

# British Columbia Marine Faunistic Survey Report on the Hydrozoa: Part I. Medusae

by Anita Brinckmann-Voss

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TECHNICAL REPORT NO. 492

BRITISH COLUMBIA MARINE FAUNISTIC SURVEY  
REPORT ON THE HYDROZOA: PART I. MEDUSAE

ERRATA, 1975

Page 5, line 5: Delete "all."

Page 7, lines 6 and 7: Amend "Pochella" to read "Polchella."

Department of the Environment  
Fisheries and Marine Service  
Research and Development Directorate

Ministère de l'Environnement  
Service des Pêches et des Sciences de la mer  
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avec le rapport numéro 457)

BRITISH COLUMBIA MARINE FAUNISTIC SURVEY REPORT ON THE HYDROZOA

PART I. MEDUSAE

by

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This is the 226<sup>th</sup> Technical Report  
from the Pacific Biological Station  
Nanaimo, British Columbia

October 1974

This is the fourth  
Technical Report dealing with the eastern Pacific  
fauna collected by the Pacific Biological Station

Previous reports

- Bernard, F. 1967. Prodrome for a distributional check-list and bibliography of the recent marine mollusca of the west coast of Canada. Fish. Res. Board Can. Tech. Rep. 2: 261 p.
- Bernard, F. 1971. British Columbia marine faunistic survey report on the Brachiopoda. Fish Res. Board Can. Tech. Rep. 268: 10 p.
- Austin, W. C., and M. P. Haylock. 1973. British Columbia marine faunistic survey report: Ophinroids from the northeastern Pacific. Fish. Res. Board Can. Tech. Rep. 426: 36 p.

Brinckmann-Voss, Anita. 1974. British Columbia marine faunistic survey report on the Hydrozoa: Part I. Medusae. Fish. Mar. Ser. Res. Dev. Tech. Rep. 492: 21 p.

#### ABSTRACT

This report identifies and lists the medusae collected from 1912 to 1974 by the Pacific Biological Station.

#### RÉSUMÉ

Dans le présent document, les méduses recueillies de 1912 à 1974 par la station biologique du Pacifique sont identifiées et une liste en est dressée.

## INTRODUCTION

The medusae listed in this report are from the collections of the Pacific Biological Station at Nanaimo. In the greater part taken prior to 1930, this material reflects a picture of the hydromedusan fauna of Vancouver Island at that time. It would be extremely significant to compare this old material to contemporaneous collections, particularly as the group is a sensitive indicator of environmental changes, and is represented both in the plankton and benthos.

This first report is concerned with medusae and lists the specimens arranged systematically. The accession numbers and collecting stations are placed after the identifications. Stations marked with an asterisk proved to be interesting locations either because of the number of different species collected, or because of the many families represented. As the approach to taxonomy has changed considerably during the last decades, one is much more aware of variability and hesitant to assign specific names, particularly in the case of nearly related species. Therefore a number of species in this report are only identified to genus; for example in the "Sarsia" and "Leuckartiara" groups.

This study was undertaken at the invitation of the Pacific Biological Station. I wish to thank Dr. M. N. Arai for the preliminary sorting of the lots and preparation of the Station listing.

ORDER SIPHONOPHORA

[Excluded are Chondrophoridae, which belong to the Anthomedusae.]

Genus Diphyes (?)

Diphyes appendiculata 102, 107

Siphonophora inc. sed. 105, 106, 205

ORDER ANTHOMEDUSAE

FAMILY CORYMORPHIDAE

Genus Euphysa

[Speciation in Euphysa is not clear between the two "species" japonica and flammea; provisionally the species are here referred to E. japonica.]

Euphysa japonica 55, 56, 57, 58, 59,  
208, 224, 230

FAMILY CHONDROPHORIDAE

Genus Velella

Velella velella 108, 109, 110, 111,  
112

FAMILY CORYNIDAE

Genus Sarsia

[The different species of Sarsia occurring in these collections are nearly impossible to distinguish, nor are their so called "specific" characters constant. Around Vancouver Island are three different forms: (1) 0.8-1 cm high "round" exumbrella; (2) 0.4-0.8 cm high "round" exumbrella; (3) 0.8-1.5 cm conical exumbrella. (1) and (2) may be assigned to the former Sarsia tubulosa, however they may be two different species. (3) was previously known as Sarsia princeps. However, one constantly finds intermediate forms of 1-3. Therefore all specimens will be referred to here as Sarsia sp.]

Sarsia sp. 39, 40, 41, 42, 43,  
44, 45, 46, 47, 48,  
49, 50, 51, 52, 53,  
54, 63, 64, 65, 151,  
225, 233, 240, 244,  
248



FAMILY BOUGAINVILLIIDAE

Genus Bougainvillia

<u>Bougainvillia</u> <u>superciliaris</u>	99
<u>Bougainvillia</u> <u>multitentacula</u>	100

Genus Rathkea

<u>Rathkea</u> <u>octopunctata</u>	80, 81, 83, 84
[= <u>R. blumenbachii</u> ]	

FAMILY PANDEIDAE

Genus Catablema

<u>Catablema</u> <u>vesicaria</u>	101
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Genus Halitholus

<u>Halitholus</u> <u>pelagica</u>	85, 243
[= <u>Neoturris pelagica</u> ]	

<u>Halitholus</u> sp.	75, 76, 77
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Genus Leuckartiara

<u>Leuckartiara</u> <u>nobilis</u>	72
<u>Leuckartiara</u> <u>octona</u>	74, 78, 79
<u>Leuckartiara</u> sp.	118, 123, 249

Genus Neoturris

<u>Neoturris</u> sp. probably <u>Neoturris pileata</u>	73
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[These specimens have been identified formerly and figured as Leuckartiara brevicornis.]

