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BULLETIN 303

**THE HOLOCENE MARINE ENVIRONMENT
OF THE BEAUFORT SEA**

by

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APPENDICES 3-5

APPENDIX 3Species Reference List and Species OccurrencesMOLLUSCAGastropoda

Alvania cruenta Odhner - Macpherson, 1971, Nat. Mus. Can., Publ. Biol.,
3, p. 37, pl. II, fig. 10

= *A. cruenta* Odhner, 1915, Kongl. Svenska Vetensk.-Akad. Handl.,
54 (1), p. 167, pl. 1, fig. 1-6

Occurrence: Localities 164; 184; 190; 193.

Alvania janmayeni (Friele) - Macpherson, 1971, Nat. Mus. Can., Publ.
Biol., 3, p. 38, pl. II, fig. 11

= *Rissoa Jan Mayeni* Friele, 1878, Nyt. Mag. f. Naturvid.,
24 (3), p. 224, pl. 1, fig. 4a, b

Occurrence: Localities 24; 300; 463.

Amauropsis purpurea Dall - Macpherson, 1971, Nat. Mus. Can., Publ. Biol.,
3, p. 55, pl. III, fig. 10

= *A. purpurea* Dall, 1871, Amer. J. Conch., 7, p. 124, pl. 15,
fig. 16

Occurrence: Localities 145; 155.

Boreotrophon olathratus (Linné) - Macpherson, 1971, Nat. Mus. Can., Publ.
Biol., 3, p. 60, pl. III, fig. 15

= *Murex olathratus* Linné, 1767, Syst. Nat., ed. 12, p. 1223

Occurrence: Locality 35.

Boreotrophon olathratus gunneri (Lovén) - Gaevsky, 1948, Encycl., fauna and flora of the northern sea regions of the U.S.S.R., p. 380, pl. XCVII, fig. 14 (as *Trophonopsis* [*Boreotrophon*] *olathratus gunneri*)

= *Trophon gunneri* Lovén, 1846, Öfversigt Kongl. Vet.-Akad. Förh., 3, p. 144

Occurrence: Core 820 (400-406 cm)

Boreotrophon sp.

Boreotrophon P. Fischer, 1884

Occurrence: Localities 49; 120.

Buccinum sp.

Buccinum Linné, 1767

Occurrence: Locality 653

Core 816 (259 cm);
820 (400-406 cm).

Cingula castanea (Möller) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol., 3, p. 35, pl. II, fig. 8

= *Rissoa castanea* Möller, 1842, Naturhist. Tidsskrift., 4 (1), p. 83

Occurrence: Localities 219; 522.

Cingula castanea alaskana (Dall) - MacGinitie, 1959, Proc. U. S. Nat. Mus., 109, p. 84, pl. 17, fig. 8, 9

= *Alvania castanea* var. *alaskana* Dall, 1886, Proc. U.S. Nat. Mus., 9, p. 307, pl. 4, fig. 9

Occurrence: Locality 31.

Colus togatus (Mörch) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol., 3, p. 76, pl. V, fig. 2

= *Fusus ebur* var. *togata* Mörch, 1869, in Petit de la Saussaye, p. 275

Occurrence: Locality 411.

Cylichna occulta (Mighels) - MacGinitie, 1959, Proc. U.S. Nat. Mus., 109, p. 140, pl. 4, fig. 3

= *Bulla occulta* Mighels, 1841, Proc. Boston Soc. Nat. Hist., 1, p. 50

Occurrence: Localities 24;25;32;36;37;43;59;60;61;77;84;92;95;113;114;116; 117;119;123;134;135;136;137;139;146;153;156;162;187; 201;210;211;215;235;239;240;241;260;283;290;299; 323;324;327;328;329;332;338;339;340;343;344;348;349; 350;352;362;365;368;388;392;393;395;397;416;422;437; 441;446;460;463;469;480;485;527;529;530;533;537;538; 539;546;548;572;573;576;600;607;635.

Core 816 (125-130 cm; 275-280 cm).

Lepeta caeca (Müller) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol., 3, p. 15, pl. I, fig. 7

= *Patella caeca* Müller, 1776, Zoologicae Danicae prodromus, p. 237

Occurrence: Localities 29; 35; 565.

Lunatia pallida (Broderip and Sowerby) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol., 3, p. 58, pl. III, fig. 8

= *Natica pallida* Broderip and Sowerby, 1829, Zool. J., 4 (15), p. 372

Occurrence: Localities 76; 93, 112; 211; 578.

Margarites costalis (Gould) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol.,
3, p. 16, pl. I, fig. 9

= *Trochus costalis* Gould (*ex* Lovén MS), 1841, Rept. Invert. Mass.,
p. 252

Occurrence: Locality 193.

Margarites olivaceus (Brown) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol.,
3, p. 21, pl. I, fig. 12, 13

= *Turbo olivaceus* Brown, 1827, Ill. Recent Conch. Great Britain
and Ireland, 1st ed., pl. 46, fig. 30, 31

Occurrence: Locality 571.

Moelleria sp.

Moelleria Jeffreys, 1865

Occurrence: Core 820 (400-406 cm).

Neptunea heros (Gray) - Macpherson, Nat. Mus. Can., Publ. Biol., 3, p. 82,
pl. V, fig. 10

= *Chrysodomus heros* Gray, 1850, Proc. Zool. Soc. London, 18, p. 15,
pl. 7

Occurrence: Localities 565; 633.

Neptunea ventricosa (Gmelin) - MacGinitie, 1959, Proc. U.S. Nat. Mus., 109,
p. 121, pl. 14, fig. 1-6

= *Buccinum ventricosum* Gmelin, 1790, *in* Linné, Syst. Nat., ed. 13
[revised and augmented by Gmelin], p. 3498

Occurrence: Locality 94.

Neptunea sp.*Neptunea* (Bolten) Rüdiger, 1798

Occurrence: Locality 84

Core 820 (400-406 cm).

Odostomia cassandra Dall and Bartsch - MacGinitie, 1959, Proc. U.S. Nat. Mus., 109, p. 141, pl. 8, fig. 5, 6= *O. cassandra* Dall and Bartsch, 1913, Victoria Mem. Mus. Bull. no. 1, p. 142, pl. 10, fig. 2

Occurrence: Locality 92.

Oenopota arctica (A. Adams) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol., 3, p. 111, pl. VII, fig. 2a, b= *Bala arctica* A. Adams, 1855, Proc. Zool. Soc. London, 23, p. 121

Occurrence: Locality 352.

Oenopota cinerea (Müller) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol., 3, p. 114, pl. VII, fig. 5= *Defrancia cinerea* Müller, 1842, Naturhist. Tidskrift., 4 (1), p. 13

Occurrence: Locality 546.

Oenopota declivis (Lovén) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol., 3, p. 115, pl. VII, fig. 10= *Tritonium declivis* Lovén, 1846, Ofv. Kongl. Svenska Vetensk - Akad. Förhandl., 3 (5), p. 13

Occurrence: Locality 264.

Oenopota decussata (Couthouy) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol., 3, p. 115, Pl. VII, fig. 9

= *Pleurotoma decussata* Couthouy, 1838, Boston J. Nat. Hist., 2 (1), p. 183, pl. 4, fig. 8

Occurrence: Locality 32.

Oenopota novajasemliensis (Leche) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol., 3, p. 119, pl. VII, fig. 14

= *Pleurotoma novaja-semliensis* Leche, 1878, Kongl. Svenska Vetensk.-Akad. Handl., 16 (2), p. 53, pl. 1, fig. 15

Occurrence: Localities 184; 430; 435.

Core 838 (133-138 cm).

Oenopota reticulata (Brown) - Macpherson, 1971, Nat. Mus. Can., Biol. Publ., 3, p. 121, pl. VII, fig. 13

= *Pleurotoma reticulata* Brown, 1827, Ill. Recent Conch. Great Britain and Ireland, 1st ed., pl. 48, fig. 29, 30

Occurrence: Core 850 (20-25 cm).

Oenopota turricula (Montagu) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol. 3, p. 123, pl. VII, fig. 11

= *Murex turricula* Montagu, 1803, Testacea Britannica, ed. 1, 2, pl. 9, fig. 1

Occurrence: Localities 370; 568.

Oenopota sp.

Oenopota Mörch, 1852

Occurrence: Localities 25; 96; 120; 347; 397; 651.

Philina lima Brown - Morris, 1973, Field Guide to Shells, p. 271, pl. 73,
fig. 19

= *P. lima* Brown, 1844, Ill. Recent Conch. Great Britain,
ed. 2, p. 58

Occurrence: Locality 289.

