

Cumacea (Crustacea) of the Faroe Island Region

Cumacea (Crustacea) í fóroyiskum øki

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Úrtak

Ein víðtøkin kanning av botndjóralívi kring Føroyar (BioFar-verkætlanin) legði 42 slög astur at teimum 28 longu kendu sløgunum á fóroyska økinum. Eitt slag var ókent fyrir vísindini. Í hesi grein verður lagt fram nágreniligt yvirlit yvir öll Cumacea-slög í fóroyiskum sjógví niður á uml. 1300 m dýpi. Kort yvir útbreiðslu eru fyrir flestu slögini, og harafturat eru upplýsingar um núgaldandi latínsk növn við hóvundi og árstali, týdning-armiklum samheitum, tilvísingar til góðar lýsingar av dýrunum, hvar tey eru at finna í mun til dýpi, botnslug, hitastig (mált ella mett), vatnsmassa, og um heildarútbreiðslu í Atlantshavi.

Abstract

A comprehensive sampling program around the Faroe Islands (BioFar) added 42 species of cumaceans, one of which was new to science, to the known fauna of the region. This paper presents a detailed comprehensive list of all known cumacean records for the Faroe Islands region, down to a depth of about 1300 m. Maps showing the locations of station records, along with detailed references regarding synonymy and suitable illustrations for identification purposes are also supplied.

Introduction

Cumaceans are small crustaceans frequently encountered in benthic marine and littoral environments. Most species inhabit the surface layer of sediment, partially burying themselves and pursuing a deposit-feeding or predaceous lifestyle, while, especially in shallow waters of the southern hemisphere, other species can be found clinging to algal turf on rocks. No parasitic or commensal species are known. Plankton samples often contain cumaceans (Kaartvedt, 1986; Habermehl *et al.*, 1990), particularly night samples, because males of some species move into the water column to search for mates. Although their distribution tends to be patchy, cumaceans can be extremely abundant locally and important in the diet of small fishes (Poxton *et al.*, 1983; Macdonald and Green, 1986; Mattson, 1992). Cumaceans brood their young in a brood pouch through at least 3 molts (Schram, 1986) until the young are released as small copies of the adults lacking only the last pair of pereopods.

In many areas of the world cumaceans have been one of the least studied groups, even though they are sometimes quite abundant. The region around the Faroe Islands is no exception. Until the report by Hansen (1920) on the Cumacea of the Ingolf Expedition, no cumaceans had been identified from the Faroe Islands and their environs. Hansen's cumacean records included 25 species. With the single exception of a species collected in the harbor at Tórshavn, all of Hansen's cumaceans were collected at four deep-sea stations, either by the "Thor" or the "Ingolf". Of those, most are from the relatively warmer waters found south of the islands. Consequently, even after Hansen's study, the cumaceans of the Faroes could not be said to be well known. A later list by Stephensen (1929) added three shallow water species. Representatives of each family of cumaceans present around the Faroes are depicted in Fig. 1.

The extensive sampling of the Faroes area as a result of the BioFar Program (Investigations of the Marine Benthic Fauna of the Faroes Area) has produced a wealth of cumacean material. Of the 600 localities sampled, 146 produced 62 cumacean species. Forty-eight of those samples were taken by Rothlisberg-Piercy hyperbenthic sledge, 84 by detritus sledge, 6 by triangle dredge, 4 by Smith-McIntyre grab, 2 by anchor dredge, and 2 by quadrangular dredge. As a result of the BioFar sampling, Hansen's species list has been substantially increased so that the cumacean fauna of the Faroes now stands at 70 species.

Results

The following list of species encompasses all cumaceans taken in the Faroes region, including the earlier records of Hansen. For each species, synonyms are given where appropriate, at least one reference containing a good description of the species is listed, any previous records in the Faroes area are noted, the BioFar stations where the species was collected are listed, and various details regarding depth and temperature conditions at sites where the species has been found are given. These categories follow the listing of mysids from the Faroes area by Brattegard and Meland (1997). All data on water masses are taken from the report of Westerberg (1990), also summarized succinctly by Brattegard and Meland (1997), among others. The abbreviations used by Westerberg (1990) for the water masses are used in the species list. Atlantic water ($>7^{\circ}\text{C}$) is abbreviated AW, Arctic Intermediate Water ($1.5\text{--}3.5^{\circ}\text{C}$) is abbreviated AI, and Norwegian Sea water ($<0^{\circ}\text{C}$) is abbreviated NW. When the abbreviations for water masses are separated by a '/', this indicates mixed waters (for example, AW/AI indicates a mixed water mass, with a temperature of $3.5\text{--}7^{\circ}\text{C}$).

Order CUMACEA

Family CERATOCUMATIDAE

Genus *Ceratocuma* Calman, 1905

Ceratocuma horridum Calman, 1905 (Fig. 1)

Synonyms: none

Good description: Calman (1905)

Previous records: none

BioFar stations: 490, 736

Depth range: 1083-1157 m

Temperature range: 6.5°C

Water mass: AW/AI, AW

Atlantic distribution: North-East Atlantic, West of Ireland, Gulf of Gascogne

Atlantic depth distribution: 700-2360 m

Genus *Cimmerius* Jones, 1973

Cimmerius reticulatus Jones, 1973

Synonyms: none

Good description: Jones (1973)

Previous records: none

BioFar stations: 516, 517

Depth range: 914-1099 m

Temperature range: 5.6-6.7°C

Water mass: AW/AI

Atlantic distribution: Faroes, east coast of United States to Brazil (range extension).

Atlantic depth distribution: 587-2886 m.

Family PSEUDOCUMATIDAE

Genus *Petalosarsia* Stebbing, 1893

Petalosarsia declivis (Sars, 1865) (Figs. 1, 2)

Synonyms: *Petalopus declivis* Sars (1865); *Petalomera declivis* Sars (1883)

Good description: Sars (1900); Băcescu and Muradian (1974)

Previous records: none

BioFar stations: 6, 7, 27, 95, 100, 165, 274, 355, 380, 408, 421, 424, 458, 9014

Depth range: 110-803 m

Temperature range: -0.6-8.2°C

Water mass: All water masses

Atlantic distribution: Northern Boreal Atlantic, east coast United States continuous to British Isles, Davis Strait, Spitzbergen, Scandinavian coasts

Atlantic depth distribution: 18-803 m (depth range extension)

Family LAMPROPIDAE

Genus *Hemilamprops* Sars, 1883

Hemilamprops assimilis Sars, 1883

(Fig. 3)

Synonyms: none

Good description: Sars (1900)

Previous records: SW of Faroes, 842-937 m (Hansen, 1920)

BioFar stations: 6, 7, 19, 27, 29, 51, 65, 73, 100, 103, 120, 124, 165, 174, 189, 267, 355, 356, 380, 381, 411, 416, 421, 422, 424, 425, 452, 492, 493, 495, 496, 515, 517, 522, 524, 689, 690, 692, 694, 696, 739, 747

Depth range: 32-1319 m

Temperature range: 1.2-9.39°C

Water mass: AI, AW, AW/AI, NW/AW/AI

Atlantic distribution: Boreal Atlantic, Gulf of Gascogne

Atlantic depth distribution: 55-3000 m

Hemilamprops cristatus (Sars, 1870)

(Fig. 4)

Synonyms: *Lamprops cristata* Sars (1870)

Good description: Sars (1900)

Previous records: SW of Faroes, 806-937 m (Hansen, 1920)

BioFar stations: 10, 15, 19, 27, 41, 64, 65, 68, 78, 82, 95, 120, 124, 137, 158, 169, 170, 171, 172, 174, 228, 263, 267, 271, 274, 295, 317, 343, 361, 362, 380, 381, 416, 417, 421, 422, 424, 425, 458, 459, 478, 480, 495, 501, 694, 696, 718, 722, 738, 739, 9014

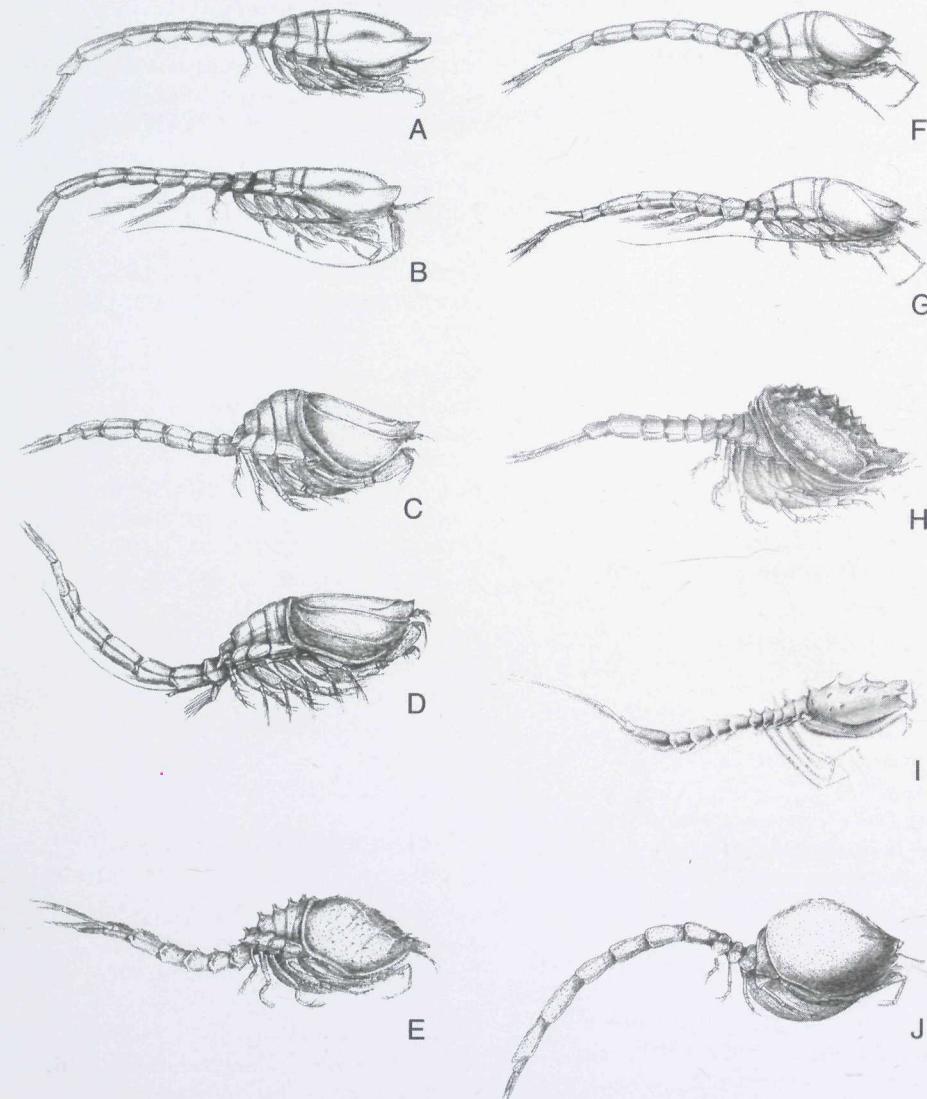
Depth range: 130-1319 m

Temperature range: -0.8-9.39°C

Water mass: All water masses

Atlantic distribution: Boreal Atlantic, Davis Strait, Faroes, Norway, Skaggerak, Gulf of Gascogne

Atlantic depth distribution: 155-4000 m



A: *Leucon (Alytoleucon) pallidus* Sars 1865, Female; B: *L. pallidus* Sars 1865, Male
 C: *Petalosarsia declivis* (Sars 1865), Female; D: *P. declivis* (Sars 1865), Male
 E: *Diastylis echinata* Bate 1865;
 F: *Hemilamprops uniplicatus* (Sars 1872), Female; G: *H. uniplicatus* (Sars 1872), Male
 H: *Campylaspis horrida* Sars 1870
 I: *Ceratocuma horrida* Calman 1905
 J: *Cyclaspis longicaudata* Sars 1865
 All figures except *Ceratocuma horrida* are from Sars 1900
 The *Ceratocuma horrida* figure is from Calman 1905

Fig. 1. Examples of species from each family found in the Faroe area. Specimens are between 4-10 mm in length, and all figures are from Sars (1900) except the figure of *Ceratocuma horrida*, which is from Calman (1905):

Mynd 1. Dómi um dýraslög úr hvørji ætt sum funnin er í fóroyskum øki. Dýrini eru millum 4 og 10 mm til longdar, og allar myndirnar eru frá Sars (1900) utan myndin av *Ceratocuma horrida*, sum er frá Calman (1905).