<u>Neoturris</u> <u>pileata</u>	86, 88
<u>Neoturris</u> sp.	87

Genus Stomatoca

<u>Stomatoca</u> <u>atra</u>	66, 69, 70, 71, 118
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Stomatoca inc. sedis

Anthemedusae probably <u>Pandeidae</u>	228
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FAMILY POLYORCHIDAE

Genus Polyorchis

[Species of the genus Polyorchis may be developmental stages of only 1 species. All the specimens in this collection are therefore all referred here to Polyorchis sp.]

<u>Polyorchis</u> sp.	151, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 226, 227, 232
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ORDER LEPTEMEDUSAE

FAMILY MELICERTIDAE

Genus Melicertum

<u>Melicertum octocostatum</u>	198, 199, 200, 201, 202, 239
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FAMILY LAODICEIDAE

Genus Staurophora

<u>Staurophora</u> sp.	169
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FAMILY MITROCOMIDAE

Genus Cosmetirella

<u>Cosmetirella davisi</u>	246
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Genus Halistaura

<u>Halistaura cellularia</u>	118, 119, 120, 131, 132, 133, 134, 135, 136, 137, 139, 140, 140, 141, 142, 143, 144, 145, 146, 235, 250
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Genus Mitrocoma

<u>Mitrocoma discoidea</u>	166
<u>Mitrocoma sinosa</u>	167

FAMILY CAMPANULARIIDAE

Genus Obelia

Obelia sp. 168

Genus Phialidium

Phialidium gregarium 148, 151, 152, 153,  
154, 155, 156, 157,  
158, 159

Phialidium languidum 160, 161, 162, 164,  
165, 217, 227

FAMILY EUTIMIDAE

Genus Eutonina

Eutonina indicans 68, 147, 149, 150,  
206, 207, 208, 209,  
210, 213, 245, 251

Eutimidae inc. sedis 138

FAMILY AEQUORIIDAE

Genus Aequorea

Aequorea

[As it is not known whether A. victoria is distinct  
from A. forskalea all specimens from this collection  
are referred to A. forskalea.]

Aequorea forskalea 114, 115, 116, 117,  
126, 127, 128, 129,  
130

Leptomedusae inc. sedis 219

Leptomedusae 257

ORDER LIMNOMEDUSAE

FAMILY OLINDIDAE

Genus Eperemetus

Eperemetus typus 29, 30, 31, 32, 33,  
33a, 34, 35, 36,  
128, 204, 241, 247,  
247A

Genus Gonionemus

Gonionemus vertens

22, 23, 24, 25, 26,  
27, 28, 56, 238

FAMILY PROBOSCIDACTYLIDAE

Genus Proboscidactyla

Proboscidactyla flavicirrata

90, 91, 92, 93, 94,  
95, 96, 97, 98, 157,  
229

Genus Pochella

Pochella polynema

89

ORDER TRACHYMEDUSAE

FAMILY RHOPALONEMATIDAE

Genus Aglantha

Aglantha digitale

1, 4, 8, 9, 10, 11,  
12, 13, 14, 15, 16,  
17, 18, 20, 21, 203,  
222, 225, 257, 258,  
259

ORDER NARCOMEDUSAE

FAMILY AEGINIDAE

Genus Aegina

Aegina citrea

2, 2a, 3, 5, 6, 7

FAMILY CUNINIDAE

Genus Solmissus

Solmissus sp.

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STATION LIST AND LOT IDENTIFICATIONS

1. Aglantha digitale. Poor shape; no data.
2. Aegina citrea. Stn. 1767; Active Pass (off Strait of Georgia S.E. of Galiano Island); 2 April 1929.
3. Aegina citrea. Knight Inlet; Stn. 654; 13/3/28.
4. Aglantha digitale. Stn. 1(1719); 23.3.29; Central deep basin Strait of Georgia; vertical haul to 200 fm.
5. Two Aegina citrea. Probably two remnants of Eutonina indicans; 310 Nootka (west coast Vancouver Island); 9-8-27.
6. Aegina citrea. Off Berry Point. Berry Point is local name for Orlebar Point, N. end of Gabriola Island; 10 fm; November 7, 1918.
7. Aegina citrea. Poorly preserved; N. of Five Fingers Island; 40 fm; June 25, 1915.
8. Aglantha sp. Stn. 3505-Z2, (Presumably in Queen Charlotte Islands.)
9. Aglantha digitale. Departure Bay; June 1927.
10. Aglantha digitale. Two miles NE of Five Fingers Island; November 25, 1918, vertical tow to 100 fm; ident. R. E. Foerster.
11. Aglantha digitale. One mile NE of Five Fingers Island; 28/5/17; vertical two to 100 fm; ident. R. E. Foerster.
12. Aglantha digitale. NE of Five Fingers Island; 40 fm; June 23, 1915; ident. R. E. Foerster.
13. Aglantha digitale. Two miles NE of Five Fingers Island; vertical tow; 100 fm; November 26, 1918; ident. R. E. Foerster.
14. Aglantha digitale. Brandon Island (Departure Bay); May 28, 1912; ident. R. E. Foerster.
15. Aglantha digitale. N. of Entrance Island (Strait of Georgia, NE of Gabriola Island); 200 fm; July 13, 1915; ident. R. E. Foerster.
16. Aglantha digitale. In plankton net (locality?); 200-0 fm; July 10, 1915; ident. R. E. Foerster.
17. Aglantha digitale. Black Rock (local name for Inskip Rd., Departure Bay); April 9, 1912; ident. R. E. Foerster.
18. Aglantha digitale. Off Berry Pt. (i.e. Orlebar Point, N. end of Gabriola Island); 10-0 fm; 7/11/19; ident. R. E. Foerster.