Philina quadrata Wood - Morris, 1973, Field Guide to Shells, p. 271,
pl. 73, fig. 18

= *P. quadrata* Wood, 1839, Charlesworth's Mag. Nat. Hist., 3,
p. 461

Occurrence: Locality 173.

Plicifusus sp.

Plicifusus Dall, 1902

Occurrence: Locality 38.

Ratusa umbilicata (Montagu) - MacGinitie, 1959, Proc. U.S. Nat. Mus.,
109, p. 138, pl. 4, fig. 6

= *Bulla umbilicata* Montagu, 1803, Test. Britannica, ed. 1, 1,
p. 222

Occurrence: Localities 9;11;25;35;43;53;61;84;119;192;205;256;301;

332; 364; 568; 571; 572; 573; 577;

Cores 807 (949-951 cm);

826 (250-255 cm);

852 (230-235 cm).

Solarisella obscura (Couthouy) - Macpherson, 1971, Nat. Mus. Can., Publ.
Biol., 3, p. 25, pl. I, fig. 17

= *Turbo obscurus* Couthouy, 1838, Boston J. Nat. Hist., 2 (1),
p. 100, pl. 3, fig. 12

Occurrence: Localities 576; 614.

Core 845 (10-30 cm).

Tachyrhynchus erosus (Couthouy) - Macpherson, 1971, Nat. Mus. Can., Publ. Biol., 3, p. 38, pl. I, fig. 20

= *Turritella arosa* Couthouy, 1838, Boston J. Nat. Hist., 2 (1), p. 103, pl. 3, fig. 1

Occurrence: Localities 4; 67; 84; 92; 160; 353; 387; 564.

Core 820 (400-406 cm).

Trichotropis sp.

Trichotropis Broderip and Sowerby, 1829

Occurrence: Locality 92.

Cores 845 (10-30 cm);

852 (230-235 cm).

Turritellopsis acioula (Stimpson) - Richards, 1962, Trans. Amer. Philos. Soc., n.s., 52 (3), p. 77, pl. 15, fig. 34 (as *Turritella* (*Turritellopsis*) *acioula*)

= *Turritella acioula* Stimpson, 1851, Shells of New England, p. 35, pl. 1, fig. 5

Occurrence: Locality 387.

Volutopsius sp.

Volutopsius Mörch, 1857

Occurrence: Locality 76.

Pelecypoda

Arotinula groenlandica (Sowerby) - MacNeil, 1967, U.S. Geol. Surv., Prof. Paper 553, p. 8, pl. 4, fig. 6

= *Pecten greenlandicus* Sowerby, 1842, Thesaurus Conchyliorum, 1, p. 57, pl. 13, fig. 40

Occurrence: Localities 2;5;11;13;17;21;23;24;25;26;30;31;34;35;54;80;
 91;93;94;96;157;159;166;176;179;184;186;191;192;
 195;204;205;217;219;221;222;223;239;242;248;250;
 266;272;279;280;287;289;296;300;301;302;398;410;
 413;474;512;567;572;573;586;600;611;612;618;625;
 652;655.

Cores 817 (175-180 cm);
 820 (400-406 cm; 4250430 cm);
 822 (5-10 cm);
 823 (75-80 cm);
 826 (200-205 cm);
 827 (225-230 cm; 275-280 cm; 300-305 cm);
 834 (300-305 cm; 425-430 cm; 575-580 cm);
 835 (44 cm; 49-51 cm; 299-301 cm);
 840 (0-5 cm; 225-230 cm; 245-250 cm; 260-265 cm);
 845 (10-30 cm);
 852 (29-31 cm; 230-235 cm).

Astarte borealis Schumacher - Morris, 1973, Field Guide to Shells, p. 40,
 pl. 20, fig. 6

= *A. borealis* Schumacher, 1817, Essai Nouv. Syst. Hab. Vers. Test.,
 p. 47, pl. 17, fig. 1

Occurrence: Localities 17;18;29;58;75;76;94;337;355;356;458;514;521;
 523;549;560;561;563;564;566;568;580;598;613.

Cores 816 (350-353 cm);
 838 (99-101 cm);
 845 (10-30 cm).

Astarte crenata (Gray) - Ockelmann, 1958, Medd. om Grønland, 122 (4), p. 89, pl. 1, fig. 20

= *Nicania crenata* Gray, 1824, Parry's first voyage, 1819-20, suppl. to appendix, p. 242

Occurrence: Localities 575; 579.

Astarte montagui (Dillwyn) forma typica - Gaevsky, 1948, Encycl., fauna and flora of the northern sea regions of the U.S.S.R., p. 435, pl. CX, fig. 5

= *Venus montagui* Dillwyn, 1817, Desc. Cat., Rec. Shells, pt. I, p. 167

Occurrence: Localities 60; 194; 199; 300; 378; 562.

Astarte montagui striata (Leach) - MacGinitie, 1959, Proc. U.S. Nat. Mus., 109, p. 167, pl. 22, fig. 14-16

= *Nicania striata* Leach, 1819, Ross's voyage, Appendix 2, p. 62

Occurrence: Localities 1;24;25;76;94;159;199;249;255;331;344;352;368;
398;411;412;523;566;612;619;621.

Core 852 (29-31 cm).

Astarte montagui warhami Hancock - MacGinitie, 1959, Proc. U.S. Nat. Mus., 109, p. 167, pl. 22, fig. 11-13

= *A. warhami* Hancock, 1846, Ann. Mag. Nat. Hist., ser. 1, 18, p. 336, pl. 5, fig. 15, 16

Occurrence: Localities 87; 352; 565.

Astarte montagui subspecies?

Occurrence: Locality 300.

Core 852 (100-110 cm; 230-235 cm).

Astarte sp.*Astarte* Sowerby, 1816

Occurrence: Localities 9;17;18;21;25;31;26;75;81;82;98;178;333;339;
413;493.

Cores 816 (125-130 cm);

828 (25-30 cm; 100-105 cm; 125-130 cm;

133-138 cm; 375-380 cm; 425-430 cm).

Axinopsida orbiculata (Sars) - MacGinitie, 1959, Proc. U.S. Nat. Mus., 109,
p. 172, pl. 20, fig. 2

= *Axinopsis orbiculata* Sars, 1878, Mollusca regionis arcticae
Norvegiae, p. 63, pl. 19, fig. 11a-d

Occurrence: Localities 25;80;208;215;252;253;261;262;267;274;406.

Core 820 (400-406 cm).

Bathyarca frielei (Friele) - Clarke, 1963, Nat. Mus. Can., Bull. 185,
p. 101, pl. II, fig. 12, 14

= *Arca frielei* (Jeffreys MS) Friele, 1877, Nyt Magazin f. Naturvidensk.,
23, p. 2

Occurrence: Localities 4; 29; 47.

Bathyarca glacialis (Gray) - Ockelmann, 1958, Medd. om Grønland, 122 (4),
p. 44, pl. 1, fig. 18 (as *Arca glacialis*)

= *Arca glacialis* Gray, 1824, Parry's first voyage, 1819-20,
suppl. to appendix, p. 244

Occurrence: Localities 2;31;35;36;37;173;176;204;206;225;258;614.

Cores 816 (350-353 cm);

845 (10-30 cm).

Cerastoderma echinatum (Linné) - Gaevsky, 1958, Encycl., fauna and flora of the northern sea regions of the U.S.S.R., p. 433, pl. CIX, fig. 4 [as *Cardium*(*Cerastoderma*) *echinatum*]

= *Cardium echinatum* Linné, 1758, Syst. Nat., ed. 10, p. 1122

Occurrence: Localities 166; 478; 550.

Cerastoderma elegantulum (Beck) - Morris, 1973, Field Guide to Shells, p. 55, pl. 23, fig. 1

= *Cardium elegantulum* Beck in Müller, 1842, Index Moll. Grönl., p. 20

Occurrence: Localities 352; 445.

Clinocardium ciliatum (Fabricius) - Morris, 1973, Field Guide to Shells, p. 56, pl. 23, fig. 14

= *Cardium ciliatum* Fabricius, 1780, Fauna Grönl., p. 410

Occurrence: Localities 76;77;85;87;88;92;93;94;151;199;334;352;353;362;
366;395;451;458;463;527;546;549;563;564;577;635;
636; 643;649;650;652.

Cores 840 (245-250 cm);

852 (49-51 cm; 69-71 cm; 100-110 cm; 230-235 cm).

