

ORIBATID MITES (ACARI: ORIBATIDA) IN SELECTED HABITATS OF TENERIFE ISLAND (CANARY ISLANDS, SPAIN)

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Abstract: During faunistic acarological sampling on Tenerife (Canary Islands), 128 samples were collected from different habitats. A total of 134 mite species representing 63 families of the order Oribatida were reported. The largest number of species were members of the families Oribatulidae (11 species), Galumnidae (8), and Carabodidae and Phthyracaridae (6). The most frequent species in the collected material were *Zygoribatula frisiae* (68%), *Chamobates pusillus* (34%), *Tectocepheus sarekensis* (31%) and *Aleurodamaeus setosus* and *Steganacarus hirsutus canariensis* (23%); the other species (less than 20%) are considered unfrequent.

Key words: Acari, Oribatida, biodiversity, inventory, Tenerife (Canary Islands)

Ácaros oribátidos (Acari: Oribatida) en hábitats seleccionados de Tenerife (Islas Canarias, España)

Resumen: Como resultado del estudio de 128 muestras recogidas en diferentes hábitats de la isla de Tenerife (Islas Canarias), se obtuvieron 134 especies (x ejemplares) pertenecientes a 63 familias del orden Oribatida. El mayor número de especies pertenece a la familia Oribatulidae (11 especies), Galumnidae (8), and Carabodidae and Phthyracaridae (6). Las especies más frecuentes (encontradas en el mayor número de muestras) son *Zygoribatula frisiae* (68%), *Chamobates pusillus* (34%), *Tectocepheus sarekensis* (31%) y *Aleurodamaeus setosus* y *Steganacarus hirsutus canariensis* (23%); el resto de las especies (encontradas en menos del 20% de las muestras) son consideradas como poco frecuentes.

Palabras clave: Acari, Oribatida, biodiversidad, inventario, Tenerife (Islas Canarias)

Introduction

Biodiversity surveys conducted on the Canary Islands, archipelago composed of seven islands of volcanic origin, have demonstrate the existence of a high level of endemic arthropod fauna and flora (Oromí *et al.*, 2001; Machado, 2002). The oribatid fauna in some of the Canary Islands and in the Macaronesian Region is relatively well-known (Arillo & Subías, 1990; Arillo *et al.*, 1994; Domingo-Quero *et al.*, 2003; Gil-Martín *et al.*, 1992; Pérez-Iñigo, 1972, 1976, 1986, 1987, 1992, 1995; Pérez-Iñigo & Pérez-Iñigo Jr., 1996; Pérez-Iñigo & Peña, 1994, 1995, 1996, 1997; Subías, 1978; Subías & Arillo, 1991; Subías *et al.*, 1994) but additional surveys conducted in natural ecosystems in some other islands of the Macaronesian Region will contribute to the knowledge of the taxonomy of oribatid mites in this special geographical location.

Tenerife Island, 307 kilómetros off the west coast of Africa (28° north latitude). Tenerife has an area of 2.034 square kilometers and a maximum altitude of 3.717 meters; the island has a mild climat and an annual rainfall of 420mm.

In the central region of the island, The Parque Nacional de El Teide (latitude 28°09'00''–28°20'00'' North, longitude 16°29'00''–16°44'00'' West), is the best sample of a level of supra-mediterranean vegetation.

The oribatid mites from Tenerife were previously studied by Pérez-Iñigo (1972, 1976, 1978), who reported 88 species from this islands. Now, and after the surveys conducted from 1997 to 2002, new data about insular oribatid mites would be apported.

Material and methods

During field research in 1995, 1996 and 1997, 128 samples were collected from different habitats (see Appendix 1). Mites were extracted from the samples in Tullgren funnels and preserved in 90% alcohol. Next, mites of the order Oribatida were selected and mounted in moist preparations in lactophenol for identification and each species was counted and preserved. On the basis of the list of species recorded in the habitats, a preliminary analysis of habit preferences as well as constancy of occurrence and dominance was made. Taxa identified, as “sp.” will be studied in a future.

Results

The list of the recorded species in Tenerife is arranged in alphabetic order (Table I). The asterisk (*) indicates that the species and/or the family is firstly found in the island.

During filed research in December 1995, May 1996, as well as Jenuary, May and August 1997, 128 samples from different habitats were collected (see appendix 1). In this study, 134 species (63 families) of oribatid mites were recorded. The greatest number of species were members of the families Oribatulidae (11 species), Galumnidae (8), Carabodidae and Phthyracaridae (6).

The most frequent species in the collected material were *Zygoribatula frisiae* (68%), *Chamobates pusillus* (34%), *Tectocepheus sarekensis* (31%) and *Aleurodamaeus setosus* and *Steganacarus hirsutus canariensis* (23%); the other species (less than 20%) are considered unfrequent.

A pineforest made up of *Pinus canariensis*, is represented by 17 samples of soil and litter (T-7, T-32, T-34, T-65, T-66, T-67, T-68, T-71, T-72, T-75, T-78, T-83, T-84, T-85, T-88, T-124, T-125). In this habitat, 36 species of mites were found. The highest frequency was noted for *Ch. pusillus* (53%), *Z. frisiae* (47), *Sch. barbatulus* (35), *A. setosus*, *J. ornata* and *E. longiporosa* (29%); *T. sarekensis* (24%) and the others are classified unfrequent (frequency lower than 25%).

A laurisilava, a rain forest made up of species of Lauraceae, is represented by 12 samples (T-11, T-13, T-15, T-16, T-17, T-18, T-41, T-80, T-86, T-87, T-88) and 50 species. A large number of species are constant and *C. pusillus* (67%), *Z. frisiae* (67%), *S. hirsutus canariensis* (58%), *A. longiplumus* and *G. fusifera* (50 %) may distinguish this habitat.