19. Aglantha digitale. Tod Inlet (Tod Inlet is E. side of Saanich Inlet, S. of Brentwood Bay); August 25, 1921; ident. R. E. Foerster.
20. Aglantha digitale. E. of Newcastle Island (Strait of Georgia, just S. of entrance to Departure Bay); April 28, 1914; ident. R. E. Foerster).
21. Aglantha digitale. Lock Bay (on NE shore of Gabriola Island, Strait of Georgia); June 21, 1921; ident. R. E. Foerster.
22. Gonionemus vertens. In urchin trap (probably Departure Bay); May 15, 1912; ident. R. E. Foerster.
23. Gonionemus vertens. Tod Inlet (off Saanich Inlet); 25/8/21; ident. R. E. Foerster.
24. Gonionemus vertens. Hammond Bay (small bay on coast of Vancouver Island just N. of Departure Bay); June 9, 1912; ident. R. E. Foerster.
25. Gonionemus vertens. Station float (Departure Bay); May 28, 1912; ident. R. E. Foerster.
26. Gonionemus vertens + 1 Polyorchis sp. Limestone Island (at float) Quatsino (NW coast Vancouver Island); 12/9/28; 1047; ident. R. E. Foerster.
27. Gonionemus vertens. 28/6/30; William Head (SW of Victoria, at SE point of Parry Bay).
28. Gonionemus vertens. May 9, 1919; Mudge Island (between Gabriola Island and Vancouver Island at the E. end of Northumberland Channel).
29. Eperetmus typus. Dodds Narrows (at E. end of Northumberland Channel); 7/6/16; ident. R. E. Foerster.
30. Eperetmus typus. Black Rock (Departure Bay); January 27, 1913; ident. R. E. Foerster.
31. Eperetmus typus. Off station float (Departure Bay); February 17, 1913; ident. R. E. Foerster.
32. Eperetmus typus. In plankton Northumberland Channel; 12/6/16; ident. R. E. Foerster.
33. Eperetmus typus. Black Rock (i.e. Inskip Rock, Departure Bay); February 15, 1914.
34. Eperetmus typus. Jesse Island (Departure Bay); November 9, 1913.
35. Eperetmus typus. In dredge, Stn. 13; July 5, 1912 (Station 13, 1912 was in Pylades Channel, i.e., between Valdes Island and De Courcy Group of Islands, SE of Nanaimo); ident. R. E. Foerster.
36. Eperetmus typus. Ident. R. E. Foerster. No collecting data.

37. Eutonina indicans. Stn. 1784; Kulleet Bay (NE of Ladysmith Harbour, Vancouver Island); 4/4/29; (5 fm).
38. Sarsia sp. Stn. 1894; Kulleet Bay (as above); 3 May 1929; (surface).
39. Sarsia sp. + Pochella polynema + Eperemetus typus. Stn. 356; Ucluelet (west of Vancouver Island, NW of Barkley Sound); 21.5.27; (Mill Creek, Ucluelet, near bottom - 3 fm +).
40. Sarsia sp. Stn. 256; Kyuquot (Kyuquot Sound is on NW coast of Vancouver Island); 19/4/27.
41. Sarsia sp. Bank Island (between Hecate Strait and Principe Channel, E. of the Queen Charlotte Islands); 10/7/16.
42. Sarsia sp. Black Rock (i.e. Inskip Rock, Departure Bay); surface; June 15, 1921.
43. Sarsia sp. Black Rock (see above); surface, April 9, 1912.
44. Sarsia sp. Bull Harbour (S. side of Hope Island, off Goletas Channel, N. end of Vancouver Island); September 2, 1915.
45. Sarsia sp. In plankton below surface; 12/4/15.
46. Sarsia sp. Jesse Island (Departure Bay); May 27, 1912.
47. Sarsia sp. Off float (Biological Station, Departure Bay); May 16, 1913.
48. Sarsia sp. Newcastle Island (i.e. in or near Departure Bay); surface tow; May 25, 1917.
49. Sarsia sp. Dodds Narrows (at E. end of Northumberland Channel SE of Nanaimo); 7/6/16.
50. Sarsia sp. S. of Dodds Narrows (i.e. in Stuart Channel); plankton near surface; May 31, 1916.
51. Sarsia sp. Snake Island (Georgia Strait, off Departure Bay); May 7, 1917.
52. Sarsia sp. N. of Brandon Island (Departure Bay); July 3, 1912.
53. Sarsia sp. N. of Brandon Island (Departure Bay); May 27, 1912.
54. Sarsia sp. In plankton, Northumberland Channel (SE of Nanaimo); 9/5/1917.
55. Euphysa japonica. Deep Cove (this is unfortunately an ambiguous location - there is a Deep Cove off Saanich Inlet near Victoria and one off Indian Arm near Vancouver); 24 m; 23/4/29.
56. Euphysa japonica. Northumberland Channel (SE of Nanaimo); May 11, 1917;