Cyrtodaria kurriana Dunker - Ockelmann, 1958, Medd. om Grønland, 122 (4), p. 142, pl. 2, fig. 14

= *C. kurriana* Dunker, 1862, Malakozool. Blätter, 8, p. 38

Occurrence: Localities 100;101;103;104;106;107;108;110;120;121;122;127;
128;129;130;131;132;141;143;144;235;306;325;569;576.

Hiatella arctica (Linné) - MacGinitie, 1959, Proc. U.S. Nat. Mus., 109, p. 190, pl. 26, fig. 1-3

= *Mya arctica* Linné, 1767, Syst. Nat., ed. 12, p. 1113

Occurrence: Localities 75;94;206;219;354;560;561;562;563;564;565;566.

Lima hyperborea (Jensen) - Ockelmann, 1958, Medd. om Grønland, 122 (4), p. 72,
pl. 2, fig. 3

= *Limatula hyperborea* Jensen, 1905, Medd. om Grønland, 29, p. 329,
fig. 1a-d

Occurrence: Locality 274.

Liocyma fluctuosa (Gould) - Ockelmann, 1958, Medd. om Grønland, 122 (4),
p. 123, pl. 2, fig. 9

= *Venus fluctuosa* Gould, 1841, Rept. Invert. Mass., p. 87, fig. 70

Occurrence: Localities 75;76;82;90;94;126;145;152;155;249;255;256;257;330;
331;334;336;337;346;352;358;361;449;523;559;561;
563;564;567;568;576;598;599;652.

Cores 828 (75-80 cm);

841 (78-83 cm).

Lyonsia arenosa (Møller) - Morris, 1973, Field Guide to Shells, p. 97,
pl. 33, fig. 2

= *Pandorina arenosa* Møller, 1842, Index Moll. Groenl., p. 20

Occurrence: Localities 85;137;145;213;344;370;391;412;413;437;442;545;
548;572;576;578;652.

Lyonsia norvegica (Gmelin) - Jeffreys, 1865, British Conchology, vol. 3,
Marine Shells, p. 29, pl. 2, fig. 1

= *Mya norvegica* Gmelin, 1790 in Linné, Syst. Nat., ed. 13

[revised and augmented by Gmelin], p. 3222

Occurrence: Locality 116.

Lyonsia schimkewitschi Derjugin and Gurjanova - Gaevsky, 1958, Encycl., fauna and flora of the northern sea regions of the U.S.S.R., p. 444, pl. CXIII, fig. 3

Occurrence: Locality 202.

Lyonsiella sp.

Lyonsiella G. Sars, 1872 (ex M. Sars MS)

Occurrence: Locality 334.

Macoma balthica (Linné) - Wagner, 1970, Geol. Surv. Can., Bull. 181, p. 41, pl. IV, fig. 3a, b; 4 a,b

= *Tellina balthica* Linné, 1758, Syst. Nat., ed. 10, p. 677

Occurrence: Localities 143; 192.

Macoma calcarea (Gmelin) - Wagner, 1970, Geol. Surv. Can., Bull. 181, p. 42, pl. IV, fig. 5a, b

= *Tellina calcarea* Gmelin, 1792, Syst. Nat., ed. 13, 7, p. 3236

Occurrence: Localities 25;53;73;76;85;87;90;152;209;215;242;247;248;271;
346;348;351;352;354;364;365;368;370;377;378;382;
394;410;424;465;485;490;559;563;576;604;607;646;
652;656.

Macoma loveni (Steenstrup) Jensen - Ockelmann, 1958, Medd. om Grønland, 122 (4), p. 132, pl. 2, fig. 11

= *Tellina (Macoma) loveni* Steenstrup, in Jensen, 1904, Vidensk.

Medd. naturh. Foren., pl. 1, fig. 5a-b

Occurrence: Locality 9.

Macoma moesta (Deshayes) - Ockelmann, 1958, Medd. om Grønland, 122 (4),
p. 129, pl. 2, fig. 13

= *Tellina moesta* Deshayes, 1854, Proc. Zool. Soc. London, p. 361

Occurrence: Localities 77; 451; 470; 487; 539; 544; 549.

Macoma torelli (Steenstrup) Jensen - Ockelmann, 1958, Medd. om Grønland, 122
(4), p. 134, pl. 2, fig. 12

= *Tellina (Macoma) Torelli* Steenstrup, in Jensen, 1904, Vidensk.

Medd. naturh. Foren., pl. 1, fig. 3a-i

Occurrence: Localities 77;94;175;267;355;356;582;652.

Macoma sp.

Macoma Leach, 1819

Occurrence: Localities 67;68;89;93;358;363;381;383;474;485;527;569;
577;605;606.

Cores 827 (250-255 cm; 275-280 cm);

838 (180 cm).

Modiolus modiolus (Linné) - Moore (editor), 1969, Treatise on Invert.
Paleontology, pt. N, Mollusca 6, 1, p. 278, fig. C20, 13 a, b

= *Mytilus modiolus* Linné, 1758, Syst. Nat., ed. 10, p. 706

Occurrence: Locality 558.

Modiolus sp.

Modiolus Lamarck, 1799

Occurrence: Locality 98.

Montacuta planata (Dall) - MacGinitie, 1959, Proc. U.S. Nat. Mus., 109,
p. 174, pl. 20, fig. 1, 3-7, 9-11

= *Tellimya planata* Dall, 1885 in Krause, Arch. Naturg., 51 (1),

p. 34, pl. 3, fig. 6a-d

Occurrence: Locality 126.

Musculus corrugatus (Stimpson) - Richards, 1962, Trans. Amer. Philos. Soc., n.s., 53 (3), p. 57, pl. 5, fig. 5, 6

= *Mytilus corrugata* Stimpson, 1851, Shells of New England, p. 12

Occurrence: Localities 352; 358; 527.

Cores 835 (44 cm);

838 (299-301 cm; 499-501 cm).

Musculus discors laevigatus (Gray) - Gaevsky, 1948, Encycl., fauna and flora of the northern sea regions of the U.S.S.R., p. 429, pl. CVIII, fig. 7

= *Modiola laevigata* Gray, 1824, Parry's first voyage, 1819-20, suppl. to appendix, p. 245

Occurrence: Locality 563.

Musculus niger (Gray) - Morris, 1973, Field Guide to Shells, p. 20, pl. 13, fig. 2

= *Modiola nigra* Gray, 1824, Parry's first voyage, 1819-20, suppl. to appendix, p. 244

Occurrence: Localities 75;76;77;78;83;94;142;332;340;342;348;349;353; 360;363;375;380;382;524;527;564;569;573;597;635.

Mya arenaria Linné - Wagner, 1970, Geol. Surv. Can., Bull. 181, p. 42, pl. IV, fig. 7a-c

= *M. arenaria* Linné, 1758, Syst. Nat., ed. 10, p. 670

Occurrence: Core 841 (78-83 cm).

Mya pseudoarenaria Schlesch - Wagner, 1970, Geol. Surv. Can., Bull. 181, p. 43, pl. V, fig. 2a-c

= *M. pseudoarenaria* Schlesch, 1931, Arch. Molluskenk., 63, p. 136, pl. 13, fig. 10-13

Occurrences: Localities 338; 551; 633; 637.

Mya truncata Linné - Wagner, 1970, Geol. Surv. Can., Bull. 181, p. 43,
pl. IV, fig. 6a, b

= *M. truncata* Linné, 1758, Syst. Nat., ed. 10, p. 670

Occurrence: Localities 75;76;77;352;439;562;580;649;652.

Mya truncata uddevallensis Forbes - Wagner, 1970, Geol. Surv. Can.,
Bull. 181, p. 43, pl. V, fig. 1a, b

= *M. truncata* var. *uddevallensis* Forbes, 1846, Mem. Geol. Surv.

Great Britain and Mus. Econ. Geol., 1, p. 407

Occurrence: Localities 563; 564; 566.

Mya sp.

Mya Linne', 1758

Occurrence: Core 845 (10-30 cm).

Nucula tenuis (Montagu) - Wagner, 1970, Geol. Surv. Can., Bull. 181, p. 35,
pl. III, fig. 8a b

= *Arca tenuis* Montagu, 1808, Test. Britannica, Suppl., p. 56

pl. 29, fig. 1

Occurrence: Localities 25;37;47;50;59;73;85;88;91;162;186;198;222;241;
290;292;343;352;361;373;377;387;395;470;481;482;
547;548;558.

Core 820 (400-406 cm).

Nucula sp.

Nucula Lamarck, 1799

Occurrence: Localities 4;166;365;382;389;424;606.

Cores 820 (750-755 cm);

821 (50-55 cm);

823 (5-10 cm).