Mosses and lichens, or a mix of both, was the source of the greatest number of samples (18 samples: T-12, T-14, T-16, T-39, T-45, T-47, T-49, T-50, T-52, T-60, T-69, T-74, T-78, T-87, T-106, T-110, T-117, T-126), four of them did not contain oribatid mites (T-12, T-52, T-69, T-126); 60 species were found in this habitat. On the basis of frequency of occurrence, three species may be noted: *Ch. pusillus* and *E. longiporosa* (47%) and *O. berleseii* (29%).

Eigth samples from pumice habitats (T-27, T-28, T-29, T-101, T-102, T-103, T-112, T-124) report 23 species; *Z. frisiae* in 100% of the samples, *A. setosus* and *J. ornata* (38%) and *L. adminensis* (25%) are the characteristic species.

Other habitat types represented were not analyzed with regard to oribatid community.

Considering the fact that previous studies in Tenerife reported a list of 88 species of oribatid mites (Pérez-Iñigo, 1972, 1976, 1978; Machado, 2002; Oromi *et al.*, 2001), this study is an important contribution to the knowledge of this group of mites, and 73 species are recorded for the first time in this island.

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Table I. List of recorded species of oribatid mites on Tenerife (F=frequency of occurrence)

FAMILY	SPECIES	F	Sample number in which the species was present
Achipetriidae	<i>Pseudachipteria agenjoi</i> Pérez-Iñigo, 1976	6	14, 39, 43, 54, 47, 57, 61
Aleurodamaeidae	<i>Aleurodamaeus setosus</i> (Berlese, 1883)	23	11, 13, 15, 17, 29, 30, 32, 34, 45, 55, 56, 63, 64, 72, 75, 92, 99, 107-109, 111, 112, 114, 118, 120, 121, 122, 123, 124
Ameridae	<i>Amerus troisi</i> (Berlese, 1883)	10	11, 13, 15, 17, 18, 19, 32, 40, 48, 54, 56, 63, 89
Amerobelbidae	<i>Amerobelba decedens</i> Berlese, 1908	16	11, 13, 15, 17, 19, 39, 40, 48, 49, 56, 58, 59, 62, 64, 68, 81, 85, 90, 104, 114
Aphelacaridae	<i>Aphelacarus acarinus</i> (Berlese, 1910)	1	111
Banksinomidae	* <i>Oribella canariensis</i> Pérez-Iñigo, 1986	1	10
*Belbidae	* <i>Metabelbella interlamellaris</i> Pérez-Iñigo, 1987	2	56, 59
Caleremaeidae	* <i>Caleremaeus monilipes</i> (Michael, 1882)	1	20
Camisiidae	* <i>Camisia horrida</i> (Hermann, 1804)	6	6, 31?, 34, 47, 63, 69, 79
	* <i>Camisia spinifer</i> (C. L. Koch, 1836)	5	43, 45, 46, 47, 61, 67
	* <i>Camisia</i> sp	6	39, 103-108, 123
	* <i>Heminothrus n. sp.</i>	1	11
Carabodidae	* <i>Carabodes labyrinthicus</i> (Michael, 1879)	3	45, 47, 49, 56
	* <i>Carabodes trigonosternum</i> Pérez-Iñigo, 1975	2	39, 104
	<i>Carabodes sp.1</i>	1	14
	<i>Carabodes sp.2</i>	6	2, 3, 6, 15, 20, 45, 47, 57
	<i>Odontocephalus elongatus</i> (Michael, 1879)	9	6, 8, 14, 15, 28, 39, 45, 46, 79, 87, 97
	<i>Odontocephalus sp.</i>	6	15, 20, 46, 47, 49, 53, 57, 87,
Cepheidae	<i>Conoppia palmicinta</i> (Michael, 1884)	3	14, 39, 45, 49
	<i>Ommatocephalus ocellatus</i> (Michael, 1882)	2	45, 47, 49
Ceratozetidae	* <i>Ceratozetes conjunctus</i> Mihelcic, 1956	11	27, 38, 40, 41, 42, 44, 48, 49, 59, 81, 84, 88, 97, 104
	* <i>Ceratozetes laticuspidatus</i> Menke, 1964	1	11
	* <i>Latilamellobates incisellus</i> (Kramer, 1897)	1	8
	<i>Trichoribates sp.</i>	4	6, 7, 80, 110, 117
Cosmochthoniidae	* <i>Cosmochthonius lanatus</i> (Michael, 1885)	5	3, 20, 23, 79, 114, 126
	* <i>Cosmochthonius canariensis sp.</i>	2	31, 92, 97
Ctenobelbidae	* <i>Ctenobelba sp.</i>	6	9, 11, 17, 53, 59, 62, 81
Cymbaeremaeidae	* <i>Scapheremaeus subcorniger</i> Pérez-Iñigo & Peña, 1996	6	7, 31, 34, 52, 60, 78, 79
Chamobatidae	<i>Chamobates pusillus</i> (Berlese, 1895)	34	2, 3, 8, 10, 11, 16-19, 25, 26, 39, 42-47, 53, 57, 59, 61, 65, 67, 68, 70, 74, 75, 78-80, 83, 85-89, 107, 109, 119, 125, 126
	* <i>Chamobates perez-iñigo</i> Subías, 1977	1	83
Damaeidae	<i>Damaeus recasensi</i> Capilla, 1971	4	39, 40, 57, 64, 75
	* <i>Mirobelba grancanariae</i> Pérez-Iñigo & Peña, 1994	2	13, 15
	<i>Subbelba elisae</i> Pérez-Iñigo, 1972	2	15, 55, 56
Dampfiellidae	<i>Dampfiella ambigua</i> Pérez-Iñigo, 1975	1	13
Epilohmanniidae	<i>Epilohmannia cylindrica cylindrica</i> (Berlese, 1904)	2	59, 81
Euphthiracaridae	<i>Euphthiracarus mixtus</i> Mahunka, 1979	2	40, 46
	<i>Microtritia minima</i> (Berlese, 1904)	5	11, 46, 55, 56, 59, 86
	<i>Rhysotritia ardua</i> (C. L. Koch, 1841)	5	13, 27, 54, 56, 57, 104
Galumnatidae	<i>Acrogalumna longipluma</i> (Berlese, 1904)	15	13, 14, 15, 16, 17, 40, 41, 42, 46, 48, 49, 50, 56, 57, 58, 59, 67, 81, 82
	<i>Galumna alata</i> (Hermann, 1804)	9	6, 7, 39, 43, 45, 58, 62, 70, 87-89, 94
	* <i>Galumna dimorpha</i> Krivolutskaja, 1952	2	11, 94
	<i>Galumna tarsipennata</i> Oudemans, 1813	8	8, 13-16, 41, 64, 81, 99, 120
	* <i>Galumna elimata</i> (C. L. Koch, 1841)	6	8, 10, 14, 20, 45, 47, 62
	<i>Pilogalumna allifera longiareta</i> Pérez-Iñigo, 1975	2	48, 49
	<i>Pilogalumna alliferum</i> (Oudemans, 1819)	4	17, 24, 27, 30
	* <i>Pilogalumna ornatula</i> Grandjean, 1956	2	39, 63
Gustaviidae	<i>Gustavia fusifera</i> (C. L. Koch, 1841)	13	11, 13, 15, 17, 18, 41, 44, 46, 48, 53, 56-59, 61, 62
Gymnodamaeidae	* <i>Jacotella ornata</i> (Pérez-Iñigo, 1972)	17	20, 25, 27, 61, 72, 73, 75, 76, 79, 80, 82, 84, 88, 99, 100, 107, 109, 122-114, 116, 120
	* <i>Jacotella sp.</i>	1	94
Haplozetidae	<i>Canaribates chamobatooides</i> Pérez-Iñigo & Peña, 1994	1	56
	* <i>Lauritzenia depilis</i> Pérez-Iñigo & Peña, 1996	2	1, 2, 63
	* <i>Lauritzenia pallida</i> (Mihelcic, 1956)		
	* <i>Pelorbates glaber</i> Mihelcic, 1956	2	2
Hermanniellidae	<i>Hermanniella laurisilvae</i> Pérez-Iñigo, 1972	6	11, 13-15, 49, 56, 59
Humerobatidae	* <i>Humerobates pomboi</i> Pérez-Iñigo, 1992	9	6, 8, 10, 12, 16, 33, 34, 47, 53, 58, 62
Hypochthoniidae	* <i>Hypochthoniella minutissima</i> (Berlese, 1904)	8	11, 13, 15, 40, 42, 44, 46, 55, 56
	* <i>Hypochthonius luteus</i> Oudemans, 1917	13	11.13.15.17.39.40.46.53.54.56.59.63.67.81

