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The Myriapoda of the Galápagos Archipelago, Ecuador (Chilopoda, Diplopoda, Symphyla)

Léon BAERT[1] and Henri W. HERRERA[2]

[1] Royal Belgian Institute of Natural Sciences, Vautierstraat 29, B-1000 Brussels, Belgium
(email : leon.baert@naturalsciences.be)
[2] Charles Darwin Research Station, Isla Santa Cruz, Galápagos, Ecuador

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Abstract

Thirteen centipeds, eleven millipeds and one symphylan species are reported from the Galápagos islands. Six centipeds (*Cryptops beebei* Chamberlin 1924, *Nannopodellus purpurescens* Chamberlin 1924, *Pachymerium pereirai* Shear & Peck 1992, *Pectiniunguis albemarlensis* Chamberlin 1914, *Pectiniunguis kraussi* Shear & Peck 1992, *Schendylops nealotus* (Chamberlin, 1950)) and one milliped (*Nesodesmus insulanus* Chamberlin, 1914) are probably endemic to the archipelago. Their distribution within the archipelago is given together with their preferential vegetation zones and altitudinal range of occurrence on the islands. The world distributions of the introduced species are also given.

Keywords : Myriapoda, catalogue, distribution, Galápagos.

Resumen

Trece chilópodos, once diplópodos y una especie de sínfilo son reportados de las islas Galápagos. Seis chilópodos (*Cryptops beebei* Chamberlin 1924, *Nannopodellus purpurescens* Chamberlin 1924, *Pachymerium pereirai* Shear & Peck 1992, *Pectiniunguis albemarlensis* Chamberlin 1914, *Pectiniunguis kraussi* Shear & Peck 1992, *Schendylops nealotus* (Chamberlin, 1950)) y un diplópodo (*Nesodesmus insulanus* Chamberlin, 1914) son probablemente endémicos para Galápagos. Sus distribuciones en el archipiélago, preferencias de zonas de vegetación y rangos altitudinales donde las especies ocurren son presentadas. La distribución mundial de las espcies introducidas es también proporcionada.

Introduction

The first contribution of SHEAR & PECK (1987) to the myriapod fauna of the archipelago threats the millipeds (Diplopoda). At that time there was little published information about this arthropod group : *Nesodesmus insulanus* had been described from Isla San Cristóbal by CHAMBERLIN (1914) and much later KRAUSS (1958), studying the material collected by Eibl-Eibensfeld in 1957, redescribed and illustrated that species from this material and reported the presence of the synanthropic *Asiomorpha coarctata* (Saussure, 1860). They analyzed the material originating from sampling campaigns carried out by various teams : the Canadian team S. & J. Peck (in 1985), the Belgian team Baert *et al.* (in 1986), the Austrian team H. & I. Schatz (in 1985) and the available CDRS-collections. They report the eight species mentioned in this paper.

Their second contribution (SHEAR & PECK, 1992) threats the classes Symphyla and Chilopoda (centipeds). Again, a few were known, those published by BOLLMAN (1889), CHAMBERLIN (1913, 1914, 1924, 1950) and KRAUSS (1958). BOLLMAN (1889) described as first a centipede, *Scolopendra galapagoensis*, from the islands. A detailed narration of

Chamberlin's interpretations (errors, misconceptions, oblivions) of the chilopod material coming from the Galápagos Islands is given by SHEAR & PECK (1992). Chamberlin's work resulted however in the description of 5 new species for the islands : *Cormocephalus carolus* Chamberlin, 1950 ; *Cryptops beebei* Chamberlin, 1924 ; *Nannopodellus purpurascens* Chamberlin, 1924 ; *Nesondyla nealota* Chamberlin, 1950 and *Pectiniunguis albemarlensis* Chamberlin, 1914. KRAUSS (1958) added two more species (*Cormocephalus andinus* Kraepelin, 1903 and *Orphnaeus brasilianus* (Humbert & Saussure, 1870)) and gave a redescription of *Pectiniunguis albemarlensis* which was based on specimens belonging to another species (see further). W. Shear and S. Peck studied material originating from sampling campaigns carried out by the same teams cited for the diplopods : Jacquemart (in 1974, RBINS), the Canadian team Peck *et al.* (in 1985, 1989, 1991), the Belgian team Baert *et al.* (in 1986, 1988, RBINS), the CDRS-collections and the type specimens which are deposited in various American museums (AMNH, CAS, MCZ). They report the thirteen species mentioned in this paper of which two are described as new species : *Pectiniunguis kraussi* (redescribed by KRAUSS (1958) as *P. albemarlensis*) and *Pachymerium pereirai*. They also report the symphylan *Hanseniella caldaria* (Hansen, 1903) for the first time.

Additional data was published in PECK & SHEAR (2000) after field work of the first author in 1996.

They added a ninth diplopod species as *Cyrtodemus* sp.

The Belgian team continued their systematic intensive collecting of terrestrial invertebrates in the years 1991, 1996, 2000, 2002 and 2009. The first author got the opportunity to study the rich myriapod material collected by W.G. Reeder during the seventies (1970-1980), a collection not available for study at the time the former authors, S. Peck and W. Shear, made their Myriapoda study.

A checklist of the Galápagos centipedes present at the moment in the collections of the Charles Darwin Research Station can be found in HERRERA (2012).

Material and Methods

The material at the origin of the above cited papers came from the ancient collections studied by CHAMBERLIN (1913, 1914, 1924, 1950, 1955) and KRAUS (1958), increased with the specimens collected during more recent collecting trips made by the collecting teams before 1992 : Peck *et al.* , Baert *et al.*, and Jacquemart.

The additional material collected after the publications of SHEAR & PECK (1987, 1992) and PECK & SHEAR (2000) originates from the collections made during the last 22 years (1991-2013) and preserved at the Charles Darwin Research Station (samplings done by students and resident scientists) and the Royal Belgian Institute of Natural Sciences (samplings done by Baert *et al.*), but also from a very important collection made during the years 1970-1980 by W.G. Reeder, deposited at the Texas Memorial Museum (TTM) and recently made available for study by J. Reddell.

For the identification of the material we used the identification keys provided in SHEAR & PECK (1987, 1992) and PECK & SHEAR (2000) and the same nomenclature is used.

The tables give the detailed sampling data. Beside the islands (ISL.) they provide a short description of the sampled site (LOCALITY), the vegetation zone (VEG.), the altitude (ALT.), the collector or the Institution where part of the material is deposited (LEG./COL.) and the literature (LIT.) in which the data was first published.

The islands

The used island names are the commonly accepted Ecuadorian names. In the text we mention for each island the number of records between brackets.

Abbreviations used in the Tables : **BAL** : Baltra ; **DAR** : Darwin ; **ESP** : Española ; **FER** : Fernandina ; **FLO** : Floreana ; **GAE** : Gardner near Española ; **GEN** : Genovesa ; **ICA** : Isabela, Volcán Cerro Azul ; **ISN** : Isabela, Volcán Sierra Negra ; **IVA** : Isabela, Volcán Alcedo ; **IVD** : Isabela, Volcán Darwin ; **IVW** : Isabela, Volcán Wolf ; **MAR** : Marchena ; **NPL** : North Plaza ; **PIN** : Pinta ; **PIZ** : Pinzón ; **RAB** : Rábida ; **SAN** : Santiago ; **SCB** : San Cristóbal ; **SCZ** : Santa Cruz ; **SFE** : Santa Fé ; **WOL** : Wolf.

The locality

The compass directions are abbreviated as N (North), E (East), S (South) and W (West).

The vegetation zones

The vegetation zones are well described in JACKSON (1985) an PECK (2001). These zones are very well differentiated on Santa Cruz, and can also be encountered in some extent on the other centrally located old and inhabited islands San Cristóbal, Floreana, Santiago (colonisation failed) and Volcán Sierra Negra (Isla Isabela), while the still less eroded cinder soils of Fernandina and the remaining volcanoes of Isabela (Cerro Azul, Alcedo, Darwin and Wolf) do not fit into this scheme. The low altitude islands (up to ca 300 m altitude) have only a littoral and arid zone. The highest volcanoes (Cerro Azul, Darwin and Wolf) projecting above the cloud cover (inversion layer at ca 1100 m) have an extra upper arid zone with a vegetation resembling strongly this of the coastal arid zone.

Abbreviations used in the Tables : **AZ** : Arid Zone along the coast ; **CU** : Cave (from the Spanish word cueva) ; **CZ** : Agricultural Zone or Cultivation Zone ; **FS** : Fern-sedge Zone or pampa ; **LZ** : Littoral Zone ; **MIC** : *Miconia* Zone ; **SCAL :** *Scalesia* Zone ; **SAZ** : Upper Arid Zone, arid zone situated above the upper inversion layer of ca 1100 m of altitude ; **TZ** : Transition Zone ; **W** : Deciduous and evergreen forest between 200 and 570 m of altitude on Pinta.

The altitude

The altitudes are given in meters above or below sea level.

The collectors and institutions

Abbreviations used in the Tables :

Abedrabbo : S. Abedrabbo (CDRS, Baert *et al.*, Peck *et al.*) ; **AMNH** : American Museum of Natural History of New York, USA ; **Baert *et al.*** : L. Baert & J.-P. Maelfait (1982) & L. Baert, J.-P. Maelfait & K. Desender (1986-2000) (Royal Belgian Institute of Natural Sciences, Brussels, Belgium) ; **CAS :** Californian Academy of Sciences, USA ; **CDRS** : Collaborators of the **C**harles **D**arwin **R**esearch **S**tation, Puerto Ayora, Galápagos, Ecuador ; **Hendrickx** : F. Hendrickx & W. Dekoninck (Royal Belgian Institute for Natural Sciences, Brussels, Belgium) ; **Jacquemart** : S. Jacquemart (Royal Belgian Institute for Natural Sciences, Brussels, Belgium) ; **Leleup** : N. & J. Leleup (Royal Belgian Institute for Natural Sciences, Brussels, Belgium) ; **Lubin** : Y. Lubin (former Resident scientist of the CDRS) ; **MCZ** : Museum of Comparative Zoology of Cambridge, USA ; **Peck *et al.*** : S. & J. Peck , B. Sinclair, B. Landry, J. Heraty, C. Vogel (Carlton University, Ottawa, Ontario, Canada) ; **Reeder** : W.G. Reeder (Texas Memorial Museum of the University of Texas, Austin, USA) ; **Roqué** : L. Roqué (former Resident scientist of the CDRS) ; **Schatz *et al.*** : I. & H. Schatz (Institut für Zoologie der Universitât Innsbruck, Austria) ; **SMF** : Senckenberg Museum Frankfurt, Germany ; **Wauters** : N. Wauters (Université Libre de Bruxelles, Belgique) ; **Werner** : D. Werner (Texas Memorial Museum of the University of Texas, USA).

The consulted literature

CH13 : CHAMBERLIN, 1913 ; **CH14** : CHAMBERLIN, 1914 ; **CH24** : CHAMBERLIN, 1924 ; **CH50** : CHAMBERLIN, 1950 ; **CH55** : CHAMBERLIN, 1955 ; **K58** : KRAUS, 1958 ; **S&P 87** : SHEAR & PECK, 1987 ; **P&S 00** : PECK & SHEAR, 2000 ; **S&P 92** : SHEAR & PECK, 1992.

The maps

The maps give only the approximate location of the sampled sites in order to give a general idea of the distribution of the myriapod species over the islands (represented by stars). Some localities could not be localized properly by lack of detailed information (cfr. Some Reeder, Jacquemart and Leleup sites) and are reproduced as “thick” dots.

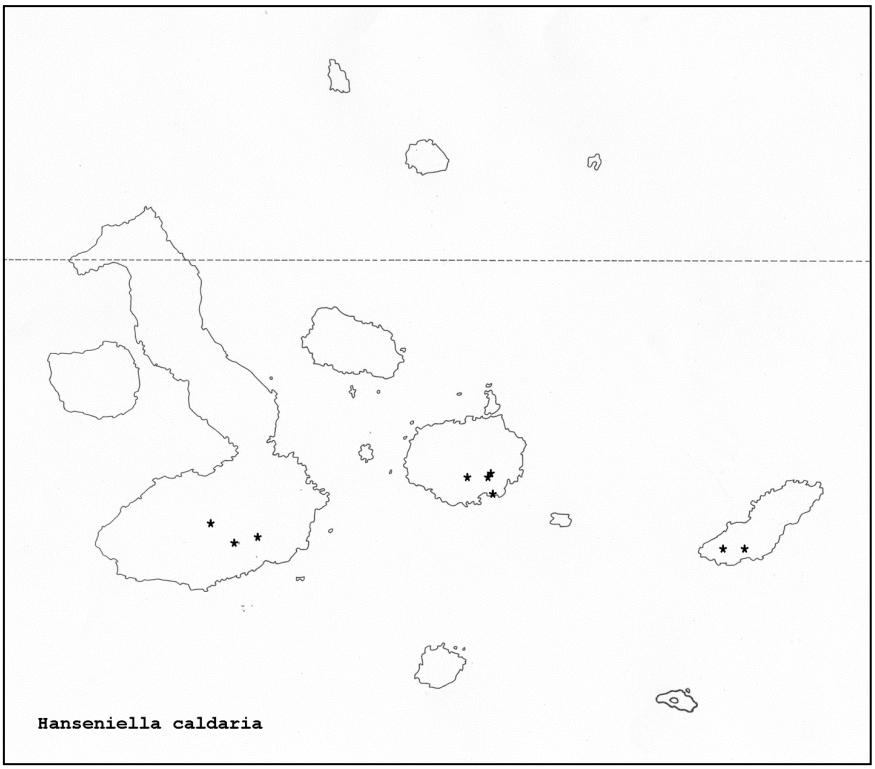
Class SYMPHYLA

Family SCUTIGERELLIDAE

***Hanseniella caldaria* (Hansen, 1903)**
Status : Introduced synanthropic species.
Galápagos distribution : Isabela (Volcán Sierra Negra) (5), San Cristóbal (3) and Santa Cruz (10).
Vegetation zones : Occurs in all vegetation zones from arid zone up to summit fern-sedge zone. Also very frequent in caves located in the agricultural zone (CZ) of Isla Santa Cruz.
Altitudinal range : 30-780 m.
World distribution : In greenhouses and gardens in Europe (e.g. Copenhagen and Paris) and in other habitats in Brazil, Ecuador, Ruanda-Burundi, Angola, Sri Lanka, Mexico and New Zealand.
References : HANSEN (1903), PECK (1990), SHEAR & PECK (1992), PECK & SHEAR (2000).

Table 1. Detailed distribution data of *Hanseniella caldaria* (Hansen, 1903).

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG.	LIT.
ISN	Road to Sierra Solitario	CZ	200	24.I.1978	Reeder	
ISN	1 km S of Cerro Verde	CZ	320	16.I.1978	Reeder	
ISN	Santo Tómas	CZ	340	28.I.1978	Reeder	
ISN	Above Santo Tómas	CZ	480	19.I.1978	Reeder	
ISN	Zona Velasco Ibarra, encañada near *Scalesia* quadrat	SCAL	780	25.I.1978	Reeder	
SCB	Under rocks			31.I.1974	Jacquemart	S&P 92
SCB		CZ		02.II.1974	Jacquemart	S&P 92
SCB	El Junco	FS	640	18.II.1978	Reeder	
SCZ				07.V.1980	Reeder	
SCZ	Along coast	AZ		13.II.1974	Jacquemart	
SCZ	CDRS, Arid Zone	AZ	30	12.VI.1991	Peck *et al.*	
SCZ	Transition Zone	TZ		18.I.1974	Jacquemart	
SCZ	Horneman farm, Bellavista	CZ	200	03.IV.1975	Reeder	
SCZ	Cueva de Bellavista n° 1	CU	210	15.V.1985	Peck *et al.*	S&P 92
SCZ	Cueva de Bellavista n° 1	CU	210	12.VI.1991	Peck *et al.*	S&P 92
SCZ	Cueva de Bellavista n° 2	CU	210	25.V.1985	Peck *et al.*	S&P 92
SCZ	Cueva de Bellavista n° 2	CU	210	30.VI.1991	Peck *et al.*	S&P 92
SCZ	Cuevas de Vargas, 5 km NE of Santa Rosa	CU	500	30.V.1985	Peck *et al.*	S&P 92
SCZ		MIC		15.I.1974	Jacquemart	S&P 92



Map 1. Distribution of *Hanseniella caldaria* (Hansen, 1903) in the Galápagos archipelago.

Class CHILOPODA

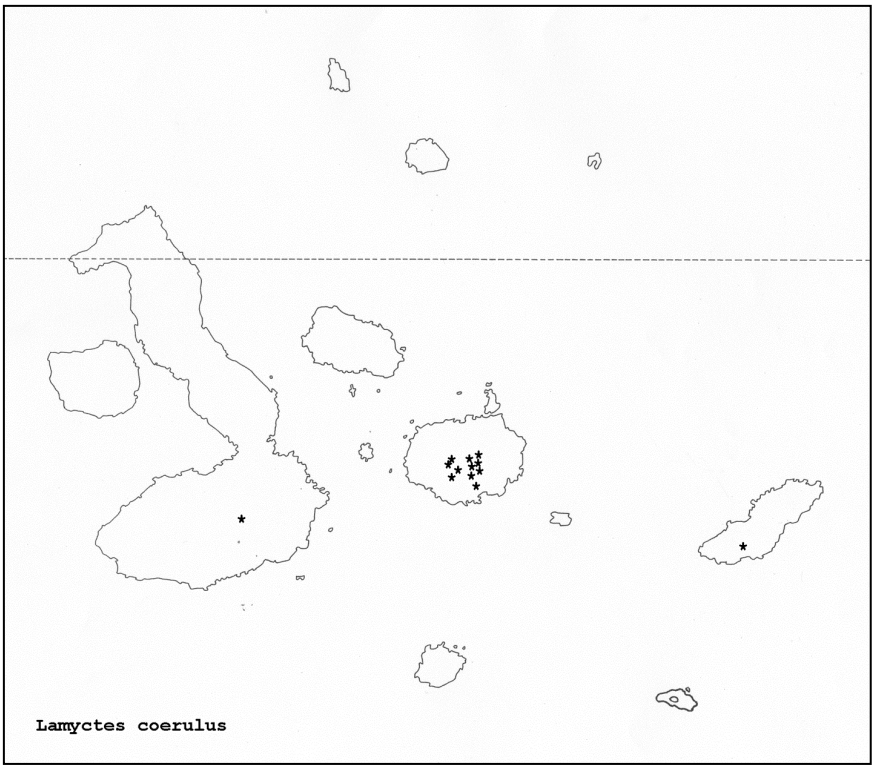
Order LITHOBIOMORPHA

Family HENICOPIDAE

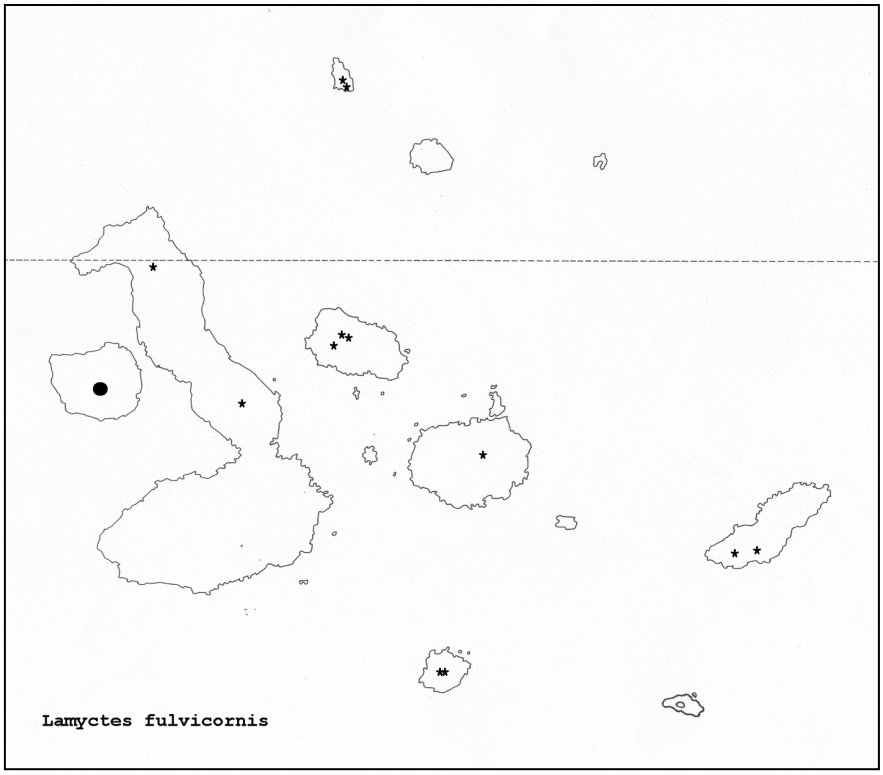
***Lamyctes coeculus* Brölemann, 1889**
Status : Introduced mostly parthenogenetic eyeless synanthropic species.
Galápagos distribution : Isabela (Volcán Sierra Negra) (1), San Cristóbal (2) and Santa Cruz (26).
Vegetation zones : Occurs in all vegetation zones from arid zone (AZ) to summit fern-sedge zone (FS) and in caves (CU) upon Isla Santa Cruz.
Altitudinal range : 50-875 m.
World distribution : In greenhouses in Denmark, Finland, Sweden, France and Italy, and outdoors in Tanzania, Canary Islands, Republic of Congo, Israel, Australia, Cuba and Venezuela.
References : PECK (1990), SHEAR & PECK (1992), PECK & SHEAR (2000) and MINELLI *et al.* (2006).