Nuculana minuta (Fabricius) - Morris, 1973, Field Guide to Shells, p. 5,
pl. 9, fig. 12

= *Arca minuta* Fabricius, 1780, Fauna Groenl., p. 414

Occurrence: Localities 94; 162; 190; 191; 193; 413; 656.

Core 820 (400-406 cm).

Nuculana pernula (Müller) - Morris, 1973, Field Guide to Shells, p. 5,
pl. 9, fig. 13

= *Arca pernula* Müller, 1779, Beschäft Naturf. Freunde zu Berlin,
4, p. 55

Occurrence: Localities 30;76;92;157;176;185;186;247;248;249.

Nuculana pernula costigera (Leche) - Gaevsky, 1948, Encycl., fauna and flora
of the northern sea regions of the U.S.S.R., p. 417, pl. CV, fig. 5 (as
Leda pernula costigera)

= *Leda pernula* var. *costigera* Leche, 1883, Vega-Exped. Vetensk.
Iakttagelser, 3, pl. 5, fig. 1a-d

Occurrence: Localities 80;81;94;362;516;561;563;567.

Nuculana sp.

Nuculana Link, 1807

Occurrence: Localities 5;22;36;71;73;88;391;426;616.

Pandora glacialis Leach - Richards, 1962, Trans. Amer. Philos. Soc., n.s.,
52 (3), p. 58, pl. 6, fig. 1,2

= *P. glacialis* Leach, 1819, in J. Ross, Voyage Discovery Baffin's
Bay, ed. 2, app. 4, p. 174

Occurrence: Localities 37;60;76;77;78;81;84;85;95;113;147;152;193;328;
332;334;352;366;391;427;440;487;652.

Pisidium idahoense Roper - Clarke, 1973, *Malacologia*, 13 (1-2), p. 166,
pl. 17, fig. 1

= *P. idahoense* Roper, 1890, *Nautilus*, 4 (8), p. 85 [freshwater
species]

Occurrence: Core 832 (175-180 cm).

Portlandia arctica aestuariorum Mossewitsch - Gaevsky, 1948, *Encycl.*, fauna
and flora of the northern sea regions of the U.S.S.R., p. 419, pl. CVI,
fig. 1

Occurrence: Localities 77;108;109;110;111;112;119;120;121;122;123;127;
128;129;130;131;132;133;139;140;145;155;268;302;
303;306;327;331.

Portlandia arctica arctica (Gray) - Gaevsky, 1948, *Encycl.*, fauna and flora
of the northern sea regions of the U.S.S.R., p. 419, pl. CV, fig. 9

= *Nucula arctica* Gray, 1824, *Parry's first voyage, 1819-20*,
suppl. to appendix, p. 241

Occurrence: Localities 30;42;50;52;157;159;161;163;164;165;166;175;178;
183;184;185;186;189;190;191;193;202;204;240;241;
245;246;247;269;270;280;283;284;285;286;287;288;
289;292;295;296;297;376;413;437;460;471;476;599.

Core 848 (235 cm).

Portlandia arctica siliqua (Reeve) - Gaevsky, 1948, *Encycl.* fauna and
flora of the northern sea regions of the U.S.S.R., p. 419. pl. CV, fig. 11

= *Nucula siliqua* Reeve, 1855, *Last of the Arctic Voyages*, 2, p. 396

Occurrence: Localities 24;25;31;32;35;37;38;39;43;44;57;59;60;61;62;77;85;
 95;96;113;114;115;116;117;118;124;125;126;134;135;136;
 137;138;142;146;147;148;152;153;154;168;169;181;182;
 187;188;195;199;200;201;202;207;208;211;212;213;214;
 216;232;233;235;236;238;239;290;291;298;300;301;323;
 324;326;327;328;332;338;339;340;341;344;350;351;352;
 362;365;367;368;370;371;375;378;389;391;394;396;397;
 398;426;427;428;429;430;433;435;436;440;441;442;467;
 468;469;470;471;474;485;486;487;488;522;524;526;529;
 530;532;533;536;538;539;545;546;553;554;568;570;572;
 573;574;576;577;578;579;580;587;590;591.

Cores 816 (0-5 cm; 100-105 cm; 150-155 cm);

821 (25-30 cm; 125-130 cm);

826 (450-455 cm; 475-480 cm);

827 (225-230 cm);

828 (425-430 cm);

848 (275-280 cm);

853 (5-10 cm).

Portlandia arctica subspecies?

Occurrence: Cores 816 (75-80 cm; 225-230 cm);

817 (0-5 cm; 257-280 cm; 300-305 cm);

822 (50-55 cm);

823 (5-10 cm; 25-30 cm; 50-55 cm; 95-100 cm);

827 (25-30 cm; 150-155 cm; 175-180 cm; 300-305 cm);

829 (25-30 cm);

853 (45-50 cm).

Portlandia sp.*Portlandia* Mörch, 1857

Occurrence: Localities 4;9;18;23;26;31;60;78;180;301;302;303;304;319;325;
327;333;537;539;546;555;568;569;571;583.

Cores 804 (25-30 cm; 445-450 cm);
807 (475-480 cm; 725-730 cm);
808 (400-405 cm);
816 (25-30 cm);
820 (600-605 cm);
821 (75-80 cm; 100-105 cm; 150-155 cm; 175-180 cm);
826 (425-430 cm);
828 (0-5 cm; 75-80 cm; 100-105 cm; 133-138 cm; 400-405 cm);
835 (44 cm);
838 (99-101 cm; 499-501 cm).

Serripes groenlandicus (Bruguère) - Wagner, 1970, Geol. Surv. Can., Bull.
181, p. 41, pl. IV, fig. 2a, b

= *Cardium groenlandicum* Bruguère, 1789, Encycl. Méthodique, p. 222

Occurrence: Localities 76;94;353;567;598;599;652.

Tellina sp.*Tellina* Linné, 1758

Occurrence: Localities 24; 157.

Thracia deveza Sars - Ockelmann, 1958, Medd. om Grønland, 122 (4), p. 156,
pl. 3, fig. 5

= *T. truncata* var. *deveza* Sars, 1878, Mollusca regionis arcticae
Norvegiae, p. 84, pl. 6, fig. 11a, b

Occurrence: Localities 76;94;351;352;561;564.

Thracia sp.*Thracia* Blainville, 1824

Occurrence: Core 821 (125-130 cm).

Thyasira flexuosa (Montagu) - Gaevsky, 1948, Encycl., fauna and flora of the northern sea regions of the U.S.S.R., p. 438, pl. CX, fig. 12= *Tellina flexuosa* Montagu, 1803, Test. Britannica, p. 72

Occurrence: Localities 2;5;8;11;35;65;91;93;163;165;414;416;492;512.

Core 807 (400-405 cm; 675-680 cm).

Yoldia hyperborea Torell - Moore (editor), 1969, Treatise on Invert. Paleontology, pt. N. Mollusca 6, 1, p. 239, fig. A9, 11a-c= *Y. hyperborea* Torell, 1859, Bidrag till Spitzbergens Molluskfauna, p. 149, pl. 2, fig. 6a, b

Occurrence: Locality 647.

Yoldia myalis (Couthouy) - Morris, 1973, Field Guide to Shells, p. 7, pl. 10, fig. 7= *Nucula myalis* Couthouy, 1838, Boston J. Nat. Hist., 2, p. 62, pl. 3, fig. 7

Occurrence: Localities 82;84;92;489;617;634.

Yoldia sp.*Yoldia* Müller, 1842

Occurrence: Localities 89;197;551;557;635.

Yoldiella fraterna Verrill and Bush - Ockelmann, 1958, Medd. om Grønland, 122 (4), p. 37, pl. 1, fig. 15 (as *Portlandia fraterna*)= *Y. fraterna* Verrill and Bush, 1898, Proc. U.S. Nat. Mus., 20, p. 867, pl. LXXX, fig. 5; pl. LXXXII, fig. 8

Occurrence: Localities 2;3;4;5;13;24;30;31;37;65;73;118;126;127;134;140;
143;146;151;201;206;321;323;330;390;395;405;407;
413;426;431;435;441;469;475;526.

Cores 804 (470-475 cm; 595-600 cm; 725-730 cm; 795-800 cm);
807 (850-855 cm; 925-930 cm);
808 (525-530 cm; 975-980 cm);
816 (275-280 cm);
820 (125-130 cm; 400-406 cm; 475-480 cm; 575-580 cm;
705-710 cm; 775-780 cm; 850-855 cm);
821 (125-130 cm);
853 (25-30 cm; 45-50 cm).