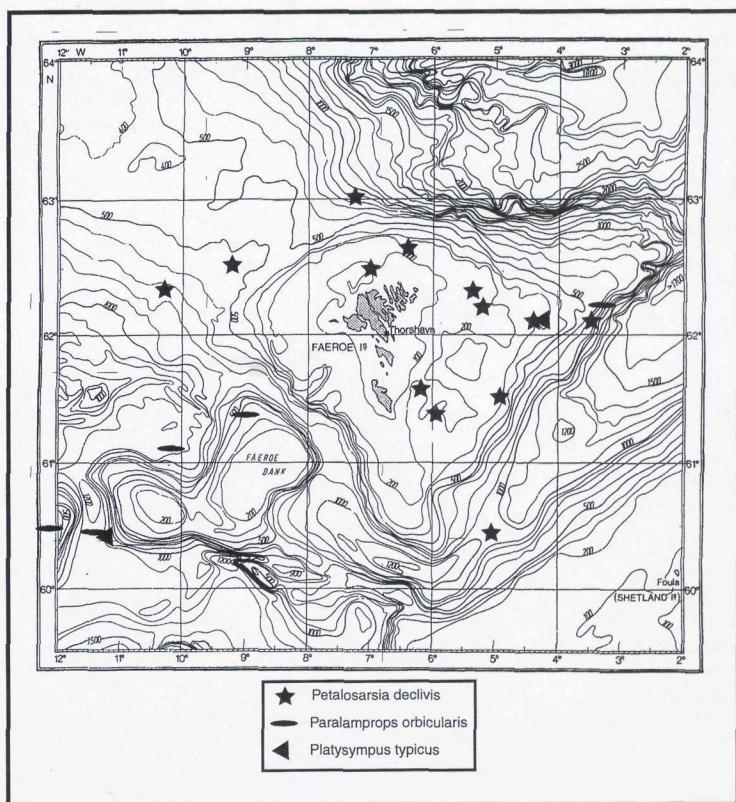


Fig. 2. Records of *Petalosarsia declivis*, *Paralamprops orbicularis*, and *Platysympus typicus* in the Faroe area.

Mynd 2. Skrásetingar av *Petalosarsia declivis*, *Paralamprops orbicularis*, og *Platysympus typicus* í føroyskum øki

Hemilamprops pellucidus Zimmer, 1908

Synonyms: none

Good description: Zimmer (1908); Jones (1963)

Previous records: none

BioFar stations: 736

Depth range: 1157 m

Temperature range: 6.5°C

Water mass: AW

Atlantic distribution: South Atlantic, Antarctic

Atlantic depth distribution: 226-3725 m

271, 274, 275, 295, 355, 356, 357, 381, 382, 409, 410, 411, 417, 421, 422, 424, 425, 452, 458, 459, 473, 478, 482, 496, 500, 501, 502, 506, 518, 519, 522, 689, 690, 692, 693, 705, 729, 730, 731, 9012, 9014

Depth range: 130-1150 m

Temperature range: -0.9-8.8°C

Water mass: All water masses

Atlantic distribution: North-East Atlantic, Arctic

Basin, Norway, Gulf of Gascoigne

Atlantic depth distribution: 110-3000 m

Hemilamprops uniplicatus (Sars, 1872)

(Figs. 1, 5)

Synonyms: *Lamprops uniplicata* Sars (1872)

Good description: Sars (1900)

Previous records: SW of Faroes, 806 m (Hansen, 1920)

BioFar stations: 6, 7, 17, 19, 27, 29, 51, 65, 73, 75, 78, 82, 95, 98, 100, 120, 137, 165, 174, 189, 228, 263,

Genus *Paralamprops* Sars 1887

Paralamprops orbicularis (Calman, 1905)

(Fig. 2)

Synonyms: *Platyaspis orbicularis* Calman (1905);

Platytyphlops orbicularis Stebbing (1912), Hansen (1920)

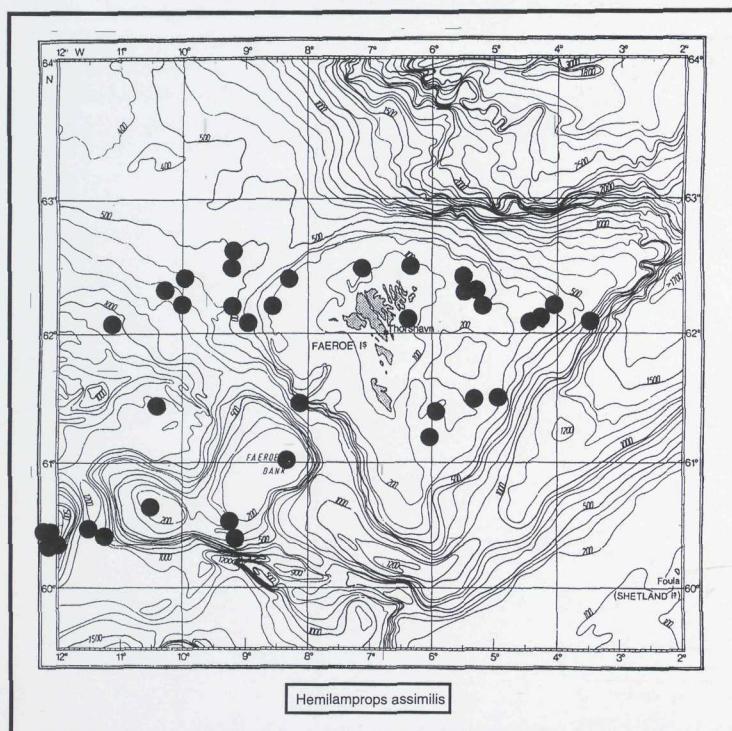


Fig. 3. Records of *Hemilamprops assimilis* in the Faroe area.

Mynd 3. Skrásetingar av *Hemilamprops assimilis* í fóroyskum øki.

Good description: Calman 1905
 Previous records: SW of Faroes, 806 m (Hansen, 1920)
 BioFar stations: 68, 172, 489, 518, 522
 Depth range: 423-1200 m
 Temperature range: 1.0-8.6°C
 Water mass: AI, AW, AW/AI, NW
 Atlantic distribution: North Atlantic, East Coast US to West Coast Ireland
 Atlantic depth distribution: 423-1739 m (depth range extension)

Genus *Platysympus* Stebbing, 1912
Platysympus tricarinatus Hansen, 1920
 (Fig. 6)
 Synonyms: none
 Good description: Hansen, 1920
 Previous records: none
 BioFar stations: 19, 27, 51, 65, 82, 189, 263, 380, 381,

411, 416, 417, 421, 424, 489, 495, 518, 522, 690, 694, 737, 738
 Depth range: 225-1200
 Temperature range: -0.1-9.39°C
 Water mass: All water masses
 Atlantic distribution: Arctic-Boreal, Skagerrak, Spitzbergen
 Atlantic depth distribution: 219-1038 m (depth range extension)

Platysympus typicus (Sars, 1870)

(Fig. 2)

Synonyms: *Platyaspis typica* Sars (1870)

Good description: Sars (1900)

Previous records: none

BioFar stations: 19, 517

Depth range: 276-1090 m

Temperature range: 5.6-6.5°C

Water mass: AW/AI

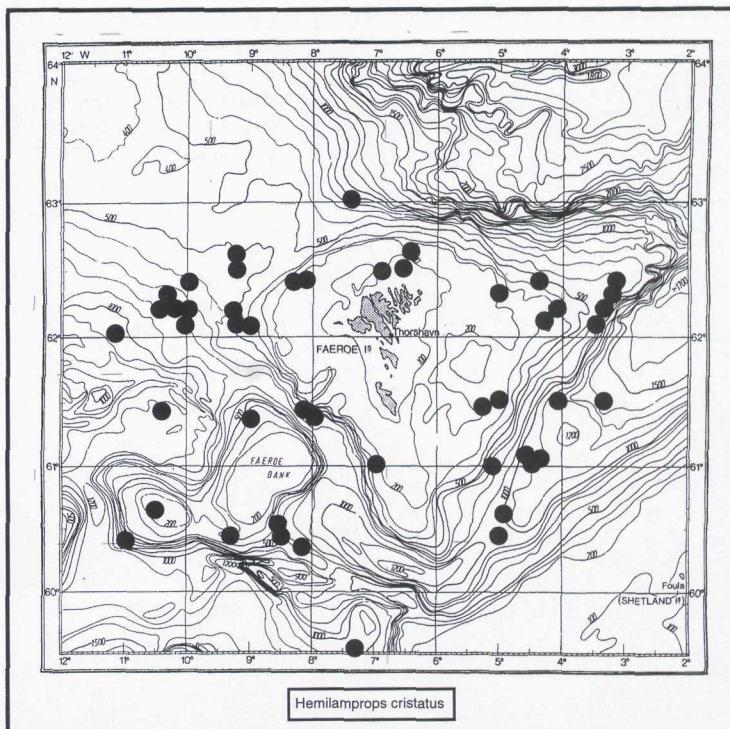


Fig. 4. Records of *Hemilamprops cristatus* in the Faroe area.

Mynd 4. Skrásetingar av *Hemilamprops cristatus* í færøyskum øki.