Table 2. Detailed distribution data of *Lamyctes coeculus* Brölemann, 1889.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
ISN	SE-slope	FS	930	10.II.1986	Abedrabbo	
SCB	Espinero area	AZ	50	12.II.1978	Reeder	
SCB	1 km W of El Junco, *Miconia* & tree ferns	MIC	540	17.III.1996	Peck *et al.*	P&S 00
SCZ	Southern flank	AZ	50	12.III.1986	Baert *et al.*	S&P 92
SCZ	Occidente	TZ	170	23.I.1974	Jacquemart	S&P 92
SCZ	SE slope	TZ	200	1964	Leleup	
SCZ	Cueva Enrique Sevilla	CU	250	05.II.1989	CDRS	S&P 92
SCZ	Southern transect along road	CZ	350	12.III.1986	Baert *et al.*	S&P 92
SCZ	2 km N of Bellavista, Avocado grove	CZ	360	14.V.1985	Peck *et al.*	S&P 92
SCZ	Santa Rosa, Devine farm	SCAL	500	05.II.1989	Peck *et al.*	S&P 92
SCZ	Los Gemelos, *Scalesia* wood	SCAL	570	07.III.1988	Baert *et al.*	S&P 92
SCZ	Los Gemelos, *Scalesia* wood	SCAL	570	30.III.1989	Peck *et al.*	S&P 92
SCZ	Los Gemelos, pampa	FS	570	12.II.1988	Baert *et al.*	
SCZ	Los Gemelos, pampa	FS	570	02.IV.1988	Baert *et al.*	
SCZ	Media Luna	SPH	600	18.III.1989	Peck *et al.*	S&P 92
SCZ	Media Luna	FS	600	28.II.1989	Peck *et al.*	
SCZ	4 km N of Bellavista. Media Luna	MIC	620	17.V.1985	Peck *et al.*	S&P 92
SCZ	1 km NE of Media Luna, pampa	FS	630	28.II.1986	Baert *et al.*	S&P 92
SCZ	1 km NE of Media Luna, pampa	FS	650	30.III.1989	Peck *et al.*	S&P 92
SCZ	Cueva tres entradas, 2 km E of Camote	CU	670	29.VI.1985	Peck *et al.*	S&P 92
SCZ	Cueva tres entradas, 2 km E of Camote	CU	670	03.II.1989	Peck *et al.*	S&P 92
SCZ	Cerro Puntudo, pampa	FS	700	02.II.1989	Peck *et al.*	S&P 92
SCZ	500 m NE of Puntudo pass, N slope C. Crocker	FS	740	04.V.1980	Reeder	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	08.III.1988	Baert *et al.*	S&P 92
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	31.V.1985	Peck *et al.*	S&P 92
SCZ	Top of Cerro Crocker	FS	875	15.II.1988	Baert *et al.*	S&P 92
SCZ	Top of Cerro Crocker	FS	875	08.III.1988	Baert *et al.*	
SCZ	Northern slope	SCAL		11.II.1974	Jacquemart	S&P 92
SCZ	4 km E of Santa Rosa, N of Cerro Banderas	SCAL		28.VI.1985	Peck *et al.*	S&P 92



Map 2. Distribution of *Lamyctes coeculus* Brölemann, 1889 in the Galápagos archipelago.



Map 3. Distribution of *Lamyctes emarginatus* (Newport, 1844) in the Galápagos archipelago.

***Lamyctes emarginatus* (Newport, 1844)**
= *Lamyctes fulvicornis* MEINERT, 1968 : 266. – CHAMBERLIN, 1912 : 7, pl. 1 : figs 1-12, pl. 2 : figs 1-3. – SHEAR & PECK, 1992 : 2263.
Status : Introduced.
Galápagos distribution : Fernandina (1), Floreana (2), Volcán Alcedo (1) and Volcán Wolf (1) of Isla Isabela, Pinta (2), Santiago (7), San Cristóbal (4) and Santa Cruz (1).
Vegetation zones : Occurs in all vegetation zones from arid zone to summit fern-sedge zone except in the agricultural zone (CZ).
Altitudinal range : 2-1150 m.
World distribution : Açôres, Canary islands, Morocco, Turkey, Iceland, Greenland, New Caledonia, New Zeland.
References : CHAMBERLIN (1912), SHEAR & PECK (1992), PECK & SHEAR (2000) and MINELLI *et al.* (2006).

Table 3. Detailed distribution data of *Lamyctes emarginatus* (Newport, 1844).

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG.	LIT.
FER					Reeder	
FLO	SE slope of Cerro Pajas	SCAL	370	20.II.1977	Reeder	
FLO	Cerro Pajas	W	620	20.IV.1991	Baert *et al.*	
IVA	Southeast Crater rim.	FS	1150	23.VI.1991	Peck *et al.*	S&P 92
IVW	Western transect to the top		1000	22.III.1988	Baert *et al.*	S&P 92
PIN	Littoral zone	LZ	2	22.III.1986	Baert *et al.*	S&P 92
PIN	Southern transect	W	300	22.III.1986	Baert *et al.*	
SAN	Lower SO crater, moss elfin forest near Aguacate camp	W	750	24.IX.1975	Reeder	
SAN	Summit crater	FS	800	20.IX.1975	Reeder	
SAN	2 km S of summit crater	FS	820	18.IX.1975	Reeder	
SAN	Crater area summit	FS	830	14.IX.1975	Reeder	
SAN	Fresh water spring near crater area summit	FS	850	16.IX.1975	Reeder	
SAN	1,5 km S of summit crater, Tree fern valley	FS	875	21.IX.1975	Reeder	
SAN	1,5 km S of summit	FS	920	23.IX.1975	Reeder	
SCB	Tres palos area	TZ	190	11.II.1978	Reeder	
SCB	El Junco, pampa	FS	600	14.II.1989	Peck *et al.*	S&P 92
SCB	Border of El Junco lagoon	FS	640	18.II.1978	Reeder	
SCB	Border of El Junco lagoon	FS	650	31.I.1974	Jacquemart	S&P 92
SCZ	Northern slope	SCAL		08.II.1974	Jacquemart	S&P 92

Order SCOLOPENDROMORPHA

Family SCOLOPENDRIDAE

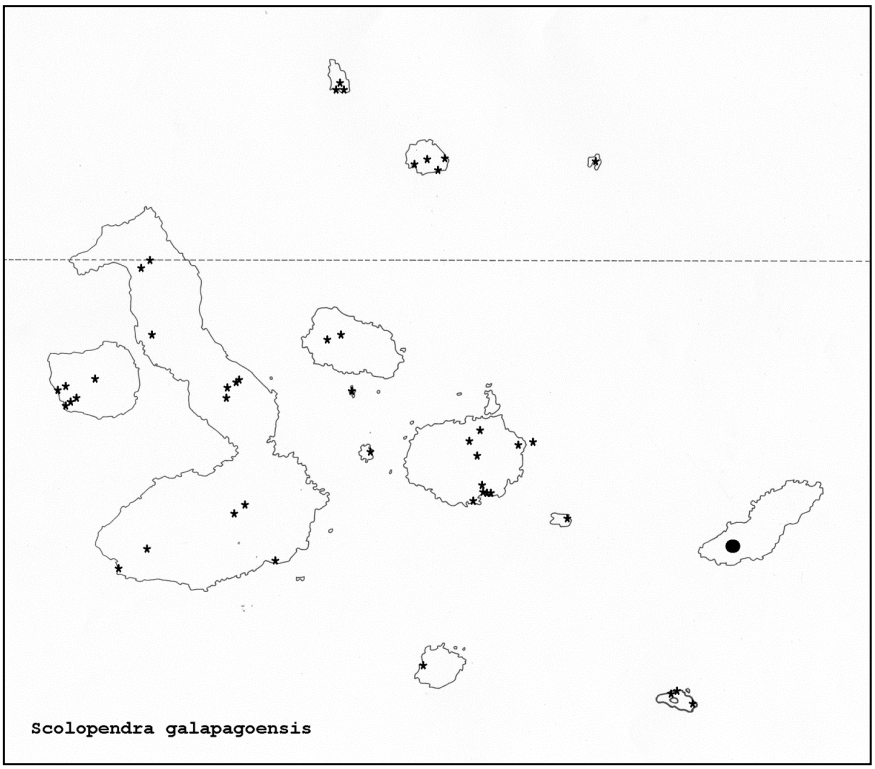
***Scolopendra galapagoensis* Bollman, 1889.**
Status : Native.
Galápagos distribution : Darwin (1), Española (8), Fernandina (14), Floreana (3), Genovesa (1), Volcán Cerro Azul (5), Volcán Sierra Negra (3), Volcán Alcedo (5), Volcán Darwin (3), Volcán Wolf (3), Marchena (9), North Plaza (1), Pinta (9), Pinzón (1), Rábida (1), Santiago (3), San Cristóbal (1), Santa Cruz (30), Santa Fé (2) and Wolf (2).
Vegetation zones : It is reported from all vegetation zones except from the *Miconia* zone.
Altitudinal range : 0-1625 m.
World distribution : It has been found according to SHELLEY & KISER (2000) on the Cocos island and along the Pacific coast of South America and the western slope of the Andes from Ecuador to southern Peru *Note* : *Scolopendra gigantea weyrauchi* Bücherl, 1950 is a synonym according to SHELLEY & KISER, 2000.
References : CHAMBERLIN (1913, 1914, 1924, 1950, 1955), KRAUS (1958), SHEAR & PECK (1992), PECK & SHEAR (2000), SHELLEY & KISER (2000) and MINELLI *et al.* (2006).

Table 4. Detailed distribution data of *Scolopendra galapagoensis* Bollman, 1889.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
DAR		AZ	20	11.V.1996	Peck *et al.*	P&S 00
ESP	Punto Cevallos	AZ	5	10.II.1977	Reeder	
ESP	Second beach west of Bahía Gardner	AZ	5	16.IV.1991	Baert *et al.*	
ESP	Bahía Manzanilla	AZ	9	22.III.2009	Baert *et al.*	
ESP	2 km N of Punta Cevallos	AZ	10	09.II.1977	Reeder	
ESP	100m hill	AZ	90	08.II.1977	Reeder	
ESP	Punta Cevallos	AZ	100	09.II.1977	Reeder	
ESP	Transect to top	AZ	130	27.IV.1991	Baert *et al.*	
ESP	Transect to top	AZ	175	04.III.1988	Baert *et al.*	S&P 92
FER	Cabo Hammond, beach lagoon	LZ	1	03.V.1991	Peck *et al.*	S&P 92
FER	West vegetation strip		20	18.III.1979	Werner	
FER	5 km NE of Cabo Hammond		110	10.V.1991	Peck *et al.*	S&P 92
FER	Cerro Verde, 5 km NE of Cabo Hammond		170	10.V.1991	Baert *et al.*	
FER	Cerro Verde, 5 km NE of Cabo Hammond		170	10.V.1991	Peck *et al.*	S&P 92
FER			330	13.I.2002	CDRS	
FER	*Macraea* crater, West vegetation strip		350	13.VIII.1977	Reeder	
FER	Betw. Bursera hills & ash field above Cabo Hammond		350	30.IV.1975	Reeder	
FER	SW transect		400	06.V.1991	Baert *et al.*	
FER	SW transect		400	09.V.1991	Baert *et al.*	
FER	At small cerro		400	06.V.1991	Baert *et al.*	
FER	10 km NE of Cabo Hammond		400	10.V.1991	Peck *et al.*	S&P 92
FER	Near fumarole		1300	09.V.1991	Baert *et al.*	
FER	SW transect		1320	09.V.1991	Baert *et al.*	
FLO				01.VIII.1932	CAS	CH55, S&P 92
FLO				20.V.1905	CDRS	
FLO				1967	CDRS	
FLO	Black Beach	LZ	15	17.II.1977	Reeder	

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
GEN				18.VIII.1957	SMF	K58, S&P 92
ICA	Caleta Iguana	AZ	5	26.V.1991	Peck *et al.*	S&P 92
ICA	SW transect	SAZ	1200	23.II.1986	Baert *et al.*	
ICA	SW transect	SAZ	1200	25.V.1991	Baert *et al.*	
ICA		SAZ	1300	23.II.1986	Baert *et al.*	S&P 92
ICA		SAZ	1450	23.II.1986	Baert *et al.*	S&P 92
ISN	Villamil	AZ	0-5	30.I.1975	Reeder	
ISN	SE-slope	FS	930	01.IX.1982	Abedrabbo	S&P 92
ISN	Volcan Chico trail	FS	1000	10.III.1989	Peck *et al.*	S&P 92
IVA				03.II.1999	CDRS	
IVA	Bursera camp	AZ	340	19.V.1980	Reeder	
IVA	E-slope	AZ	380	25.V.1980	Reeder	
IVA	Pega Pega camp		780	14.V.1980	Reeder	
IVA		FS	1000	II/1997	Roqué	
IVA	S crater rim	FS	1100	22.VI.1991	Peck et al.	S&P 92
IVD	Western transect to the top		200	28.III.1988	Baert *et al.*	S&P 92
IVD	Western transect to the top		400	28.III.1988	Baert *et al.*	S&P 92
IVD	Western transect to the top		500	26.III.1988	Baert *et al.*	S&P 92
IVW	Western transect to the top		350	21.III.1988	Baert *et al.*	S&P 92
IVW	Western transect to the top		400	23.III.1988	Baert *et al.*	S&P 92
IVW	Western transect to the top		1625	22.III.1988	Baert *et al.*	S&P 92
MAR				14.XI.1970	CDRS	S&P 92
MAR				14.XII.1970	CDRS	
MAR	Playa Negra	AZ	5	29.III.2000	Baert *et al.*	
MAR	Playa Negra	AZ	5	10.III.1988	Baert *et al.*	S&P 92
MAR	S-slope, near Cabo Espejo	AZ	5	23.I.1977	Reeder	
MAR	Cabo Espejo	AZ	10	29.I.1977	Reeder	
MAR	SW slope Beach camp area	AZ	10	20.I.1977	Reeder	
MAR	Playa de Los Muertos	AZ	100	16.VIII.1998	Roqué	
MAR	Ridge camp	AZ	220	29.I.1977	Reeder	
NPL		AZ	5	18.III.1975	Reeder	
PIN				01.VIII.1990	CDRS	
PIN	South Coast	LZ		01.VIII.1968	CDRS	S&P 92
PIN	Beach West of Cabo Ibbetson	LZ	2	21.III.1986	Baert *et al.*	S&P 92
PIN		W	200	18.I.1977	Reeder	
PIN	S-slope	W	250	20.I.1977	Reeder	
PIN		W	300	07.II.1982	Lubin	
PIN	S-slope camp area	W	400	23.VII.1977	Reeder	
PIN	S-slope	W	420	19.VII.1977	Reeder	
PIN		W	430	07.II.1982	CDRS	
PIZ		AZ	10	01.IV.2000	Baert *et al.*	
RAB		AZ	80	30.IX.1975	Reeder	
SAN				03.VIII.1957	SMF	K58, S&P 92
SAN	Lower south crater, SE rim	W	750	?	Reeder	
SAN	Crater area summit	FS	840	14.IX.1975	Reeder	
SCB				1957	SMF	K58, S&P 92

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
SCZ	Northern slope	SCAL		11.II.1974	Jacquemart	
SCZ	Highlands			01.XII.1979	CDRS	
SCZ				08.X.1957	SMF	K58, S&P 92
SCZ	Academy Bay			12.VIII.1957	SMF	K58, S&P 92
SCZ	CDRS Sismógrafo	LZ	2	06.III.1978	CDRS	S&P 92
SCZ	CDRS Sismógrafo	LZ	2	XI/2001	CDRS	
SCZ	Tortuga Bay	LZ	2	07.II.1993	CDRS	
SCZ	Laguna Andreas	LZ	2	04.IV.2009	Baert *et al.*	
SCZ	Bahía Tortuga	AZ	5	28.IV.1991	Baert *et al.*	
SCZ	Bahía Tortuga	AZ	5	18.V.1991	Baert *et al.*	
SCZ	Bahía Tortuga	AZ		07.XI.1993	CDRS	
SCZ	Puerto Ayora	AZ	5	10.II.1975	Reeder	
SCZ	CDRS Laboratorio	AZ	10	30.VIII.1973	CDRS	
SCZ	CDRS Laboratorio	AZ	10	01.XII.1993	CDRS	
SCZ	CDRS	AZ	10	21.VI.1984	CDRS	
SCZ	CDRS	AZ	10	01.VI.1991	CDRS	
SCZ	CDRS	AZ	10	23.II.2000	CDRS	
SCZ	CDRS	AZ	10	14.III.2003	CDRS	
SCZ	CDRS	AZ	10	12.IV.2004	CDRS	
SCZ	CDRS building	AZ	10	10.III.1975	Reeder	
SCZ	CDRS dormitorio	AZ	10	19.II.1975	Reeder	
SCZ	CDRS dormitorio	AZ	10	11.I.1979	Reeder	
SCZ	CDRS dormitorio	AZ	10	1980	Reeder	
SCZ	CDRS, near building	AZ	10	27.III.2009	Baert *et al.*	
SCZ	Barranco at CDRS	LZ	20	28.IV.1991	Baert *et al.*	
SCZ	Puerto Ayora	AZ	10	01.XII.2001	CDRS	
SCZ	Puerto Ayora	AZ	10	21.I.2002	CDRS	
SCZ	Puerto Ayora, Barrio El Eden	AZ	10	19.II.2002	CDRS	
SCZ	Puerto Ayora	AZ	10	25.II.2002	CDRS	
SCZ	Puerto Ayora	AZ	10	11.IV.1975	Reeder	
SCZ	Puerto Ayora, cementerio	AZ	10	15.VI.2000	CDRS	
SCZ	Cerro Colorado	AZ	15	16.III.1975	Reeder	
SCZ	Northern transect	AZ	50	07.III.1988	Baert *et al.*	S&P 92
SCZ	Northern transect	AZ	50	02.IV.1988	Baert *et al.*	
SCZ	Southern transect along road	AZ	50	01.III.1986	Baert *et al.*	S&P 92
SCZ	Northern slope	TZ	300	03.IV.2000	Baert *et al.*	
SCZ	Northern slope	SCAL		25.I.1974	Jacquemart	S&P 92
SCZ			760	18.VIII.1957	SMF	K58, S&P 92
SFE				31.VIII.1957	SMF	K58, S&P 92
SFE	Sea cliffs	LZ		05.IV.1989	Peck *et al.*	S&P 92
WOL	Western cliff edge	AZ		23.XI.1979	CDRS	
WOL				19.XI.1982	CDRS	
WOL	*Croton* forest, Arid Zone	AZ	75	11.V.1996	Peck *et al.*	



Map 4. Distribution of *Scolopendra galapagoensis* Brölemann, 1889 in the Galápagos archipelago.