FAMILY	SPECIES	F	Sample number in which the species was present
Liacaridae	<i>Dorycranosus splendens canariensis</i> (Coggi, 1898)	1	1, 81
	<i>Dorycranosus punctulatus</i> (Mihelcic, 1956)	1	59
	* <i>Liacarus brevilamellatus</i> Mihelcic, 1955	1	121
	<i>Liacarus mucronatus</i> Willmann, 1939	7	42, 46, 49, 53, 57-59, 63, 89
Licnobeidae	* <i>Licnobeiba latiflabellata</i> (Paoli, 1908)	1	82
Licnodamaeidae	* <i>Licnodamaeus undulatus</i> (Paoli, 1908)	2	87, 88, 97
*Liodidae	* <i>Platyliodes</i> sp.	2	120, 121
Lohmanniidae	* <i>Lohmannia</i> n. sp.	2	27, 81
	<i>Papillacarus ondriasi</i> Mahunka, 1974	1	81
Mesoplophoridae	<i>Mesoplophora pectinata</i> Mahunka, 1979	2	11, 13, 15
Metrioppiidae	* <i>Ceratoppia bipilis</i> (Hermann, 1804)	6	25, 30, 75, 78, 94, 105, 106, 124
*Microzetidae	* <i>Microzetes</i> sp.	1	40
Mycobatiidae	<i>Minunthozetes selgae</i> Perez-Iñigo, 1976	6	14, 16, 19, 39, 41, 49, 50, 57
Nanhermanniidae	<i>Nanhermannia nanus</i> (Nicolet, 1855)	2	13, 46, 56
Nothridae	* <i>Nothrus biciliatus</i> Koch, 1841	11	47-49, 53, 57-59, 61-64, 67, 85, 89
	<i>Nothrus pulchellus</i> (Berlese, 1910)	4	10, 25, 27, 30, 41
	* <i>Nothrus</i> sp.	2	81, 82
Oppiidae	Unidentifid Oppiids	23	40, 42, 46, 48-50, 53-57, 59-65, 67, 72, 74, 79-81, 84-89, 95
	<i>Lasiobelba izquierdoae</i> Arillo, Gil-Martin & Subias, 1994	1	2
	<i>Lauroppia fallax</i> (Paoli, 1908)	6	1, 10, 13, 15, 17, 19, 27, 69
	<i>Oppiella nova</i> (Oudemans, 1902)	8	9, 10, 100, 107, 117, 112-114, 117, 119
	* <i>Pyroppia</i> n. sp.	2	14, 69
	<i>Ramusella elliptica</i> (Berlese, 1908)	1	24
	<i>Ramusella assimillis</i> (Mihelcic, 1956)	2	38, 119
Oribatellidae	* <i>Oribatella berlesei</i> (Michael, 1898)	9	13, 14, 24, 27, 39, 45, 47, 87, 97, 128
	* <i>Oribatella berninii</i> Pérez-Iñigo, 1989	3	55.56.63.82
Oribatulidae	* <i>Dometorina plantivaga</i> (Berlese, 1895)	1	11
	* <i>Eporibatula longiporosa</i> Pérez-Iñigo, 1975	16	6, 7, 16, 43, 45, 47, 49, 50, 57, 60, 66, 72, 73, 78, 79, 83, 87, 94, 97, 126
	* <i>Hemileius elongatus</i> Pérez-Iñigo, 1978	6	30, 47, 51, 58, 61, 62, 82, 92
	* <i>Hemileius initialis</i> (Berlese, 1908)	1	87
	<i>Lucoppia burrowsi</i> (Michael, 1890)	2	99, 117, 119
	<i>Oribatula tibialis</i> (Nicolet, 1855)	1	7
	* <i>Zygoribatula exilis</i> (Nicolet, 1855)	2	3, 7, 122
	* <i>Zygoribatula frisiae</i> (Oudemans, 1900)	68	1-4, 5, 8, 9, 11, 13, 15, 16, 18-21, 24, 27, 28-31, 34, 36-39, 41-46, 49, 51, 53-58, 61-64, 67, 70, 72-77, 79, 80, 82-86, 89, 91, 92, 95, 97, 99-103, 107, 109, 111-114, 116, 118-121, 122-124
	* <i>Zygoribatula lenticulata</i> Minguéz & Subias, 1986	2	29, 36
	* <i>Zygoribatula propinqua</i> (Oudemans, 1902)	1	10
<i>Zygoribatula undulata</i> (Berlese, 1916)	13	51, 54-56, 58, 68, 75, 83, 97, 114	
Oribotritidae	* <i>Indotritia herenessica</i> Pérez-Iñigo, 1986	2	45, 47, 63
Passalozetidae	* <i>Bipassalozetes</i> sp.	6	20, 22, 23, 31, 76, 77, 91
	* <i>Bipassalozetes striatus</i> (Mihelcic, 1955)	11	3, 77, 92, 93, 99, 100, 107, 109, 114-116, 119, 123, 126
	* <i>Passalozetes imperfectus</i> Pérez-Iñigo jr., 1991	5	22, 24, 25, 27, 97, 114
	* <i>Passalozetes stellifer</i> Pérez-Iñigo & Peña, 1997	1	51
Phenopelopidae	* <i>Eupelops acromios</i> (Hermann, 1804)	2	39, 127
	* <i>Eupelops gibbus</i> (Mihelcic, 1957)	6	43-45, 50, 57, 61, 63
	* <i>Eupelops hirtus</i> (Berlese, 1916)	6	7, 30, 34
	<i>Eupelops plicatus</i> (C. L. Koch, 1835)	2	120, 121
Pheroliodidae	* <i>Licnoliodes adminensis</i> Grandjean, 1933	8	20, 75, 76, 79, 82, 91, 103, 111, 112, 120
Phthiracaridae	* <i>Hoplophthiracarus</i> sp.	3	20, 30, 63, 64
	* <i>Phthiracarus clavatus</i> Parry, 1979	2	50, 118, 120
	* <i>Phthiracarus ferrugineus</i> (C. L. Koch, 1841)	6	10, 13-15, 40, 46, 56, 58
	<i>Phthiracarus nitens</i> (Nicolet, 1855)	1	39
	* <i>Phthiracarus piger</i> (Scopoli, 1763)	4	57, 59, 76, 84, 97
	<i>Phthiracarus</i> sp.	9	13, 14, 17, 40, 41, 44-46, 48, 49, 56, 59
Protoribatidae	* <i>Protoribates capucinus</i> Berlese, 1908	9	10, 11, 13, 40, 41, 45, 46, 55, 56, 63, 81
Scutoverticidae	* <i>Scutovertex granulatus</i> (Mihelcic, 1957)	9	6, 27, 30, 47, 51, 54, 65, 68, 78, 79, 91, 96
	<i>Scutovertex sculptus</i> Michael, 1879	6	22, 36, 99, 122-125
	* <i>Scutovertex</i> sp.	1	29
Scheloribatidae	* <i>Schelorbates barbatulus</i> Mihelcic, 1956	20	8-11, 17, 25, 26, 41-44, 46-48, 65-68, 77, 80, 82-84, 89, 97
	<i>Schelorbates laevigatus</i> (C. L. Koch, 1836)	2	39, 59, 62
	* <i>Schelorbates minifimbriatus</i> Minguéz, Subias & Ruiz, 1986	5	1, 54-57, 59, 61