Atlantic distribution: Atlantic/Mediterranean, Norway, Skagerrak
Atlantic depth distribution: 45-3000 m

Water mass: AW, AW/AI
Atlantic distribution: North Atlantic, East Coast US to Mediterranean
Atlantic depth distribution: 120-5000m

Family BODOTRIIDAE

Genus *Cyclaspis* Sars, 1865

Cyclaspis longicaudata Sars, 1865

(Figs. 1, 7)

Synonyms: none

Good description: Sars (1900)

Previous records: SW of Faroes, 806-937 m (Hansen, 1920)

BioFar stations: 19, 27, 28, 29, 32, 33, 51, 65, 68, 158, 357, 411, 452, 489, 492, 493, 494, 495, 515, 518, 522, 524, 689, 690, 694, 736

Depth range: 170-1200 m

Temperature range: 4.0-9.39°C

Genus *Cyclaspoides* Bonnier, 1896

Cyclaspoides sarsi Bonnier, 1896

Synonyms: none

Good description: Bonnier (1896); Fage (1951)

Previous records: none

BioFar station: 736

Depth range: 1157 m

Temperature range: 6.5°C

Water mass: AW

Atlantic distribution: Gulf of Gascogne

Atlantic depth distribution: 698-4394 m

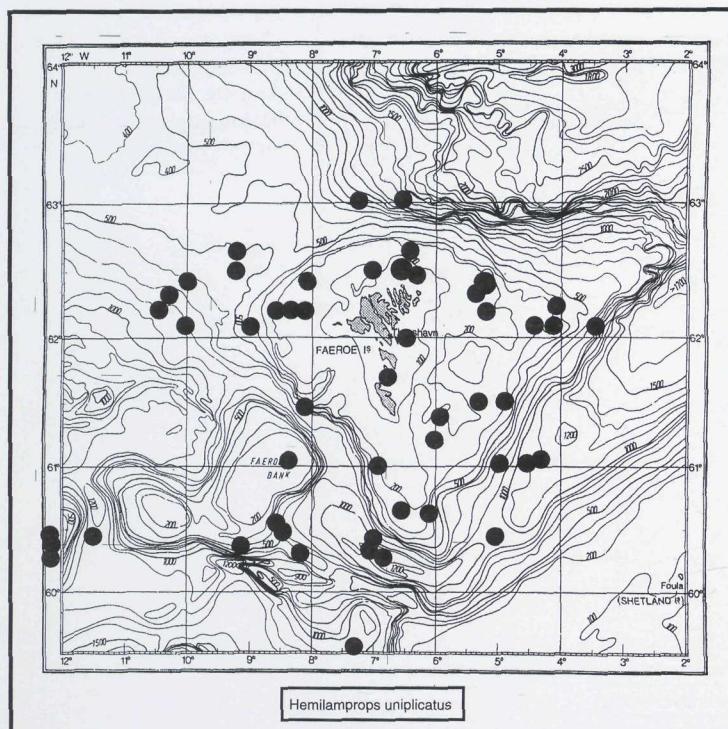


Fig. 5. Records of *Hemilamprops uniplicatus* in the Faroe area.

Mynd 5. Skrásetingar av *Hemilamprops uniplicatus* í fóroyskum øki.

Family NANNASTACIDAE

Genus *Campylaspis* Sars, 1865

Campylaspis affinis Sars, 1870 (Fig. 8)

Synonyms: none

Good description: Sars (1900)

Previous records: none

BioFar stations: 15, 19, 27, 82, 167, 174, 189, 263, 274, 380, 381, 416, 421, 424, 690, 9014

Depth range: 225-1038 m

Temperature range: -0.85-8.6°C

Water mass: All water masses

Atlantic distribution: East Coast US-Gulf of Gascogne, Norway

Atlantic depth distribution: 65-2820 m

Campylaspis alba Hansen, 1920

Synonyms: none

Good description: Hansen (1920)

Previous records: SW of Faroes, 806-937 m (Hansen, 1920)

BioFar station: not found

Depth range: 806-937 m

Temperature range: not applicable, species not collected by BioFar

Water mass: not applicable, species not collected by BioFar

Atlantic distribution: Faroes, Ireland, Gulf of Gascogne, Canary Islands, Mediterranean

Atlantic depth distribution: 463-3548 m

Campylaspis caperata Jones, 1974

Synonyms: none

Good description: Jones (1974)

Previous records: none

BioFar station: 158

Depth range: 322 m

Temperature range: 6.6°C

Water mass: AW/AI

Atlantic distribution: South Atlantic, off Dakar West Africa

Atlantic depth distribution: 322-1796 m (depth range extension)

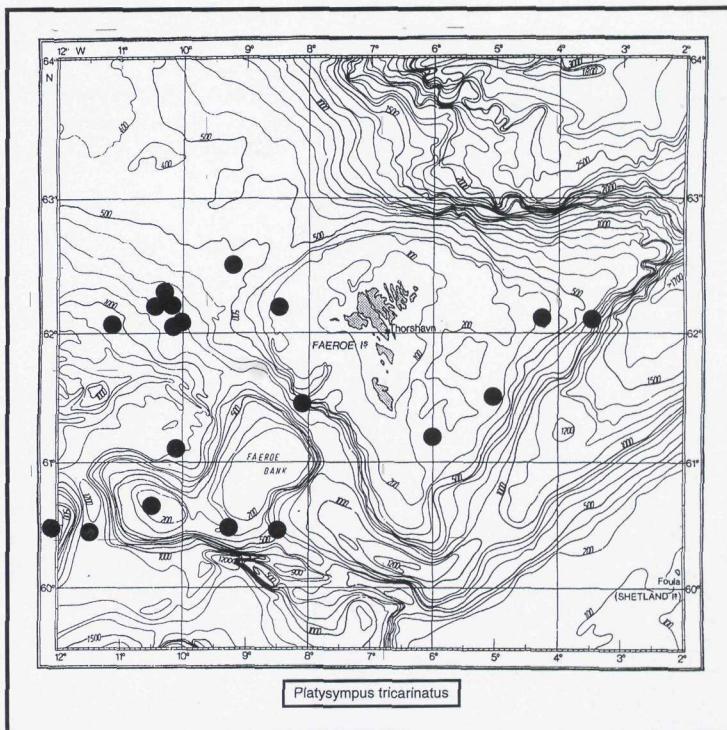


Fig. 6. Records of *Platysympus tricarinatus* in the Faroe area.

Mynd 6. Skrásetingar av *Platysympus tricarinatus* í føroyskum øki.

Campylaspis globosa Hansen, 1920

(Fig. 9)

Synonyms: none

Good description: Hansen (1920)

Previous records: none

BioFar stations: 6, 15, 19, 27, 28, 29, 32, 41, 51, 65, 68, 115, 137, 158, 172, 189, 261, 263, 264, 267, 271, 357, 380, 381, 411, 416, 417, 421, 422, 424, 425, 452, 458, 481, 482, 483, 495, 496, 500, 694, 696, 718, 738

Depth range: 170-1038 m

Temperature range: -0.6-9.39°C

Water mass: All water masses

Atlantic distribution: Davis Strait, Newfoundland, northeastern United States, Norway, West of Ireland, Gulf of Gascogne

Atlantic depth distribution: 170-4413 m (depth range extension)

Campylaspis horrida Sars, 1870

(Figs. 1, 10)

Synonyms: none

Good description: Sars (1900)

Previous records: SW of Faroes 806-937 m (Hansen, 1920)

BioFar stations: 6, 7, 19, 27, 29, 32, 51, 65, 68, 80, 82, 100, 120, 124, 137, 158, 165, 174, 189, 267, 354, 356, 380, 381, 382, 411, 416, 421, 422, 424, 452, 477, 482, 483, 489, 499, 689, 718, 726, 736, 739

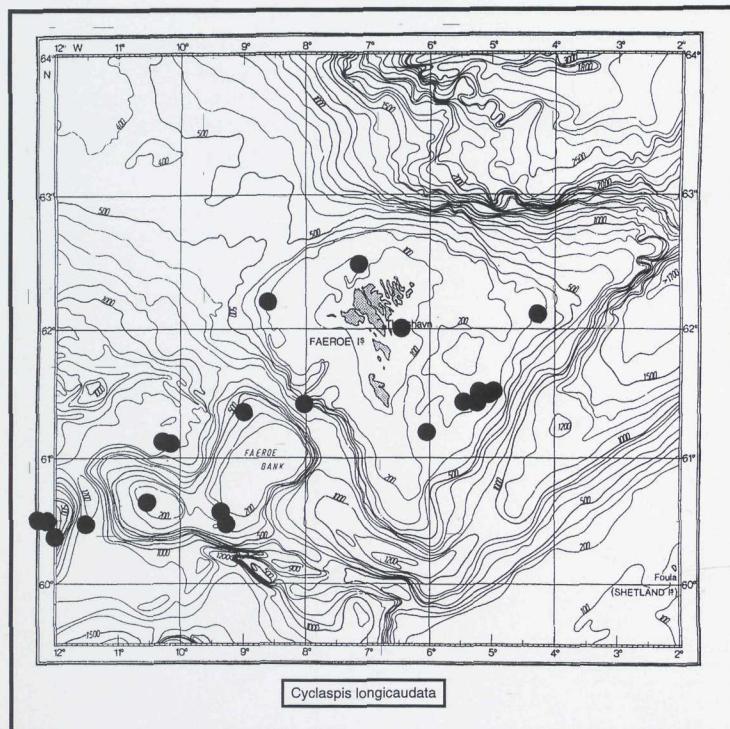
Depth range: 170-1200 m

Temperature range: -0.85-8.8°C

Water mass: All water masses

Atlantic distribution: Boreal Atlantic, Norway, Skagerrak, Iceland

Atlantic depth distribution: 145-1200 m (depth range extension)



*Fig. 7. Records of *Cyclaspis longicaudata* in the Faroe area.*

Mynd 7. Skrásetingar av *Cyclaspis longicaudata* í fóroyskum øki.

Campylaspis horridoides Stephensen, 1915

Synonyms: none

Good description: Stephensen (1915); Jones 1974

Previous records: none

BioFar stations: 690, 694

Depth range: 357-624 m

Temperature range: 1.0-8.6°C

Water mass: AW

Atlantic distribution: Gulf of Gascogne, Mediterranean

Atlantic depth distribution: 357-2447 m (depth range extension)

Campylaspis intermedia Hansen, 1920

(Fig. 8)

Synonyms: *Campylaspis stephensi* Just (1970);

Campylaspis (Sarsia) intermedia Muradian-Ciamician (1980)

Good description: Hansen (1920, although carapace not accurately drawn); Just (1970)

Previous records: none

BioFar stations: 27, 51, 65, 95, 174, 261, 380, 416,

518, 522, 694, 696, 720, 731, 747

Depth range: 225-1319 m

Temperature range: -0.9-8.8°C

Water mass: All water masses

Atlantic distribution: Arctic, Davis Strait, Greenland, Jan Mayen, Gulf of Gascogne, east coast of United States

Atlantic depth distribution: 40-2178 m

Campylaspis laticarpa Hansen, 1920

(Fig. 11)

Synonyms: none

Good description: Hansen (1920)

Previous records: SW of Faroes, 806-937 m (Hansen, 1920)

