

PRELIMINARY LIST OF ZOOPLANKTON OF THE CANARY ISLANDS. II. SIPHONOPHORA, PTEROPODA, HETEROPODA, OSTRACODA, AMPHIPODA AND DECAPODA.

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RESUMEN: Se presentan en este trabajo los resultados de las investigaciones realizadas hasta este momento por diferentes equipos de investigación, entre los que se encuentra el de Planctología del Departamento de Biología Animal (Ciencia Marinas) de la Universidad de La Laguna, dentro del campo del zooplancton de las aguas de las Islas Canarias.

Se expone una lista sistemática preliminar que incluye un total de 256 especies, correspondientes a 73 Sifonóforos, 20 Pterópodos, 8 Heterópodos, 35 Ostrácodos, 94 Anfípodos (8 Gammáridos y 86 Hipéridos) y 26 Decápodos planctónicos (12 Carideos y 14 Peneideos).

Palavras clave: Zooplancton, Islas Canarias; NE. Atlántico.

ABSTRACT: This work is based on investigations so far carried out by various teams of investigators including the Planktologists concerned with the zooplankton of the waters of the Canary Islands belonging to the Animal Biology (Marine Sciences) Department of the University of La Laguna.

The resulting preliminary systematic list includes the total of 256 species consisting of 73 species of Siphonophores, 20 Pteropods, 8 Heteropods, 35 Ostracods, 94 Amphipods (8 Gammarids and 86 Hyperiid) and 26 planktonic Decapods (12 Carideans and 14 Penaeids).

Key words: Zooplankton, Canary Islands, NE. Atlantic.

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Table 1. - Characteristics of hauls at sampling stations of zooplankton studies in waters of the Canary Islands (compiled from the sources indicated).

SIPHONOPHORA

Situation of stations: SE of Fuerteventura (Canary Islands).

Net: N113 (1m² ring-net and 0.33 mm. of pore size) and IKTM (3 m. with 5 mm. mesh netting).

Haul: Horizontal and oblique series (960-0 metres). Diurnal and nocturnal.

Expedition: Sond Cruise, 1965.

Ship: R. R. S. "Discovery".

Source: HAECKEL (1869 and 1888) and PUGH (1974).

PTEROPODA AND HETEROPODA

Situation of stations: St.VIII (28° 3' 15" N and 17° 27' W), St. 1 (27° 24' N and 16° 55' W), St. 85 (28° 42' N and 18° 6' W), NE of Tenerife (San Andrés) and whole Canary Islands.

Net: Juday-Bogorov (0.20 m² of mouth area and 250 um and 100 um of pore size) and Standard International WP-2 (Triplicate) of 250 um of pore size.

Haul: Oblique and vertical (200-0 metres). Diurnal.

Expedition: Challenger Expedition, 1873-1876 and Canarias 85.

Ship: H. M. S. "Challenger", B/O. "Agamenón, B/O. "Islas Canarias" and B/I. "Taliarte".

Source: PELSENEER (1887 and 1888), SMITH (1888), FERNANDEZ de PUELLES (1986) and HERNANDEZ & LOZANO SOLDEVILLA (in preparation).

OSTRACODA

Situation of stations: St.VIII (28° 3' 15" N and 17° 27' W), St. 85 (28° 42' N and 18° 6' W), NE of Tenerife (San Andrés) and SE of Fuerteventura (Canary Islands).

Net: Juday-Bogorov (0.20 m² of mouth area and 250 um and 100 um of pore size) and N113 (1 m² ring-net and 0.33 mm. pore size).

Haul: Horizontal series (960-0 metres) and vertical (200-0 metres). Diurnal and nocturnal.

Expedition: Challenger Expedition, 1873-1876 and Sond Cruise, 1965.

Ship: H. M. S. "Challenger", R. R. S. "Discovery", B/O. "Agamenón" and B/O. "Islas Canarias".

Source: BRADY (1880), ANGEL (1969) and FERNANDEZ de PUELLES (1986).

AMPHIPODA

Situation of station: St 1. (27° 24' N and 16° 55' W) and SE of Fuerteventura (Canary Islands).

Net: N113 (1 m² ring-net and 0.33 mm. of pore size), IKTM (3m with 5 mm. mesh netting) and Neuston net.

Haul: Horizontal series (960-0 metres). Diurnal and nocturnal.

Expedition: Challenger Expedition, 1873-1876 and Sond Cruise, 1965.

Ship: H. M. S. "Challenger", R. R. S. "Discovery".

Source: STEBBING (1888) and THURSTON (1976a, 1976b and 1976c).