Family CRYPTOPIDAE

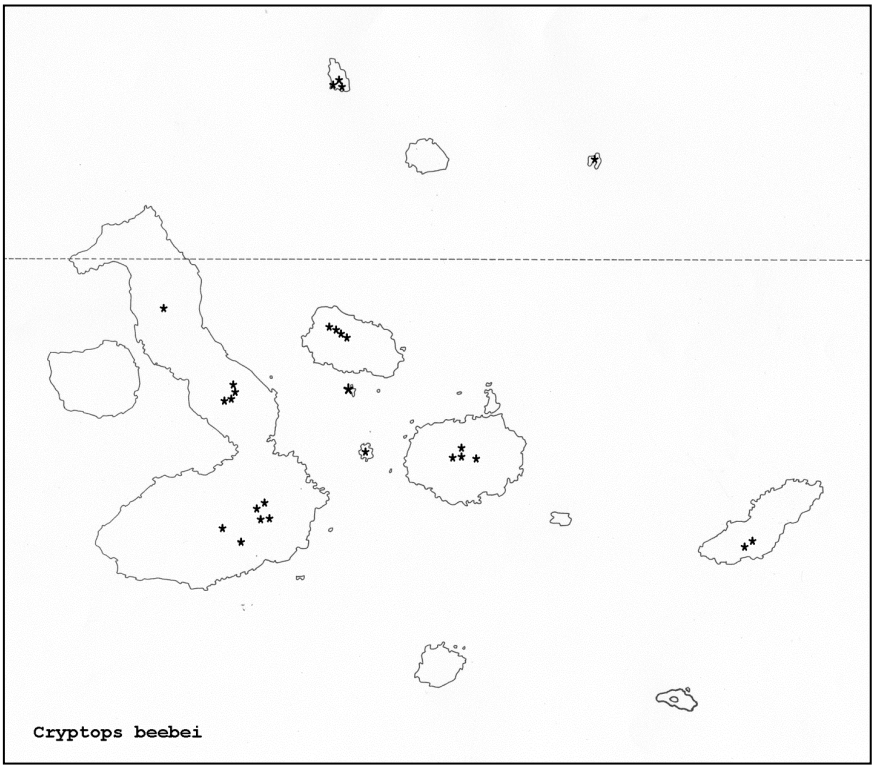
Cryptops beebei **Chamberlin, 1924**

Status : Probably endemic.
Galápagos distribution : Genovesa (2), Volcán Sierra Negra (7), Volcán Alcedo (4), Volcán Darwin(2), Pinta (12), Pinzón (5), Rábida (1), Santiago (7), San Cristóbal (2) and Santa Cruz (4).
Vegetation zones : From the littoral zone (LZ) up to the summit fern-sedge zone (FS).
Altitudinal range : 5-1150 m.
References : CHAMBERLIN (1924), PECK (1990), SHEAR & PECK (1992), PECK & FINSTON (1993), PECK & SHEAR (2000) and MINELLI *et al.* (2006).
Remark : According to SHEAR & PECK (1992), a revision of the Neotropical *Cryptops* is needed to establish the exact status of this species.

Table 5. Detailed distribution data of *Cryptops beebei* Chamberlin, 1924.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
GEN	Arcturus lake	LZ	5	25.X.1975	Reeder	
GEN				28.IV.1923	MCZ	CH24
ISN	Road to Sierra Solitario, near *Scalesia* quadrat	CZ	200	25.I.1975	Reeder	
ISN	1km S of Cerro Verde	CZ	320	16.I.1978	Reeder	
ISN	Santo Tómas, Corazon Verde	CZ	340	14.I.1977	Reeder	
ISN	*Scalesia* quadrat, Alemania area	SCAL	350	22.I.1977	Reeder	
ISN	4 km NW of Santo Tómas	W	500	14.III.1989	Peck *et al.*	S&P 92
ISN	Fern-moss litter	FS	800	13.III.1989	Peck *et al.*	S&P 92
ISN	Ravine with tree ferns	FS	850	05.III.1989	Peck *et al.*	S&P 92
IVA			600	25.V.1980	Reeder	
IVA	Crater rim	FS	1000	25.V.1980	Reeder	
IVA	Crater rim	FS	1020	17.V.1980	Reeder	
IVA	SE crater rim.	FS	1150	23.VI.1991	Peck *et al.*	S&P 92
IVD	Western transect to the top		900	27.III.1988	Baert *et al.*	S&P 92
IVD	Western transect to the top		1000	27.III.1988	Baert *et al.*	S&P 92
PIN	Western transect	W	210	21.III.1986	Baert *et al.*	S&P 92
PIN	S-slope, camp area	W	250	20.I.1977	Reeder	
PIN	Western transect	W	300	21.III.1986	Baert *et al.*	S&P 92
PIN	S-slope	W	390	20.VII.1977	Reeder	
PIN	S-slope	W	400	20.III.1986	Baert *et al.*	S&P 92
PIN	S-slope	W	400	19.VII.1977	Reeder	
PIN	S-slope	W	500	23.VII.1977	Reeder	
PIN	Southern transect	W	540	20.III.1986	Baert *et al.*	S&P 92
PIN	S-slope	W	540	23.VII.1977	Reeder	
PIN	S-slope	W	570	22.VII.1977	Reeder	
PIN	Near summit	FS	625	22.VII.1977	Reeder	
PIN	Northern rim summit crater, around fumaroles	FS	647	21.VII.1977	Reeder	
PIZ	Old crater	AZ	295	04.II.1979	Reeder	
PIZ	Old crater camp	AZ	310	05.II.1979	Reeder	
PIZ	N-slope, crater camp ridge	AZ	330	06.II.1979	Reeder	
PIZ	Summit crater camp ridge	AZ	360	06.II.1979	Reeder	
PIZ	SE-slope, "pampa"	AZ	380	27.VI.1991	Peck *et al.*	S&P 92

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
RAB	N-slope	AZ	200	09.IX.1975	Reeder	
SAN	Along Bucanero cove - summit trail	W	650	30.III.2009	Baert *et al.*	
SAN	2 km S of summit crater	FS	820	18.IX.1975	Reeder	
SAN	Summit crater area	FS	840	14.IX.1975	Reeder	
SAN	Fresh water spring at crater area	FS	850	16.IX.1975	Reeder	
SAN	1,5 km S of summit crater, Tree fern valley	FS	875	21.IX.1975	Reeder	
SAN	0,75 km S of summit	FS	900	23.IX.1975	Reeder	
SAN	1,5 km S of summit	FS	920	23.IX.1975	Reeder	
SCB	1 km E of El Junco, *Miconia* ravine	MIC	550	31.I.1974	Jacquemart	S&P 92
SCB	Border of El Junco lagoon	FS	640	31.I.1974	Jacquemart	
SCZ	Northern transect	TZ	400	07.III.1988	Baert *et al.*	S&P 92
SCZ	Cerro Puntudo, pampa	FS	700	02.II.1989	Peck *et al.*	S&P 92
SCZ	Northern slope	SCAL		25.I.1974	Jacquemart	S&P 92
SCZ	4 km NE of Santa Rosa, N of Cerro Banderas	SCAL		28.VI.1985	Peck *et al.*	S&P 92

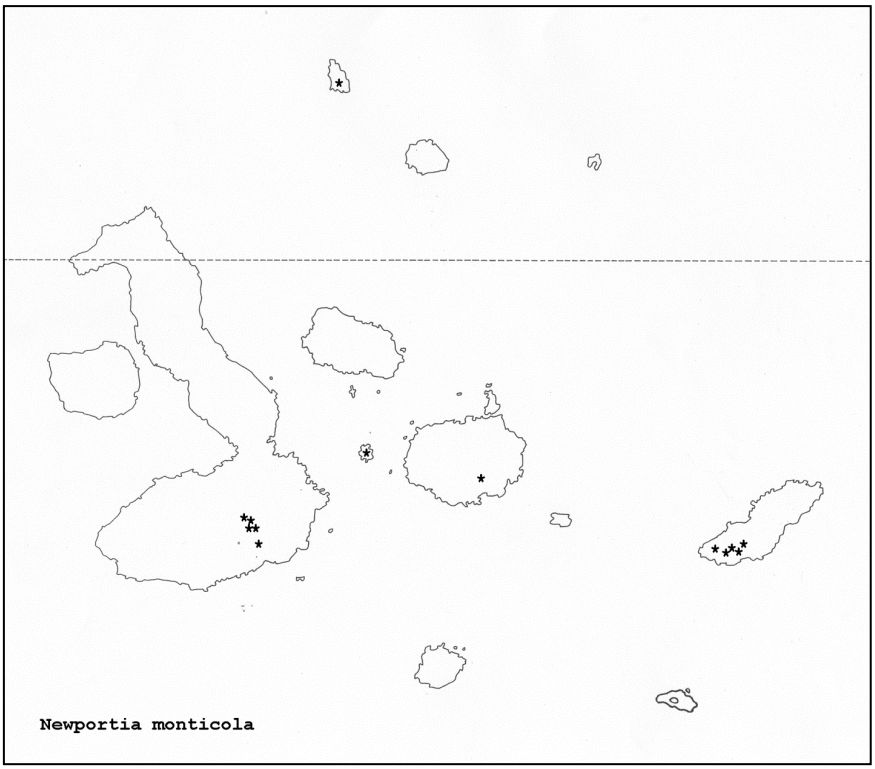


Map 5. Distribution of *Cryptops beebei* Chamberlin, 1924 in the Galápagos archipelago.

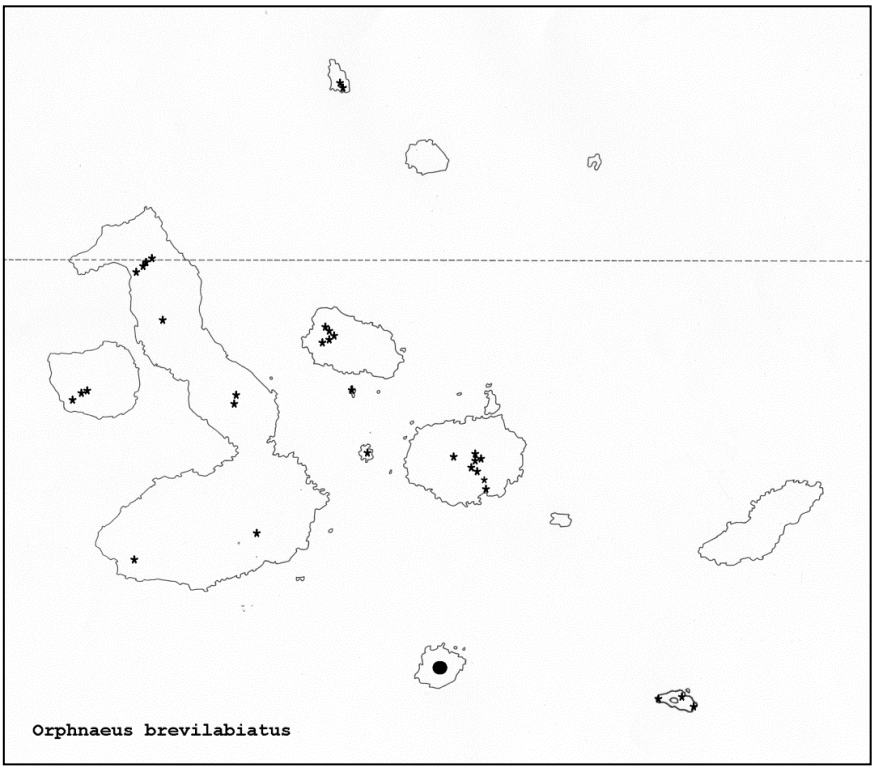
***Newportia monticola* Pocock, 1890**
Status : Probably introduced.
Galápagos distribution : Volcán Sierra Negra (12), Pinta (3), Pinzón (1), San Cristóbal (13) and Santa Cruz (1).
Vegetation zones : It is reported from all vegetation zones from arid zone to summit fern-sedge zone.
Altitudinal range : 100-650 m.
World distribution : South America : Costa Rica, Cocos Island, Guyana, Venezuela, Colombia, Ecuador and Peru.
References : CHAMBERLIN (1950), SHEAR & PECK (1992), PECK & SHEAR (2000) and MINELLI *et al.* (2006).

Table 6. Detailed distribution data of *Newportia monticola* Pocock, 1890.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG.	LIT.
ISN	12 km NW of Villamil, Jaboncillo forest	TZ	150	06.III.1989	Peck *et al.*	S&P 92
ISN	Santo Tómas	CZ	300	03.III.1989	Peck *et al.*	S&P 92
ISN	1 km S of Cerro Verde	CZ	320	16.I.1978	Reeder	
ISN	Santo Tómas	CZ	325	12.III.1989	Peck *et al.*	S&P 92
ISN	Santo Tómas, Corazon Verde, garden	CZ	350	21.II.1986	Baert *et al.*	S&P 92
ISN	Santo Tómas	CZ	350	09.VII.1985	Peck *et al.*	
ISN	3 km NW of Santo Tómas, coffee plantation	CZ	380	01.III.1989	Peck *et al.*	S&P 92
ISN	Santo Tómas, vicinity	CZ	400	20.II.1986	Baert *et al.*	S&P 92
ISN	N of Santo Tómas	CZ	475	20.II.1986	Baert *et al.*	S&P 92
ISN	Trail above Santo Tómas	W	480	19.I.1978	Reeder	
ISN	4 km NW of Santo Tómas	W	500	14.III.1989	Peck *et al.*	S&P 92
ISN	5.5 km NW of Santo Tómas, Guava forest	W	550	08.III.1989	Peck *et al.*	S&P 92
PIN	S-slope	W	400	19.VII.1977	Reeder	
PIN	S-slope	W	420	22.VII.1977	Reeder	
PIN	S-slope	W	500	23.VII.1977	Reeder	
PIZ		AZ	290	04.II.1979	Reeder	
SCB	Trail from Tres Palos to Espiñero	CZ	160	12.II.1978	Reeder	
SCB	Tres palos area	CZ	190	11.II.1978	Reeder	
SCB	El Progresso	CZ	300	27.III.1986	Baert *et al.*	S&P 92
SCB	1 km E of El Progreso, Guava ravine	CZ	370	23.II.1989	Peck *et al.*	S&P 92
SCB	1 km E of El Progreso, rose apple thicket litter	CZ	370	19.II.1989	Peck *et al.*	S&P 92
SCB	La Toma, *Miconia* & tree fern	MIC	530	15.II.1989	Peck *et al.*	S&P 92
SCB	1 km E of El Junco, *Miconia* ravine	MIC	550	14.II.1989	Peck *et al.*	S&P 92
SCB	1 km E of El Junco, *Miconia* ravine	MIC	550	23.II.1989	Peck *et al.*	S&P 92
SCB	El Junco area	FS	550	16.II.1978	Reeder	
SCB	5 km E of El Progresso	CZ	590	13.II.1989	Peck *et al.*	S&P 92
SCB	2 km NW of El Junco, *Miconia* ravine	MIC	620	21.II.1989	Peck *et al.*	S&P 92
SCB	Border of El Junco lagoon	FS	650	31.I.1974	Jacquemart	S&P 92
SCB	Cerro San Joaquin	FS	740	27.III.1996	Baert *et al.*	
SCZ	3 km S of Bellavista	TZ	115	20.I.1989	Peck *et al.*	S&P 92



Map 6. Distribution of *Newportia monticola* Pocock, 1890 in the Galápagos archipelago.



Map 7. Distribution of *Orphnaeus brevilabiatus* Newport, 1845 in the Galápagos archipelago.

Order GEOPHILOMORPHA

Family ORYIDAE

***Orphnaeus brevilabiatus* Newport, 1845**
Status : Introduced.
Galápagos distribution : Española (5), Fernandina (3), Floreana (1), Volcán Cerro Azul (2), Volcán Sierra Negra (1), Volcán Alcedo (3), Volcán Darwin (2), Volcán Wolf (8), Pinta (5), Pinzón (3), Rábida (1), Santiago (5) and Santa Cruz (16).
Vegetation zones : It is reported from all vegetation zones from arid zone to summit fern-sedge zone.
Altitudinal range : 2-1700 m.
World distribution : Central and South America, West indies, Africa (Angola, Zimbabwe, Cameroon, Madagascar), India, Taiwan, Japan, Pacific islands.
References : CHAMBERLIN (1912, 1914, 1950), PECK (1990), SHEAR & PECK (1992), PECK & SHEAR (2000) and MINELLI *et al.* (2006).
Remark : According to SHEAR & PECK (1992), a revision of the entire genus *Orphnaeus* is needed to establish the exact status of this species.