BioFar stations: 27, 65, 100, 228, 483, 495, 496, 690, 694

Depth range: 225-997 m

Temperature range: -0.62-8.6°C

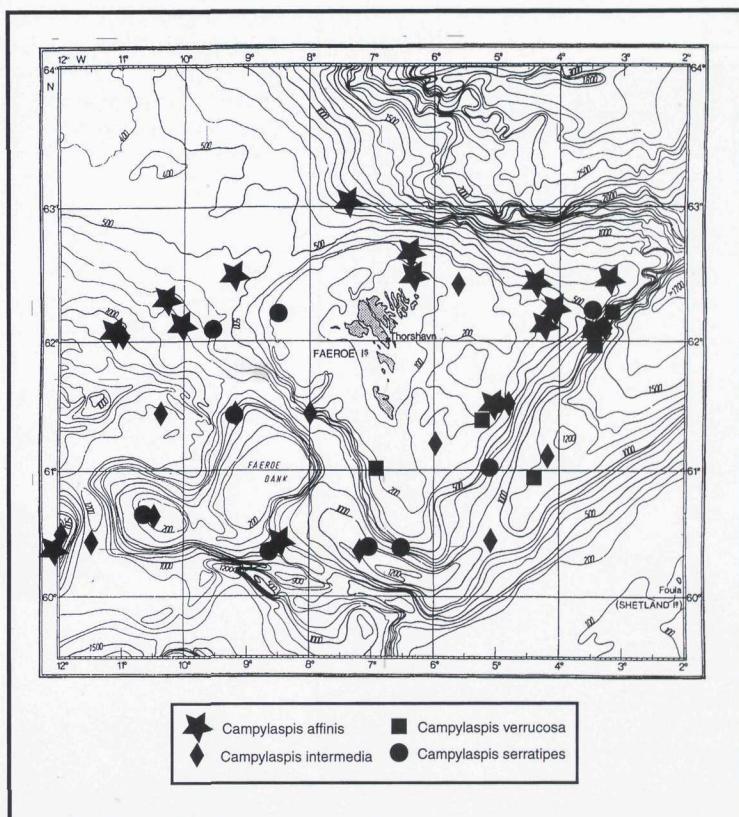


Fig. 8. Records of *Campylaspis affinis*, *C. intermedia*, *C. verrucosa*, and *C. serratipes* in the Faroe area.

Mynd 8. Skrásetingar av *Campylaspis affinis*, *C. intermedia*, *C. verrucosa*, og *C. serratipes* í fóroyskum øki.

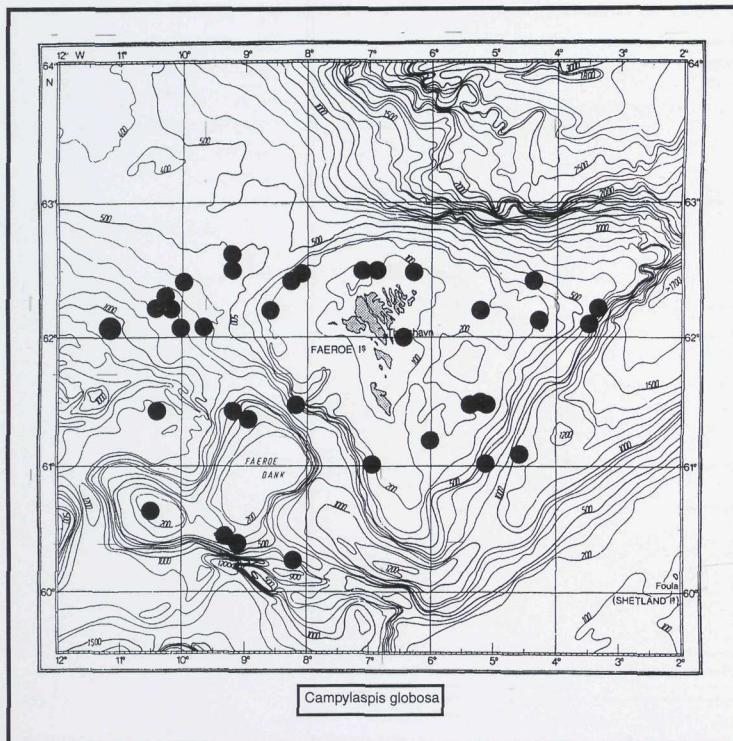


Fig. 9. Records of *Campylaspis globosa* in the Faroe area.

Mynd 9. Skrásetingar av *Campylaspis globosa* í fóroyskum øki.

Calman. As a result, all BioFar records are listed under the name *C. rubicunda*.

Campylaspis serratipes Hansen, 1920

(Fig. 8)

Synonyms: none

Good description: Hansen (1920)

Previous records: none

BioFar stations: 27, 82, 172, 261, 265, 380, 382, 411, 694, 705, 718, 726, 728

Depth range: 225-1038 m

Temperature range: -0.83-8.6°C

Water mass: All water masses

Atlantic distribution: Iceland and Faroes region.

Atlantic depth distribution: 225-1297 m

Campylaspis sulcata Sars, 1870 (Fig. 11)

Synonyms: none

Good description: Sars (1900)

Previous records: none

BioFar stations: 19, 68, 70, 124, 165, 174, 263, 295, 496

Depth range: 184-859 m

Temperature range: 1.0-6.1°C

Water mass: AW, AW/AI, NW/AW/AI

Atlantic distribution: Iceland, Norway, Skagerrak, Gulf of Gascogne, Mediterranean

Atlantic depth distribution: 130-1400 m

Campylaspis undata Sars, 1865 (Fig. 13)

Synonyms: none

Good description: Sars (1900)

Previous records: SW of Faroes, 806-937 m (Hansen, 1920)

BioFar stations: 19, 27, 32, 51, 60, 68, 115, 120, 124, 158, 165, 261, 263, 264, 295, 335, 343, 380, 382, 411, 416, 417, 421, 422, 452, 483, 495, 497, 506, 514, 515, 516, 524, 690, 694, 726, 737, 738, 739, 747

Depth range: 68-1003 m

Temperature range: 1.0-9.39°C

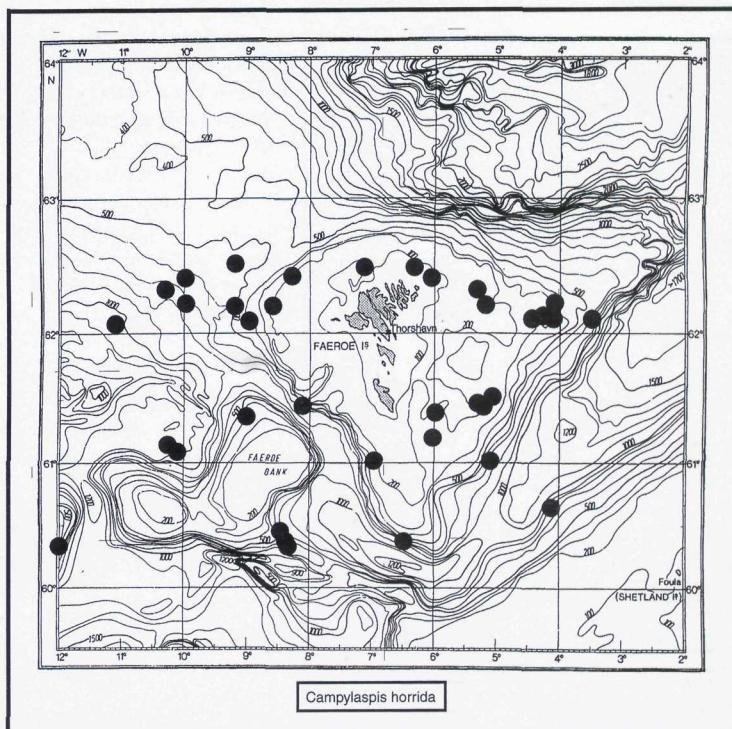


Fig. 10. Records of *Campylaspis horrida* in the Faroe area.

Mynd 10. Skrásetingar av *Campylaspis horrida* í fôroyskum øki.

Water mass: AI, AW, AW/AI, NW/AW/AI
Atlantic distribution: Boreal Atlantic, Norway, Faroes,
Gulf of Gascogne
Atlantic depth distribution: 183-1470 m

Campylaspis verrucosa Sars, 1866

(Fig. 8)

Synonyms: none
Good description: Sars (1900)
Previous records: SW of Faroes, 806-937 m (Hansen,
1920)
BioFar stations: 137, 158, 172, 380, 722
Depth range: 322-918 m
Temperature range: -0.65-6.6°C
Water mass: NW, AW/AI, AI
Atlantic distribution: Faroes, Ireland, Norway,
Skagerrak, Gulf of Gascogne, Mediterranean
Atlantic depth distribution: 100-4125 m

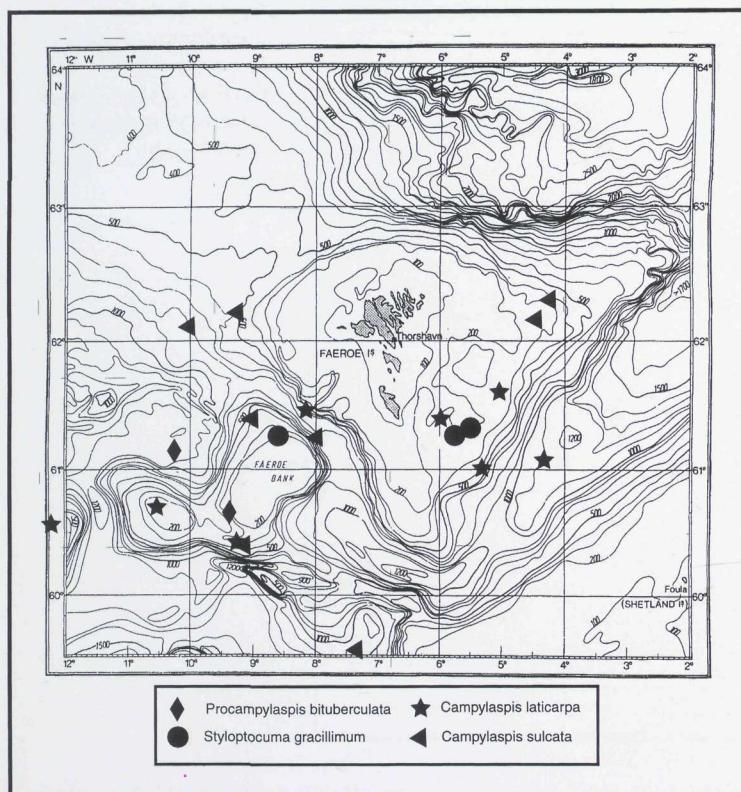
Genus *Cumella* G. O. Sars, 1865

Cumella angustata Jones, 1984

Synonyms: none
Good description: Jones (1984)
Previous records: none
BioFar station: 158
Depth range: 322 m
Temperature range: 6.6°C
Water mass: AW/AI
Atlantic distribution: South Atlantic, Brazil
Atlantic depth distribution: 322-1007 m (depth range
extension)

Cumella decipiens Jones, 1984

Synonyms: none
Good description: Jones (1984)
Previous records: none
BioFar stations: 27, 32
Depth range: 225-354 m
Temperature range: 6.5-7.5°C



Water mass: AW/AI, AW

Atlantic distribution: Gulf of Gascogne, South Atlantic
(Argentina, Surinam)

Atlantic depth distribution: 225-3317 m (depth range
extension)

Cumella tarda Hansen, 1920

Synonyms: none

Good description: Hansen (1920); Jones (1984)

Previous records: SW of Faroes, pelagic haul

BioFar stations: not found

Depth range: not applicable, species not collected by
BioFar

Temperature range: not applicable, species not
collected by BioFar

Water mass: not applicable, species not collected by
BioFar

Atlantic distribution: Faroes, Scotland, Gulf of
Gascogne

Atlantic depth distribution: 860-2900 m (and possibly
in surface plankton).