FAMILY	SPECIES	F	Sample number in which the species was present
	* <i>Schelorbates pallidulus</i> (C. L. Koch, 1841)	6	1, 27, 30, 34, 59, 61, 62, 125
Sphaerochthoniidae	* <i>Sphaerochthonius splendidus</i> (Berlese, 1904)	15	2, 5, 9, 17, 24-27, 30, 31, 38, 59, 61, 62, 81, 82, 89, 94
Steganacaridae	* <i>Calyptophthiracarus</i> n. sp.	2	4, 51
	* <i>Steganacarus hirsutus canariensis</i> Pérez-Iñigo, 1974	23	7, 11, 13-15, 17, 18, 25, 26, 40-46, 48-50, 53, 56-58, 61, 62, 65, 67, 82, 89
	* <i>Steganacarus</i> sp.	1	39
Suctobelbidae	<i>Rhynchobelba machadoi</i> Pérez-Iñigo, 1975	2	46, 56, 61
Tectocephidae	* <i>Tectocephus minor</i> (Berlese, 1903)	5	11, 30, 41, 111, 114, 115
	<i>Tectocephus sarekensis</i> Trägårdh, 1910	31	10, 18, 24-27, 33, 39, 42-44, 46-50, 53-56, 59, 61-63, 67, 70, 79-87, 89, 95, 96, 114, 115
Trhypochthoniidae	<i>Trhypochthonius tectorum</i> (Berlese, 1896)	5	48-50, 53, 57, 61
Xenillidae	<i>Xenillus discrepans canariensis</i> Pérez-Iñigo, 1975	1	49
	<i>Xenillus erbanesis</i> Pérez-Iñigo & Peña, 1996	2	118, 120
	<i>Xenillus tegeocranus</i> (Hermann, 1804)	6	20, 30, 38, 42, 56, 57, 75, 80
	* <i>Xenillus</i> n. sp. 1	2	46, 50
	* <i>Xenillus</i> n. sp. 2	18	6-8, 13, 15, 17, 18, 39, 40, 44-46, 48, 49, 55-59, 61, 62, 89
Zetomotrichidae	* <i>Ghilarovus</i> sp.	3	16, 17, 21, 27
Zetorchestidae	<i>Zetorchestes flabrarius</i> Grandjean, 1951	2	17, 82
	* <i>Saxicolestes</i> sp.	4	105, 106, 110, 114, 122