Yoldiella frigida (Torell) - Ockelmann, 1958, Medd. om Grønland, 122 (4),
p. 34, pl. 1, fig. 14 (as *Portlandia frigida*)

= *Yoldia frigida* Torell, 1859, Bidrag till Spitzbergens Molluskfauna,
p. 148, pl. 1, fig. 3

Occurrence: Localities 35;77;163;192;236;245;249;271;442.

Cores 804 (700-705 cm);
820 (400-406 cm; 750-755 cm);
834 (800-805 cm).

Yoldiella intermedia (Sars) - Ockelmann, 1958, Medd. om Grønland, 122 (4),
p. 27, pl. 1, fig. 12 (as *Portlandia intermedia*)

= *Yoldia intermedia* Sars, 1865, Foss. Dyre. fra Quartaer., p. 38,
fig. 92-96

Occurrence: Localities 128; 129; 144; 330.

Core 820 (400-406 cm).

Yoldiella lenticula (Müller) - Ockelmann, 1958, Medd. om Grønland, 122 (4), p. 30, pl. 1, fig. 13 (as *Portlandia lenticula*)

= *Nucula lenticula* Müller, 1842, Index Moll. Groenl., p. 17

Occurrence: Localities 2;5;22;24;25;28;30;31;36;37;38;42;47;51;54;58;73;84; 85;109;127;130;135;144;157;161;163;164;165;174;175; 178;179;180;184;185;186;190;191;192;193;194;204;206; 214;222;223;227;229;240;242;246;247;266;267;270;280; 281;282;296;297;298;300;301;302;303;306;325;368;371; 390;398;400;416;471;474;477;481;510;512;618.

Cores 807 (1067 cm; 1075-1080 cm);
808 (575-580 cm; 825-830 cm; 875-880 cm);
816 (175-180 cm);
818 (249-251 cm);
820 (400-406 cm; 725-730 cm; 775-780 cm; 875-880 cm);
826 (275-280 cm).

Yoldiella sp.

Yoldiella Verrill and Bush, 1897

Occurrence: Cores 804 (840-845 cm);
808 (450-455 cm; 475-480 cm; 900-905 cm);
826 (450-455 cm);
829 (0-5 cm).

APPENDIX 4

FORAMINIFERAL REFERENCE LIST

- Adercotryma glomerata* (Brady) = *Lituola glomerata* Brady, 1878, On the reticularian and radiolarian Rhizopoda (Foraminifera and Polycystina) of the North - Polar Expedition of 1875-76. Ann. Mag. Nat. Hist., ser. 5, vol. 1, pp. 425-440, pls. 20-21 (p. 433, pl. 20, figs. 1a-c) - Loeblich and Tappan, 1953, Studies of Arctic Foraminifera. Smithsonian Misc. Coll., vol. 121, no. 7, pp. 1-150, pls. 1-24, (p. 26, pl. 8, figs. 1-4).
- Ammotium cassis* (Parker) = *Lituola cassis* Parker, 1870, In Dawson, Can. Nat., N.S., vol. 5, pp. 177, 180, fig. 3. - Leslie, 1965, Ecology and Paleoecology of Hudson Bay Foraminifera. Report B.I.O. 65-6, p. 155, pl. 8, figs. 13a, b, c.
- Astacolus hyalaerulus* Loeblich and Tappan, 1953, Studies of Arctic Foraminifera. Smithsonian Misc. Coll., v. 121, n. 7, p. 52, pl. 9, figs. 1-4 - Leslie, 1965, Ecology and Paleoecology of Hudson Bay Foraminifera, Report B.I.O. 65-6, p. 156, pl. 5, figs. 1a, b.
- Astrononion gallowayi* Loeblich and Tappan, 1953, Studies of Arctic Foraminifera. Smithsonian Misc. Coll., vol. 121, no. 7, pp. 1-150, pls. 1-24 (p. 90, pl. 17, figs. 4-7). - Feyling-Hanssen, 1964, Foraminifera in the Late Quaternary deposits from the Oslofjord area, Norges Geologiske Undersökelse, Nr. 225, p. 332, pl. 18, fig. 4.
- Bolivina* cf. *inflata* Heron-Allan and Earland, 1913, Clare Island Survey, Foraminifera. Royal Irish Acad., Proc., v. 31, pt. 64, pp. 1-188, pls. 1-13 (p. 68).
- Buccella frigida* (Cushman) = *Pulvinulina frigida* Cushman, 1922, Results of the Hudson Bay Expedition, 1920, I. The Foraminifera. Contr. Canadian Biol., no. 9 (1921), pp. 135-147 (p. 12, 144). - Leslie, 1965, Ecology and Paleoecology of Hudson Bay Foraminifera, Report B.I.O. 65-6, p. 51, figs. 15, 16, p. 73, pl. 10, figs. 2a, b, c.
- Cassidella complanata* (Egger) = *Virgulina schreibersiana* Cziczek var. *complanata* Egger, 1893, Foraminiferen aus Meeresgrundproben, gelothet von 1874 bis 1876 von S.M. Seh. Gazelle. K. Bayer. Akad. Wiss., Math. - Phys. Cl., Abh., v. 18, pt. 2, p. 292, pl. 8, figs. 91, 92. - Leslie - Ecology and Paleoecology of Hudson Bay Foraminifera, Report B.I.O. 65-6, p. 157, pl. 8, figs. 11a, b.
- Cibicides lobatulus* (Walker & Jacob) = *Nautilus lobatulus* Walker and Jacob, 1798, In Kanmacher, 1798, Adams' Essays on the microscope; the second edition, with considerable additions and improvements. Dillon and Keating (London). (p. 642). - Leslie, 1965, Ecology and Paleoecology of Hudson Bay Foraminifera, Report B.I.O. 65-6, p. 158, pl. 10, figs. 6a, b, c.
- Criboatomoides crassimargo* (Norman) = *Haplophragmium crassimargo* Norman, 1892, Rhizopoda. Museum Normanianum, pt. 7-8, pp. 14-21. The author (Durham). (p. 17). - Leslie, 1965, Ecology and Paleoecology of Hudson Bay Foraminifera, Report B.I.O. 65-6, p. 158, pl. 2, figs. 2a, b.