Genus *Styloptocuma* Băcescu and Muradian, 1974

Styloptocuma gracillimum (Calman, 1905) (Fig. 11)

Synonyms: *Cumella gracillima* Calman (1905); Jones
(1984)

Good description: Calman (1905); Jones (1984)

Previous records: none

BioFar stations: 27, 32, 65, 158

Depth range: 225-322 m

Temperature range: 6.5-7.9°C

Water mass: AW/AI, AW

Atlantic distribution: throughout North Atlantic,
especially on abyssal plains

Atlantic depth distribution: 97-5000 m.

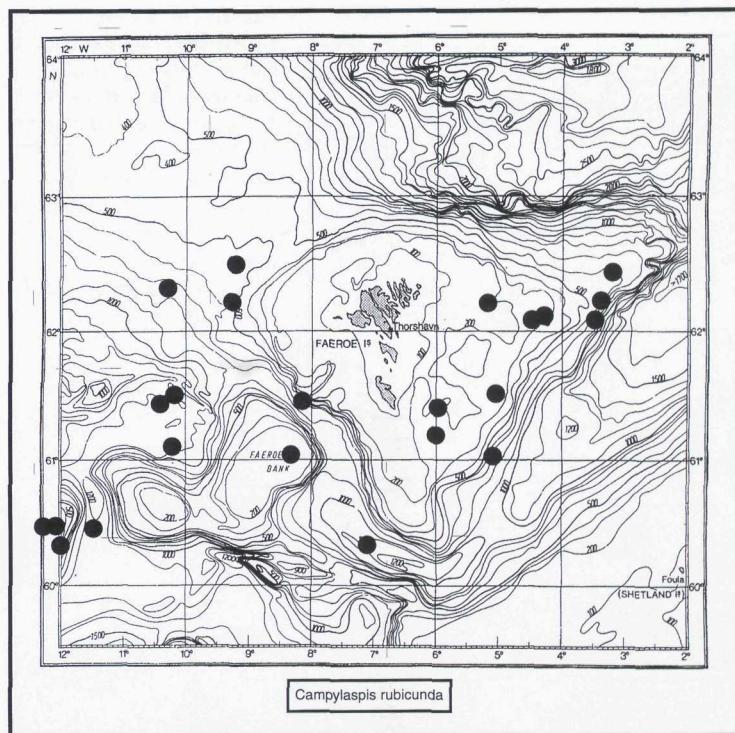


Fig. 12. Records of *Campylaspis rubicunda* in the Faroe area.

Mynd 12. Skrásetingar av *Campylaspis rubicunda* í fóroyskum øki.

Genus *Cumellopsis* Calman, 1905

Cumellopsis helgae Calman (1905)

(Fig. 14)

Synonyms: none

Good description: Calman (1905); Hansen (1920)

Previous records: SW of Faroes, 806-937 m, Hansen (1920)

BioFar stations: 19, 27, 28, 32, 51, 65, 68, 78, 158, 294, 381, 411, 421, 422, 489, 490, 516, 517, 524, 542, 690, 736,

Depth range: 150-1200 m

Temperature range: -0.84-8.6°C

Water mass: All water masses

Atlantic distribution: North Atlantic, east coast United States, Ireland, Gulf of Gascogne

Atlantic depth distribution: 209-4106 m

Genus *Procampylaspis* Bonnier, 1896

Procampylaspis bituberculata Hansen, 1920 (Fig. 11)

Synonyms: none

Good description: Hansen (1920)

Previous records: SW of Faroes, 842-937 m, Hansen (1920)

BioFar stations: 490, 736

Depth range: 1083-1157 m

Temperature range: 6.5°C

Water mass: AW, AW/AI

Atlantic distribution: North-East Atlantic, Faroes, Scotland, Gulf of Gascogne

Atlantic depth distribution: 280-3000 m

Procampylaspis lutensis Jones, 1984

Synonyms: none

Good description: Jones (1984)

Previous records: none

BioFar station: 736

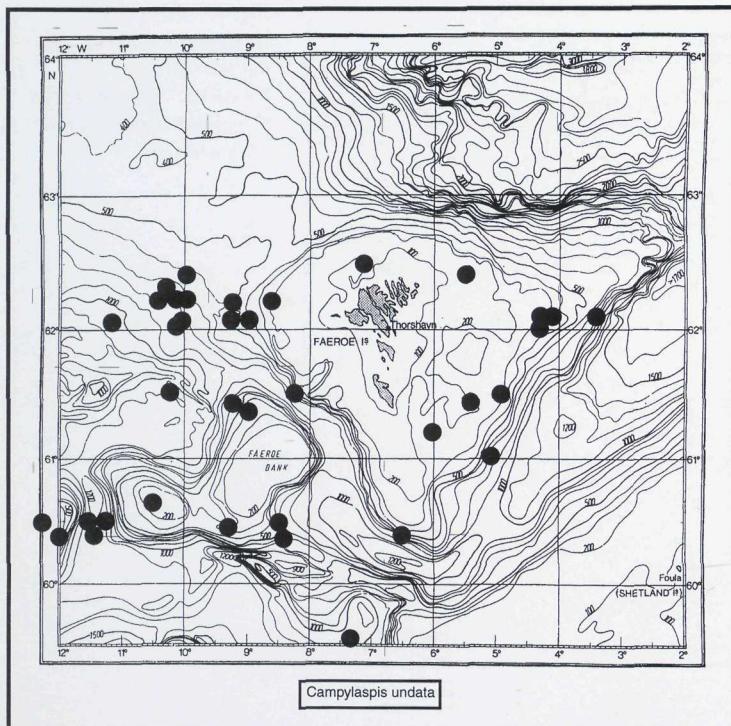


Fig. 13. Records of *Campylaspis undata* in the Faroe area.

Mynd 13. Skrásetingar av *Campylaspis undata* í fóroyskum øki.

Depth range: 1157 m
 Temperature range: 6.5°C
 Water mass: AW
 Atlantic distribution: North Atlantic
 Atlantic depth distribution: 720-4150 m

***Procampylaspis macronyx* Hansen, 1920**

Synonyms: none
 Good description: Hansen (1920)
 Previous records: SW of Faroes, 806-937 m (Hansen, 1920)
 BioFar station: not found
 Depth range: not applicable, species not collected by BioFar
 Temperature range: not applicable, species not collected by BioFar
 Water mass: not applicable, species not collected by BioFar
 Atlantic distribution: Iceland, Faroes, W. Scotland, Gulf of Gascogne.
 Atlantic depth distribution: 806-4715 m

Family LEUCONIDAE

Genus *Eudorella* Norman, 1867 ***Eudorella arctica* Hansen, 1920**

Synonyms: none
 Good description: Hansen (1920)
 Previous records: none
 BioFar stations: 719, 722
 Depth range: 610-918 m
 Temperature range: -0.65-0.1°C
 Water mass: NW, NW/AI
 Atlantic distribution: East Greenland, Arctic (Novosibirsk Bank)
 Atlantic depth distribution: 17-918 m (depth range extension).

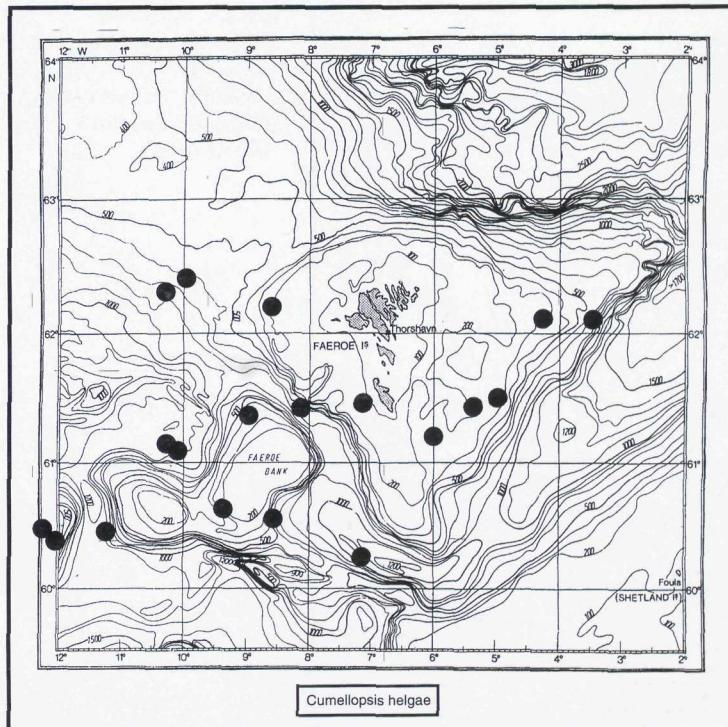


Fig. 14. Records of *Cumellopsis helgae* in the Faroe area.

Mynd 14. Skrásetingar av *Cumellopsis helgae* í fôroyskum øki.

Eudorella emarginata (Krøyer, 1846)

Synonyms: *Leucon emarginatus* Krøyer (1846);

Cyriana ciliata Norman (1863); *Eudora emarginata* Sars (1865)

Good description: Sars (1900)

Previous records: from Tórshavn Harbor (Hansen, 1920); Vágssjørður, Funningsfjørður (Stephensen, 1929)

BioFar stations: 366, 542

Depth range: 75-200 m

Temperature range: 7.9-8.1°C

Water mass: AW

Atlantic distribution: Circum-Arctic, Boreal Atlantic

Atlantic depth distribution: 0-2000 m

Eudorella hispida Sars, 1871

Synonyms: none

Good description: Sars (1871); Hansen (1920)

Previous records: none

BioFar station: 608

Depth range: 65 m

Temperature range: 7.7°C

Water mass: AW

Atlantic distribution: Arctic, Boreal Atlantic, east coast

United States, Davis Strait, West Ireland

Atlantic depth distribution: 2-1096 m

Eudorella intermedia Hansen, 1920

Synonyms: none

Good description: Hansen (1920)

Previous records: none

BioFar station: 127, 168

Depth range: 58-899 m

Temperature range: -0.66-7.6°C

Water mass: NW, AW

Atlantic distribution: North Atlantic, Davis Strait,

Greenland, Gulf of Gascogne

Atlantic depth distribution: 899-5000 m (depth range extension)

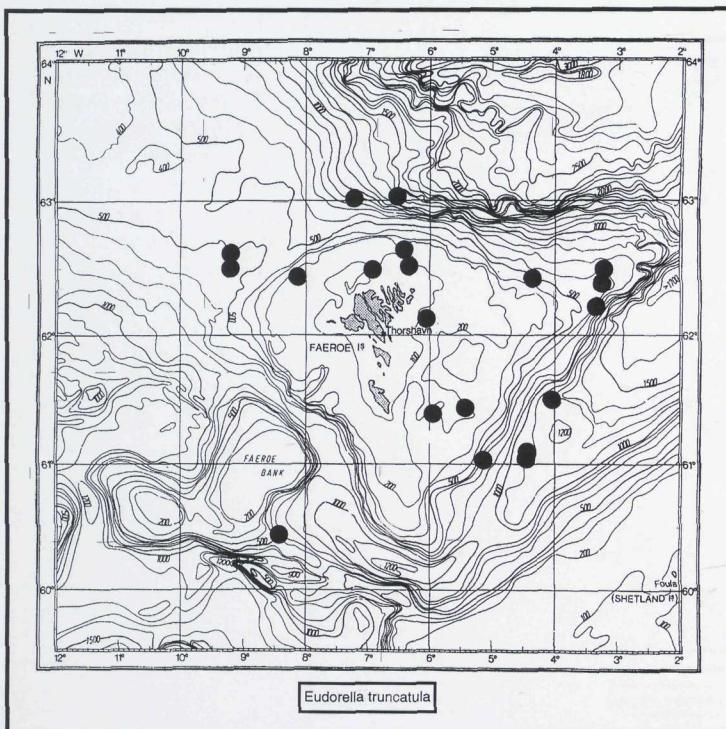


Fig. 15. Records of *Eudorella truncatula* in the Faroe area.