Appendix 1. List of collected samples. A: Altitude.

Sample number	Microhabitat	A (m)	UTM 28RCS	Locality	Date	D
T-1	Soil and humus of <i>Cheriolophus canariensis</i> var. <i>subexpinnatus</i>	275	145 386	Tamargo (Teno)	8.12.1995	9
T-2	Soil and humus of <i>Euphorbia canariensis</i> and <i>E. aphylla</i>	200	141 384	Punta del Diablo (Teno)	8.12.1995	10
T-3	Soil and humus of <i>Lycium intricatum</i>	2	118 366	Punta de Teno	8.12.1995	7
T-4	Soil and humus of <i>Euphorbia balsamifera</i> and <i>Lycium intricatum</i>	25	227 400	El Puerito de los Silos	8.12.1995	3
T-5	Soil and humus of <i>Euphorbia balsamifera</i>	300	262 390	El Tanque (Garachico)	8.12.1995	2
T-6	<i>Sterocaulum vesuvianum</i> over lavas from 1706	550	271 383	El Tanque	8.12.1995	10
T-7	Soil and humus of <i>Pinus canariensis</i>	550	271 383	El Tanque	8.12.1995	9
T-8	Soil and humus of <i>Ulex europaea</i>	875	235 348	Erjos	8.12.1995	10
T-9	Soil and humus of <i>Retama raetam</i>	1010	212 317	Masca	8.12.1995	6
T-10	Soil and humus of <i>Erica arborea</i>	750	191 341	Ladera de Martín (cara Norte)	9.12.1995	13
T-11	Soil and humus of laurisilva	775	202 357	Portela Alta	9.12.1995	21
T-12	Lichens on bark	775	202 357	Portela Alta (cara Norte)	9.12.1995	1
T-13	Soil and humus of laurisilva	850	211 352	Monte del Agua (Bco. de Blas)	9.12.1995	23
T-14	Mosses over wet stone in wet forest, on cleft bed	850	211 352	Monte del Agua (Bco. de Blas)	9.12.1995	15
T-15	Soil and humus under rotten logs in wet laurisilva	750	212 350	Monte del Agua (Bco. de Bucaron)	9.12.1995	21
T-16	Mosses and lichens on basaltic wall in wet laurisilva	900	215 348	Monte del Agua (Bco. de los Cochinos)	9.12.1995	9
T-17	Soil and humus of forest, at road in laurisilva	950	216 341	Monte del Agua (Bco. de los Cochinos)	9.12.1995	18
T-18	Soil and humus of <i>Eucalyptus globosus</i> and <i>Erica arborea</i> , in locality with a potential laurisilva vegetation	1000	228 344	Erjos	9.12.1995	7
T-19	Soil and humus under dense thicket of <i>Ulex europaea</i>	1000	230 340	Erjos	9.12.1995	6
T-20	Soil and humus of <i>Ficus carica</i> , almon-tree and <i>Retama raetam</i>	750	221 293	Tamaimo	9.12.1995	12
T-21	Mineral soil with <i>Lycium intricatum</i> and humus and roots of <i>Plocama pendula</i>	160	637 345	El Volcán de Arafo	31.05.1996	2
T-22	Dry soil under <i>Plocama pendula</i> and <i>Euphorbia regis-jubae</i>	250	627 339	Güimas	31.05.1996	3
T-23	Soil and humus of <i>Beta patelaria</i> and <i>Tamarix africana</i> (100% covering)	250	627 339	Güimar	31.05.1996	2
T-24	Dray sandy soil under <i>Erica arborea</i> and <i>Senecio heritieri</i>	650	589 316	Bco. Badajoz	31.05.1996	7
T-25	Thin sandy soil under <i>Rubus ulmifera</i> , as degraded laurisilva.	720	585 315	Bco. Badajoz	31.05.1996	9
T-26	Soil and humus of <i>Rhamnus glandulosa</i> covered with <i>Convolvulus canariensis</i>	720	585 315	Bco. Badajoz	31.05.1996	5
T-27	Soil of pumices with <i>Senecio heritieri</i> , <i>Pterocephalus dumetorum</i> and endemic <i>Argyranthemum</i> sp. (expuesta al viento húmedo del norte en dominio potencial del bosque termófilo)	600	618 303	La Ladera (Güimar)	31.05.1996	16
T-28	Soil of pumices, dry and permeable, with <i>Cistus symphytifolius</i> and <i>Cistus monspeliensis</i>	520	600 271	El Escobonal	31.05.1996	3
T-29	Soil of pumices under <i>Plocama pendula</i> , <i>Euphorbia regis-jubae</i> and <i>Neochamaemea pulverulenta</i>	350	573 207	Icor	31.05.1996	5
T-30	Sandy soil with humus of <i>Rumex lunaria</i> , <i>Euphorbia regis-jubae</i> , <i>Cistus monspeliensis</i> , <i>Echium virescens</i> , <i>Lavandula pinnata</i>	420	553 196	Bco. Tamadaya	31.05.1996	13
T-31	Soil with "tempero" near to <i>Phoenix canariensis</i> , <i>L. pinnata</i> and <i>Opuntia ficus-indica</i>	360	546 183	Arico	31.05.1996	4
T-32	Dry soil with humus of <i>Pinus canariensis</i> in dry pine forest (South), associated with <i>E. regis-jubae</i> , <i>C. monspeliensis</i> and <i>C. symphytifolius</i>	960	419 129	Vilafior	31.05.1996	2