57. Euphysa japonica. Five Fingers Island (Strait of Georgia off Departure Bay); Nov. 25, 1918.
58. Euphysa japonica. NE of Five Fingers Island (Strait of Georgia, off Departure Bay); 50-0 fm; August 27, 1921.
59. Euphysa japonica. Mittelnacht (probably misspelling of Mitlenatch Island, SE of Quadra Island, at N. end of Strait of Georgia); Stn. 1547; 16/1/29; (to 100 fm).
60. Euphysa japonica. Plankton; 200-0 fm; July 10, 1915.
61. Euphysa japonica. Banks Island; July 10, 1916.
62. Euphysa japonica. Jesse Island (Departure Bay); May 27, 1912.
63. Sarsia sp. Dodds Narrows (at E. end of Northumberland Channel); June 7, 1916.
64. Sarsia sp. Brandon Island (Departure Bay); 4/7/21.
65. Sarsia sp. Black Rock (i.e. Inskip Rock, Departure Bay); 15/6/21.
66. Stomatoca atra. Stn. 2126; no date (from station # approx. 1932); Kyuquot (Sound on NW coast of Vancouver Island); ident. R. E. Foerster.
67. Stomatoca atra. Ikeda Bay (presumably Ikeda Cove, E. coast of Moresby Island, S. of Collison Bay, in the Queen Charlotte Islands); July 14, 1916; ident. R. E. Foerster.
68. Eutonina indicans. Quatsino, Inka Mines (Quatsino Sound is on the NW coast of Vancouver Island; Inka Mines is not listed in the B.C. Gazetteer); Stn. 1045; (12 July 1928; 5 fm down; Williamson's notebook lists this as Quatsino, SE Arm, Yreka Mine but Yreka is not in B.C. Gazetteer either).
69. Stomatoca atra. Brandon Island (Departure Bay); 28/5/12; ident. R. E. Foerster.
70. Stomatoca atra. Jesse Island (Departure Bay); surface; May 7, 1912; ident. R. E. Foerster.
71. Stomatoca atra. Laredo Channel (Lardeo Channel, between Princess Royal and Aristazabal Island, near mainland opposite Queen Charlotte Islands); June 30, 1916; ident. R. E. Foerster.
72. Leuckartiara nobilis. Lorida Channel (see location #71); June 30, 1916; ident. R. E. Foerster.
73. Neoturris sp. probably pileata. Loredo Channel (see location #71); June 30, 1916.
74. Leuckartiara octona. Off float (Biological Station, Departure Bay); April 25/15; ident. R. E. Foerster.



75. Halitholus sp. In plankton off entrance of Departure Bay; 13/7/18;  
Ident. R. E. Foerster.
76. Halitholus sp. Jesse Island (Departure Bay); 16/7/21; ident.  
R. E. Foerster.
77. Halitholus sp. Jesse Island (Departure Bay); May 27/21; ident.  
R. E. Foerster.
78. Leuckartiara octona. Dodds Narrows (SE end of Northumberland Channel);  
June 17/16; ident. R. E. Foerster.
79. Leuckartiara octona. Black Rock (i.e. Inskip Rock, Departure Bay);  
June 11/12; ident. R. E. Foerster.
80. Rathkea octopunctata. Black Rock (Departure Bay); April 9/12.
81. Rathkea octopunctata. Float (Biological Station, Departure Bay);  
April 22/17.
82. Not identified. Vial empty. Northumberland Channel, May 11, 1919;  
ident. Rathkea R. E. Foerster.
83. Rathkea octopunctata. In plankton (no other location data); April 12/1913.
84. Rathkea octopunctata. Departure Bay; May 25/14; Medusa bud developed.
85. Halitholus pelagica. Departure Bay; 28/6/18.
86. Neoturris pileata. Departure Bay; 21/4/15; ident. R. E. Foerster.
87. Neoturris sp. Berry Pt. (see #6 for location); November 7/18.
88. Neoturris pileata. Jesse Island (Departure Bay); May 23/12; ident.  
R. E. Foerster.
89. Pochella polynema. Jesse Island; May 23/12; ident. R. E. Foerster.
90. Proboscidactyla flavicirrata. Round Island (in Stuart Channel, S. of  
Mudge Island, i.e. SE of Nanaimo); 65 fm; 5/7/21; ident.  
R. E. Foerster.
91. Proboscidactyla flavicirrata. N. of Five Fingers Island (Strait of  
Georgia off Departure Bay); June 25/15; ident. R. E. Foerster.
92. Proboscidactyla flavicirrata. Berry Point; August 2/16; ident.  
R. E. Foerster.
93. Proboscidactyla flavicirrata. Off Berry Point; November 7/18; ident.  
R. E. Foerster.
94. Proboscidactyla flavicirrata. Dodds Narrows (E. end Northumberland  
Channel); June 7/16; ident. R. E. Foerster.
95. Proboscidactyla flavicirrata. Dodds Narrows; September 9/21; ident.  
R. E. Foerster.