Mynd 15. Skrásetingar av *Eudorella truncatula* fóroyskum øki.

Eudorella pusilla Sars, 1871

Synonyms: none

Good description: Sars (1871)

Previous records: none

BioFar station: 95

Depth range: 803 m

Temperature range: -0.6°C

Water mass: NW

Atlantic distribution: east coast United States

Atlantic depth distribution: 2-803 m (depth range extension)

Eudorella truncatula (Bate, 1856)

(Fig. 15)

Synonyms: *Eudora truncatula* Bate (1856)

Good description: Sars (1900)

Previous records: none

BioFar stations: 15, 32, 41, 82, 100, 167, 168, 169, 170, 171, 172, 188, 228, 271, 274, 275, 361, 424, 425, 458, 478, 480, 481, 610, 720, 9012, 9014

Depth range: 90-1032 m

Temperature range: -0.85-8.0°C

Water mass: AW, AI, NW, AW/AI

Atlantic distribution: Boreal Atlantic, East and West

Atlantic depth distribution: 0-2826 m

Genus *Eudorellopsis* Sars, 1883

Eudorellopsis deformis (Krøyer, 1846)

Synonym: *Leucon deformis* Krøyer (1846)

Good description: Sars (1900)

Previous records: Trongisvágsfjørður, Borðoyarvík (Stephensen, 1929)

BioFar stations: not found

Depth range: not applicable, species not collected by BioFar

Temperature range: not applicable, species not collected by BioFar

Water mass: not applicable, species not collected by BioFar

Atlantic distribution: Boreal Atlantic, east coast United States, Greenland, Iceland, Norway, British Isles, Denmark.

Atlantic depth distribution: 15-271 m m

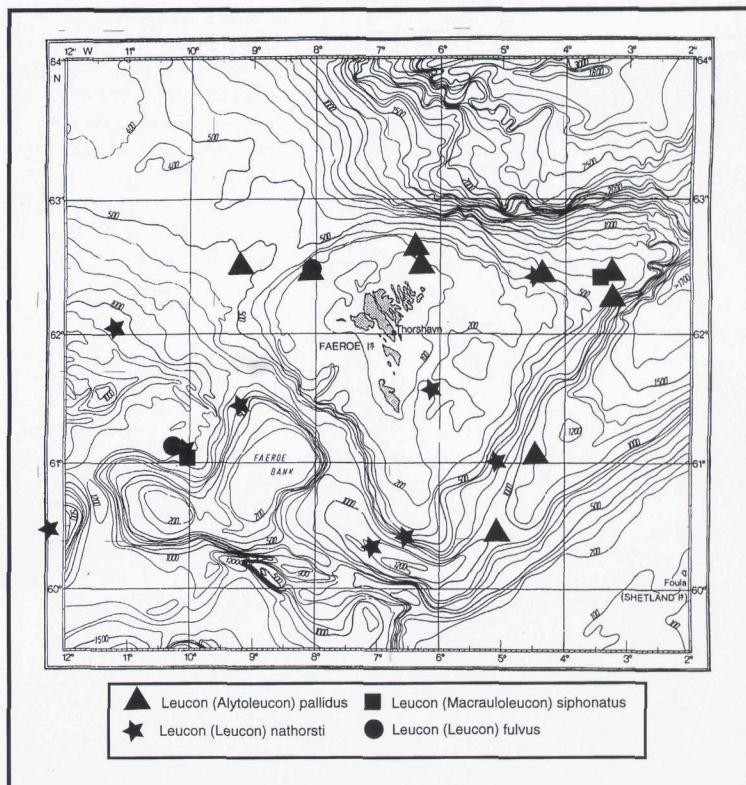


Fig. 16. Records of *Leucon (Alytoleucon) pallidus*, *Leucon (Leucon) nathorsti*, *Leucon (Leucon) fulvus*, and *Leucon (Macrauloleucon) siphonatus* in the Faroe area.
Mynd 16. Skrásetingar av *Leucon (Alytoleucon) pallidus*, *Leucon (Leucon) nathorsti*, *Leucon (Leucon) fulvus*, og *Leucon (Macrauloleucon) siphonatus* í fóroyskum øki.

Genus *Leucon* Krøyer, 1846

Leucon (Alytoleucon) pallidus Sars, 1865

(Figs. 1, 16)

Synonyms: none

Good description: Sars (1900)

Previous records: none

BioFar stations: 15, 41, 95, 167, 168, 169, 170, 171, 172, 188, 271, 424, 478, 720, 9014

Depth range: 507-1032 m

Temperature range: -0.85-1.5°C

Water mass: AI, NW

Atlantic distribution: Arctic, Boreal Atlantic, Norway, Denmark, Greenland, N. Canada

Atlantic depth distribution: 9-2560 m

Leucon (Crymoleucon) norrevangi Watling and Gerken, 1999 (Fig. 17)

Synonyms: none

Good description: Watling and Gerken (1999)

Previous records: none

BioFar stations: 10, 82, 95, 137, 263, 274, 294, 380, 381, 411, 415, 416, 417, 421, 422, 424, 458, 500, 501, 502, 696, 730, 738, 9014

Depth range: 402-1319 m

Temperature range: -0.9-6.0°C

Water mass: NW, AI, AW/AI, NW/AW/AI

Atlantic distribution: Faroe Island region

Atlantic depth distribution: 402-1319 m

Leucon (Epileucon) longirostris Sars, 1871

Synonyms: *Epileucon longirostris* Bishop (1981)

Good description: Sars (1871); Bishop (1981)

Previous records: none

BioFar station: 736

Depth range: 1157 m

Temperature range: 6.5°C

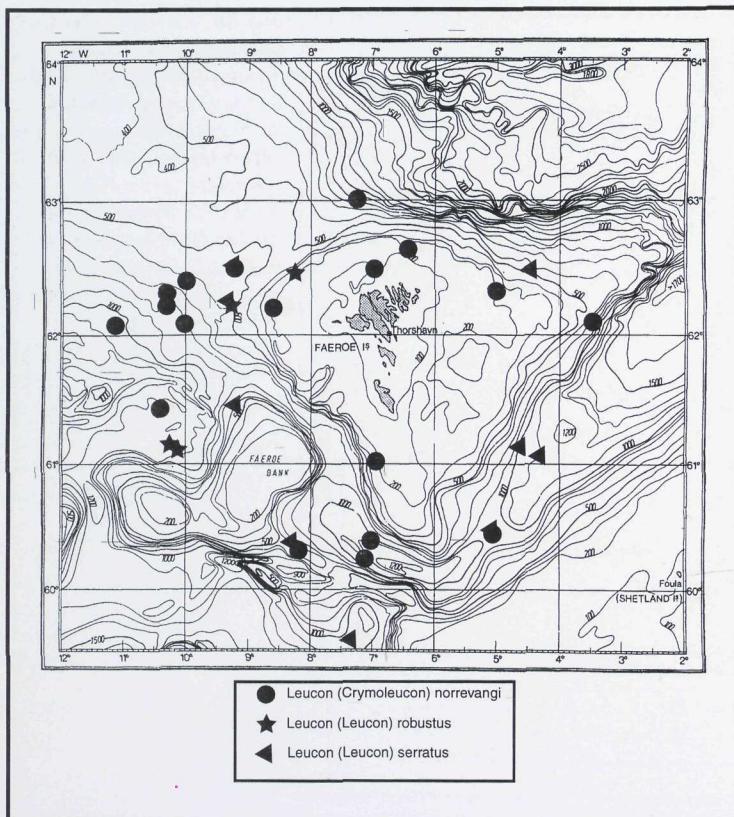


Fig. 17. Records of *Leucon (Crymoleucon) norrevangi*, *Leucon (Leucon) robustus*, and *Leucon (Leucon) serratus* in the Faroe area.
Mynd 17. Skrásetingar av *Leucon (Crymoleucon) norrevangi*, *Leucon (Leucon) robustus*, og *Leucon (Leucon) serratus* í fóroyiskum øki.

Water mass: AW

Atlantic distribution: Greenland, Mediterranean, Gulf of Gascogne, western Africa, South Africa, east coast United States

Atlantic depth distribution: 200-4360 m

Leucon (Epileucon) tenuirostris Sars, 1887

Synonyms: *Epileucon tenuirostris* Bishop (1981)

Good description: Sars (1887); Bishop (1981)

Previous records: none

BioFar station: 489

Depth range: 1200 m

Temperature range: 4.0°C

Water mass: AW/AI

Atlantic distribution: Gulf of Gascogne, South Atlantic (Surinam to Argentina), Angola.

Atlantic depth distribution: 1200-4980 m (depth range extension)

Leucon (Leucon) acutirostris Sars, 1865

Synonyms: none

Good description: Sars (1900)

Previous records: none

BioFar station: 274

Depth range: 698 m

Temperature range: -0.6°C

Water mass: NW

Atlantic distribution: Arctic-Boreal, Norway, Denmark, Greenland, north and eastern Canada
 Atlantic depth distribution: 18-1096 m

Leucon (Leucon) fulvus Sars, 1865 (Fig. 16)

Synonyms: none

Good description: Sars (1900)

Previous records: none

BioFar stations: 270, 736

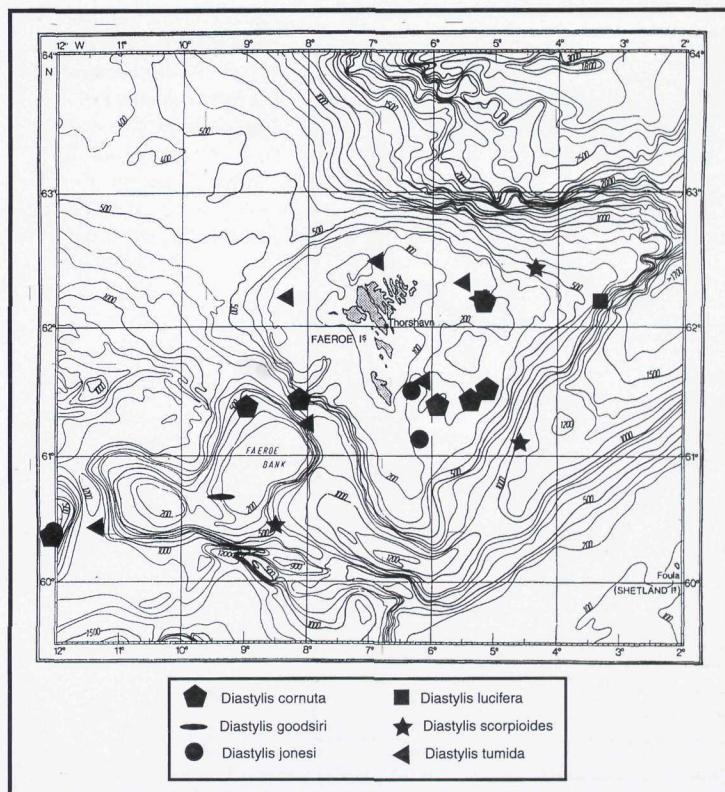


Fig. 18. Records of *Diastylis cornuta*, *D. goodsiri*, *D. jonesi*, *D. lucifera*, *D. scorpoides*, and *D. tumida* in the Faroe area.