- Cribrostomoides jeffreysii* (Williamson) = *Nonionina jeffreysii* Williamson, 1858, On the Recent Foraminifera of Great Britain, pp. 1-107, pls. 1-7, Roy. Soc., London (p. 34, figs. 72, 73). - Leslie, 1965, Ecology and Paleoecology of Hudson Bay Foraminifera, Report B.I.O. 65-6, p. 158, pl. 2, figs. 3a, b, c.
- Cribrostomoides neobraydi* (Uchico) = *Haplophragmoides neobraydi* Uchico, T., 1960, Ecology of living benthonic foraminifera from the San Diego, California area. Cushman Found. Foram. Res., Spec. Publ., no. 5, p. 51.
- Cycologyra involvens* (Reuss) = *Operoulina involvens* Reuss, 1850, Neue Foraminiferen aus den osterreichischen Tertiar Beckens. K. Akad. Wiss. Wien., Math.-Nat. Cl., Denkschr., vol. 1, pp. 365-390, pls. 46-51 (p. 370, pl. 46, fig. 30). - Feyling-Hanssen, 1964, Foraminifera in the Late Quaternary deposits from the Oslofjord area, Norges Geologiske Undersökelse, Nr. 255, p. 246, pl. 4, fig. 9.
- Dentalina frobisherensis* Loeblich and Tappan, 1953, Studies of Arctic Foraminifera. Smithsonian Misc. Coll., vol. 121, no. 7, pp. 1-150, pls. 1-24 (p. 55, pl. 10, figs. 1-9). - Leslie, 1965, Ecology and Paleoecology of Hudson Bay Foraminifera, Report B.I.O. 65-6, p. 159, pl. 5, fig. 4.
- Dentalina ittai* Loeblich and Tappan, 1953, Studies of Arctic Foraminifera. Smithsonian Misc. Coll., vol. 121, no. 7, p. 56, pl. 10, figs. 10-12. - Leslie, 1965, Ecology and Paleoecology of Hudson Bay Foraminifera, Report B.I.O. 65-6, p. 159, pl. 5, figs. 5a, b.
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- Elphidium bartletti* Cushman, 1933, New Arctic Foraminifera collected by Capt. R.A. Bartlett from Fox Basin and off the northeast coast of Greenland. Smithsonian Misc. Coll., vol. 89, no. 9, pp. 1-8, pls. 1, 2 (p. 4, pl. 1, fig. 9). - Loeblich and Tappan, 1953, Studies of Arctic Foraminifera. Smithsonian Misc. Coll., vol. 121, no. 7, pp. 1-150, pls. 1-24 (p. 96, pl. 18, figs. 10-14).
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- Elphidium subarcticum* Cushman, 1944, Cushman Lab. Foram. Res. Spec. Publ. 12, p. 27, pl. 3, figs. 34, 35. - Loeblich and Tappan, 1953, Studies of Arctic Foraminifera, Smithsonian Misc. Coll., vol. 121, no. 7, p. 105, pl. 19, figs. 5-7.
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- Fissurina marginata* (Montagu) = *Vermiculium marginatum* Montagu, 1803, Testacea Britannica, pp. 1-606, pls. 1-16; Supplement, pp. 1-183, pls. 17-30 (p. 542). - Loeblich and Tappan, 1953, Studies of Arctic Foraminifera, Smithsonian Misc. Coll., vol. 121, no. 7, pp. 1-150, pls. 1-24 (p. 77, pl. 14, figs. 7-9).
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- Globulina landesi* (G.D. Hanna and M.A. Hanna) = *Polymorphina landesi*, Hanna and Hanna, 1924, Foraminifera from the Eocene of Cowlitz River, Lewis County, Washington Univ., Washington Publ. in Geol. 1 (4). - *Globulina landesi* (Hanna and Hanna) - Rolf W. Feyling-Hanssen, Jørgen Anker Jørgensen, Karen Luise Knudsen and Anne-Lise Andersen, 1971, Late Quaternary Foraminifera from Vendsyssel, Denmark and Sandes, Norway. Geol. Surv. Denmark, Bull., vol. 21, pt. 2-3, p. 217, pl. 5, fig. 4.
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- Islandiella norcrossi* (Cushman) = *Cassidulina norcrossi* Cushman, 1933, New Arctic Foraminifera collected by Capt. R.A. Bartlett from Fox Basin and off the Northeast coast of Greenland, Smithsonian Misc. Coll., vol. 89, no. 9, pp. 1-8, pls. 1, 2 (p. 7, pl. 2, fig. 7).
- Islandiella teretis* (Tappan) = *Cassidulina teretis* Tappan, 1951, Northern Alaska Index Foraminifera, Contr. Cushman Found. Foram. Res., vol. 2, pt. 1, pp. 1-8, pl. 1.
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- Lagena gracillima* (Sequenza) = *Amphorina gracillima* Sequenza, 1862, Die terreni terziarii del distretto di Messina, Parte II. Descrizione dei foraminiferi monotalamici delle marne mioceniche del distretto di Messina, pp. 1-84, pls. 1-2, T. Capra (Messina). - Loeblich and Tappan, 1953, Studies of Arctic Foraminifera, Smithsonian Misc. Coll., vol. 121, no. 7, p. 60, pl. 11, figs. 1-4.

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APPENDIX 5

STATION LOCATIONS - GRAB SAMPLESC.S.S. HUDSON, 1970 (H#69-050)

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
1.	69°38'N	138°45'W	47m	340
2.	69°45'	138°34'W	177m	341
3.	69°28'	138°48'	49m	342
4.	69°36'	138°24'	124m	343
5.	69°40'	138°14'	139m	344
6.	70°27.5'	138°57'	740m	345
7.	70°19'	138°47.5'	539m	346
8.	70°12.5'	138°40'	390m	347
9.	70°06.5'	138°31'	290m	348
10.	69°57.5'	138°27'	250m	349
11.	69°50.5'	138°18'	198m	350
12.	69°56'	138°54.8'	187m	351
13.	69°53.2'	139°05'	60m	352
14.	70°22'	139°05.5'	610m	354
15.	70°15.5'	139°12.3'	451m	355
16.	70°08.4'	139°15.9'	211m	356
17.	69°54.2'	139°28.1'	44m	357
18.	69°42'	139°42.1'	15m	358
19.	70°37'	139°29'	1426m	361
20.	70°22"	139°42'	515m	362
21.	70°10.3'	139°52.6'	69m	363
22.	69°59.28'	140°15.74'	51m	364
23.	69°43'	140°37'	26m	365
24.	69°11'	137°57'	33m	366
25.	69°22.1'	138°04.8'	47m	367
26.	69°33'	138°11.8'	109m	368
27.	70°30.5'	138°19.5'	795m	369
28.	70°19.8'	138°11'	421m	370
29.	70°10.5'	137°59.5'	241m	371
30.	70°01'	137°57'	109m	372
31.	69°47'N	137°32'	66m	373
32.	69°36'	137°20'	44m	374
33.	69°27'	137°10'	24m	375
34.	70°29.8'	137°49'	846m	376
35.	70°21.5'	137°33'	322m	377
36.	70°08.2'N	137°15.8'W	47m	378
37.	69°58'	137°00'	38m	379
38.	65°51'	136°48'	27m	380
39.	69°44.7'	136°37.3'	18m	381
40.	70°45.7'	137°04'	1390m	383
41.	70°32'	136°40'	700m	384
42.	70°18'	136°15'	57m	385
43.	70°10.6'	135°54.5'	46m	386
44.	70°00.6'	135°39.1'	28m	387
45.	70°50.85'	136°17.92'	880m	388

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
46.	70°42.5'	135°52'	470m	389
47.	70°37.6'	135°47.4'	87m	390
48.	70°26'	135°27'	62m	391
49.	70°17.6'	135°11'	55m	392
50.	70°08'	134°54'	37m	393
51.	70°41.3'	134°41.5'	58m	394
52.	70°26.5'	134°17.5'	62m	395
53.	70°17'	134°00'	45m	396
54.	70°57.4'	135°03.4'	457m	398
55.	70°52.35'	134°57'	146m	399
56.	70°46.5'	134°50'	73m	400
57.	70°08.5'	132°47.9'	25m	401
58.	70°14.5'	132°06.1'	31m	402
59.	70°07'	131°35'	17m	403
60.	70°00'	132°32'	19m	404
61.	69°52'	133°19.5'	16m	405
62.	70°02'	133°45.8'	30m	406
63.	71°12'	134°22.5'	850m	407
64.	71°01'	134°07'	289m	408
65.	70°56'	133°59.5'	80m	409
66.	70°47'	133°47'	80m	410
67.	70°38'	133°29'	62m	411
68.	70°24'	133°09'	42m	412
69.	71°18.5'	133°23.5'	699m	413
70.	71°09.5'	133°07'	346m	414
71.	71°02.8'	132°59.5'	80m	415
72.	70°56.2'	132°47.'	65m	416
73.	70°45.2'	132°27.6'	51m	418
74.	70°31.8'	132°10'	35m	419
75.	70°52'	128°33'	36m	420
76.	70°41'	128°19'	29m	421
77.	70°29.8'	129°22.8'	16m	422
78.	70°38.7'	129°39.4'	22m	423
79.	71°25.7'	132°06'	585m	424
80.	71°14.7'	131°54.8'	104m	425
81.	71°03.5'	131°42.7'	62m	426
82.	70°56.5'	131°24.7'	54m	427
83.	70°41.5'	130°52.1'	33m	428
84.	70°31.8'	130°41.6'	25m	429
85.	70°22.4'	130°31.0'	18m	430
86.	71°26.75'	130°53.87'	314m	431
87.	71°16.6'	130°37.6'	62m	432
88.	71°07.'	130°17.8'	44m	433
89.	70°56.9'	130°03.6'	38m	434
90.	70°50'	129°52'	29m	435
91.	71°25.2'	129°27.3'	69m	436
92.	71°17.5'	129°10.6'	47m	437
93.	71°07.9'	128°59.1'	40m	438
94.	71°01'	128°49.5'	40m	439
95.	69°56.5'	134°33'	16m	440

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
96.	69°51'	135°20'	16m	441
97.	71°34.3'	129°41.8'	225m	442