96. Proboscidactyla flavicirrata. Brandon Island (Departure Bay); 11/6/12; ident. R. E. Foerster.
97. Proboscidactyla flavicirrata. Brandon Island; 4/7/21, ident. R. E. Foerster.
98. Proboscidactyla flavicirrata. Five Fingers (Island off Departure Bay); November 25, 1918; ident. R. E. Foerster.
99. Bougainvillea superciliaris. Float (Biological Station, Departure Bay); April 25/15; ident. R. E. Foerster.
100. Bougainvillea multitentaculata. Near float (Biological Station, Departure Bay); surface; May 29/12, ident. R. E. Foerster.
101. Catablema vesicaria. At float (Biological Station, Departure Bay); April 21, 15; ident. R. E. Foerster.
102. Diphyes appendiculata. Stn. 1303; Active Pass (SE of Galiano Island); 9/11/28; ident. R. E. Foerster.
103. Could not be identified. NE Five Fingers Island (off Departure Bay); 200 fm; Sept. 4, 1921; from collection of R. E. Foerster.
104. Not identified. Quatsino (Sound; NW coast Vancouver Island); Stn. 252; 20/7/27; from collection of R. E. Foerster.
105. Siphonophore. Plankton between Snake and Jesse Islands (mouth of Departure Bay); 13/6/21; from collection of R. E. Foerster.
106. Siphonophora and squashed medusa. Stn. 573; #1; 28/2/28. (Station #1 was in deep water of Strait of Georgia off Departure Bay; vertical haul 200 fm to surface.)
107. Diphyes appendiculata. Kingcome Inlet (north of Gilford Island, i.e., running into the mainland opposite the north shore of Vancouver Island); 10/3/28; Stn. 658.
108. Velella velella. Monterey Bay, California; May 1938.
109. Velella velella. Probably from Cape Scott (NW tip of Vancouver Island); sent by Major Motherwell; July 7/26.
110. Velella velella. Smith Bank (not in B.C. Gazetteer); Aug. 9/26.
111. Velella velella. Stn. 2231-28 S, Sealer #1 (off Nootka Sound, west coast Vancouver Island); July 9/34.
112. Velella velella. Smith Bank (not in B.C. Gazetteer); Aug. 9/26.
113. "Portuguese man-o'-war". Ucluelet Arm (W. coast of Vancouver Island, N. of Barkley Sound); May 13, 1926. (Specimen missing.)
114. Aequorea forskalea. Nanoose Bay (i.e. Nanoose Harbour, NW of Nanaimo); 10/1/29.

115. Aequorea forskalea. Stn. 1728; head of Ucluelet Arm (i.e. Ucluelet Inlet, NW of Barkley Sound, W. coast of Vancouver Island); March 23, 1929; ident. M. Udvardy; (medusae dipped from surface).
116. Aequorea forskalea. June 15, 1921; Departure Bay, at surface.
117. Aequorea forskalea. March 20, 1929; surface; head of D .... Inlet; ident. M. Udvardy.
118. Halistaura sp.; Leuckartiara sp.; Stomatoca atra; other specimens not identified. 31/7/35; east end of Houston Stewart Channel (between Moresby and Kunhgit islands, S. end of Queen Charlotte Islands); between 7:30-9:30 p.m.; ident. M. Udvardy.
119. Halistaura sp. Stn. 3541 Z2(a); ident. M. Udvardy; (from somewhere in Queen Charlotte Islands).
120. Halistaura sp. Stn. 2231-4T (off Nootka Sound, west coast Vancouver Island); July 9/34; ident. M. Udvardy.
121. Halistaura sp. Forward Inlet, Quatsino (Sound, NW coast Vancouver Island); 13/7/28; Stn. 1075 F2; ident. M. Udvardy.
122. Halistaura sp. Stn. 1320; Nov. 9/28; 1½ miles N. of Active Pass (not Action Pass as in Udvardy list); 5 fm; (horizontal tow).
123. Leuckartiara sp. Several specimens not identified. E. end of Houston Stewart Channel; 31/7/35; 4:00-7:00 p.m.
124. Not identified. Stn. 2231-20S (NW of Nootka Sound, W. coast Vancouver Island, Lat. 49°36'45", Long. 126°49'; Bajo Point); June 26/34; (largely Leptomedusae and attached anemones, but few specimens other species).
125. Specimen missing. Off Bajo Point (SW side of Nootka Island, off W. coast Vancouver Island); June 26/34.
126. Aequorea forskalea. Departure Bay at surface; June 16/21.
127. Aequorea forskalea. Stn. 2231-20S; June 26/34; (Lat. 49°36'45", Long. 126°49'; Bajo Point; NW of Nootka Sound, W. coast Vancouver Island).
128. Aequorea forskalea; Eperemetus typus. Stn. 2231-4T (off Nootka Sound); July 9/34.
129. Aequorea forskalea. Off Bay's Point (misprint for Bajo Point); June 26/34.
130. Aequorea forskalea. Waves Hole (not in B.C. Gazetteer); surface; May 9, 1903; ident. R. E. Foerster; (label difficult to read but probably Woods Hole, i.e., specimens from Massachusetts collected for comparison).