Table 7. Detailed distribution data of *Orphnaeus brevilabiatus* Newport, 1845.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
ESP	Punto Cevallos	LZ	2	03.III.1988	Baert *et al.*	S&P 92
ESP	Playa Gardner	AZ	2	27.VI.1991	Abedrabbo	S&P 92
ESP				18.V.1899		CH14, S&P 92
ESP				1925		CH50, S&P 92
ESP	Puerto Suarez	AZ		10.II.1977	Reeder	
FER	Cerro Verde, 5 km NE of Cabo Hammond		170	09.V.1991	Baert *et al.*	
FER	10 km NE of Cabo Hammond		400	09.V.1991	Peck *et al.*	S&P 92
FER	SW transect		800	07.V.1991	Baert *et al.*	
FLO				1932		CH55, S&P 92
ICA	Caleta Iguana	AZ	5	24.II.1986	Baert *et al.*	
ICA	Caleta Iguana	AZ	5	26.V.1991	Peck *et al.*	S&P 92
ISN	Santo Tómas	CZ	300	03.III.1989	Peck *et al.*	S&P 92
IVA	Crater rim	FS	1100	01.IV.1986	Baert *et al.*	S&P 92
IVA	Cumbre	FS	1120	25.VI.1991	Abedrabbo	S&P 92
IVA	NE rim	FS	1150	25.VI.1991	Peck *et al.*	S&P 92
IVD	Western transect to the top	SAZ	1200	27.III.1988	Baert *et al.*	S&P 92
IVD	Western transect to the top	SAZ	1300	28.III.1988	Baert *et al.*	S&P 92
IVW	Western transect to the top		125	22.III.1988	Baert *et al.*	S&P 92
IVW	Western transect to the top		400	23.III.1988	Baert *et al.*	S&P 92
IVW	Western transect to the top		600	21.III.1988	Baert *et al.*	S&P 92
IVW	Western transect to the top		825	22.III.1988	Baert *et al.*	S&P 92
IVW	Western transect to the top		1000	22.III.1988	Baert *et al.*	S&P 92
IVW	Western transect to the top	SAZ	1425	22.III.1988	Baert *et al.*	S&P 92
IVW	Western transect to the top	SAZ	1625	22.III.1988	Baert *et al.*	S&P 92

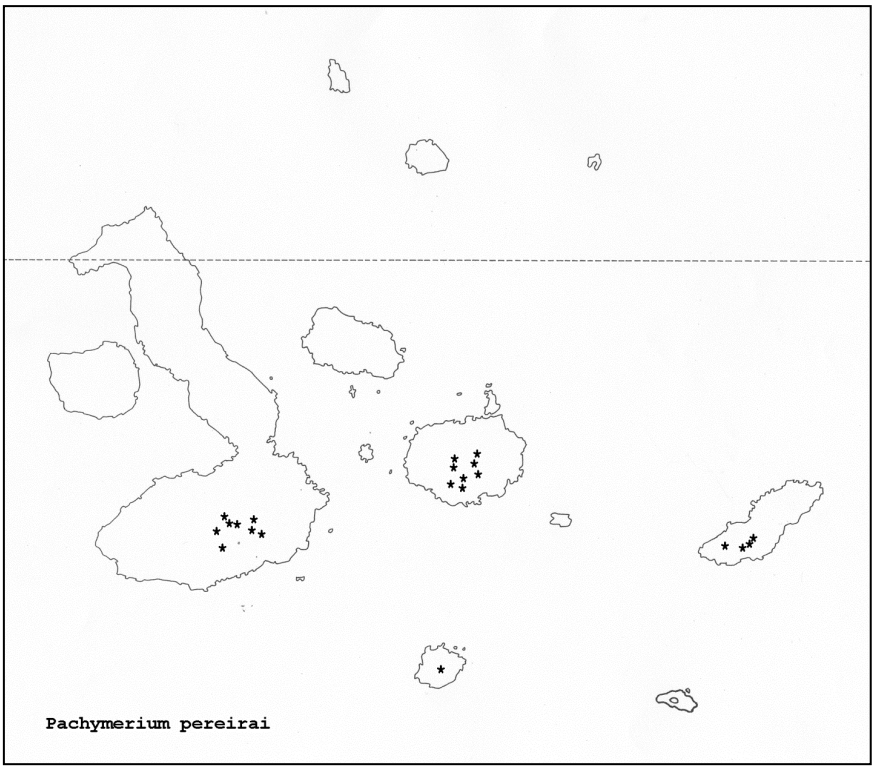
ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
IVW	Summit	SAZ	1700	22.III.1988	Baert *et al.*	
PIN	S-slope, camp area	W	250	20.I.1977	Reeder	
PIN	Southern transect	W	300	20.III.1986	Baert *et al.*	S&P 92
PIN				09.II.1982	Lubin	S&P 92
PIN	Arid zone	AZ		27.II.1974	Jacquemart	S&P 92
PIN		W		28.II.1974	Jacquemart	S&P 92
PIZ	Caldera rim	AZ	300	10.III.1986	Baert *et al.*	S&P 92
PIZ	S-slope crater camp area	AZ	340	06.II.1979	Reeder	
PIZ	Trail to summit, *Opuntia*	AZ	270	25.I.2010	Hendrickx	
RAB	Lagoon	AZ		09.III.1986	Baert *et al.*	
SAN	North of Mina de Sal	W	300	07.III.1986	Baert *et al.*	S&P 92
SAN	Guayavillo quadrat, 5 km SE of Bahía Bucanero	W	520	21.IV.1975	Reeder	
SAN	*Scalesia* quadrat, along Bucanero - summit trail	SCAL	555	29.III.2009	Baert *et al.*	
SAN	NW rim of lower crater, 5 km SE of summit island	W	750	23.IX.1975	Reeder	
SAN	Crater area summit	FS	840	14.IX.1975	Reeder	
SCZ	CDRS, *Sesuvium* litter	LZ	2	27.IV.1985	Peck *et al.*	S&P 92
SCZ	CDRS, beach	LZ	2	20.V.1985	Peck *et al.*	
SCZ	Bellavista village	CZ	180	28.I.2010	Hendrickx	
SCZ	*Miconia* at Media Luna	MIC	550	15.II.1988	Baert *et al.*	S&P 92
SCZ	*Miconia* at Media Luna	MIC	550	08.III.1988	Baert *et al.*	
SCZ	Los Gemelos, pampa	FS	600	03.XI.1997	CDRS	
SCZ	1 km N of Cerro Puntudo, *Scalesia*	SCAL	650	08.V.1989	Peck *et al.*	S&P 92
SCZ	Between Cerro Puntudo and Cerro Crocker	FS	750	1992	CDRS	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	15.IX.1993	Abedrabbo	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	15.III.1994	Abedrabbo	
SCZ	Top of Cerro Crocker	FS	875	15.I.1993	Abedrabbo	
SCZ	Top of Cerro Crocker	FS	875	15.XII.1993	Abedrabbo	
SCZ	Top of Cerro Crocker	FS	875	15.III.1994	Abedrabbo	
SCZ	Top of Cerro Crocker	FS	875	15.VI.1995	Abedrabbo	
SCZ	Academy Bay beach at CDRS	LZ		27.VI.1985	Peck *et al.*	
SCZ	Northern slope	SCAL		25.I.1974	Jacquemart	S&P 92

Family CHILENOPHILIDAE

***Pachymerium pereirai* Shear & Peck, 1992**
Status : Probably endemic.
Galápagos distribution : Floreana (1), Volcán Sierra Negra (9), San Cristóbal (5) and Santa Cruz (11).
Vegetation zones : From the transition zone (TZ) up to summit fern-sedge zone (FS).
Altitudinal range : 170-1125 m.
References : SHEAR & PECK (1992), PECK & FINSTON (1993), PECK & SHEAR (2000) and MINELLI *et al.* (2006).

Table 8. Detailed distribution data of *Pachymerium pereirai* Shear & Peck, 1992.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
FLO	6 km E of Black Beach, *Scalesia*	SCAL	360	28.III.1989	Peck *et al.*	S&P 92
ISN	Road to Sierra Solitario, near *Scalesia* quadrat	CZ	210	24.I.1978	Reeder	
ISN	0,5 km S of Sto Tómas	CZ	350	07.VII.1985	Peck *et al.*	S&P 92
ISN	*Scalesia* quadrat, Alemania area	SCAL	370	22.I.1977	Reeder	
ISN	7 km WNW of Santo Tómas	FS	640	08.VII.1985	Peck *et al.*	S&P 92
ISN	8 km NW of Santo Tómas, pampa	FS	750	08.III.1989	Peck *et al.*	S&P 92
ISN	10 km WNW of Santo Tómas	FS	830	09.VII.1985	Peck *et al.*	S&P 92
ISN	West rim of caldera	FS	985	25.I.1977	Reeder	
ISN	Sierra Negra, rim	FS	1000	04.III.1989	Peck *et al.*	S&P 92
ISN	Rim of crater	FS	1125	19.II.1986	Baert *et al.*	
SCB	1 km NW of El Progresso	CZ	300	18.II.1989	Peck *et al.*	S&P 92
SCB	La Toma, *Miconia* & tree fern	MIC	530	15.II.1989	Peck *et al.*	S&P 92
SCB	1 km E of El Junco, *Miconia* ravine	MIC	550	14.II.1989	Peck *et al.*	S&P 92
SCB	El Junco, pampa	FS	600	14.II.1989	Peck *et al.*	S&P 92
SCB	Border of El Junco lagoon	FS	640	18.II.1978	Reeder	
SCZ	Occidente	TZ	170	13.IV.2012	Wauters	
SCZ	Caseta Tortuga	TZ	180	23.XII.1981	Lubin	S&P 92
SCZ	Tortoise Reserve	TZ	180	07.II.1989	Peck *et al.*	S&P 92
SCZ	Horneman farm	CZ	220	16.II.1964	CAS	S&P 92
SCZ	2 km N of Bellavista, Avocado grove	CZ	360	14.V.1985	Peck *et al.*	S&P 92
SCZ	Santa Rosa, Devine farm, *Scalesia*	SCAL	500	05.II.1989	Peck *et al.*	S&P 92
SCZ	Los Gemelos, pampa	FS	570	12.II.1988	Baert *et al.*	
SCZ	Media Luna	SPH	600	18.III.1989	Peck *et al.*	S&P 92
SCZ	Media Luna	FS	650	03.III.1982	Lubin	S&P 92
SCZ	Pampa	FS	700	08.III.1988	Baert *et al.*	
SCZ	Cerro Puntudo, pampa	FS	750	08.II.1989	Peck *et al.*	S&P 92



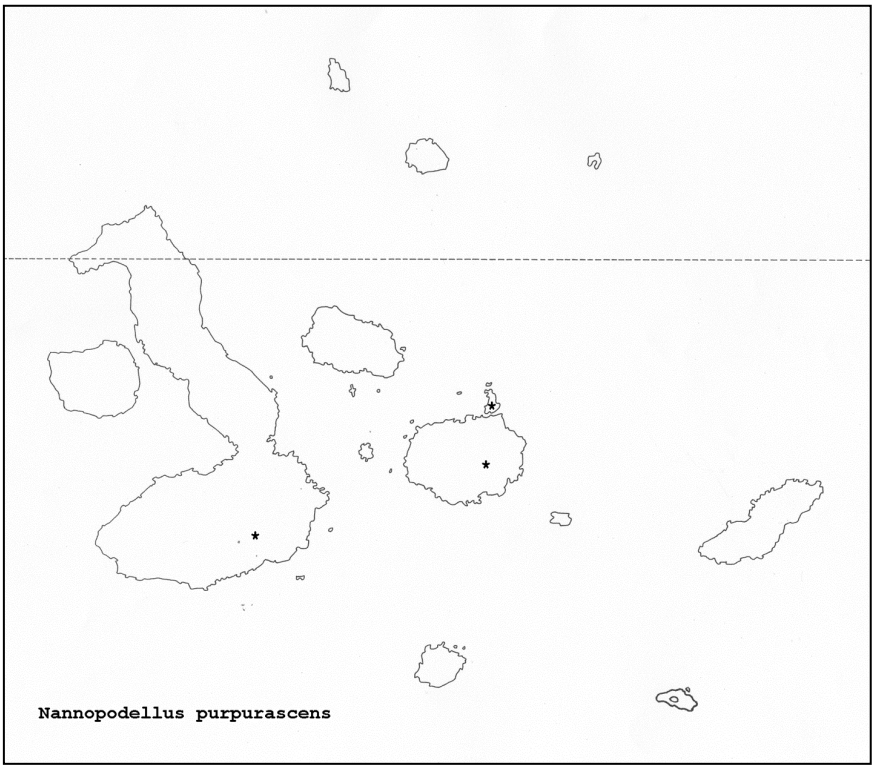
Map 8. Distribution of *Pachymerium pereirai* Shear & Peck, 1992 in the Galápagos archipelago.

Family SCHENDYLIDAE

***Nannopodellus purpurescens* Chamberlin, 1924**
Status : Probably endemic.
Galápagos distribution : Baltra (1), Volcán Sierra Negra (1) and Santa Cruz (1).
Vegetation zones : Arid Zone, Transition Zone.
Altitudinal range : 10-480 m.
References : CHAMBERLIN (1924), PECK (1990), SHEAR & PECK (1992), PECK & FINSTON (1993), PECK & SHEAR (2000) and MINELLI *et al.* (2006).
Remark : PECK & SHEAR (2000) considered this species as an introduced species which is probably extinct.

Table 9. Detailed distribution data of *Nannopodellus purpurescens* Chamberlin, 1924.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
BAL		AZ		20.IV.1923	MCZ	CH24, S&P 92
ISN	Trail above Santo Tómas	W	480	19.I.1978	Reeder	
SCZ	1 km E of Bellavista	TZ	210	1964	Leleup	



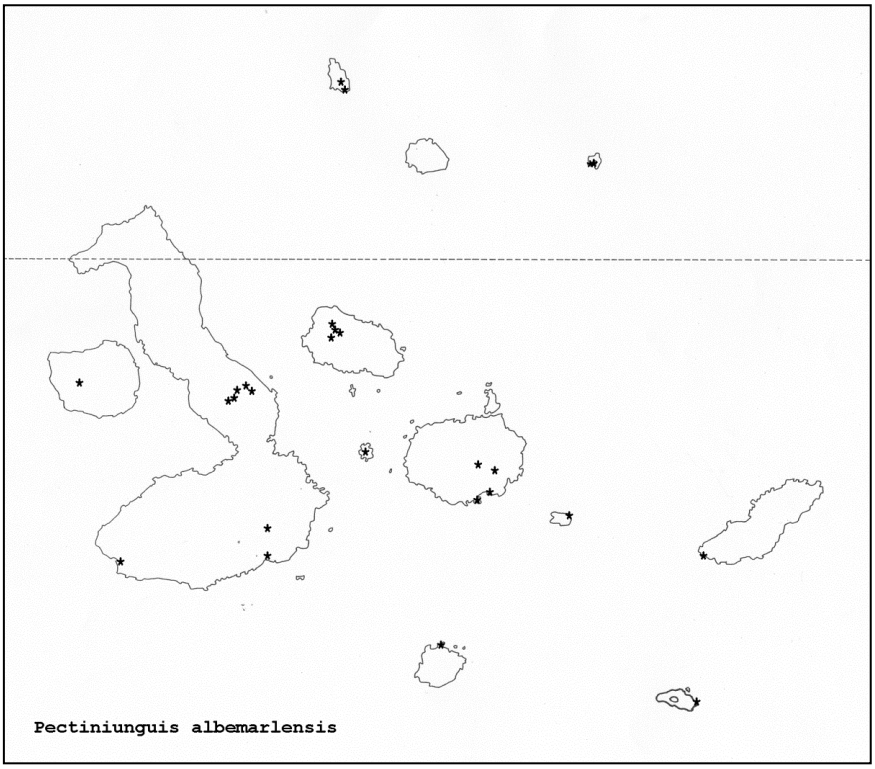
Map 9. Distribution of *Nannopodellus purpurescens* Chamberlin, 1924 in the Galápagos archipelago.

***Pectiniunguis albemarlensis* Chamberlin, 1914**
Status : Probably endemic.
Galápagos distribution : Darwin (1), Española (7), Fernandina (2), Genovesa (3), Volcán Cerro Azul (1), Volcán Sierra Negra (2), Volcán Alcedo (6), Volcán Darwin(1), Pinta (4), Pinzón (1), Santiago (9), San Cristóbal (1), Santa Cruz (12) and Santa Fé (1).
Vegetation zones : Occurs within all vegetation zones from arid zone to summit fern-sedge zone.
Altitudinal range : 2-1025 m.
References : CHAMBERLIN (1913, 1914, 1924), KRAUS (1958), PECK (1990), SHEAR & PECK (1992), PECK & FINSTON (1993), PECK & SHEAR (2000) and MINELLI *et al.* (2006).