Sample number	Microhabitat	A (m)	UTM 28RCS	Locality	Date	D
T-33	Dry soil and wall's soil with <i>Lotus campilocladius</i> in dry pine forest of <i>P. canariensis</i>	1300	402 147	Vilaflor	31.05.1996	3
T-34	Dry soil and soil near to large stone, with <i>L. campylocladius</i> in dry pine forest of <i>P. canariensis</i> (South)	1300	419 129	Vilaflor	31.05.1996	7
T-35	Vineyard soil., short of organic matter	1360	391 148	Vilaflor	31.05.1996	0
T-36	Dry, stony soil near to <i>Ficus carica</i>	1360	373 119	Vilaflor	31.05.1996	3
T-37	Dry, sandy soil of agricultural land with grasses surrounded by <i>P. pendula</i>	130	355 044	Guaza	31.05.1996	1
T-38	Wet soil and humus of <i>Eucalyptus globulus</i> (East)	750	746 557	Presa Tahodio	25.01.1997	6
T-39	Mosses and hepatics on basaltic wall and wet logs near to cascade	750	744 562	Llano de los Viejos	25.01.1997	21
T-40	Wet soil and humus near to permanent stream	750	744 562	Llano de los Viejos	25.01.1997	16
T-41	Wet soil and humus in wet laurisilva	800	741 565	Llano de los Viejos	25.01.1997	12
T-42	Wet soil in laurisilva under <i>E. arborea</i>	950	749 565	Llano de los Viejos	25.01.1997	11
T-43	Wet lighted with moss and hepatics	950	749 565	Cruz del carmen	25.01.1997	10
T-44	Wet soil and humus under <i>Myrica faya</i>	950	748 565	Cruz del carmen	25.01.1997	11
T-45	Cortical lichens	980	765 568	Pico del Inglés	25.01.1997	20
T-46	Wet soil and humus of fayal- health	950	756 572	Pico del Inglés	25.01.1997	23
T-47	Lichens and mosses on wall	960	757 572	Pico del Inglés	25.01.1997	18
T-48	Wet soil and humus under ledge, with <i>Senecio tussilaginis</i> , <i>Gesnouinia arborea</i> , <i>Echium sp.</i> , <i>E. arborea</i> , etc.	850	740 569	Las Yedras	25.01.1997	14
T-49	Sandy walls (North) with lichens, mosses and <i>Aeonium sp.</i>	850	739 569	Las Yedras	25.01.1997	21
T-50	Lichens and soil (ca. 2cm) under shadow of <i>E. arborea</i>	850	743 571	Las Yedras	25.01.1997	10
T-51	Wet soil between roots of <i>L. pinnata</i> , <i>Sideritis sp.</i> , <i>Artemisia canariensis</i>	500	736 598	Roque de los Pinos	25.01.1997	6
T-52	Stony lichens	640	741 600	Chinamada	25.01.1997	1
T-53	Soil under <i>E. arborea</i>	675	823 586	El Bailadero	25.01.1997	13
T-54	Wet soil of nitrofilic thicket with <i>Artemisa canariensis</i> , <i>R. Lunaria</i> , <i>Ricinus communis</i> and grasses	250	817 594	Taganana	25.01.1997	9
T-55	Soil and humus of <i>E. balsamifera</i> , <i>Astidamia latifolia</i> and <i>Argyranthemum frutescens</i>	60	839 612	Benijo	25.01.1997	12
T-56	Wet soil and humus of <i>Laurus azorica</i>	750	845 592	El Pijaral	25.01.1997	28
T-57	Wet soil and humus of <i>Erica scoparia</i> and <i>Viburnum rigidum</i> on summit of laurisilva	700	865 594	Las Bodegas	25.01.1997	21
T-58	Wet soil near cascade with <i>Canarina canariensis</i> , <i>cedronella canariensis</i> , <i>E. arborea</i>	650	865 600	Las Bodegas	25.01.1997	13
T-59	Agricultural soil recolonized by <i>Canarina canariensis</i>	550	867 606	Chamorga	25.01.1997	23
T-60	Lichens on death tree	550	868 606	Chamorga	25.01.1997	4
T-61	Fayal-health in summit with <i>E. arborea</i> and <i>Pteridium aquilinum</i>	460	870 607	Chamorga	25.01.1997	18
T-62	Hillside with rupicol vegetation of <i>Grenovia aurea</i> , <i>Sonchus sp.</i> , <i>S. tussilaginis</i> , <i>Teline sp.</i> , etc.	400	827 576	San Andrés	25.01.1997	16
T-63	Soil between roots of <i>E. canariensis</i> , <i>Rubia fruticosa</i> and <i>E. regis-jubae</i>	200	832 560	Chamorga	25.01.1997	15
T-64	Soil and humus of <i>Plocama pendula</i> , <i>E. regis-jubae</i> and <i>Lavandula buchii</i>	100	799 539	El Bufadero	25.01.1997	8
T-65	Soil of cleft with <i>Cistus monspeliensis</i> , <i>Asphodelus microcarpus</i> , <i>E. arborea</i> and mosses covering the soil	950	655 455	Las Raíces	29.05.1997	5
T-66	Soil of pine forest of <i>P. canariensis</i> burned two years ago, with sprouts and <i>E. arborea</i>	1050	651 451	Mña. Grande	29.05.1997	2