DECAPODA

Situation of station: SE of Fuerteventura (Canary Islands).

Net: N113 (1 m² ring-net and 0.33 mm. of pore size), IKTM (3m with 5 mm. mesh netting).

Haul: Horizontal series (960-0 metres). Diurnal and nocturnal.

Expedition: Sond Cruise, 1965.

Ship: R. R. S. "Discovery".

Source: FOXTON (1970a and 1970b), SANTAELLA & BRAVO DE LA LAGUNA (1975) and GONZALEZ *et al.* (in press).

PRELIMINARY LIST OF ZOOPLANKTON OF THE CANARY ISLANDS.

CLASS HYDROZOA

FAMILY PHYSOPHORIDAE

Physophora hydrostatica FORSKAL, 1775

ORDER SIPHONOPHORA

FAMILY ATHORYBIIDAE

Melophysa melo (QUOY & GAIMARD, 1827)

SUBORDER PHYSOPHORAE

FAMILY APOLEMIIDAE

Apoemia uvaria LESUEUR, 1880

FAMILY FORSKALIIDAE

Forskalia edwardsii KOLICKER, 1853

Forskalia tholoides HAECKEL, 1888

FAMILY AGALMIDAE

Agalma okeni (SARS, 1846) FEWKES, 1811

Stephanomia rubra (VOGT, 1852)

Halistemma rubrum (VOGT, 1852)

Nectalia loligo HAECKEL, 1888

Marrus orthocanna (KRAMP, 1942)

Marrus orthocannoides TOTTON, 1954

Nanomia bijuga (CHIAJE, 1841)

SUBORDER CALYCOPHORAE

FAMILY PRAYIDAE

SUBFAMILY AMPHICARYONINAE

Amphicaryon acaule CHUN, 1888

Amphicaryon ernesti TOTTON, 1954

Meresearsia praeclara TOTTON, 1954

FAMILY PYROSTEPHIDAE

Wargmannia elongata TOTTON, 1954

SUBFAMILY PRAYINAE

- Praya galea* HAECKEL, 1888
Praya dubia (QUOY & GAIMARD, 1833, 1834)
Praya resticulata (BIGELOW, 1911)
Rosacea cymbiformis (CHIAJE, 1822)
Desmophyes annectens BIGELOW, 1911

SUBFAMILY NECTOPYRAMIDINAE

- Nectopyramis diomedae* BIGELOW, 1911
Nectopyramis natans (BIGELOW, 1911)
Nectopyramis spinosa SEARS, 1952
Nectopyramis thetis BIGELOW, 1911

FAMILY HIPPOPODIIDAE

- Hippopodius hippopus* (FORSKAL, 1776)
Vogtia glabra BIGELOW, 1918
Vogtia spinosa KEFFERSTEIN & EHLERS, 1861
Vogtia serrata (MOSER, 1925)
Vogtia pentacantha KOLLICKER, 1853

FAMILY DIPHYIDAE

SUBFAMILY SULCULEOLARIINAE

- Sulculeolaria quadrivalvis* BLAINVILLE, 1834
Sulculeolaria biloba (SARS, 1846)
Sulculeolaria monoica (CHUN, 1888)
Sulculeolaria turgida (GEGENBAUER, 1843)
Sulculeolaria chuni (LENS & VAN RIEMSDIJK, 1908)

SUBFAMILY DIPHYINAE

- Diphyes dispar* CHAMISSE & EYSENHARDT, 1821
Diphyes bojani (ESCHSCHOLTZ, 1829)
Lensia multicristata (MOSER, 1925)
Lensia achilles TOTTON, 1941
Lensia subtilis (CHUN, 1886)
Lensia meteori (LELOUP, 1934)
Lensia cossak TOTTON, 1941
Lensia grimaldi LELOUP, 1933
Lensia hotspur TOTTON, 1941
Lensia fowleri (BIGELOW, 1911)
Lensia campanella (MOSER, 1925)
Lensia lelouveteau TOTTON, 1941
Lensia exeter TOTTON, 1941
Lensia havock TOTTON, 1941
Lensia hostile TOTTON, 1941

? *Miggiaea atlantica* CUNNINGHAM, 1892

? *Miggiaea kochi* (WILL, 1844)

Chelophyes appendiculata (ESCHSCHOLTZ, 1829)

Eudoxoides mitra (HUXLEY, 1859)

Eudoxoides spiralis (BIGELOW, 1911)

Dimophyes arctica (CHUN, 1897)

Diphyopsis compressa (HAECKEL, 1866)