Mynd 18. Skrásetingar av *Diastylis cornuta*, *D. goodsiri*, *D. jonesi*, *D. lucifera*, *D. scorpoides*, og *D. tumida* í føroyskum øki.

Depth range: 570-1157 m
 Temperature range: 0.9-6.5°C
 Water mass: AW, NW/AI
 Atlantic distribution: Arctic, Norway, Iceland, Greenland, northern and eastern Canada
 Atlantic depth distribution: 9-2258 m

Leucon (Leucon) nathorsti Ohlin, 1901
 (Fig. 16)

Synonyms: *Leucon nasicoides* (Zimmer, 1900);
 Good description: Hansen (1920); Zimmer (1980)
 Previous records: none
 BioFar stations: 15, 261, 408, 416, 489, 524, 718, 728,
 731
 Depth range: 110-1200 m
 Temperature range: -0.5-8.2°C
 Water mass: All water masses
 Atlantic distribution: Arctic, Boreal, Jan Mayen, Greenland, Canada, United States east coast

Atlantic depth distribution: 18-1200 m (depth range extension)

***Leucon (Leucon) robustus* Hansen, 1920**
 (Fig. 17)

Synonyms: none
 Good description: Hansen (1920)
 Previous records: none
 BioFar stations: 124, 267, 271, 489, 739
 Depth range: 498-1200 m
 Temperature range: 1.2-4.0°C
 Water mass: AI, AW/AI
 Atlantic distribution: Davis Strait, Greenland, Gulf of Gascoigne
 Atlantic depth distribution: 498-2624 m (depth range extension)

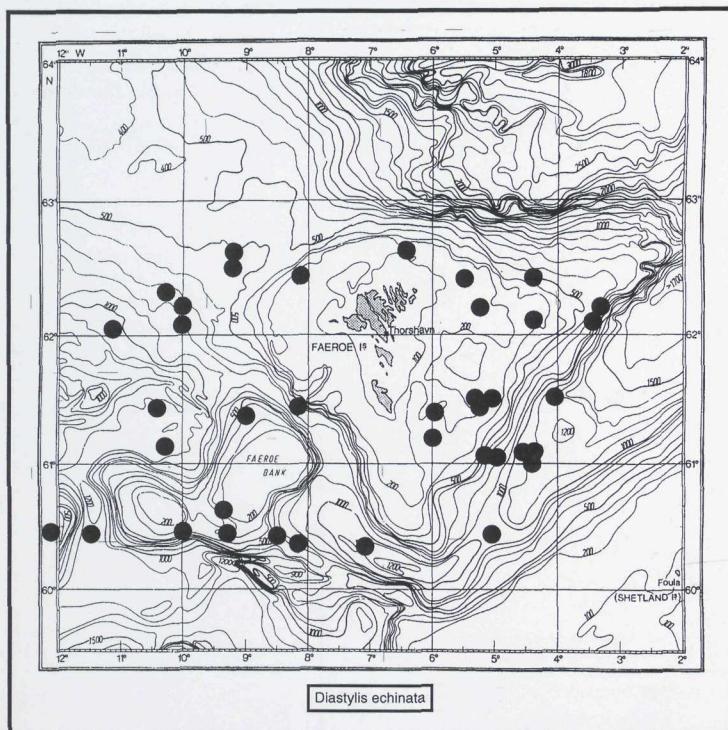


Fig. 19. Records of *Diastylis echinata* in the Faroe area.
Mynd 19. Skrásetingar av *Diastylis echinata* í fóroyskum øki.

Leucon (Leucon) serratus Norman, 1879

(Fig. 17)

Synonyms: none

Good description: Hansen (1920)

Previous records: none

BioFar stations: 15, 41, 95, 124, 227, 261, 295, 424, 501

Depth range: 300-1098 m

Temperature range: -0.85-7.8°C

Water mass: All water masses

Atlantic distribution: Greenland, Davis Strait

Atlantic depth distribution: 300-3200 m (depth range extension)

Leucon (Macrauloleucon) siphonatus

Calman, 1905 (Fig. 16)

Synonyms: none

Good description: Calman (1905); Hansen (1920)

Previous records: none

BioFar stations: 168, 489

Depth range: 899-1200 m

Temperature range: -0.66-4.0°C

Water mass: NW, AW/AI

Atlantic distribution: Iceland, Ireland, Gulf of Gascogne, Mediterranean

Atlantic depth distribution: 100-4380 m

Family DIASTYLIDAE

Genus *Diastylis* Say, 1818

Diastylis cornuta (Boeck, 1864) (Fig. 18)

Synonyms: *Diastylis bispinosa* (Sars, 1865); *Diastylis processifera* Stephensen (1915); *Diastylis capreensis* Calman (1906); *Diastylis stebbingi* Stephensen (1915)

Good description: Sars (1900)

Previous records: none

BioFar stations: 6, 27, 29, 32, 65, 68, 100, 158, 689, 690

Depth range: 170-600 m

Temperature range: 6.5-8.8°C

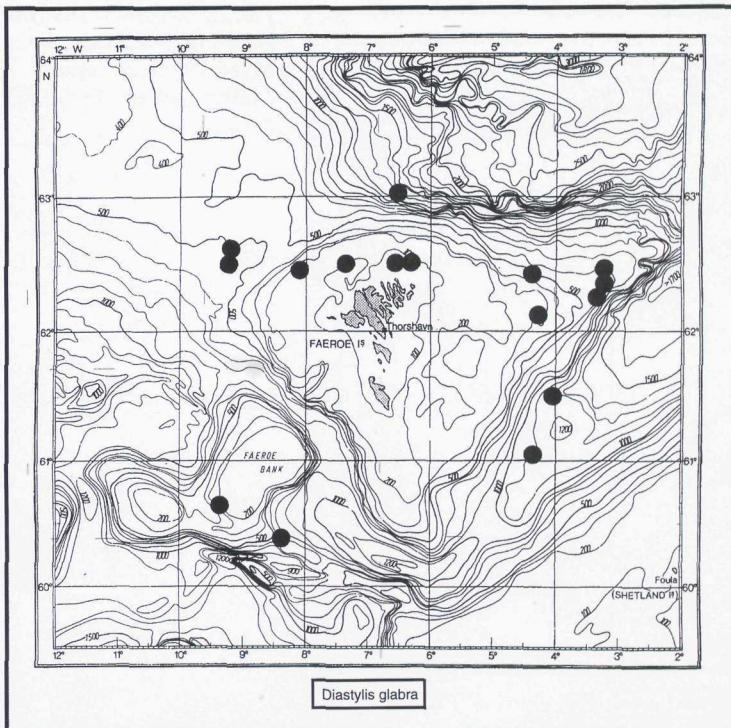


Fig. 20. Records of *Diastylis glabra* in the Faroe area.

Mynd 20. Skrásetingar av *Diastylis glabra* í føroyskum øki.

Water mass: AW/AI, AW

Atlantic distribution: North-East Atlantic, Norway,

Europe, Shetland Islands, Portugal, Mediterranean

Atlantic depth distribution: 20-2700 m

Diastylis echinata Bate, 1865 (Figs. 1, 19)

Synonyms: none

Good description: Sars (1900)

Previous records: SW of Faroes, 806-937 m (Hansen, 1920)

BioFar stations: 6, 15, 19, 27, 29, 41, 51, 65, 68, 82, 95, 100, 110, 158, 165, 172, 227, 228, 263, 271, 361, 380, 381, 416, 421, 424, 425, 481, 490, 492, 495, 501, 518, 522, 690, 696, 719, 720, 722, 731, 736, 739, 747, 9014

Depth range: 32-1319 m

Temperature range: -0.9-8.6°C

Water mass: All water masses

Atlantic distribution: Arctic, Norway, Skagerrak, British Isles, Ireland, Davis Strait

Atlantic depth distribution: 32-1319 m (depth range extension)

Diastylis glabra Zimmer, 1900 (Fig. 20)

Synonyms: *Diastylis rathkii glabra* Zimmer (1900)

Good description: Zimmer (1926)

Previous records: none

BioFar stations: 15, 19, 167, 168, 169, 170, 171, 188, 228, 271, 361, 424, 425, 447, 459, 490, 497, 9012

Depth range: 276-1083 m

Temperature range: -0.85-8.3°C

Water mass: All water masses

Atlantic distribution: Circum-Arctic, northern and eastern Canada, Bering Sea.

Atlantic depth distribution: 5-1083 m (depth range extension)

Remarks: In this study we have chosen not to apportion specimens among the subspecies of *D. glabra* and, further, consider *D. glabra* to be distinct from *D. rathkii*. There seems to be no evidence of the presence of *D. rathkii* in the Faroes.

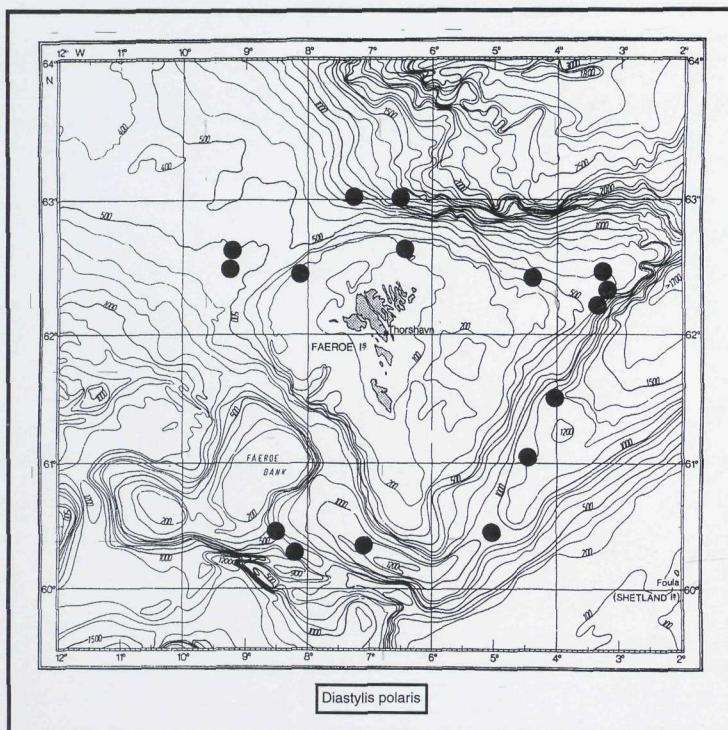


Fig. 21. Records of *Diastylis polaris* in the Faroe area.