Table 10. Detailed distribution data of *Pectiniunguis albemarlensis* Chamberlin, 1914.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
DAR		AZ		29.I.1965	CAS	
ESP	Punto Cevallos, beach	LZ		03.II.1998	Roqué	
ESP	Punto Cevallos, beach	LZ		03.III.1998	Roqué	
ESP	Punto Cevallos, beach	LZ		01.X.1998	Roqué	
ESP	Punto Cevallos	LZ	2	04.III.1988	Baert *et al.*	S&P 92
ESP	Punto Cevallos	LZ	2	20.VI.1905	CDRS	
ESP	Punto Cevallos	LZ	2	03.II.1998	CDRS	
ESP	Punto Cevallos	LZ	2	03.III.1998	CDRS	
FER	W vegetation strip		320	13.VIII.1977	Reeder	
FER	Green crater, W vegetation strip		620	12.VIII.1977	Reeder	
FLO	Punta Cormoran, mangrove	LZ	2	21.IV.1991	Baert *et al.*	
GEN				27.IV.1923		CH24, S&P 92
GEN	Bahía Darwin	LZ	5	14.III.1988	Baert *et al.*	S&P 92
GEN	3 km WSW of Playa of Bahía Darwin	AZ	5	23.X.1975	Reeder	
ICA	Iguana Cove	AZ	5	XII/1898		CH13
ISN	Villamil, road to highlands, 1 km to sea	AZ	15	11.I.1978	Reeder	
ISN	Santo Tómas, Corazon Verde	CZ	340	14.I.1977	Reeder	
IVA	Zona arida alta	AZ		04.IV.1999	CDRS	
IVA	Zona Arida alta	AZ	300	10.IV.1999	Roqué	
IVA	W of lava flow	AZ	380	25.V.1980	Reeder	
IVA	Pega Pega camp		780	15.V.1980	Reeder	
IVA	Rim	FS	1020	17.V.1980	Reeder	
IVA	Cumbre	FS	1025	02.IX.1991	Abedrabbo	
IVD	Western transect to the top		900	27.III.1988	Baert *et al.*	S&P 92
PIN	South coast	AZ		25.V.1964	CAS	S&P 92
PIN	S-slope camp area	W	250	20.I.1977	Reeder	
PIN	S-slope	W	400	20.VII.1977	Reeder	
PIN	S-slope	W	500	23.VII.1977	Reeder	
PIZ	Main crater rim	AZ	290	04.II.1979	Reeder	
SAN	Near the coast	AZ	10	19.III.1974	Jacquemart	S&P 92
SAN	Guayavillo quadrat,5 km SE of B. Bucanero	W	520	21.IV.1975	Reeder	
SAN	NW rim of lower crater, 5 km SE of summit island	W	750	23.IX.1975	Reeder	

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
SAN	Ravine W of crater, crater area summit	W	750	20.IX.1975	Reeder	
SAN	Crater area summit	FS	850	16.IX.1975	Reeder	
SAN	Crater area summit	FS	875	20.IX.1975	Reeder	
SAN	Summit	FS	893	31.III.2009	Baert *et al.*	
SAN	1,5 km S of summit	FS	920	23.IX.1975	Reeder	
SAN	1 km S of summit crater	FS	930	15.IX.1975	Reeder	
SCB	3 km SE of Wreck Bay	LZ	2	16.III.1996	Peck *et al.*	P&S 00
SCZ	1 km West of Cerro Infernillo	SCAL		05.II.1971	CDRS	S&P 92
SCZ	Tortuga Bay	LZ	2	25.VII.1991	Abedrabbo	
SCZ	Tortuga Bay	LZ	2	07.II.1993	Abedrabbo	
SCZ	Tortuga Bay	LZ	2	07.IV.1993	Abedrabbo	
SCZ	Tortuga Bay	LZ	2	07.VIII.1993	Abedrabbo	
SCZ	Tortuga Bay	LZ	2	07.II.1994	Abedrabbo	
SCZ	Along coast	AZ	10	09.II.1974	Jacquemart	
SCZ	East slope	TZ	160	16.IV.1964	CAS	S&P 92
SCZ	Cerro Mesa		440	16.IV.1964	CAS	S&P 92
SCZ	Pampa	FS	575	1964	Leleup	
SCZ	Between Cerro Biento and Cerro Puntudo	FS	600	1964	Leleup	
SCZ	Northwest slope	FS	600	30.V.1964	CAS	S&P 92
SFE	Second barranco 1 km SSW of camp bay	AZ		24.I.1979	Reeder	

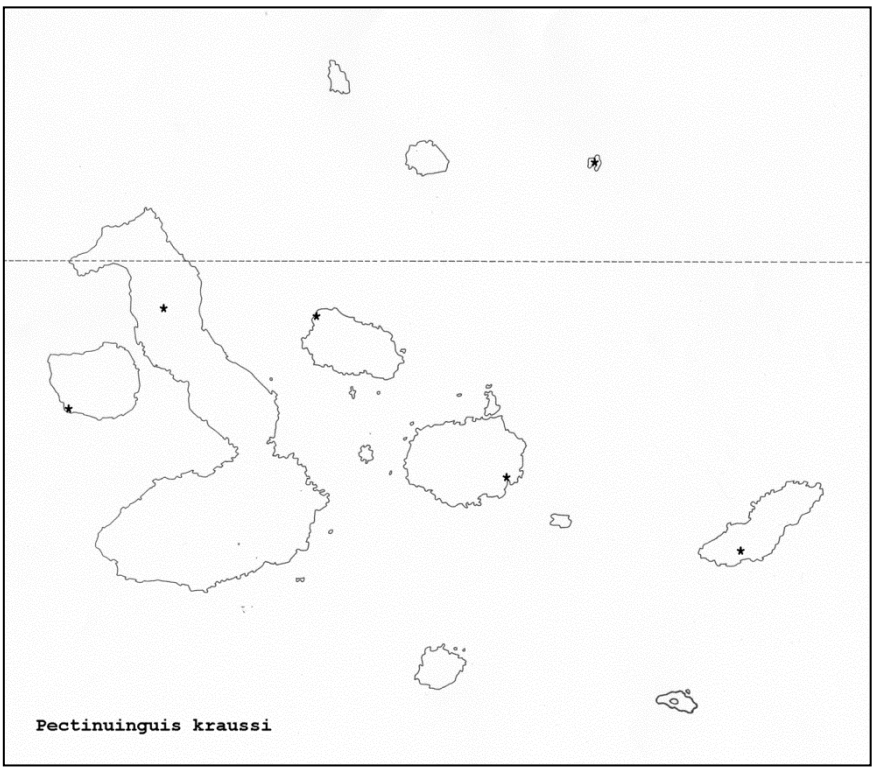


Map 10. Distribution of *Pectiniunguis albemarlensis* Chamberlin, 1914 in the Galápagos archipelago.

***Pectiniunguis kraussi* Shear & Peck, 1992**
Status : Probably endemic.
Galápagos distribution : Fernandina (1), Genovesa (1), Volcán Darwin (1), Santiago (1), San Cristóbal (1) and Santa Cruz (1).
Vegetation zones : Found principally in the littoral (LZ) and lower arid zone (AZ) but also in the upper arid zone (SAZ) of Volcán Darwin. A female was captured in the fern-sedge zone of San Cristóbal.
Altitudinal range : 2-10 m, 650 m and 1100 m.
References : KRAUS (1958), PECK & FINSTON (1993), PECK & SHEAR (2000) and MINELLI *et al.* (2006).

Table 11. Detailed distribution data of *Pectiniunguis kraussi* Shear & Peck, 1992.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
FER	Cabo Hammond, sea cliffs	LZ	2	24.V.1996	Peck *et al.*	P&S 00
GEN				18.VIII.1957	SMF	K58, S&P 92
IVD	Western transect to the top	SAZ	1100	27.III.1988	Baert *et al.*	S&P 92
SAN	Bahía Bucanero	AZ	10	18.IV.1975	Reeder	
SCB	Border of El Junco lagoon	FS	650	31.I.1974	Jacquemart	S&P 92
SCZ	Punta Nuñez	LZ	2	06.XII.1981	Lubin	S&P 92

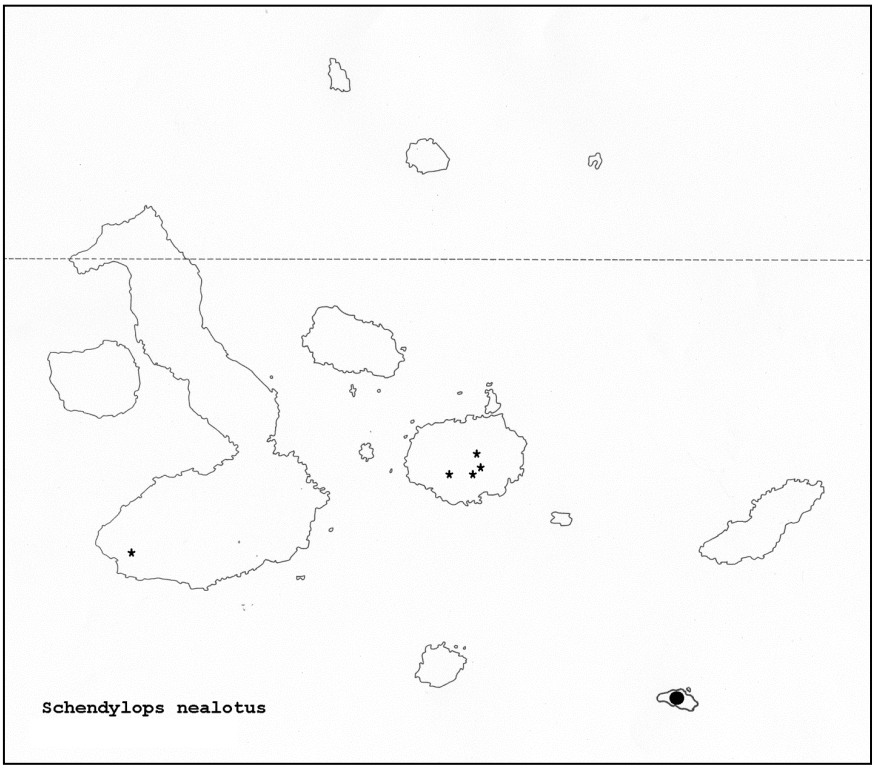


Map 11. Distribution of *Pectiniunguis kraussi* Shear & Peck, 1992 in the Galápagos archipelago.

***Schendylops nealotus* (Chamberlin, 1950)**
= Nesondyla nealota CHAMBERLIN, 1950 : 135. – SHEAR & PECK, 1992 : 2267, figs. 9-17. – PECK & FINSTON, 1993 : 20.
Status : Probably endemic.
Galápagos distribution : Española (1), Volcán Cerro Azul (1) and Santa Cruz (5).
Vegetation zones : Was found within all vegetation zones except in the littoral and agricultural zone.
Altitudinal range : 120-700 m.
References : CHAMBERLIN (1950), SHEAR & PECK (1992), PECK & FINSTON (1993), PECK & SHEAR (2000) and MINELLI *et al.* (2006).

Table 12. Detailed distribution data of *Schendylops nealotus* (Chamberlin, 1950).

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
ESP				27.IV.2025	AMNH	CH50, S&P 92
ICA	7 km NE of Caleta Iguana, pampa	FS	700	23.V.1991	Peck *et al.*	S&P 92
SCZ	Trail to Bellavista	AZ	150	11.X.1975	Reeder	
SCZ	Transect from Caseta Occidente to coast	TZ	170	14.VIII.1970	Reeder	
SCZ	1 km E of Bellavista	TZ	210	18.I.1974	Jacquemart	S&P 92
SCZ	Northern slope	SCAL		25.I.1974	Jacquemart	S&P 92
SCZ	Northern slope	SCAL		15.II.1974	Jacquemart	S&P 92



Map 12. Distribution of *Schendylops nealotus* (Chamberlin, 1950) in the Galápagos archipelago.

Dubious records of Chilopoda

Order SCOLOPENDROMORPHA

Family SCOLOPENDRIDAE

***Cormocephalus andinus* (Kraepelin, 1903)**
This species, occurring in Ecuador and Peru, was reported by KRAUS (1958) along the road from Academy Bay towards the North at 760m in "Moospolster" (I presume he meant 760 m of altitude, which would mean that it was found in the summit fern-sedge zone in a *Sphagnum* bog), Santa Cruz (18.VIII.1957, Leg. I. Ebl-Eibesfeldt). It has since never been found again and SHEAR & PECK (1992) suspect that the species arrived in the islands before 1932, but probably disappeared before regular samplings began from 1974 on. PECK *et al.* (2000) gave it the status of "probably extinct introduced" species.

Order GEOPHILOMORPHA

Family ORYIDAE

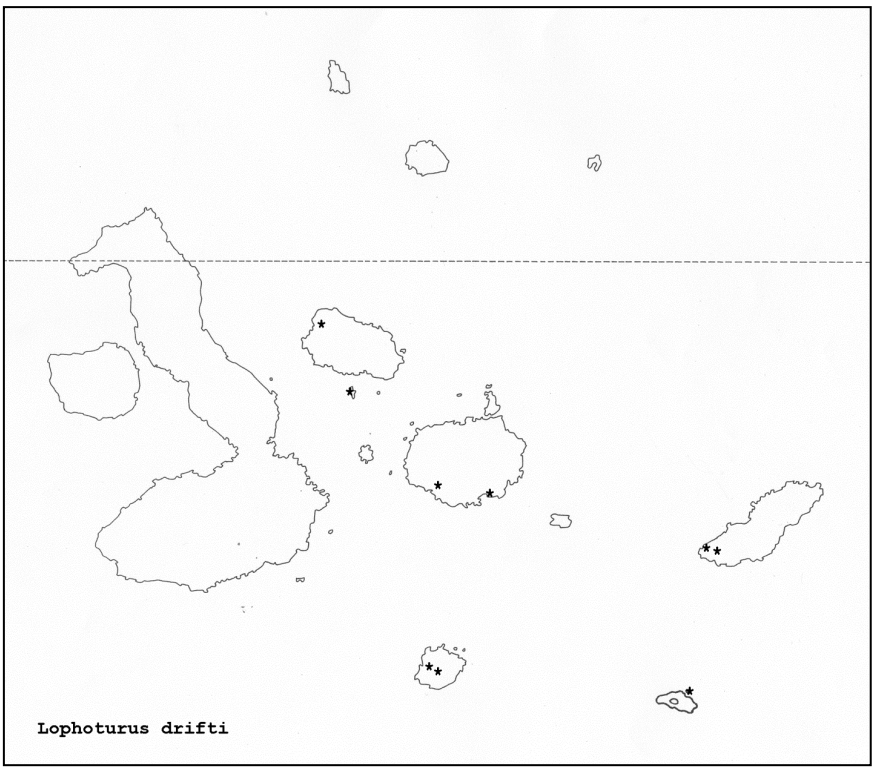
***Orphnaeus brasilianus* (Humbert & Saussure, 1870)**
This species is known from Madagascar and Brazil.
It is not clear if *O. brasilianus* and *O. brevilabiatus* are synomyms or not. For the discussion about this we refer to SHEAR & PECK (1992). They listed however all their records under *O. brevilabiatus*, the older name and the species with leg counts at least in the range of the present material. KRAUS (1958) reported this species from Isla Santa Cruz, 8 miles NW of Academy Bay, 21.VII.1957, Leg. I. Ebl-Eibesfeldt.

Class DIPLOPODA
Order POLYZENIDA
Family LOPHOPROCTIDAE

***Lophoturus drifti* (Condé & Terver, 1964)**
Status : Introduced.
Galápagos distribution : Floreana (2), Gardner near Española (1), Rábida (1), Santiago (1), San Cristóbal (3) and Santa Cruz (3).
Vegetation zones : Was found in all vegetation zones except the higher *Miconia* and fern-sedge zones.
Altitudinal range : 0-400 m.
World distribution : Tropical America.
References : SHEAR & PECK (1987), PECK (1990), PECK & SHEAR (2000).

Table 13. Detailed distribution data of *Lophoturus drifti* (Condé & Terver, 1964).

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG.	LIT.
FLO	Western trail	AZ	110	16.II.1977	Reeder	
FLO	SE-slope Cerro Pajas (highest peak)	SCAL	380	21.II.1977	Reeder	
GAE	Gardner island near Española	AZ	20	13.II.1977	Reeder	
RAB	Beach berm margin behind lagoon	LZ		28.IX.1975	Reeder	
SAN	NW-slope, bucanero cove trail	TZ	260	17.III.1974	Jacquemart	
SCB	Near Cerro de las Tijeretas	AZ	10	01.IV.1985	Schatz *et al.*	S&P 87
SCB	Culture zone near El Progresso	CZ	350	31.III.1985	Schatz *et al.*	S&P 87
SCB	Culture zone near El Progresso	CZ	400	31.III.1985	Schatz *et al.*	S&P 87
SCZ	Grieta Iguana near Barranco, CDRS	CU	-10	04.V.1996	Peck *et al.*	P&S 00
SCZ	Littoral zone	LZ		09.I.1974	Jacquemart	
SCZ	Transect from Caseta to coast	TZ	170	14.VIII.1970	Reeder	



Map 13. Distribution of *Lophoturus drifti* (Condé & Terver, 1964) in the Galápagos archipelago.

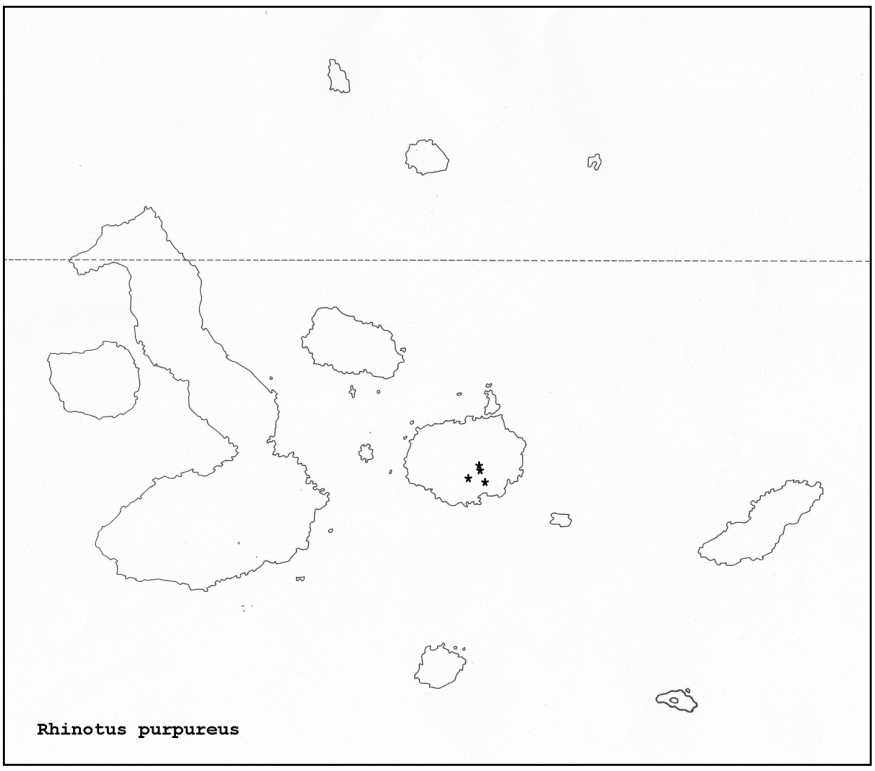
Order POLYZONIIDA

Family SIPHONOTIDAE

***Rhinotus purpureus* (Pocock, 1894)**
Status : Introduced synanthropic species.
Galápagos distribution : Santa Cruz (10).
Vegetation zones : Agricultural and *Miconia* zones.
Altitudinal range : 140-500 m.
World distribution : USA (Florida, Louisiana), Panama, Costa Rica, Honduras, Suriname, West Indies, Brazil, West Africa, Madagascar, Mauritius, Indonesia and Micronesia.
References : SHEAR & PECK (1987), PECK (1990), PECK & SHEAR (2000).

Table 14. Detailed distribution data of *Rhinotus purpureus* (Pocock, 1894).

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG.	LIT.
SCZ	Southern transect along road, Culture zone	CZ	140	01.III.1986	Baert *et al.*	S&P 87
SCZ	Southern transect along road, Culture zone	CZ	140	12.III.1986	Baert *et al.*	S&P 87
SCZ	Southern transect along road, Culture zone	CZ	230	01.III.1986	Baert *et al.*	S&P 87
SCZ	Southern transect along road, Culture zone	CZ	230	12.III.1986	Baert *et al.*	S&P 87
SCZ	Media Luna trail, Guyava orchard	CZ	350	10.IV.2000	Baert *et al.*	
SCZ	Media Luna trail, Culture zone	CZ	350	31.III.1996	Baert *et al.*	
SCZ	El Carmen	CZ	350	03.IV.2000	Baert *et al.*	
SCZ	Banana orchard between Bellavista and Media luna	CZ	360	05.IV.2011	Wauters	
SCZ	Media Luna trail, *Miconia*	MIC	500	03.IV.2000	Baert *et al.*	
SCZ	Media Luna trail, *Miconia*	MIC	500	31.III.1996	Baert *et al.*	



Map 14. Distribution of *Rhinotus purpureus* (Pocock, 1894) in the Galápagos archipelago.