C.S.S. RICHARDSON 1970

98.	69°25.36'	132°59.70'	4.5m	1
99.	69°30.47'	133°05.37'	3.0m	2
100.	69°30.56'	133°10.86'	4.3m	3
101.	69°30.20'	133°17.77'	4.3m	4
102.	69°30.18'	133°22.86'	3.5m	4A
103.	69°32.57'	133°24.05'	4.0m	5
104.	69°33.49'	133°10.56'	5.0m	6
105.	69°34.66'	133°02.76'	3.0m	7
106.	69°36.08'	133°08.70'	5.0m	8
107.	69°37.52'	133°14.45'	5.0m	9
108.	69°38.63'	133°06.93'	5.3m	10
109.	69°41.08'	133°01.37'	6.5m	11
110.	69°43.25'	132°56.00'	6.0m	12
111.	69°42.12'	133°03.36'	7.0m	13
112.	69°45.00'	133°03.36'	7.5m	14
113.	69°47.42'	133°05.12'	9.5m	15
114.	69°46.68'	133°14.55'	10.0	15A
115.	69°51.48'	133°10.16'	14.5m	16
116.	69°52.76'	132°54.41'	13.0m	17
117.	69°51.74'	132°36.01'	11.0m	19
118.	69°48.66'	132°34.98'	9.0m	20
119.	69°47.35'	132°38.92'	7.0m	21
120.	69°45.94'	132°42.15'	7.0m	22
121.	69°37.97'	133°39.86'	4.0m	23
122.	69°41.78'	133°37.40'	5.0m	24
123.	69°45.33'	133°34.91'	7.5m	25
124.	69°48.56'	133°33.16'	10.0m	26
125.	69°58.48'	134°10.56'	16.0m	30
126.	69°54.63'	134°08.43'	11.0m	31
127.	69°51.24'	134°06.37'	8.0m	32
128.	69°47.40'	134°03.96'	5.3m	33
129.	69°43.03'	134°02.03'	4.0m	34
130.	69°49.47'	134°17.91'	7.0m	35
131.	69°51.63'	134°15.79'	8.0m	35A
132.	69°45.13'	134°44.57'	6.0m	36
133.	69°48.38'	134°41.11'	7.5m	37
134.	69°51.40'	134°41.07'	10.0m	38
135.	69°59.13'	134°48.04'	20.0m	40
136.	69°55.17'	134°41.87'	23.0m	41
137.	69°55.74'	135°20.22'	26.0m	42
138.	69°52.16'	135°17.87'	17.0m	43
139.	69°48.81'	135°15.42'	11.0m	44
140.	69°44.91'	135°13.05'	8.0m	45
141.	69°41.47'	135°11.46'	6.0m	46
142.	70°00.70'	131°31.60'	14.0m	47
143.	69°57.40'	131°19.00'	4.0m	48

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
144.	70°03.10'	131°01.40'	6.0m	49
145.	70°00.50'	131°14.90'	8.0m	50
146.	70°04.16'	131°16.41'	14.0m	51
147.	70°08.58'	131°15.75'	17.0m	52
148.	70°12.58'	131°14.66'	23.0m	53
149.	70°16.33'	131°17.25'	26.0m	54
150.	70°20.41'	131°15.50'	28.2m	55
151.	70°11.90'	131°45.16'	27.0m	56
152.	70°08.60'	131°46.05'	18.0m	57
153.	70°04.58'	131°45.66'	18.0m	58
154.	69°56.50'	131°45.16'	12.0m	60
155.	69°52.25'	131°44.03'	10.0	61

C.S.S. PARIZEAU 1970 (70-22)

156.	69°34.18'	138°55.00'	8.8m	5
157.	69°16.20'	138°09.00'	36.6m	6
158.	69°21.5'	138°17.5'	40.0m	7
159.	69°21.6'	138°03.4'	46.0m	8
160.	69°15.0'	137°35.0'	34.0m	9
161.	69°16.0'	137°48.0'	40.0m	10
162.	69°35.0'	137°50.0'	71.0m	11
163.	69°30.0'	137°50.0'	63.0m	12
164.	69°25.0'	137°50.0'	50.0m	13
165.	69°25.0'	138°05.0'	84.0m	14
166.	69°25.0'	138°16.0'	57.0m	15
167.	69°09.5'	137°41.0'	27.0m	16
168.	69°10.0'	137°32.0'	20.0m	17
169.	69°08.0'	137°32.5'	15.0m	18
170.	69°03.0'	137°45.0'	4.0m	19
171.	69°03.5'	137°43.0'	10.0m	20
172.	69°35.0'	138°46.5'	21.0m	21
173.	69°35.5'	138°26.0'	108.0m	22
174.	69°36.0'	138°12.0'	128.0m	23
175.	69°36.0'	138°01.0'	109.0m	24
176.	69°30.0'	138°01.0'	80.0m	25
177.	69°20.0'	137°35.0'	33.0m	26
178.	69°20.0'	137°50.0'	43.0m	27
179.	69°06.0'	137°50.0'	15.0m	28
180.	69°20.0'	137°20.0'	40.0m	29
181.	69°25.0'	137°06.0'	31.0m	30
182.	69°30.0'	136°52.0'	17.0m	31
183.	69°30.0'	137°06.0'	37.0m	32
184.	69°30.0'	137°20.0'	51.0m	33
185.	69°40.0'	137°20.0'	58.0m	34
186.	69°35.0'	137°20.0'	60.0m	35
187.	69°35.0'	136°39.0'	17.0m	36
188.	69°35.0'	136°52.0'	28.0m	37
189.	69°35.0'	137°06.0'	43.0m	38
190.	69°39.25'	137°21.0'	53.0m	39
191.	69°35.0'	137°35.0'	61.0m	40

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
192.	69°30.0'	137°35.0'	57.0m	41
193.	69°25.0'	137°35.0'	42.0m	42
194.	69°25.0'	137°20.0'	42.0m	43
195.	69°26.0'	138°31.0'	22.0m	44
196.	69°25.9'	138°46.5'	49.0m	45
197.	69°30.0'	138°17.4'	93.0m	46
198.	69°30.0'	138°30.7'	41.0m	47
199.	69°30.0'	138°46.02'	13.0m	48
200.	69°40.0'	136°25.0'	17.0m	49
201.	69°40.0'	136°39.0'	30.0m	50
202.	69°40.0'	136°52.0'	22.0m	51
203.	69°40.0'	137°06.0'	29.0m	52
204.	69°40.0'	138°03.0'	59.0m	53
205.	69°40.0'	137°50.0'	73.0m	54
206.	69°40.0'	137°35.0'	128.0m	55
207.	69°16.0'	138°17.0'	13.0m	56
208.	69°15.0'	138°15.0'	13.0m	57
209.	69°14.0'	138°14.5'	15.0m	58
210.	69°12.0'	138°12.0'	15.0m	59
211.	69°11.0'	138°10.0'	16.0m	60
212.	69°10.0'	138°07.0'	16.0m	61
213.	69°09.25'	138°05.0'	17.0m	62
214.	69°08.5'	138°04.0'	16.0m	63
215.	69°08.0'	138°01.0'	19.0m	64
216.	69°07.5'	137°58.5'	19.0m	65
217.	69°40.0'	138°45.7'	85.0m	66
218.	69°40.0'	139°00.0'	47.0m	67
219.	69°40.0'	139°14.3'	38.0m	68
220.	69°45.0'	139°14.3'	38.0m	69
221.	69°45.0'	138°45.7'	165.0m	71
222.	69°40.0'	138°18.0'	146.0m	72
223.	69°45.0'	138°03.0'	148.0m	73
224.	69°45.0'	138°18.0'	165.0m	74
225.	69°45.0'	138°32.0'	174.0m	75
226.	69°40.0'	138°32.0'	128.0m	76
227.	69°45.0'	137°50.0'	96.0m	77
228.	69°45.0'	137°34.0'	68.0m	78
229.	69°45.3'	137°20.0'	59.0m	79
230.	69°46.0'	137°06.0'	43.0m	80
231.	69°46.0'	136°52.0'	30.0m	81
232.	69°45.2'	136°39.0'	22.0m	82
233.	69°45.0'	136°25.0'	15.0m	83
234.	69°45.0'	136°10.0'	10.0m	84
235.	69°45.0'	135°55.0'	11.0m	85
236.	69°50.0'	135°56.0'	14.5m	86
237.	69°50.0'	136°10.0'	18.0m	87
238.	69°50.0'	136°25.0'	18.0m	88
239.	69°50.0'	136°39.0'	24.0m	89
240.	69°50.0'	136°52.0'	33.0m	90
241.	69°50.0'	137°05.0'	40.0m	91
242.	69°50.5'	137°35.0'	69.0m	92
243.	69°51.0'	137°20.0'	58.0m	93