FAMILY CLAUSOPHYIDAE

- Clausophyes ovata* (KEFFERSTEIN & EHLERS, 1860)
Chuniphyes multidentata LENS & VAN RIEMSDIJK, 1908
Heteropyramis maculata MOSER, 1925

FAMILY ABYLIDAE

SUBFAMILY ABYLINAE

- Abyla trigona* QUOY & GAIMARD, 1827
Abyla crystallus HAECKEL, 1867
Abyla carina HAECKEL, 1888

SUBFAMILY CERATOCYMBINAE

- Ceratocymba sagittata* (QUOY & GAIMARD, 1827)

SUBFAMILY ABYLOPSINAE

- Abylopsis tetragona* (OTTO, 1823)
Abylopsis eschscholtzii (HUXLEY, 1829)
Bassia bassensis (QUOY & GAIMARD, 1833) (1834)
Calpe gegenbauri HAECKEL, 1888
Enneagonum hyalinum QUOY & GAIMARD, 1827

SUBORDER CYSTONECTAE

FAMILY RHIZOPHYSIDAE

SUBFAMILY CANNOPHYSINAE

- Cannophysa murrayana* HAECKEL, 1888

SUBFAMILY LINOPHYSINAE

- Nectophysa wyvillei* HAECKEL, 1888

FAMILY PHYSALIDAE

SUBFAMILY ARETHUSINAE

Allophota gilschiana HAECKEL, 1888
Arethusa challengeri

CLASS GASTROPODA**SUBCLASS OPISTHOBRANCHIA****ORDER THECOSOMATA****SUBORDER EUTHECOSOMATA****FAMILY LIMACINIDAE**

Limacina inflata (D'ORBIGNY, 1836)
Limacina lesueuri (D'ORBIGNY, 1836)
Limacina bulimoides (D'ORBIGNY, 1836)
Limacina trachiformis (D'ORBIGNY, 1836)

FAMILY CAVOLINIIDAE

Creseis acicula (RANG, 1828)
Hyalocylis striata (RANG, 1828)
Sylliola subula (QUOY & GAIMARD, 1827)
Clio pyramidata LINNAEUS, 1767
Clio cuspidata (BOSC, 1802)
Clio polita (PELSENEER, 1888)
Diacria trispinosa (BLAINVILLE, 1821)
Diacria quadridentata (BLAINVILLE, 1821)
Cavolinia inflexa (LESUEUR, 1813)
Cavolinia gibbosa (D'ORBIGNY, 1836)
Cavolinia uncinata (RANG, 1829)
Cuvierina columnella (RANG, 1827)

SUBORDER PSEUDOTHECOSOMATA**FAMILY CYMBULIIDAE**

Cymbulia peroni BLAINVILLE, 1818

FAMILY PERACLIDIDAE

Peraclis bispinosa PELSENEER, 1888
Peraclis reticulata (D'ORBIGNY, 1836)
Peraclis triacantha (FISHER, 1882)

SUBCLASS PROSOBRANCHIA**ORDER HETEROPODA****FAMILY ATLANTIDAE**

Protatlanta souleyeti (SMITH, 1888)

Atlanta peroni LESUEUR, 1817

Atlanta fusca SOULEYET, 1852

Atlanta helicinoides SOULEYET, 1852

Atlanta inclinata SOULEYET, 1852

Atlanta inflata SOULEYET, 1852

Atlanta lesueuri SOULEYET, 1852

FAMILY CARINARIIDAE

Carinaria lamarcki PERON & LESUEUR, 1810

CLASS CRUSTACEA**SUBCLASS OSTRACODA****ORDER MYODOCOPINA****SUBORDER MYODOCOPINA****SUPERFAMILY CYPRIDINACEA****FAMILY CIPRIDINIDAE**

Macrocypridina castanea (BRADY, 1897)

SUPERFAMILY HALOCYPRIDACEA**FAMILY ARCHICOCHOECIDAE**

Archiconchoecia cucullata (BRADY, 1902)

FAMILY HALOCYPRIDIDAE

Halocypris brevisrostris

FAMILY CONCHOECIDAE

Conchoecia oblonga (CLAUS, 1890)
Conchoecia porrecta CLAUS, 1890
Conchoecia acuminata (CLAUS, 1890)
Conchoecia parthenoda MÜLLER, 1906
Conchoecia subarcuata CLAUS, 1890
Conchoecia daphnoides (CLAUS, 1890)
Conchoecia bispinosa CLAUS, 1890
Conchoecia secernenda VAVRA, 1906
Conchoecia haddoni BRADY & NORMAN, 1896
Conchoecia spinifera (CLAUS, 1890)
Conchoecia hyalophyllum CLAUS, 1890
Conchoecia alata MÜLLER, 1906
Conchoecia imbricata (BRADY, 1880)
Conchoecia rhynchena MÜLLER, 1906
Conchoecia loricata CLAUS, 1894