T-67	Soil of pine forest of <i>P. canariensis</i> with grove forest of <i>E. arborea</i> (20 m apart from the anterior sample)	1050	651 451	Mña. Grande	29.05.1997	9
T-68	Wet soil with mosses (burned 2 years ago), with <i>P. canariensis</i> and <i>E. globulus</i> ; grove forest of <i>E. arborea</i> and <i>Pt. aquilinum</i>	1310	633 454	Pico de Las Flores	29.05.1997	5
T-69	Mosses (North) on bark of <i>P. canariensis</i>	1420	618 439	Las Lagunetas	29.05.1997	4
T-70	Earth in wet wall with ooze, mosses cover, lichens and grasses	1600	595 419	Mirador de Ortuño	29.05.1997	4
T-71	Shady earth and sawdust in fallen log of <i>P. canariensis</i>	1700	593 415	El Diabilllo	29.05.1997	0
T-72	Earth in grove forest of <i>P. canariensis</i> with <i>Cistus symphytifolius</i> (sunny exposure)	1950	567 389	Fuente Joco	29.05.1997	5
T-73	Wet earth near spring with hydrophilic vegetation	1950	567 389	Fuente Joco	29.05.1997	3
T-74	Mosses and lichens on basaltic wall (North) with abundant fog	2000	561 372	Ayosa	29.05.1997	3
T-75	Soil and humus of <i>Pterocephalus lasiospermus</i> , <i>Descurainia bourgaeana</i> , <i>Spartocytisus supranubigus</i> and <i>P. canariensis</i> (height vegetation, with abundant fog)	2000	561 372	Ayosa	29.05.1997	9
T-76	Soil and humus wit abundant <i>Descurainia bourgaeana</i> and <i>Spartocytisus supranubigus</i>)	2200	546 347	Mña. Igueque	29.05.1997	5
T-77	Soil and humus of <i>D. bourgaeana</i> and <i>S. supranubigus</i>	2340	529 317	Izaña	29.05.1997	4
T-78	lichens (<i>Usnea articulata</i>) over branches of <i>P. canariensis</i> (North exposure)	1310	516 369	Acebiño (Aguamansa)	29.05.1997	5
T-79	Soil of dense health (<i>E. arborea</i>) with <i>C. symphytifolius</i> and lichens covering the soil	1160	520 375	Aguamansa	29.05.1997	12
T-80	Soil of grove forest in slightly altered laurisilva	1180	532 381	Aguamansa	29.05.1997	8
T-81	Soil under <i>Populus alba</i> with <i>Rubus ulmifolia</i> and <i>Tropaeolum major</i>	500	610 505	San Nicolás (s. El Sauzal)	29.05.1997	15
T-82	Soil of dense health (<i>E. arborea</i>) (North exposure, slope 45°)	540	649 501	Valle Guerra	29.05.1997	13
T-83	Soil and humus of altered pine forest of <i>P. canariensis</i> with <i>E. arborea</i>	975	657 476	La esperanza	30.05.1997	7
T-84	Soil and humus under reforested <i>P. canariensis</i> with shady grove forest and covered by <i>R. ulmifolia</i> and <i>P. aquilinum</i>	1100	647 472	La Montañeta	30.05.1997	7
T-85	Soil covered by mosses in a recent clear-cut of reforested <i>P. canariensis</i>	1140	615 457	Mña. Cabeza de Toro	30.05.1997	6
T-86	Soil (50cm deep), in laurisilva	1200	590 434	Lomo Jerónimos	30.05.1997	5
T-87	Mosses and earth from a wet wall in a pine forest with laurisilva	1500	587 418	Mirador de Ortuño	30.05.1997	10
T-88	Soil between roots of <i>Grenovia aurea</i> in wet wall with rupicol vegetation, in wet pine forest with laurisilva and health	1600	566 410	Pinar del Roque	30.05.1997	6
T-89	Soil and humus between roots of <i>Bencomia aculeata</i>	1500	554 384	Los Organos	30.05.1997	12
T-90	Soil of "lapilli" and humus of <i>Ficus carica</i> , <i>Castanea sativa</i> and <i>Echium virescens</i>	1100	605 394	Chivisaya	30.05.1997	1
T-91	Soil on lavic colada and dry humus of <i>E. regis-jubae</i> , <i>E. canariensis</i> and <i>P. pendula</i>	30	654 307	Malpais de Güimar	30.05.1997	4
T-92	Soil in lavic colada lávica and dry humus of <i>Aeonium sp.</i> , <i>Nesotes sp.</i> , <i>E. balsamica</i> , <i>E. canariensis</i> and <i>Schyzogine sericea</i>	30	654 307	Malpais de Güimar	30.05.1997	5
T-93	Earth between roots of grasses in road ditch	100	678 407	Las Caletillas	30.05.1997	1
T-94	Dry sandy soil in road fill with <i>Periploca laevigata</i> , <i>Launaea arborea</i> and <i>Argyranthemum sp.</i>	8	820 528	Santa Cruz	30.05.1997	6