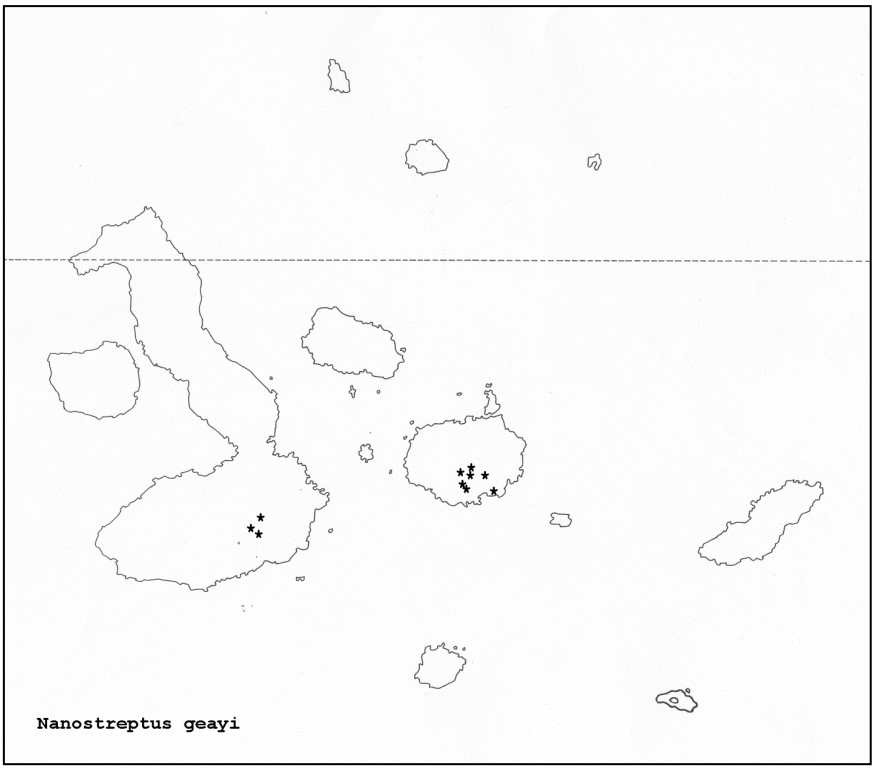
Order SPIROBOLIDA

Family RHINOCRICIDAE

***Nanostreptus geayi* (Brölemann, 1889)**
Status : Introduced.
Galápagos distribution : Volcán Sierra Negra (16) and Santa Cruz (6) (islands inhabited by man).
Vegetation zones : Arid zone, Transition zone and agricultural zone.
Altitudinal range : 5-400 m.
World distribution : Central America and West Indies.
References : PECK & SHEAR (2000).

Table 15. Detailed distribution data of *Nanostreptus geayi* (Brölemann, 1889).

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
ISN	Santo Tómas	W	200	I/1989	Peck *et al.*	P&S 00
ISN	Santo Tómas	CZ	300	15.III.1989	Peck *et al.*	P&S 00
ISN	Alfagia	CZ	400	04.XII.2002	CDRS	
ISN	Barrio Loja	CZ	400	11.V.2003	CDRS	
ISN	Infiernillo	CZ	400	01.XI.2003	CDRS	
ISN	La Esperanza	CZ	400	02.XI.2003	CDRS	
ISN	Los Ceibos	CZ	400	10.XII.2002	CDRS	
ISN	Los Ceibos	CZ	400	01.XI.2003	CDRS	
ISN	Los Ceibos	CZ	400	11.V.2003	CDRS	
ISN	Los Mellizos	CZ	400	01.XI.2003	CDRS	
ISN	Los Tintos	CZ	400	04.XII.2002	CDRS	
ISN	Los Tintos	CZ	400	01.XI.2003	CDRS	
ISN	Merceditas	CZ	400	04.XII.2002	CDRS	
ISN	Pretoria	CZ	400	01.XI.2003	CDRS	
ISN	Cerro Verde	CZ		01.XI.2003	CDRS	
ISN	Cerro Verde	CZ		07.V.2003	CDRS	
SCZ	CDRS	AZ	5	13.III.1991	Abedrabbo	P&S 00
SCZ	Occidente	TZ	170	13.IV.2012	Wauters	
SCZ	Bellavista	CZ	200	25.II.2002	CDRS	
SCZ	4 km E of Santa Rosa	CZ	350	04.V.1996	Peck *et al.*	P&S 00
SCZ	El Carmen	CZ	350	03.IV.2000	Baert *et al.*	
SCZ	Banana orchard between Bellavista -Media luna	CZ	360	05.IV.2011	Wauters	



Map 15. Distribution of *Nanostreptus geayi* (Brölemann, 1889) in the Galápagos archipelago.

Order POLYDESMIDA

Family CYRTODESMIDAE

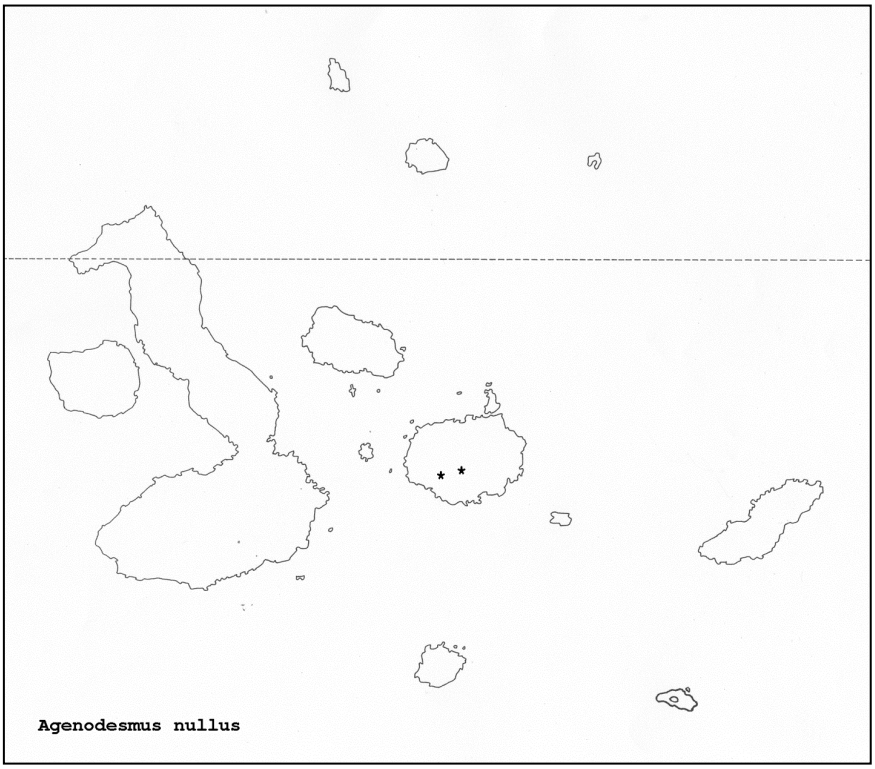
***Cyrtodesmus* Cook, 1896** spec.
Status : Unknown.
Galápagos distribution : Santa Cruz (4 Km E of Santa Rosa, 10/IV-4.V.1996, Leg. S.Peck).
Vegetation zone : Agricultural zone.
Altitudinal range : 350 m.
World distribution : South America (Costa Rica to Peru).
References : PECK & SHEAR (2000).
Remark : A revision of the genus is needed to come to a valuable identification of the species.

Family FURHMANNODESMIDAE

***Agenodesmus nullus* Shear & Peck, 1987**
Status : Introduced.
Galápagos distribution : Santa Cruz (2).
Vegetation zones : Transition zone and cave.
Altitudinal range : 180-500 m.
World distribution : Tropical America.
References : SHEAR & PECK (1987), PECK (1990), PECK & SHEAR (2000).

Table 16. Detailed distribution data of *Agenodesmus nullus* Shear & Peck, 1987.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG.	LIT.
SCZ	Caseta Tortuga pond	TZ	180	26.II.1985	Schatz *et al.*	S&P 87
SCZ	Cuevas de Vargas, 5 km NE of Bellavista	CU	500	30.V.1985	Peck *et al.*	S&P 87

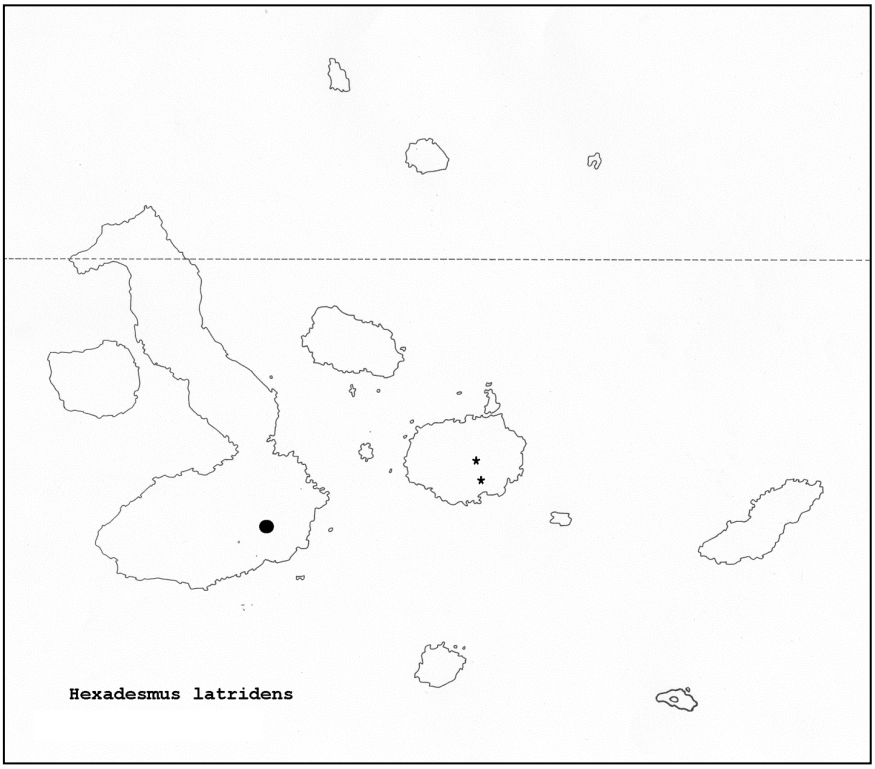


Map 16. Distribution of *Agenodesmus nullus* Shear & Peck, 1987 in the Galápagos archipelago.

***Hexadesmus latridens* Loomis, 1933**
Status : Introduced possibly parthenogenetic synanthropic species.
Galápagos distribution : Volcán Sierra Negra (1) and Santa Cruz (2) (islands inhabited by man).
Vegetation zones : Agricultural zone and fern-sedge zone.
Altitudinal range : 250-750 m.
World distribution : Tropical America.
References : SHEAR & PECK (1987), PECK (1990), PECK & SHEAR (2000).

Table 17. Detailed distribution data of *Hexadesmus latridens* Loomis, 1933.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
ISN	Between Santo Tómas & El Mango	CZ	250	15.I.1978	Reeder	
SCZ	2 km N of Bellavista	CZ	350	14.V.1985	Peck *et al.*	S&P 87
SCZ	Cerro Crocker trail (base of Cerro Crocker)	FS	750	1992	CDRS	



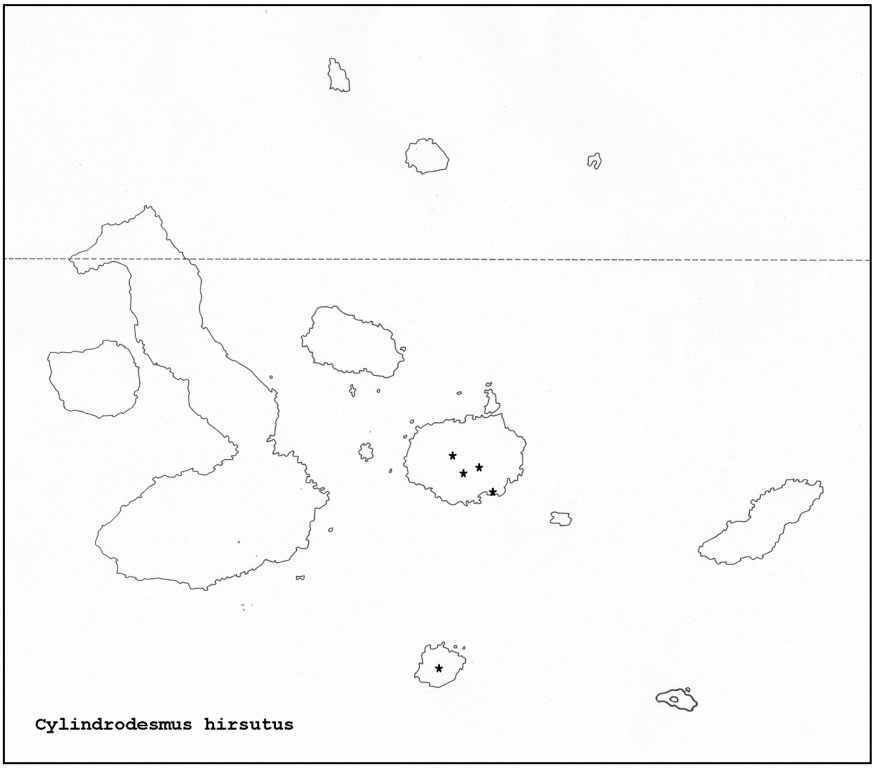
Map 17. Distribution of *Hexadesmus latridens* Loomis, 1933 in the Galápagos archipelago.

Family HAPLODESMIDAE

***Cylindrodesmus hirsutus* Pocock, 1889**
Status : Introduced synanthropic species.
Galápagos distribution : Floreana (1) and Santa Cruz (4) (islands inhabited by man).
Vegetation zones : Agricultural zone and in caves.
Altitudinal range : -10–500 m
World distribution : South America (Panama, Puerto Rico, Jamaica, Caribbean islands, Ecuador), Africa (Tanzania), the Seychelles, Java, Sulawesi, Luzon, New Caledonia, the Christmas and Loyalty islands.
References : SHEAR & PECK (1987), PECK (1990), PECK & SHEAR (2000).

Table 18. Detailed distribution data of *Cylindrodesmus hirsutus* Pocock, 1889.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG.	LIT.
FLO	Platanera en finca	CZ	350	13.V.1992	Abedrabbo	
SCZ	Grieta Iguana near Barranco, CDRS	CU	-10	25.V.1985	Peck *et al.*	S&P 87
SCZ	2 km N of Bellavista, Media Luna trail	CZ	360	14.V.1985	Peck *et al.*	S&P 87
SCZ	El Carmen	CZ	360	08.XII.2002	Baert *et al.*	
SCZ	Southern transect along road	CZ	500	17.XII.2002	Baert *et al.*	

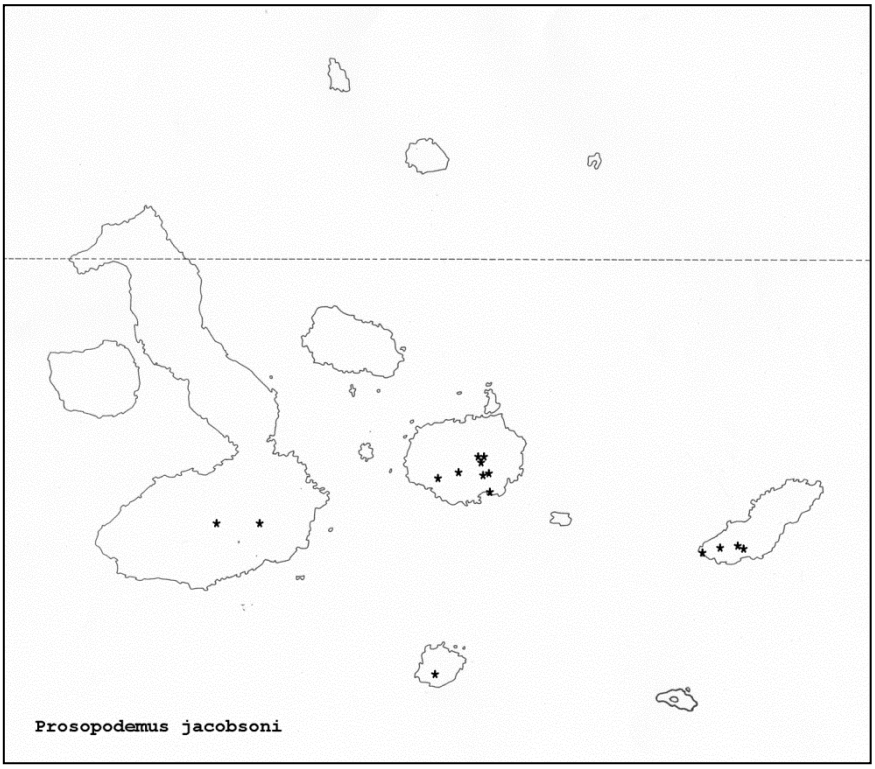


Map 18. Distribution of *Cylindrodesmus hirsutus* Pocock, 1889 in the Galápagos archipelago.

***Prosopodesmus jacobseni* Silvestri, 1910**
Status : Introduced.
Galápagos distribution : Floreana (1), Volcán Sierra Negra(4), San Cristóbal (8) and Santa Cruz (15). *Vegetation zones* : Was found within all vegetation zones from arid zone to summit fern-sedge zone except in the *Scalesia* zone. Also very frequent in caves. Normally only on inhabited islands.
Altitudinal range : -10–760 m.
World distribution : Java, India, Zanzibar, Brazil, Haiti, Puerto Rico, Panama and Florida.
References : SHEAR & PECK (1987), PECK (1990), PECK & SHEAR (2000).

Table 19. Detailed distribution data of *Prosopodesmus jacobseni* Silvestri, 1910.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
FLO	Wittmer well	CZ	350	21.II.1988	Baert *et al.*	
ISN	Sto Tómas	CZ	340	28.I.1977	Reeder	
ISN	Alemania	CZ	350	22.I.1977	Reeder	
ISN	Above Sto Tómas	CZ	480	19.I.1978	Reeder	
ISN	7 Km WNW of Sto Tómas	FS	640	08.VII.1985	Peck *et al.*	S&P 87
SCB	3 Km SE of Wreck Bay	AZ	2	16.III.1996	Peck *et al.*	P&S 00
SCB	Tres palos area	AZ	110	11.II.1978	Reeder	
SCB	1 Km E of El Progreso	CZ	370	19.II.1989	Peck *et al.*	
SCB	La Toma, *Miconia* & tree ferns	MIC	530	15.II.1989	Peck *et al.*	
SCB	1 Km W of El Junco, *Miconia*	MIC	540	17.III.1996	Peck *et al.*	P&S 00
SCB	El Junco, *Miconia* ravine	MIC	550	15.II.1989	Peck *et al.*	
SCB	El Junco base	FS	560	19.III.1996	Peck *et al.*	
SCB	El Junco rim	FS	640	14.III.1996	Peck *et al.*	P&S 00
SCZ	Grieta Iguana near Barranco, CDRS	CU	-10	18.II.1988	Baert *et al.*	
SCZ	Reserva de Tortugas El Chato	TZ	180	10.I.2001	CDRS	
SCZ	Horneman farm, Bellavista	CZ	200	03.IV.1975	Reeder	
SCZ	Horneman farm, Bellavista	CZ	200	15.X.1975	Reeder	
SCZ	Transition forest 1 Km E of Bellavista	TZ	210	03.VII.1985	Peck *et al.*	S&P 87
SCZ	Cueva de Bellavista n°2	CU	210	25.V.1985	Peck *et al.*	S&P 87
SCZ	Cueva de Bellavista n°2	CU	210	14.VII.1985	Peck *et al.*	S&P 87
SCZ	Horneman farm, Bellavista	CZ	250	1964	Leleup	
SCZ	Cuevas Finca Kastdalen	CU	300	25.VI.1985	Peck *et al.*	S&P 87
SCZ	Media Luna trail, Culture zone	CZ	350	13.III.1986	Baert *et al.*	S&P 87
SCZ	Media Luna, Miconia	MIC	590	06.II.1985	Schatz *et al.*	S&P 87
SCZ	Media Luna	SPH	600	21.V.1985	Peck *et al.*	S&P 87
SCZ	Picachos	FS	630	XII/1997	CDRS	
SCZ	Picachos	FS	670	25.VI.1992	Abedrabbo	
SCZ	Cerro Puntudo	FS	760	10.III.1985	Schatz *et al.*	S&P 87



Map 19. Distribution of *Prosopodesmus jacobseni* Silvestri, 1910 in the Galápagos archipelago.