Conchoecia inermis CLAUS, 1890
Conchoecia lophura MÜLLER, 1906
Conchoecia ametra MÜLLER, 1906
Conchoecia kampta (MÜLLER, 1906)
Conchoecia curta LUBBOCK, 1860
Conchoecia spinirostris CLAUS, 1874
Conchoecia elegans SARS, 1866
Conchoecia skogsbergi ILES, 1935
Conchoecia procera MÜLLER, 1890
Conchoecia brackyaskos MÜLLER, 1906
Conchoecia magna CLAUS, 1874
Conchoecia aequiseta MÜLLER, 1906
Conchoecia hirsuta MÜLLER, 1906
Conchoecia incisa MÜLLER, 1906
Conchoecia atlantica (LUBBOCK, 1856)
Conchoecia macrocheira MÜLLER, 1906
Conchoecia dorsotuberculata MÜLLER, 1906

SUBCLASS MALACOSTRACA

ORDER AMPHIPODA

SUBORDER GAMMARIDEA

FAMILY EUSIRIDAE

Eusiropsis rüsei STEBBING, 1897
Stenopleura atlantica STEBBING, 1888

FAMILY LYSLANASSIDAE

Crybelocephalus birsteini THURSTON, 1976
Cyphocaris anonyx BOECK, 1871
Cyphocaris challengerii STEBBING, 1888

FAMILY PARDALISCIDAE

Halice macronyx (STEBBING, 1888)
Halicoidea discoveryi THURSTON, 1976

FAMILY STEGOCEPHALIDAE

Parandania boeckii (STEBBING, 1888)

SUBORDER HYPERIIDAE

FAMILY MIMONECTIDAE

Mimonectes gausi (WOLTERECK, 1904)

FAMILY PROSCINIDAE

Proscina magna STEPHENSEN & PIRLOT, 1931

FAMILY SCINIDAE

Scina borealis (SARS, 1882)
Scina crassicornis (FABRICIUS, 1775)
Scina curvidactyla CHEVREUX, 1914
Scina damasii PIRLOT, 1929
Scina excisa WAGLER, 1926
Scina lepisma (CHUN, 1889)
Scina marginata (BOVALLIUS, 1885)
Scina oedicarpus STEBBING, 1895
Scina pusilla CHEVREUX, 1919
Scina ratrayi STEBBING, 1895
Scina similis STEBBING, 1895
Scina stebbingi CHEVREUX, 1919
Scina stenopus STEBBING, 1895
Scina submarginata TATTERSALL, 1906
Scina tullbergi (BOVALLIUS, 1885)
Scina vosseleri atlantis THURSTON, 1976
Scina wagleri atlantis THURSTON, 1976
Scina wolterecki WAGLER, 1926
Acanthoscina acanyhodes (STEBBING, 1895)
Ctenoscina brevicaudata WAGLER, 1926

FAMILY LANCEOLIDAE

Lanceola loveni BOVALLIUS, 1885
Lanceola pacifica var. *robusta* WOLTERECK, 1909
Lanceola sayana BOVALLIUS, 1885

FAMILY VIBILIIDAE

Vibilia armata BOVALLIUS, 1887
Vibilia australis STEBBING, 1888
Vibilia propinqua STEBBING, 1888
Vibilia stebbingi BEHNING & WOLTERECK, 1912
Vibilia viatrix BOVALLIUS, 1887

FAMILY PARAPHRONIMIDAE

Paraphronima crassipes CLAUS, 1879
Paraphronima gracilis CLAUS, 1879

FAMILY HYPERIIDAE

Hyperietta stephensini BOWMAN, 1973
Hyperietta vosseleri (STEBBING, 1904)
Hyperoides longipes CHEVREUX, 1900
Hyperoche picta BOVALLIUS, 1889
Lestrignonus bengalensis GILES, 1888
Lestrignonus latissimus (BOVALLIUS, 1889)
Lestrignonus macrophthalmus (VOSSLER, 1901)

Lestrigonus schizogeneios (STEBBING, 1888)
Phronimopsis spinifer CLAUS, 1879
Themistella fusca (DANA, 1852)