Mynd 21. Skrásetingar av *Diastylis polaris* í fóroyskum øki.

Diastylis goodsiri (Bell, 1855) (Fig. 18)

Synonyms: *Alauna Goodsiri* Bell (1855); *Diastylis plumosa* M. Sars (1859)

Good description: Hansen (1887); Sars (1900)

Previous records: none

BioFar stations: 6, 490

Depth range: 231-1083 m

Temperature range: 6.5-7.5°C

Water mass: AW/AI, AW

Atlantic distribution: Arctic Canada, Iceland, Greenland, Norway, Arctic Europe

Atlantic depth distribution: 9-1083 m (depth range extension)

Water mass: AI, AW, AW/AI, NW/AW/AI

Atlantic distribution: western Mediterranean

Atlantic depth distribution: 100-2699 m (depth range extension)

Diastylis lucifera (Krøyer, 1841) (Fig. 18)

Synonyms: *Cuma lucifera* Krøyer (1841)

Good description: Sars (1900)

Previous records: none

BioFar stations: 6, 172

Depth range: 231-507 m

Temperature range: 1.0-7.5°C

Water mass: AW, NW

Atlantic distribution: Barents Sea to Kattegat, North Sea, Davis Strait, Arctic Canada, Gulf of Maine

Atlantic depth distribution: 15-800 m

Diastylis jonesi Reyss, 1972 (Fig. 18)

Synonyms: none

Good description: Reyss (1972)

Previous records: none

BioFar stations: 56, 110, 690

Depth range: 100-859 m

Temperature range: 1.0-8.6°C

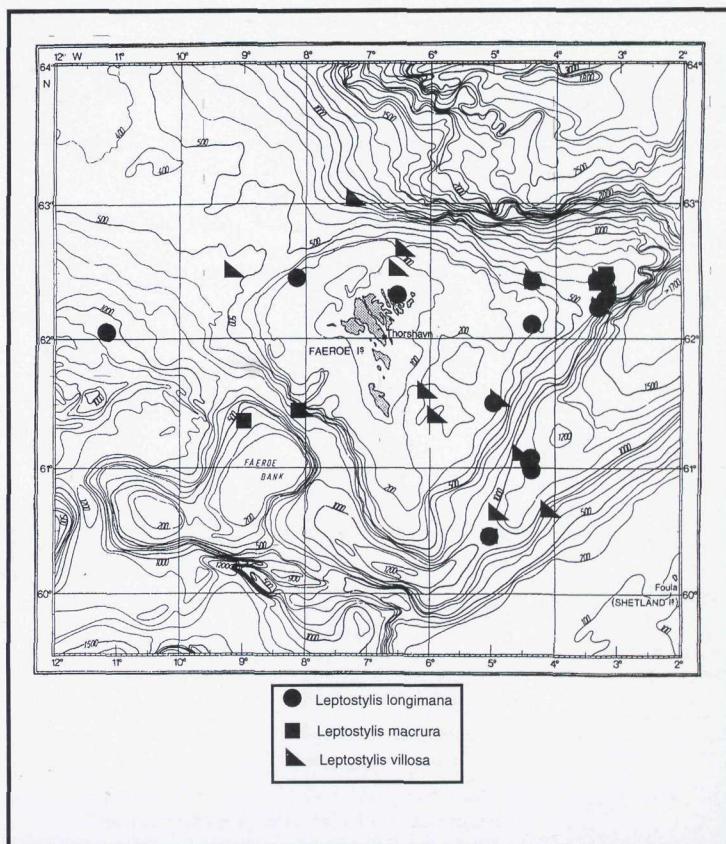


Fig. 22. Records of *Leptostylis longimana*, *L. macrura*, and *L. villosa* in the Faroe area.

Mynd 22. Skrásetingar av *Leptostylis longimana*, *L. macrura*, og *L. villosa* í fóroyskum øki.

Diastylis polaris Sars, 1871 (Fig. 21)

Synonyms: none

Good description: Sars (1871)

Previous records: N of Faroes, 1277 m (Hansen, 1920)

BioFar stations: 15, 82, 95, 167, 168, 169, 170, 171, 172, 271, 274, 275, 361, 424, 425, 500, 721, 731, 9012, 9014

Depth range: 509-1042 m

Temperature range: -0.9-2.2°C

Water mass: AI, NW

Atlantic distribution: Davis Strait, Jan Mayen, Norway, Spitzbergen

Atlantic depth distribution: 419-2800 m

Diastylis scorpioides (Lepechin, 1780)

(Fig. 18)

Synonyms: *Oniscus scorpioides* Lepechin (1780)

Good description: Stappers (1911); Stebbing (1913)

Previous records: none

BioFar stations: 15, 41, 82

Depth range: 683-780 m

Temperature range: -0.6-0.1°C

Water mass: NW

Atlantic distribution: Northern Canada, Greenland, Iceland, Spitzbergen, Arctic Europe.

Atlantic depth distribution: 5-198 m (depth range extension)

***Diastylis stygia* Sars, 1871**

Synonyms: none

Good description: Sars (1887)

Previous records: none

BioFar station: 361

Depth range: 509 m

Temperature range: -0.6°C

Water mass: NW

Atlantic distribution: eastern coast of North America,
Greenland, Iceland, Spitzbergen, Norway
Atlantic depth distribution: 509-3316 m (depth range
extension)

***Diastylis tumida* (Liljeborg, 1855)**

(Fig. 18)

Synonyms: *Cuma tumida* Liljeborg (1855)

Good description: Sars (1900)

Previous records: none

BioFar stations: 6, 7, 70, 355, 408, 410, 458, 517, 518

Depth range: 110-1099 m

Temperature range: -0.57-8.6°C

Water mass: AW, AW/AI, NW

Atlantic distribution: Faroes, North-East Atlantic,
Norway, British Isles, Gulf of Gascogne (range
extension westward).

Atlantic depth distribution: 26-1380 m

Genus *Diastyloides* Sars 1900***Diastyloides scaber* Hansen, 1920**Synonyms: *Diastylis scabra* Hansen (1920)

Good description: Hansen (1920)

Previous records: SW of Faroes, 806 m (Hansen, 1920)

BioFar stations: 27, 29, 32, 51, 65, 100, 158, 165

Depth range: 170-354 m

Temperature range: 6.5-7.9°C

Water mass: AW, AW/AI,

Atlantic distribution: Faroe Islands region

Atlantic depth distribution: 170-810 m (depth range
extension)

Genus *Leptostylis* Sars, 1869***Leptostylis ampullacea* (Liljeborg, 1855)**Synonyms: *Diastylis ampullacea* Sars (1865)

Good description: Sars (1900)

Previous records: NW Kalsoy, 113 m (Stephensen,
1929)

BioFar stations: not found

Depth range: not applicable, species not collected by
BioFar

Temperature range: not applicable, species not
collected by BioFar

Water mass: not applicable, species not collected by
BioFar

Atlantic distribution: Gulf of Maine, Canadian Arctic,
Iceland, Norway, White Sea, British Isles,
Skagerrak.

Atlantic depth distribution: 11-3000 m

***Leptostylis longimana* (Sars, 1865)**

(Fig. 22)

Synonyms: *Diastylis longimana* Sars (1865)

Good description: Sars (1900)

Previous records: NW of Faroes, 857-1277 m (Hansen,
1920)

BioFar stations: 15, 27, 95, 165, 167, 168, 169, 170,
172, 192, 228, 271, 416, 720, 722

Depth range: 184-1038 m

Temperature range: -0.65-7.9°C

Water mass: AW, AI, NW, AW/AI

Atlantic distribution: Arctic, North Atlantic, Davis
Strait, east coast of Canada and United States,
Greenland, Faroes, Iceland, Norway, Denmark,
Gulf of Gascogne

Atlantic depth distribution: 6-2378 m

***Leptostylis macrura* Sars, 1870 (Fig. 22)**

Synonyms: none

Good description: Sars (1900)

Previous records: none

BioFar stations: 15, 65, 68, 95, 167, 168, 169, 170,
171, 172, 478

Depth range: 322-1032 m

Temperature range: -0.8-8.1°C

Water mass: AW, NW

Atlantic distribution: Arctic Basin, Norway,
Spitzbergen, Gulf of Gascogne

Atlantic depth distribution: 73-2378 m

***Leptostylis villosa* Sars, 1869 (Fig. 22)**

Synonyms: none

Good description: Sars (1900)

Previous records: NW of Faroes, 857 m (Hansen, 1920)

BioFar stations: 15, 27, 41, 65, 100, 168, 172, 274, 408, 424, 459, 477, 480, 9014

Depth range: 110-1150 m

Temperature range: -0.85-8.2°C

Water mass: AI, AW, NW, AW/AI

Atlantic distribution: Circum-Arctic, Davis Strait, Canada, Skagerrak, Denmark, Norway
Atlantic depth distribution: 9-1150 m (depth range extension)

Genus *Makrokylinndrus* Stebbing, 1912***Makrokylinndrus josephinae* (Sars, 1871)**

Synonyms: *Diastylis josephinae* Sars (1871)

Good description: Sars (1871)

Previous records: SW of Faroes, 842-937 m (Hansen, 1920)

BioFar stations: 295, 489

Depth range: 655-1200 m

Temperature range: 4.0-7.8°C

Water mass: AW/AI, AW

Atlantic distribution: Faroes, Ireland, Shetland Islands, Gulf of Gascogne, Azores, Canary Islands

Atlantic depth distribution: 229-2670 m

***Makrokylinndrus longipes* (Sars, 1871)**

Synonyms: *Diastylis longipes* Sars (1871), *Adiastylis longipes* Stebbing (1912)

Good description: Sars (1871); Stebbing (1913)

Previous records: none

BioFar station: 295

Depth range: 655 m

Temperature range: 7.8°C

Water mass: AW

Atlantic distribution: North Atlantic, Scotland, Gulf of Gascogne, Portugal, Mediterranean, Canary Islands

Atlantic depth distribution: 360-4009 m

***Makrokylinndrus longicaudata* (Bonnier, 1896):**

Synonyms: *Leptostylis longicaudata* Bonnier (1896);

Diastylis longicaudata Hansen (1920)

Good description: Bonnier (1896); Hansen (1920)

Previous records: SW of Faroes, 842-937 m (Hansen, 1920)

BioFar station: not found

Depth range: not applicable, species not collected by BioFar

Temperature range: not applicable, species not collected by BioFar

Water mass: not applicable, species not collected by BioFar

Atlantic distribution: northeastern United States, Faroes, Gulf of Gascogne

Atlantic depth distribution: 650-3806 m

***Makrokylinndrus spiniventris* Hansen, 1920:**

Synonyms: none

Good description: Hansen (1920)

Previous records: SW of Faroes, 842-937 m (Hansen, 1920)

BioFar station: not found

Depth range: not applicable, species not collected by BioFar

Temperature range: not applicable, species not collected by BioFar

Water mass: not applicable, species not collected by BioFar

Atlantic distribution: Faroes, Gulf of Gascogne

Atlantic depth distribution: 842-937 m

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