Family PARADOXOSOMATIDAE

***Asiomorpha coarctata* (Saussure, 1860)**
Status : Introduced.
Galápagos distribution : Floreana (4), Volcán Sierra Negra (16), Volcán Alcedo (2), Santiago (4), San Cristóbal (15) and Santa Cruz (74).
Vegetation zones : Occurs in all vegetation zones from arid zone to summit fern-sedge zone except in the littoral zone.
Altitudinal range : 10-1100 m.
World distribution : From East Indian origin but widely spread by man throughout the world tropics.
References : KRAUS (1958), SHEAR & PECK (1987), PECK (1990), PECK & SHEAR (2000).

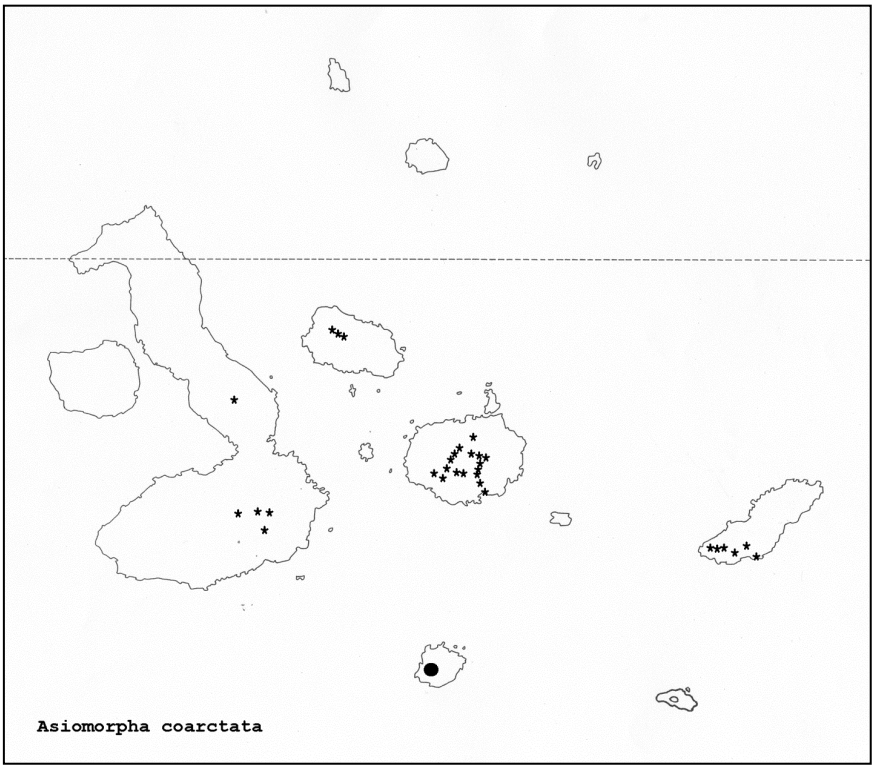
Table 20. Detailed distribution data of *Asiomorpha coarctata* (Saussure, 1860).

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
FLO	Cecilia Salgado F3	CZ		29.X.2003	CDRS	
FLO	Cecilia Salgado F3	CZ		24.XI.2002	CDRS	
FLO	Anibal San Miguel F1	CZ		29.XI.2002	CDRS	
FLO	Selva Castillo (F2)	CZ		30.XI.2002	CDRS	
FLO	Several fincas	CZ		27/XI-30.XI.2002	CDRS	
ISN	Cerro verde			26.XI.2003	CDRS	
ISN	Cerro Verde			07.V.2003	CDRS	
ISN	Cerro Verde			08.XII.2002	CDRS	
ISN	Cerro Grande			11.V.2003	CDRS	
ISN	Carretera	CZ		29.XI.1999	CDRS	
ISN	Los Tintos	CZ	400	03.XII.2002	CDRS	
ISN	Alfagia	CZ	400	04.XII.2002	CDRS	
ISN	Los Ceibos	CZ	400	04.XII.2002	CDRS	
ISN	Los Ceibos	CZ	400	08.XII.2002	CDRS	
ISN	Los Tintos	CZ	400	04.XII.2002	CDRS	
ISN	Merceditas	CZ	400	04.XII.2002	CDRS	
ISN	El Cura	CZ	400	01.XI.2003	CDRS	
ISN	El Cura	CZ	400	11.V.2003	CDRS	
ISN	Infiernillo	CZ	400	01.XI.2003	CDRS	
ISN	Los Ceibos	CZ	400	01.XI.2003	CDRS	
ISN	Los Tintos	CZ	400	01.XI.2003	CDRS	
ISN	Pretoria	CZ	400	01.XI.2003	CDRS	
ISN	Pretoria	CZ	400	11.V.2003	CDRS	
ISN	Los Ceibos	CZ	400	11.V.2003	CDRS	
ISN	Summit	FS	940	04.IV.2009	Baert *et al.*	
IVA	Volcán Alcedo			XII/1998	Roqué	
IVA	Pampa at crater top	FS	1100	X/1998	Roqué	
SAN	La Central	FS	670	31.III.2009	Baert *et al.*	
SAN	Los Jaboncillos	FS	830	30.III.2009	Baert *et al.*	
SAN	Los Jaboncillos, encañada	FS	840	30.III.2009	Baert *et al.*	
SAN	Top of island	FS	890	31.III.2009	Baert *et al.*	
SCB	Cerro Gato			15.IV.2003	CDRS	
SCB	Goteras			12.IV.2003	CDRS	

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
SCB	Naval	CZ		26.XI.2003	CDRS	
SCB	3 km S of Escuela Cabo (Tres Palos)	AZ		13.II.1978	Reeder	
SCB	Planta electrica	AZ	100	01.III.1992	Abedrabbo	
SCB	Tres Palos area	AZ	110	11.II.1978	Reeder	
SCB	0,3 km S of Escuela Cabo (Tres Palos)	AZ	160	13.II.1978	Reeder	
SCB	Trail from Tres Palos to Espinero	AZ	160	12.II.1978	Reeder	
SCB	Tres Palos area	AZ	190	11.II.1978	Reeder	
SCB	Tres Palos area	AZ	190	16.IV.2003	Reeder	
SCB	El Chino	CZ		16.IV.2003	CDRS	
SCB	El Chino	CZ		26.XI.2003	CDRS	
SCB	El Chino	CZ	195-265	14-16.X.2002	CDRS	
SCB	Cerro Gato		210-265	15.X.2002	CDRS	
SCB	Socavon	CZ		13.IV.2003	CDRS	
SCB	El Cementerio	CZ	225	01.III.1992	Abedrabbo	
SCB	Soledad	CZ	240	17.XI.2002	CDRS	
SCB	Soledad	CZ	240	27.XI.2003	CDRS	
SCB	Goteras		295-320	11.X.2002	CDRS	
SCB	El Progreso	CZ	350	27.XI.2003	CDRS	
SCB	El Progreso	CZ	350	15.IV.2003	CDRS	
SCB	El Junco	FS	589	17.X.2002	CDRS	
SCB	El Junco	FS	550	14.IV.2003	CDRS	
SCB	El Junco	FS	550	09.IV.2003	CDRS	
SCB	El Junco, crater rim	FS	600	23.III.2009	Baert *et al.*	
SCZ				01.VII.1957	SMF	K58, S&P 87
SCZ	NW of Academy bay			21.VII.1957	SMF	K58, S&P 87
SCZ	Along southern road			18.VII.1957	SMF	K58, S&P 87
SCZ	Puerto Ayora, Hotel Fernandina garden	AZ	10	28.IV.1992	Abedrabbo	
SCZ	Puerto Ayora, Hotel Fernandina garden	AZ	10	02.VI.1992	Abedrabbo	
SCZ	Puerto Ayora, Hotel Fernandina garden	AZ	10	07.VII.1992	Abedrabbo	
SCZ	Puerto Ayora, Hotel Fernandina garden	AZ	10	08.VIII.1992	Abedrabbo	
SCZ	Puerto Ayora, Hotel Fernandina garden	AZ	10	07.IX.1992	Abedrabbo	
SCZ	Puerto Ayora, Hotel Fernandina garden	AZ	10	07.X.1992	Abedrabbo	
SCZ	Puerto Ayora, Hotel Fernandina	AZ	10	19.XI.1991	CDRS	
SCZ	Transition zone	TZ	110	04.III.1992	Abedrabbo	
SCZ	Northern transect along road	AZ	150	03.IV.2000	Baert *et al.*	
SCZ	Reserva de Tortugas El Chato	TZ	180	21.XI.1991	Abedrabbo	
SCZ	Caseta Tortuga	TZ	180	19.II.1988	Baert *et al.*	
SCZ	Reserva de Tortugas El Chato	TZ	180	10.I.2001	CDRS	
SCZ	El Chato, pool	TZ	190	28.XI.2002	Baert *et al.*	
SCZ	Bellavista	CZ	200	29.VI.2000	CDRS	
SCZ	El Chato, transition forest	TZ	250	03.IV.2000	Baert *et al.*	
SCZ	El Chato, transition forest	TZ	250	08.XII.2002	Baert *et al.*	
SCZ	Media Luna trail, Guyava orchard	CZ	350	03.IV.2000	Baert *et al.*	
SCZ	Southern transect along road	CZ	350	15.II.1986	Baert *et al.*	S&P 87
SCZ	Southern transect along road	CZ	350	12.III.1986	Baert *et al.*	
SCZ	Southern transect along road, meadow	CZ	350	30.III.1996	Baert *et al.*	

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
SCZ	Southern transect along road, meadow	CZ	350	10.IV.1996	Baert *et al.*	
SCZ	Media Luna trail, Culture zone	CZ	350	31.III.1996	Baert *et al.*	
SCZ	Media Luna trail, Guyava orchard	CZ	350	10.IV.1996	Baert *et al.*	
SCZ	El Carmen	CZ	350	03.IV.2000	Baert *et al.*	
SCZ	2 km N of Bellavista	CZ	360	14.V.1985	Peck *et al.*	S&P 87
SCZ	Banana orchard between Bellavista -Media luna	CZ	360	05.IV.2011	Wauters	
SCZ	Santa Rosa, Finca Cirilo	CZ	400	06.III.1992	Abedrabbo	
SCZ	Santa Rosa	CZ	400	19.III.1993	CDRS	
SCZ	Santa Rosa	CZ	400	11.XI.1991	CDRS	
SCZ	Northern transect along road	TZ	400	03.IV.2000	Baert *et al.*	
SCZ	Media Luna trail	MIC	400	20.III.2009	Baert *et al.*	
SCZ	Northern transect along road, near Cerro Maternidad	CZ	500	03.IV.2000	Baert *et al.*	S&P 87
SCZ	Northern transect along road, near Cerro Maternidad	CZ	500	28.XI.2002	Baert *et al.*	
SCZ	Northern transect along road, near Cerro Maternidad	CZ	500	08.XII.2002	Baert *et al.*	
SCZ	Northern transect along road, near Cerro Maternidad	CZ	500	17.XII.2002	Baert *et al.*	
SCZ	Northern transect along road, near Cerro Maternidad	CZ	500	15.II.1986	Baert *et al.*	
SCZ	Northern transect along road, near Cerro Maternidad	CZ	500	30.III.1996	Baert et al.	
SCZ	Northern transect along road, near Cerro Maternidad	CZ	500	10.IV.1996	Baert *et al.*	
SCZ	N-transect along road, granillo rojo	TZ	500	17.XII.2002	Baert *et al.*	
SCZ	N-transect along road, granillo rojo	TZ	500	28.VI.2001	CDRS	
SCZ	N-transect along road, granillo rojo	TZ	500	02.VII.2001	CDRS	
SCZ	Media Luna trail, *Miconia*	MIC	500	03.IV.2000	Baert *et al.*	
SCZ	Media Luna trail, *Miconia*	MIC	500	31.III.1996	Baert *et al.*	
SCZ	Media Luna trail, *Miconia*	MIC	500	10.IV.1996	Baert *et al.*	
SCZ	Media Luna trail, *Miconia*	MIC	530	19.III.2009	Baert *et al.*	
SCZ	Media Luna trail, *Miconia*	MIC	530	12.IV.2009	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	04.III.1992	Abedrabbo	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	03.IV.2000	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	17.XII.2002	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	12.IV.2009	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	04.XI.1997	Roqué	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	I/1997	Roqué	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	17.XII.1997	Roqué	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	27.VIII.1997	Roqué	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	08.XII.2002	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	02.IV.1988	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	30.III.1996	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	10.IV.1996	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	17.I.2001	CDRS	
SCZ	Los Gemelos, pampa	FS	570	08.XII.2002	Baert *et al.*	
SCZ	Los Gemelos, pampa	FS	570	07.III.1988	Baert *et al.*	
SCZ	Los Gemelos, pampa	FS	570	30.III.1996	Baert *et al.*	
SCZ	Los Gemelos, pampa	FS	570	10.IV.1996	Baert *et al.*	

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
SCZ	Los Gemelos, pampa	FS	570	04.XII.1997	Roqué	
SCZ	Los Gemelos, pampa	FS	570	04.XI.1997	Roqué	
SCZ	Media Luna	SPH	600	03.IV.2000	Baert *et al.*	
SCZ	Media Luna	FS	610	12.IV.2009	Baert *et al.*	
SCZ	Media Luna	SPH	630	21.VI.1992	CDRS	
SCZ	El Mirador	FS	700	18.VI.1992	Abedrabbo	
SCZ	El Mirador	FS	700	03.IV.2000	Baert *et al.*	
SCZ	Near cerro Puntudo	FS	730	19.III.2009	Baert *et al.*	
SCZ	Cerro Crocker trail (base of Cerro Crocker)	FS	750		CDRS	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	12.IV.2009	Baert *et al.*	
SCZ	Cerro Crocker	FS	870	01-15.XII.2001	CDRS	
SCZ	Cerro Crocker, cumbre	FS	875	03.IV.2000	Baert *et al.*	
SCZ	Cerro Crocker, cumbre	FS	875	10.XII.2002	Baert *et al.*	
SCZ	Cerro Crocker, cumbre	FS	875	20.III.2009	Baert *et al.*	
SCZ	Cerro Crocker, cumbre	FS	875	12.IV.2009	Baert *et al.*	
SCZ	Cerro Crocker, cumbre	FS	875	09.I.2001	CDRS	
SCZ	Cerro Crocker, cumbre	FS	875	01.I.2001	CDRS	
SCZ	Cerro Crocker, cumbre	FS	875	08.XII.2001	CDRS	
SCZ	Cerro Crocker, cumbre	FS	875	09.XII.2001	CDRS	
SCZ	Cerro Crocker, cumbre	FS	875	11.XII.2001	CDRS	
SCZ	Cerro Crocker, cumbre	FS	875	13.XII.2001	CDRS	
SCZ	Cerro Crocker, cumbre	FS	875	15.III.1994	CDRS	



Map 20. Distribution of *Asiomorpha coarctata* (Saussure, 1860) in the Galápagos archipelago.

Family PYRGODESMIDAE

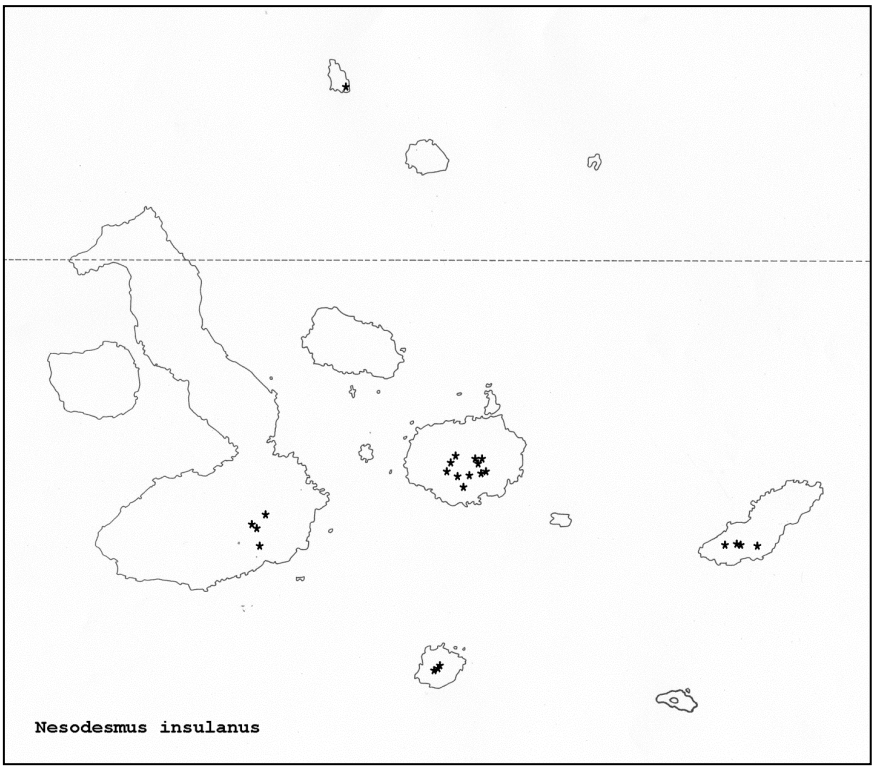
***Nesodesmus insulanus* Chamberlin, 1914**
Status : Endemic.
Galápagos distribution : Floreana (7), Volcán Sierra Negra (14), Pinta (1), San Cristóbal (10) and Santa Cruz (70) (normally only on inhabited islands).
Vegetation zones : Occurs in all vegetation zones between the Transition zone and the summit fern-sedge zone.
Altitudinal range : 170-875 m.
References : CHAMBERLIN (1914), KRAUS (1958), SHEAR & PECK (1987), PECK (1990), PECK & FINSTON (1993), PECK & SHEAR (2000).

Table 21. Detailed distribution data of *Nesodesmus insulanus* Chamberlin, 1914.