131. Halistaurea cellulaire. 11 miles off Raphael Pt. (misspelling of Rafael Point, W. side of Fores Island, off W. coast of Vancouver Island); Nov. 14/28; ident. R. E. Foerster; Stn. 1326 (10 fm horizontal tow).
132. Halistaurea cellulaire. Tod Inlet (off Saanich Inlet); Aug. 25/21; ident. R. E. Foerster.
133. Halistaurea cellulaire. Rocky Bay (this is an ambiguous location - there is a Rocky Bay, Schooner Retreat, W. side of Penrose Island, Rivers Inlet, and another Rocky Bay, W. side of Wells Passage, NE of Boyles Pt.; both are on mainland opposite or a bit north of N. shore of Vancouver Island); June 20/21; ident. R. E. Foerster.
134. Halistaurea cellulaire. Black Rock (i.e. Inskip Rock, Departure Bay); July 7/21, ident. R. E. Foerster.
135. Halistaurea cellulaire. Jesse Island (Departure Bay); Dec. 9/1914; ident. R. E. Foerster.
136. Halistaurea cellulaire. Friday Harbour, Washington; Aug. 16/21; ident. R. E. Foerster.
137. Halistaurea cellulaire. Stn. 1210; 14/9/29; Quatsino (Sound, NW coast Vancouver Island); (float at Limestone Island, old name for Drake Island, at junction Quatsino Sound and Neroutsos Inlet).
138. Eutimidae (not Halistaurea cellulaire). Barkeley Sound (misspelling of Barkley Sound, west coast Vancouver Island); May 10, 1928; Stn. 906; (western channel of Barkley Sound, surface).
139. Halistaurea cellulaire. Stn. 999 (June 3, 1928; 3 miles S. of Swiftsure - a bank off W. end of Juan de Fuca Strait; surface).
140. Halistaurea cellulaire. Stn. 984 (May 26, 1928; off Sheringham, a point on north side of Juan de Fuca Strait, deep).
141. Halistaurea cellulaire. 7/3/28; Stn. 662; ( $1\frac{1}{2}$  miles S. of) Mittelnacht Is. (see #59 for location); horizontal bottom tow.
142. Halistaurea cellulaire. Off Active Pass (see #2 for location); 9/11/28; Stn. 1303 (Strait of Georgia,  $1\frac{1}{2}$  miles N. of the pass).
143. Halistaurea cellulaire. Off Active Pass; 9/11/28; Stn. 1303 (Strait of Georgia,  $1\frac{1}{2}$  miles N. of the pass).
144. Not identified. Stn. 3532 (presumably in Queen Charlotte Islands).
145. Halistaurea cellulaire. Porlier Pass (between Galiano and Valdes Islands, SE of Nanaimo); 20/7/28.
146. Halistaurea cellulaire. S. Marble Is.; 11/9/35; (Marble Island is in Cartwright Sound, S.W. coast Graham Island in Queen Charlotte Islands).

147. Eutonina indicans. Stn. 3537; (Lat. 52°08', Long. 131°07'; Kunghit Island, Houston Stewart Channel).
148. Phialidium gregarium. Stn. 3533 (presumably in Queen Charlotte Islands).
149. Eutonina indicans. Stn. 3533 (presumably in Queen Charlotte Islands).
150. Eutonina indicans. Stn. 3505 Z2 (presumably in Queen Charlotte Islands).
151. Phialidium gregarium + 2 Sarsia sp. + 1 Polyorchis sp. Port Langford (N. shore of Nuchatlitz Inlet, off Esperanza Inlet, W. coast of Vancouver Island); July 23, 1934.
152. Phialidium gregarium. Friday Harbour, Wash.; Aug. 17, 1921.
153. Phialidium gregarium. NE of Five Fingers (NE of Departure Bay, Strait of Georgia); surface; Aug. 27, 1921.
154. Phialidium gregarium. Deep Cove (ambiguous location, see #55); 24 m; 23/4/29.
155. Phialidium gregarium. Off float, 30 yards (Departure Bay); ident. R. E. Foerster; 27/7/21.
156. Phialidium gregarium. Bull Harbour (see #44 location); Sept. 2, 1915; ident. R. E. Foerster.
157. Phialidium gregarium + 1 Proboscoidactyla flavicirrata. Brandon Island (Departure Bay); April 10, 1912; ident. R. E. Foerster.
158. Phialidium gregarium. Jesse Island (Departure Bay); July 8/21; ident. R. E. Foerster.
159. Phialidium gregarium. Jesse Island (Departure Bay); April 13/12; ident. R. E. Foerster.
160. Phialidium languidum. Winter Harbour, Gulf of Maine; "Grampus"; surface; Aug. 20/12; Cat. USNM #329; ident. R. E. Foerster.
161. Phialidium languidum. Grand Manan, New Brunswick; Aug. 1910; coll. A. B. Bigelow; ident. R. E. Foerster.
162. Phialidium languidum (?). Departure Bay, Stn. 268; 11/8/27; ident. R. E. Foerster.
163. Phialidium languidum. No collecting data.
164. Phialidium languidum 1 sp. + Halistaura cellularia. Stn. 2117 (probably off W. coast Vancouver Island).
165. Phialidium languidum. Quatsino (Sound, NW coast Vancouver Island); 26/7/29; Stn. 2082 (4 miles S. of entrance to Sound; horizontal surface tow).
166. Mitrocoma discoidea. Departure Bay; July 13/18; ident. R. E. Foerster.

167. Mitrocoma sinuosa. N. of Five Fingers (Island NE of Departure Bay); June 27/21; ident. R. E. Foerster.
168. Obelia sp. Dodds Narrows (SE end of Northumberland Channel); Sept. 7/21; ident. R. E. Foerster.
169. Staurophora sp. N. of Entrance Island (NE of Orlebar Point, Gabriola Island, Nanaimo District); 200 fm; July 13, 1915.
170. Not identified.  $1\frac{1}{2}$  miles N. of Active Pass (i.e. Strait of Georgia, off Galiano Island); Nov. 9/28; vert. haul; Stn. 1309.
171. Not identified. 4 miles S. of Lennard Island (SW of Tofino, W. coast Vancouver Island); July 29/29; (scyphomedusa?).
172. Not identified. Stn. 3536 (Lat.  $52^{\circ}15'$ , Long.  $131^{\circ}22'$ ; Moresby Island, Flamingo Inlet).
173. Polyorchis sp. Purchased from Pacific Biological Laboratory, Pacific Grove, Calif. (This was Rickett's establishment on the Monterey Peninsula.)
174. Polyorchis sp. Head of Ucluelet Arm (i.e. Ucluelet Inlet, NW of Barkley Sound, W. coast Vancouver Island); Stn. 1728 part; 23 March 1929; (dipped from surface).
175. Polyorchis sp. Departure Bay; March 21, 1929; Coll. D. B. Quayle.
176. Polyorchis sp. July-Aug. 1927; west coast stations 185, 203, 217, 218, 221, 264, 271, 278 and 286; (mixture of localities).
177. Polyorchis sp. Bull Harbour; Sept. 2, 1915.
178. Polyorchis sp. W. coast (no further locality data); 22 Nov. 1928.
179. Polyorchis sp. Jesse Island (Departure Bay); July 8, 1921.
180. Polyorchis sp. Jesse Island (Departure Bay); May 9, 1912.
181. Polyorchis sp. Black Rock (i.e. Inskip Rock, Departure Bay); June 8, 1912.
182. Polyorchis sp. Brandon Island (Departure Bay); July 12, 1912.
183. Polyorchis sp. Brandon Island (Departure Bay); June 5, 1912.
184. Polyorchis sp. Top of Bamfield Creek (W. coast Vancouver Island, S. side of Barkley Sound); 26 Jan. 1929; part haul with deck crane (not Deep Cove as in Udvardy list); Stn. 1621.
185. Polyorchis sp. July 13, 1946. Alert Bay (S. side of Cormorant Island, Broughton Strait, off N. shore of Vancouver Island).
186. Polyorchis sp. At float (Departure Bay); Oct. 19, 1913.