Sample number	Microhabitat	A (m)	UTM 28RCS	Locality	Date	D
T-95	Soil and humus of <i>E. canariensis</i> , <i>P. laevigata</i> , <i>Rubia fluticosa</i> , <i>Opuntia ficus-indica</i>	80	784 526	La Cardonera (Valleseco)	30.05.1997	3
T-96	Dry soil at base of <i>Gnaphalium teydeum</i> , <i>Bromus</i> sp. And <i>Viola cheiranthifolia</i>	3550	393 286	Parque Nacional del Teide. Mirador de la Fortaleza	5.08.1997	2
T-97	Dry soil with red dust from shady wall	3680	391 282	Parque Nacional del Teide. El Pico	5.08.1997	11
T-98	Soil under moss near active sufataras	3650	391 282	Parque Nacional del Teide. El Pico	5.08.1997	0
T-99	Dry soil and humus at the base of <i>S. supranubius</i>	2225	402 250	Parque Nacional del Teide. Cañada Blanca	5.08.1997	8
T-100	Dry soil and humus of <i>Adenocarpus viscosus</i>	2200	402 250	Parque Nacional del Teide. Cañada Blanca	5.08.1997	5
T-101	Soil of pumice stone under tall grasses and <i>Scrophularia glabrata</i>	2000	402 215	Parque Nacional del Teide. Barranco Los Riachuelos	5.08.1997	1
T-102	Soil of pumice under <i>Mentha longifolia</i> , near a natural pond	2000	402 215	Parque Nacional del Teide. Barranco Los Riachuelos	5.08.1997	1
T-103	Soil of pumice, under <i>Echium wilpretii</i>	2000	402 215	Parque Nacional del Teide. Barranco Los Riachuelos	5.08.1997	3
T-104	Wet soil, between roots of grasses on wall with water	2000	402 215	Parque Nacional del Teide. Barranco Los Riachuelos	5.08.1997	6
T-105	Soil and dry mosses near temporary stream	2000	402 215	Parque Nacional del Teide. Barranco Los Riachuelos	5.08.1997	3
T-106	Lichens near temporary stream	2000	402 215	Parque Nacional del Teide. Barranco Los Riachuelos	5.08.1997	3
T-107	Soil and pumice under <i>Pteroccephalus lasiospermus</i> , <i>Scrophularia glabrata</i> and grasses.	2060	355 219	Parque Nacional del Teide. Boca Tauce	5.08.1997	8
T-108	Dry soil under <i>Argyranthemum teneriffae</i> , between sub recent of lava	2080	337 244	Parque Nacional del Teide. Llanos de la Santidad	5.08.1997	4
T-109	Soil with lapilli and humus of <i>P. canariensis</i> , near its trunk	2020	326 259	Parque Nacional del Teide. Barranco Los Riachuelos	5.08.1997	6
T-110	Lichens and mosses on vertical shady wall (North exposure)	2080	345 221	Parque Nacional del Teide. Cañada de Chavao	5.08.1997	3
T-111	Soil and humus under flowered <i>A. viscosus</i>	2080	345 221	Parque Nacional del Teide. Cañada de Chavao	5.08.1997	5
T-112	Pumice soil and humus of <i>Sideritis eriocephala</i> and <i>Cheirolophus teydis</i>	2180	358 211	El Sombrerito	5.08.1997	5
T-113	Soil and humus of <i>Echium wilpretii</i>	2150	405 229	Parque Nacional del Teide. Parador Nacional	6.08.1997	4
T-114	Soil and humus of <i>Echium auberianum</i>	2100	471 313	Parque Nacional del Teide. Siete Cañadas (Arenas Negras)	6.08.1997	13
T-115	Dry soil and humus at the base of <i>Descurainia bourgeana</i>	2090	478 288	Parque Nacional del Teide. Cañada de Diego Hernández	6.08.1997	3
T-116	Dry soil and humus of <i>Pimpinella cumbrae</i>	2100	478 273	Parque Nacional del Teide. Cueva de Diego Hernández	6.08.1997	3
T-117	Stony lichens on cliff (North exposure)	2100	478 278	Parque Nacional del Teide. Risco Verde (La Papelera)	6.08.1997	4
T-118	Humus of <i>Adenocarpus viscosus</i>	2100	478 283	Parque Nacional del Teide. Risco Verde (La Papelera)	6.08.1997	4
T-119	Wet soil with <i>Mentha longifolia</i>	2100	430 329	Parque Nacional del Teide. La Fortaleza	6.08.1997	6
T-120	Soil and humus under <i>Juniperus cedrus</i>	2100	430 329	Parque Nacional del Teide. La Fortaleza	6.08.1997	11
T-121	Soil and humus of <i>Chamaecytisus proliferus</i>	2100	430 329	Parque Nacional del Teide. La Fortaleza	6.08.1997	6
T-122	Soil and humus under <i>Cedrus atlantica</i>	2075	464 315	El Portillo de la Villa	6.08.1997	6
T-123	Humus of <i>Descurainia bourgeana</i> over pumice soil (slope, North exposure)	2050	470 320	El Portillo de la Villa	6.08.1997	8
T-124	Humus of <i>P. canariensis</i> over pumice soil (slope, North exposure)	2050	470 320	El Portillo de la Villa	6.08.1997	5
T-125	Soil and humus of <i>Adenocarpus foliolosus</i> in grove forest of reforested <i>P. canariensis</i>	1590	606 424	El Diablillo	6.08.1997	4
T-126	Lichens and mosses on shady wall of wet earth, in mixed pine forest of <i>P. canariensis</i> and fatal-health (<i>Myriad fays</i> + <i>Erica arborea</i>)	920	655 458	Las Raíces	6.08.1997	4
T-127	Soil and humus of <i>Phoeniculus vulgare</i> at margin of an overflowed plain at winter time (pseudo marshy)	630	690 511	Los Rodeos	6.08.1997	2
T-128	Soil and humus of <i>Cynodon dactylon</i> in overflowed plain at winter time (pseudo marshy)	630	690 511	Los Rodeos	6.08.1997	2