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
FLO	SE-slope Cerro Pajas (highest peak)	SCAL	320	18.II.1977	Reeder	
FLO	Cerro Pajas crater, Scalesia	SCAL	325	22.IV.1996	Peck *et al.*	P&S 00
FLO	Wittmer well	CZ	350	21.II.1988	Baert *et al.*	
FLO	Wittmer well	CZ	350	20.IV.1991	Baert *et al.*	
FLO	Platanera en finca	CZ	350	13.V.1992	Abedrabbo	
FLO	Highland	W	360	21.II.1988	Baert *et al.*	
FLO	3 km NW of Santo Tómas	CZ	380	11.III.1989	Peck *et al.*	
ISN	Transition forest at 17 km from coast	TZ	250	1964	Leleup	
ISN	1 km S of Cerro Verde	CZ	320	16.I.1978	Reeder	
ISN	Santo Tómas	CZ	340	28.I.1978	Reeder	
ISN	500 m S of Santo Tómas	CZ	350	07.VII.1985	Peck *et al.*	S&P 87
ISN	Cueva Sucre, 2 Km NE of Santo Tómas	CU	360	05.VII.1985	Peck *et al.*	S&P 87
ISN	Los Tintos	CZ	400	03.XII.2002	CDRS	
ISN	Los Ceibos	CZ	400	01.XI.2003	CDRS	
ISN	Los Mellizos	CZ	400	01.XI.2003	CDRS	
ISN	Los Tintos	CZ	400	01.XI.2003	CDRS	
ISN	Pretoria	CZ	400	01.XI.2003	CDRS	
ISN	La Esperanza	CZ	400	11.V.2003	CDRS	
ISN	above Sto Tomas	CZ	480	19.I.1978	Reeder	
ISN	Cerro Verde	CZ		01.XI.2003	CDRS	
ISN	Cerro verde	CZ		28.XI.2003	CDRS	
PIN	Arid zone	AZ		27.II.1974	Jacquemart	
SCB	El Progreso, Finca	CZ	300	01.III.1992	Abedrabbo	
SCB	El Progreso	CZ	300	27.XI.2003	CDRS	
SCB	1 km E of El Progreso	CZ	370	19.II.1989	Peck *et al.*	
SCB	Soledad	CZ		14.IV.2003	CDRS	
SCB	Soledad	CZ		27.XI.2003	CDRS	
SCB	Socavon	CZ		27.XI.2003	CDRS	
SCB	Naval	CZ		26.XI.2003	CDRS	
SCB	Culture zone	CZ		02.II.1974	Jacquemart	
SCB	La Toma, Miconia & tree ferns	MIC	530	15.II.1989	Peck *et al.*	
SCB	5 km E of El Progresso	CZ	590	13.II.1989	Peck *et al.*	

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
SCB	Cerro San Joaquin	FS	700	01.III.1992	Abedrabbo	
SCB	Summit of Cerro San Joaquin	FS	700	27.III.1996	Baert *et al.*	
SCB				21.V.1899		CH14
SCB	Goteras			12.IV.2003	CDRS	
SCZ				VII/1992	CDRS	
SCZ	Occidente	TZ	170	13.IV.2012	N. Wauters	
SCZ	Cueva de Bellavista n°2	CU	210	14.VII.1985	Peck *et al.*	S&P 87
SCZ	Southern transect along road	CZ	230	12.III.1986	Baert *et al.*	S&P 87
SCZ	Horneman farm, Bellavista	CZ	250	1964	Leleup	
SCZ	Santa Rosa	CZ	400	11.XI.1991	CDRS	
SCZ	Cuevas de Vargas, 5 km NE of Bellavista	CU	500	30.V.1985	Peck *et al.*	S&P 87
SCZ	Media Luna trail, Miconia	MIC	550	15.I.1974	Jacquemart	
SCZ	3 km N of Santa Rosa, *Scalesia* forest	SCAL	550	28.VI.1985	Peck *et al.*	S&P 87
SCZ	Los Gemelos, left *Scalesia* forest	SCAL	570	07.III.1988	Baert *et al.*	
SCZ	Los Gemelos, left *Scalesia* forest	SCAL	570	02.IV.1988	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	04.XI.1997	Roqué	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	17.XII.1997	Roqué	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	27.VIII.1997	Roqué	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	12.II.1988	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	07.III.1988	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	02.IV.1988	Baert *et al.*	
SCZ	Los Gemelos, *Scalesia* forest	SCAL	570	17.I.2001	CDRS	
SCZ		SCAL		11.I.1974	Jacquemart	
SCZ	Los Gemelos, pampa	FS	570	12.II.1988	Baert *et al.*	
SCZ	Los Gemelos, pampa	FS	570	02.IV.1988	Baert *et al.*	
SCZ	Cuevita Sur Oeste de Cerro Banderas	CU	600	23.VI.1985	Peck *et al.*	S&P 87
SCZ	Media Luna	MIC	600	06.II.1985	Schatz *et al.*	S&P 87
SCZ	Media Luna	MIC	620	17.V.1985	Peck *et al.*	S&P 87
SCZ	Cerro Banderas, 4 Km NE of Santa Rosa	MIC	620	23.VI.1985	Peck *et al.*	
SCZ	Cuevas de Cerro Banderas	CU	620	01.VI.1985	Peck *et al.*	S&P 87
SCZ	Media Luna	SPH	630	VI/1992	CDRS	
SCZ	El Mirador	FS	640	VI/1992	CDRS	
SCZ	Between Cerro Puntudo and Cerro Crocker	FS	750	31.III.1996	Baert *et al.*	
SCZ	Between Cerro Puntudo and Cerro Crocker	FS	750	10.IV.1996	Baert *et al.*	
SCZ	Cerro Crocker trail (base of Cerro Crocker)	FS	750	31.XII.1992	CDRS	
SCZ	Cerro Crocker trail (base of Cerro Crocker)	FS	750		CDRS	
SCZ	Northern slope		760	18.VII.1957	SMF	K58, S&P 87
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	12.VIII.1991	Abedrabbo	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	14.IV.1992	Abedrabbo	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	14.VI.1992	Abedrabbo	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	16.X.1992	Abedrabbo	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	15.X.1993	Abedrabbo	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	15.I.1994	Abedrabbo	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	15.VIII.1994	Abedrabbo	

ISL.	LOCALITY	VEG.	ALT.	DATE	LEG./COL.	LIT.
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	08.III.1988	Baert *et al.*	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	16.V.1991	Baert *et al.*	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	29.V.1991	Baert *et al.*	
SCZ	Cerro Crocker, *Sphagnum* bog	SPH	825	31.III.1996	Baert *et al.*	
SCZ	Cerro Crocker	FS	860	10.XII.2002	CDRS	
SCZ	Cerro Crocker	FS	860	13.XII.2002	CDRS	
SCZ	Cerro Crocker	FS	870	13.XII.2002	CDRS	
SCZ	Cerro Crocker	FS	875	13.XII.2002	CDRS	
SCZ	Cerro Crocker, cumbre	FS	870	11.XII.2001	CDRS	
SCZ	Cerro Crocker, cumbre	FS	875	13.I.1974	Jacquemart	
SCZ	Cerro Crocker, cumbre	FS	875	14.I.1992	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	14.II.1992	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	20.III.1992	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	20.V.1992	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	14.VI.1992	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	16.VII.1992	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	14.VIII.1992	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.IX.1992	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.XII.1992	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.I.1993	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.VIII.1993	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.IX.1993	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.XII.1993	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.I.1994	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.II.1994	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.III.1994	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.VI.1994	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.VII.1994	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	16.X.1994	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.XI.1994	Abedrabbo	
SCZ	Cerro Crocker, cumbre	FS	875	15.II.1988	Baert *et al.*	
SCZ	Cerro Crocker, cumbre	FS	875	08.III.1988	Baert *et al.*	
SCZ	Cerro Crocker, cumbre	FS	875	02.IV.1988	Baert *et al.*	
SCZ	Cerro Crocker, cumbre	FS	875	26.IV.1991	Baert *et al.*	
SCZ	Cerro Crocker, cumbre	FS	875	10.IV.1996	Baert *et al.*	



Map 21. Distribution of *Nesodesmus insulanus* Chamberlin, 1914 in the Galápagos archipelago.

Discussion

The scope of this paper is not to tackle the many taxonomic problems evocated by SHEAR & PECK (1987, 1992) in their two papers dealing with the representatives of the Myriapoda Classes (Chilopoda, Diplopoda and Symphyla) of the Galápagos Islands, but to give an actual overview of their distribution within the archipelago.

There are probably six chilopod and one diplopod species endemic to the archipelago : the chilopods *Cryptops beebei*, *Nannopodellus purpurescens*, *Pachymerium pereirai*, *Pectiniunguis albemarlensis*, *Pectiniunguis kraussi*, *Schendylops nealotus* and the diplopod *Nesodesmus insulanus*.

As SHEAR & PECK (1992) stated, no unequivocal case can be made for endemism of any of the centipeds from the Galápagos islands, this is almost entirely due to the actual undeveloped state of the chilopod systematics and lack of knowledge of the distribution of the group in south and Central America. We therefore rather talk about "probably endemic" instead of endemic to the archipelago.

SHEAR & PECK (1992) drew the attention upon the different collecting methods used by the various collecting teams having their reflection in the sampled species and they rightly concluded that biogeographic conclusions should not be made based on the results of only one individual person or team. The data here presented is the result of many casual and directed samplings made by various collecting teams using different sampling methods. All islands have by now been sampled several times.

The islands with human settlements have by far the highest number of myriapods (see Table 22). All 21 species occur on Isla Santa Cruz, 14 species on the inhabited Isabela volcán Volcán Sierra Negra, 13 species on the south-easternmost Isla San Cristóbal and 10 on the southern island Floreana. Most diplopod species are confined to the islands with human settlements, while most chilopods have a wider distribution (see Table 22). The symphylan *Hanseniella caldaria* and the chilopod species *Lamyctes coeculus*, *Pachymerium pereirai* and *Nannopodellus purpurescens* have also only been found on the islands with human settlements.

The native chilopod species *Scolopendra galapagoensis* has by far the widest distribution on the archipelago as it is found on almost all islands, even the most northerly remote island Wolf.

In 1992 SHEAR & PECK noticed that the only species found in the littoral zone was the chilopod *Pectiniunguis kraussi* and they wondered if the chilopods *Pectiniunguis albemarlensis* and *Pachymerium pereirai* also does. The answer is yes and so does two other chilopod species, *Cryptops beebei* and *Nannopodellus purpurescens*, and also the diplopod species *Nesodesmus insulanus*. In fact, nearly all myriapod species have a wide altitudinal dispersion and can be found in nearly all differentiated vegetation zones (see Table 23). Two diplopod species are, so far it seems, confined to one vegetation zone. *Agadesmus nullus* is only reported from the Transition zone, while *Cylindrodesmus hirsutus* only from the Cultivated zone. Some species (see Table 23) have been found in caves but none are true cave species.

We hope this paper will stimulate researchers to continue collecting myriapods and other invertebrates on Galápagos to enlarge our knowledge of these groups of this archipelago.

Table 22. Distribution of the myriapod species within the archipelago (islands marked in red are inhabited islands).

	BAL	DAR	ESP	FER	FLO	GAE	GEN	ICA	ISN	IVA	IVD	IVW	MAR	PIN	PIZ	RAB	SAN	SCB	SCZ	SFE	WOL
SYMPHYLA																					
HANSENIELLA CALDARIA									X									X	X		
SUBTOTAL									1									1	1		
CHILOPODA																					
CRYPTOPS BEEBEI							X		X	X	X			X	X	X	X	X	X		
LAMYCTES COECULUS									X									X	X		
LAMYCTES EMARGINATUS				X	X					X		X		X			X	X	X		
NANNOPODELLUS PURPURESCENS	X								X										X		
NEWPORTIA MONTICOLA									X					X	X			X	X		
ORPHNAEUS BREVILABIATUS			X	X	X			X	X	X	X	X		X	X	X	X		X		
PACHYMERIUM PEREIRAI					X				X									X	X		
PECTINUINGUIS ALBEMARLENSIS		X	X	X	X		X	X	X	X	X			X	X		X	X	X	X	
PECTINUINGUIS KRAUSSI				X			X				X						X	X	X		
SCHENDYLOPS NEALOTUS			X					X											X		
SCOLOPENDRA GALAPAGOENSIS		X	X	X	X		X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
SUBTOTAL	1	2	4	5	5		4	4	8	5	5	3	1	6	5	3	6	8	11		
DIPLOPODA																					
AGENODESMUS NULLUS																			X		
ASIOMORPHA COARCTATA					X				X	X							X	X	X		
CYLINDRODESMUS HIRSUTUS					X														X		
HEXADESMUS LATRIDENS									X										X		
LOPHOTUTUS DRIFTI					X	X										X		X	X		
NANNOSTREPTUS GEAYI									X										X		
NESODESMUS INSULANUS					X				X					X				X	X		
PROSOPODESMUS JACOBSENI					X				X									X	X		
RHINOTUS PURPUREUS																			X		
SUBTOTAL					5	1			5	1				1		1	1	4	9		
TOTAL	1	2	4	5	10	1	4	4	14	6	5	3	1	7	5	4	7	13	21	2	1

Table 23. Distribution of the myriapod species over the differentiated vegetation zones.

	LZ	AZ	TZ	CZ	MIC	SCAL	FS	SPH	SAZ	W	CU	TOT
SYPMHYLA												
HANSENIELLA CALDARIA		X	X	X	X	X	X				X	
TOTAL		1	1	1	1	1	1				1	**7**
CHILOPODA												
CRYPTOPS BEEBEI	X	X	X	X	X	X	X			X		**8**
LAMYCTES COECULUS		X	X	X	X	X	X	X			X	**8**
LAMYCTES EMARGINATUS	X		X			X	X			X		**5**
NANNOPODELLUS PURPURESCENS		X	X							X		**3**
NEWPORTIA MONTICOLA		X	X	X	X		X			X		**6**
ORPHNAEUS BREVILABIATUS	X	X		X	X	X	X	X	X	X		**9**
PACHYMERIUM PEREIRAI			X	X	X	X	X	X				**6**
PECTINUINGUIS ALBEMARLENSIS	X	X	X	X		X	X			X		**7**
PECTINUINGUIS KRAUSSI	X	X					X		X			**4**
SCHENDYLOPS NEALOTUS		X	X			X	X					**4**
SCOLOPENDRA GALAPAGOENSIS	X	X	X			X	X		X	X		**7**
TOTAL	6	9	9	9	5	8	10	3	3	7	1	
DIPLOPODA												
AGENODESMUS NULLUS			X								X	**2**
ASIOMORPHA COARCTATA		X	X	X	X	X	X	X				**7**
CYLINDRODESMUS HIRSUTUS				X							X	**2**
HEXADESMUS LATRIDENS				X			X					**2**
LOPHOTURUS DRIFTI	X	X	X	X		X					X	**6**
NANNOSTREPTUS GEAYI		X	X	X								**3**
NESODESMUS INSULANUS		X	X	X	X	X	X	X		X	X	**9**
PROSOPODESMUS JACOBSENI		X	X	X	X		X	X			X	**7**
RHINOTUS PURPUREUS				X	X							**2**
TOTAL	**1**	**5**	**6**	**8**	**4**	**3**	**4**	**3**		**3**	**5**	

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References

BOLLMAN C.H., 1889. - Myriapoda. *Proceedings of the United States national Museum*, 12 : 211-216.

CHAMBERLIN R.V., 1912. - The Henicopidae of North America north of Mexico. *Bulletin of the Museum of Comparative Zoology*, 57 : 1-36.

CHAMBERLIN R.V., 1913. - Notes on Chilopoda from the Galápagos Islands. *Entomological News*, 24 : 121-123.

CHAMBERLIN R.V., 1914. - A new diplopod from the Galápagos Islands with notes on the chilopods. *Psyche*, 21 : 85-89.

CHAMBERLIN R.V., 1924. - Chilopods of the Williams Galápagos Expedition. *Zoologica*, 5 : 137-141.

CHAMBERLIN R.V., 1950. - Neotropical chilopods and diplopods in the collections of the Department of Tropical Research, New York Zoological Society. *Zoologica*, 35 : 133-144.

CHAMBERLIN R.V., 1955. - The Chilopoda of the Lund University and California Academy of Sciences Expeditions. *Lunds Universitets Arsskrift (N.s.), Avd.* 2, 51 : 3-61.

JACKSON M.H., 1985. - *Galápagos, a natural history guide*. University of Calgary Press, Calgary, Alberta, Canada : 283pp.

KRAUS O., 1958. - Myriapoden von den Galapagos-Inseln. *Senckenbergiana Biologica*, 39 : 97-102.

HANSEN H.J., 1903. - The genera and species of the order Symphyla. *Quaterly Journal of Microscopical Science*, 47 : 1-101.

HERRERA H.W., 2012. - CDF Checklist of Galápagos Centipedes - FCD Lista de especies de Ciempiés de Galápagos. *In* : BUNGARTZ F., HERRERA H., JARAMILLO P., TIRADO N., JIMÉNEZ-UZCÁTEGUI G., RUIZ D., GUÉZOU A. & ZIEMMECK F. (eds.). Charles Darwin Foundation Galápagos Species Checklist - Lista de Especies de Galápagos de la Fundación Charles Darwin. Charles Darwin Foundation / Fundación Charles Darwin, Puerto Ayora, Galápagos (Last updated 02 Aug 2012) : http://checklists.datazone.darwinfoundation.org/terrestrial-invertebrates/chilopoda/

MEINERT F., 1868. - Danmarks Scolopender og lithobier. *Naturhistorisk Tidsskrift*, 5 : 241-272.

MINELLI A., BONATO L., DIOGUARDI R. *et al.*, 2006. - Chilobase : a web resource for Chilopoda taxonomy. Available online at http://chilobase.bio.unipd.it/.

PECK S.B., 1990. - Eyeless arthropods of the Galapagos Islands, Ecuador : composition and origin of the Cryptozoic fauna of a young, tropical, oceanic archipelago. *Biotropica*, 22(4) : 366-381.

PECK S.B., 2001. - *Smaller Orders of insects of the Galápagos Islands, Ecuador : Evolution, Ecology and Diversity*. NRC research Press, Ottawa, Canada : 278 pp.

PECK S.B. & FINSTON T.L., 1993. - Galápagos Islands troglobites : The questions of tropical troglobites, parapatric distributions with eyed-sister-species, and their origin by parapatric speciation. *Mémoires de Biospéologie*, Tome XX : 19-37.

PECK S.B. & SHEAR W.A., 2000. - New records of Myriapoda (Centipeds and millipeds) from the Galápagos Islands. *Noticias de Galápagos*, 61 : 14-16.

SHEAR W.A. & PECK S.B., 1987. - Millipeds (Diplopoda) of the Galápagos Islands, Ecuador. *Canadian Journal of Zoology*, 65 : 2640-2645.

SHEAR W.A. & PECK S.B., 1992. - Centipeds (Chilopoda) and Symphyla of the Galápagos Islands, Ecuador. *Canadian Journal of Zoology*, 70 : 2260-2274.

SHELLEY R.M. & KISER S.B., 2000. - Neotype designation and a diagnostic account for the centipede, *Scolopendra gigantea* L., 1758, with an account of *S. galapagoensis* Bollman 1889 (Chilopoda Scolopendromorpha Scolopendridae). *Tropical Zoology*, 13 : 159-170.