187. Polyorchis sp. Grant's Landing, west coast (not in B.C. Gazetteer);  
Aug. 6, 1921.
188. Polyorchis sp. At float (Departure Bay); June 12, 1912.
189. Polyorchis sp. At float (Departure Bay); surface; 29/5/1912.
190. Polyorchis sp. Jesse Island (Departure Bay); surface; May 7, 1912.
191. Polyorchis sp. Jesse Island (Departure Bay); 8/7/21.
192. Polyorchis sp. Jesse Island (Departure Bay); May 9, 1912.
193. Polyorchis sp. Brandon Island (Departure Bay); surface; May 27, 1912.
194. Polyorchis sp. Black Rock (i.e. Inskip Rock, Departure Bay); July 22,  
1921.
195. Polyorchis sp. Quatsino (Sound, NW coast Vancouver Island); 25 July  
1929; Stn. 2089.
196. Polyorchis sp. Departure Bay; 18/1/30; Stn. 2210.
197. Polyorchis sp. Huck Bay (neither Huck Bay nor Hack Bay are in B.C.  
Gazetteer); Sept. 1, 1915.
198. Melicertum octocostatum. Brandon Island (Departure Bay); May 28, 1912.
199. Melicertum octocostatum. Float (Departure Bay); Oct. 23, 1918.
200. Melicertum octocostatum. Banks Island (see #41 location); 10/7/1912.
201. Melicertum octocostatum. Off landing (Departure Bay); July 20, 1916.
202. Melicertum octocostatum. Black Rock (Departure Bay); June 11, 1912.
203. Aglantha digitale. Surface; 10 Jan. 1929; Stn. 1482; off Lantzville  
(Strait of Georgia, E. of Nanoose Harbour).
204. Eperemetus typus. Near float (Departure Bay); Dec. 26, 1914.
205. Siphonophora inc. sedis. NE of Five Fingers Island (Strait of Georgia,  
NE of Departure Bay); 60-40 fm; Aug. 27, 1921.
206. Eutonina indicans. Jesse Island (Departure Bay); April 10, 1912;  
ident. R. E. Foerster.
207. Eutonina indicans. Near Jesse Island (Departure Bay); 24/4/12;  
ident. R. E. Foerster.
208. Eutonina indicans; 2 Euphysa japonica; 2 young Pandeidae + several  
young Leptomedusae. Black Rock (Departure Bay); March 31, 1913;  
ident. R. E. Foerster.

209. Eutonina indicans. Bull Harbour (see #44 for location); 2/9/15; ident. R. E. Foerster.
210. Eutonina indicans. Departure Bay; 9/4/12; ident. R. E. Foerster.
211. Siphonophora prob. Diphyes. N. of Five Fingers Island; 40 fm; June 20, 1915.
212. Could not be identified. 5 fm up; 9 May, 1929; Van Donop Creek (W. side of Cortes Island, N. end of Strait of Georgia).
213. Probably Eutonina indicans. Stn. 1171; 25 Aug. 1929; Ucluelet (W. coast Vancouver Island); 2 miles S. of red buoy; vertical haul, 20 fm up).
214. Perhaps Anthozoa larva; poorly preserved. At float (Departure Bay); Apr. 22, 1913.
215. Pieces of Siphonophora. At float (Departure Bay); Apr. 21/15.
216. Damaged specimen. Stn. 1511; Ruxton Passage (between Ruxton and De Courcy Islands, W. of Valdes Island, SE of Nanaimo); 11 Jan., 1929.
217. Phialidium languidum. Bay of Fundy off Campobello; Atlantic Biological Station; "Prince"; Stn. 5; Sept. 7/1921; 0 net; surface; coll. E.G.R.
218. Sarsia sp. (pieces of Polychaetes? etc.). Black Rock (Departure Bay); surface; May 23, 1912.
219. Leptomedusae. Poorly preserved. Deep Cove, North Arm (i.e. Indian Arm) Burrard Inlet; 90 fm; August 6, 1930.
220. Aglantha digitale. 9/5/29; Mittelnacht (see #59 location).
221. Probably Euphysa japonica. Stn. 1722; 22/3/29; Deep Cove (W. side of Indian Arm near Vancouver).
222. Aglantha digitale + Euphysa sp. Stn. 812, #1; 12/4/28; (i.e. Station #1 in Strait of Georgia deep water off Nanaimo; vertical haul 200 fm to surface).
223. Two Phialidium languidum; Departure Bay; Aug. 27.
224. Euphysa japonica. Departure Bay; April 3, 1930; Stn. 2228.
225. Aglantha digitale + Sarsia. Stn. 796; Departure Bay (28 March, 1928; horizontal tow at surface).
226. Polyorchis sp. Stn. 272; 18/6/27; Kyuquot (Sound, W. coast of Vancouver Island).
227. Polyorchis sp. young sp. Phialidium languidum + Siphonophora. Stn. 449; 7/5/27; Kyuquot (Sound, W. coast of Vancouver Island; at Fisherman's Wharf).



