type C カオシロシヨウジヨウバエC型 3♂, 2♀
D. (*S.*) *lutea* KIKKAWA & PENG キハダシヨウジヨウバエ 20♂, 70♀
D. (*Drosophila*) *immigrans* STURTEVANT オオシヨウジヨウバエ 33♂, 95♀
D. (*D.*) *bizonata* KIKKAWA & PENG フタオビシヨウジヨウバエ 1♂, 1♀
D. (*D.*) *virilis* STURTEVANT クロシヨウジヨウバエ 1♂, 1♀
D. (*D.*) *sordidula* KIKKAWA & PENG オオクロシヨウジヨウバエ 1♂
D. (*D.*) *sternopleuralis* OKADA 1♂

Family Muscidae

- Musca hervei* VILLENEUVE ノイエバエ 1♀
Muscina stabulans (FALLÉN) オオイエバエ 1♂, 1 ex
Ophyra leucostoma (WIEDEMANN) ヒメクロバエ 1♀

Family Anthomiidae

Gen. sp. ハナバエ科の1種 1♀

Family Calliphoridae

- Lucilia ampullacea* (VILLENEUVE) コガネキンバエ 1♂, 3♀
L. sp. 1♀

Family Sarcophagidae

Sarcophaga melanura MEIGEN シリグロニクバエ 2♀

Phylum VERTEBRATA

Class REPTILIA

Order Lacertilia

Family Lacertidae

Takydromus tachydromoides (SCHLEGEL) カナヘビ abundant

Class AVES

Order Columbæ

Family Columbidae

Streptopelia orientalis orientalis (LATHAN) キジバト

Order Passera

Family Turdidae

Monticola solitarius magnus (LA TOUCHE) イソヒヨドリ

Family Corvidae

Corvus levaillantii japonensis BONAPARTE ハシブトガラス