FAMILY PHRONIMIDAE

Phronima atlantica GUÉRIN, 1836
Phronima colletti BOVALLIUS, 1887
Phronima pacifica STREETS, 1877
Phronima sedentaria (FORSKAL, 1775)
Phronima solitaria GUÉRIN, 1836
Phronima stebbingi VOSSELER, 1901
Phronimella elongata (CLAUS, 1862)

FAMILY PHROSINIDAE

Anchylomera blossevellei MILNE-EDWARDS, 1830
Phrosina semilunata RISSO, 1822
Primno macropa GUÉRIN, 1831

FAMILY LYCAEOPSIDAE

Lycaeopsis neglecta PIRLOT, 1929
Lycaeopsis themistoides CLAUS, 1879
Lycaeopsis zamboangae (STEBBING, 1888)

FAMILY LYCAEIDAE

Brachyscelus cruscolum BATE, 1861
Brachyscelus macrocephalus STEPHENSEN, 1925
Lycaea bovallii CHEVREUX, 1900
Lycaea bovallioides STEPHENSEN, 1925
Ityphana malmi BOECK, 1871

FAMILY PRONOIDAE

Eupronoe aemata CLAUS, 1879
Eupronoe minuta CLAUS, 1879
Paralycaea gracilis CLAUS, 1879
Parapronoe crustulum CLAUS, 1879
Pronoe capito GUÉRIN, 1836
Sympronoe parva (CLAUS, 1879)

FAMILY OXYCEPHALIDAE

Calamorrhynchus pellucidus STREETS, 1878
Glossoccephalus milneedwardsi BOVALLIUS, 1887
Oxycephalus clausi BOVALLIUS, 1887
Oxycephalus piscator MILNE-EDWARDS, 1840
Rhabdosoma brevicaudatum STEBBING, 1888
Rhabdosoma whitei BATE, 1862
Simorhynchotus antennarius (CLAUS, 1871)
Streetsia challengerii STEBBING, 1888

Streetsia porcella (CLAUS, 1879)

FAMILY PLATYSCCELIDAE

Amphihysus bispinosus CLAUS, 1879
Amphihysus similis CLAUS, 1879
Hemityphis rapax (MILNE-EDWARDS, 1830)
Paratyphis parvus CLAUS, 1887
Paratyphis promontorii STEBBING, 1888
Platyscelus ovoides (RISSO, 1816)
Platyscelus serratus STEBBING, 1888
Tetrathyrus forcipatus CLAUS, 1879

FAMILY PARASCELIDAE

Schizoscelus ornatus CLAUS, 1879
Thyropus sphaerana (CLAUS, 1879)
Thyropus typhoides (CLAUS, 1879)

ORDER DECAPODA

SUBORDER CARIDEA

FAMILY OPOPHORIDAE

Acanthephyra purpurea MILNE-EDWARDS, 1881
Systellaspis debilis (MILNE-EDWARDS, 1881)
Systellaspis cristata (FAXON, 1893)
Systellaspis braueri (BALSS, 1914)
Oplophorus spinosus (BRULLÉ, 1839)
Meningodora vesca (SMITH, 1882)
Meningodora mollis SMITH, 1882
Meningodora longirostris BATE, 1888
Ephyrina hoskynii WOOD-MASON, 1892

FAMILY PANDALIDAE

Parapandalus richardi (COUTIÈRE, 1905)

FAMILY PASIPHAEDIAE

Pasiphaea hoplocerca (CHACE, 1940)
Eupasiphaea gilesii (WOOD-MASON, 1892)

SUBORDER PENAEIDEA

FAMILY PENAEIIDAE

SUBFAMILY ARISTAEINAE

Gennadas valens (SMITH, 1884)
Gennadas elegans (SMITH, 1882)

Bentheogennema intermedia (BATE, 1888)

SUBFAMILY PENAEINAE

Funchalia villosa (BOUVIER, 1905)

FAMILY SERGESTIDAE

Sergestes (Sergia) robustus SMITH, 1882

Sergestes (Sergestes) pectinatus SUND, 1920

Sergestes (Sergia) japonicus BATE, 1881

Sergestes (Sergia) tenuiremis KROYER, 1855

Sergestes (Sergestes) corniculum KROYER, 1855

Sergestes (Sergestes) sargassi ORTMANN, 1893

Sergestes (Sergestes) vigilax STIMPSON, 1860

Sergestes (Sergestes) armatus KROYER, 1855

Sergestes (Sergia) spendens SUND, 1920

Sergestes (Sergestes) atlanticus MILNE-EDWARDS, 1830

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