228. *Anthomedusa* poorly preserved. Stn. 447; 8/7/27; Kyuquot (Sound, W. coast of Vancouver Island; 1 mile SW of Lookout Island; tow at surface).
229. *Proboscidactyla flavicirrata*. Stn. 259; 15/7/27; Kyuquot.
230. *Euphysa japonica*. Stn. 269; 4/4/27; Kyuquot. Ova (? and medusa).
231. Young mollusk (?) in metamorphosis. May 10, 1934; 2221-6B; (according to map Hart manuscript report is in Pacific off Clayoquot Sound, W. coast Vancouver Island).
232. *Polyorchis* sp. Adult specimens; 17/9/27; Tofino (S. side of Clayoquot Sound, W. coast Vancouver Island).
233. *Sarsia* sp. Stn. 1898; 9 May 1929; Van Donop Creek (see location #212).
234. *Halistaurea* (?). Very poorly preserved. Stn. 974; Barkley Sound; 27 May, 1928; (W. coast Vancouver Island). (Middle Channel, horizontal surface tow).
235. *Halistaurea cellularia*. Stn. 351; 26/5/27; Barkley Sound; (middle of Western Channel, vertical haul to 15 fm).
236. *Halistaurea cellularia*. Stns. 343, 344; 26/5/27; Barkley Sound (Middle Channel off Village Island; 343 is horizontal surface tow, 344 is vertical haul to 30 fm).
237. *Halistaurea cellularia*; *Phialidium* sp.; *Eutonina indicans*. Stns. 355-367; Barkley Sound; May 1927 (several locations in this area).
238. *Gonionemus vertens*. Stn. 3532; (probably from Queen Charlotte Islands).
239. *Melicertum octostatum*. Stn. 3533; (probably from Queen Charlotte Islands).
240. *Sarsia* sp. Stn. 3533; (probably from Queen Charlotte Islands).
241. *Eperemetus typus*. Stn. 3536; (Lat. 52°15', Long. 131°22'; Moresby Island, Flamingo Inlet).
242. *Melicertum octocostatum*. Stn. 3537; (Lat. 52°08', Long. 131°07'; Kunghit Island, Houston Stewart Channel).
243. *Halitholus pelagica*. Stn. 983; (Departure Bay off Horswell Point, 16 July, 1928; horizontal tow 1 fm).
244. *Sarsia* sp. Ladysmith (Harbour, SE of Nanaimo); from plankton; June 22, 1934; ident. G.
245. *Eutonina* sp. Stn. 3531; (Lat. 53°09', Long. 132°21'; Skidegate Narrows).
246. *Cosmetirella davisii* (?). Stn. 3531; (Lat. 53°09', Long. 132°21'; Skidegate Narrows).

247. Eperemetus typus. Stn. 3531; (Lat. 53°09', Long. 132°21'; Skidegate Narrows).
- 247A. Eperemetus typus. Stn. 3531; (Lat. 53°09', Long. 132°21'; Skidegate Narrows).
248. Sarsia sp. Stn. 3531; (Lat. 53°09', Long. 132°21'; Skidegate Narrows).
249. Leuckartiara sp. Stn. 3533; (probably from Queen Charlotte Islands).
250. Halistaura cellularia. Stn. 3531; (Lat. 53°09', Long. 132°21'; Skidegate Narrows).
251. Eutonina indicans. NW tip of Gabriola Island; May 20, 1959; Coll. D. B. Quayle; Stn. 40.
252. Eutonina indicans. Coll. D. B. Quayle; June 1, 1962; surface; Naden Harbour (N. shore of Graham Island at N. end of Queen Charlotte Islands).
253. Aequorea sp.; Aglantha digitale. Haul #47 Boundary Pass; Stn. 13 from plankton bucket; 27 fa.; June 23, 1964; (Boundary Pass is SE of Vancouver Island, E. of Saturna Island, on U.S.-Canada boundary).
254. Not identified. Lagoon opposite Port Langford; Oct. 20/61; Coll. D. B. Quayle; (Port Langford is on N. shore of Nuchatlitz Inlet, off Esperanza Inlet, W. coast Vancouver Island).
255. Velella sp. Off shore N. tip of Vancouver Island, B.C.; August 9, 1968.
256. Aequorea sp. Stn. 2223-2S; May 31/34; (according to map in Hart manuscript report is Hesquiat Harbour, N. of Clayoquot Sound, W. coast Vancouver Island).
257. Aglantha digitale; Leptomedusae. Station P (i.e. weather ship, Lat. 50°N, Long. 145°W); Sample 9 Cruise 72-007; time 1800 Z; 12/10/72; 1200 m vertical haul.
258. Aglantha digitale; Solmissus sp. Station P (see #257); Cruise P-69-1; time 0830; 23/01/69; 1200 m vertical haul; large Miller net.
259. Aglantha digitale. Station P (see #257); sample 1051; Cruise 71-004; 17/6/71; 1200 m, vertical haul.