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
244.	69°55.0'	137°06.0'	43.0m	94
245.	69°56.0'	137°20.0'	63.0m	95
246.	69°55.0'	137°35.0'	73.0m	96
247.	69°51.0'	137°49.0'	100.0m	97
248.	69°50.0'	139°00.0'	71.0m	98
249.	69°50.0'	139°15.0'	45.0m	99
250.	69°55.0'	139°15.0'	53.0m	100
251.	69°55.0'	139°00.0'	180.0m	101
252.	70°01.0'	139°01.0'	200.0m	102
253.	70°04.5'	139°01.0'	240.0m	103
254.	70°00.0'	138°55.0'	300.0m	104
255.	69°31.5'	138°49.0'	8.5m	105
256.	69°33.0'	138°47.5'	7.6m	106
257.	69°33.6'	138°50.0'	7.4m	107
258.	69°50.0'	138°46.0'	191.0m	108
259.	69°55.0'	138°46.0'	197.0m	109
260.	70°05.0'	138°46.0'	236.0m	110
261.	70°05.0'	138°30.0'	296.0m	111
262.	70°00.0'	138°28.0'	270.0m	112
263.	69°55.0'	138°30.0'	246.0m	113
264.	69°54.0'	138°17.0'	225.0m	114
265.	69°55.0'	138°02.0'	172.0m	115
266.	69°55.0'	137°49.0'	113.0m	116
267.	70°00.0'	137°35.0'	73.0m	117
268.	69°50.0'	134°46.7°	5.5m	118
269.	70°00.0'	137°05.0'	48.0m	119
270.	70°00.0'	137°20.0'	66.0m	120
271.	70°00.0'	137°49.0'	117.0m	121
272.	70°00.0'	138°02.0'	180.0m	122
273.	70°00.0'	138°18.0'	236.0m	123
274.	70°05.0'	138°18.0'	255.0m	124
275.	70°05.0'	138°02.0'	200.0m	125
276.	70°05.0'	137°50.0'	115.0m	126
277.	69°50.0'	138°31.0'	193.0m	127
278.	69°50.0'	138°17.0'	200.0m	128
279.	69°50.0'	138°03.0'	159.0m	129
280.	70°05.0'	137°33.0'	66.0m	130
281.	70°05.5'	137°19.0'	50.0m	131
282.	70°05.0'	137°05.0'	41.0m	132
283.	69°55.0'	136°52.0'	35.0m	133
284.	70°00.0'	136°52.0'	36.0m	134
285.	70°00.0'	136°37.0'	35.0m	135
286.	69°55.0'	136°37.0'	31.0m	136
287.	69°55.0'	136°24.0'	25.5m	137
288.	70°00.0'	136°24.0'	34.0m	138
289.	70°00.0'	136°09.0'	32.0m	139
290.	69°55.0'	136°09.0'	21.0m	140
291.	69°55.0'	135°55.0'	20.0m	141
292.	70°00.0'	135°55.0'	31.0m	142
293.	70°05.2'	135°55.0'	42.0m	143
294.	70°05.0'	136°10.0'	40.0m	144
295.	70°05.0'	136°23.0'	38.0m	145

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
296.	70°05.0'	136°38.0'	37.0m	146
297.	70°05.3'	136°54.0'	38.0m	147

Helicopter Operations 1971 (AC-71)

298.	69°42.5'	136°07.5'	20m	1
299.	69°31.5'	137°03.5'	8m	3
300.	69°23.0'	137°40.0'	26m	4
301.	69°09.8'	137°30.0'	17m	5
302.	69°17.3'	137°05.0'	3m	6
303.	69°21.4'	136°50.0'	2m	7
304.	69°26.5'	136°31.0'	6m	8
305.	69°34.5'	136°08.0'	4m	9
306.	69°37.0'	135°52.0'	3m	10
307.	69°25.5'	135°51.5'	1m	11
308.	69°08.0'	136°44.3'	2m	14
309.	69°00.8'	137°07.3'	4m	15
310.	68°56.7'	136°44.5'	2m	16
311.	69°01.5'	136°30.2'	2m	17
312.	68°54.3'	136°20.0'	2m	19
313.	68°56.0'	136°16.0'	2m	20
314.	68°53.5'	136°02.0'	5m	22
315.	68°49.5'	135°46.0'	1m	23
316.	68°45.2'	135°29.5'	2m	24
317.	68°30.0'	134°32.0'	1m	27
318.	69°40.5'	137°04.0'	32m	31
319.	69°44.5'	13°24.0'	6m	32
320.	69°46.5'	134°54.0'	4m	33
321.	69°50.0'	134°30.0'	4m	34
322.	69°41.0'	132°52.5'	2m	35
323.	69°46.5'	132°50.5'	8m	36
324.	69°54.3'	132°49.0'	10m	37
325.	69°46.8'	132°04.0'	3m	38
326.	69°59.5'	132°03.0'	6m	39
327.	70°09.0'	132°03.0'	11m	40
328.	70°04.4'	131°12.5'	12m	42
329.	70°12.3'	131°13.0'	24m	43
330.	70°15.3'	130°05.0'	8m	45
331.	70°24.5'	130°07.5'	7m	46
332.	70°30.0'	130°11.0'	20m	47
333.	70°24.5'	128°47.5'	13m	48
334.	70°13.0'	128°21.5'	12m	49
335.	69°39.5'	130°34.0'	8m	50
336.	69°46.0'	130°10.0'	10m	51
337.	69°51.3'	129°14.0'	10m	52
338.	69°47.5'	129°44.5'	14.0	53

C.S.S. PARIZEAU 1971

339.	70°03.7'	131°50.0'	18.0m	3
340.	70°01.9'	132°06.9'	22.0m	4
341.	70°07.4'	132°05.9'	30.0m	5
342.	70°12.8'	132°05.2'	34.0m	6

LOCALITY.	LAT.	LONG.	DEPTH	CRUISE STN. NO.
343.	70°12.5'	131°49.5'	34.0m	7
344.	70°07.1'	131°50.3'	32.0m	8
345.	70°18.3'	132°04.2'	30.0m	9
346.	70°23.1'	132°03.8'	37.0m	10
347.	70°23.1'	131°47.7'	37.0m	11
348.	70°23.0'	131°31.4'	49.0m	12
349.	70°17.9'	131°48.5'	39.0m	13
350.	70°17.5'	131°33.5'	35.0m	14
351.	70°12.2'	131°33.1'	24.0m	15
352.	70°07.4'	131°34.1'	21.0m	16
353.	70°28.1'	131°31.2'	45.0m	17
354.	70°28.6'	131°46.8'	34.0m	18
355.	70°28.9'	132°02.9'	35.0m	19
356.	70°29.1'	132°19.4'	36.0m	20
357.	70°29.4'	132°35.2'	39.0m	21
358.	70°23.8'	132°35.9'	39.0m	22
359.	70°23.6'	132°20.3'	33.0m	23
360.	70°18.9'	132°36.3'	35.0m	24
361.	70°18.5'	132°20.7'	31.0m	25
362.	70°13.1'	132°21.6'	24.0m	26
363.	70°13.2'	132°37.4'	31.0m	27
364.	70°07.9'	132°37.2'	25.0m	28
365.	70°07.8'	132°21.9'	24.0m	29
366.	70°13.7'	132°52.8'	31.0m	30
367.	70°08.2'	132°53.5'	23.0m	31
368.	70°02.7'	132°53.8'	23.0m	32
369.	69°57.3'	132°54.5'	21.0m	33
370.	69°57.6'	133°10.4'	20.0m	34
371.	70°02.8'	133°09.6'	22.0m	35
372.	70°03.1'	133°25.7'	30.0m	36
373.	69°57.5'	133°25.8'	23.0m	37
374.	69°57.4'	133°41.5'	18.0m	38
375.	70°02.9'	133°40.6'	33.0m	39
376.	70°08.8'	133°41.3'	42.0m	40
377.	70°13.8'	133°40.4'	48.0m	41
378.	70°13.7'	133°24.6'	37.0m	42
379.	70°13.6'	133°08.7'	34.0m	43
380.	70°19.0'	133°08.2'	38.0m	44
381.	70°18.8'	132°52.2'	38.0m	45
382.	70°24.1'	132°51.7'	42.0m	46
383.	70°29.6'	132°51.3'	46.0m	47
384.	70°29.6'	133°07.4'	49.0m	48
385.	70°24.3'	133°07.8'	46.0m	49
386.	70°19.3'	133°23.8'	40.0m	50
387.	70°19.2'	133°40.4'	55.0m	51
388.	70°14.0'	133°56.6'	44.0m	52
389.	70°08.7'	134°28.3'	30.0m	53
390.	70°03.3'	134°44.3'	22.0m	54
391.	70°03.4'	134°59.7'	31.0m	55
392.	70°03.4'	135°15.6'	42.0m	56
393.	70°03.4'	135°31.7'	42.0m	57
394.	70°03.5'	135°47.6'	38.0m	58

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
395.	69°58.0'	135°31.1'	33.0m	59
396.	69°52.4'	134°44.1'	7.0m	60
397.	69°57.9'	134°44.1'	14.0m	61
398.	70°19.0'	136°51.8'	64.0m	62
399.	70°19.2'	136°36.3'	58.0m	63
400.	70°19.2'	136°19.8'	59.0m	64
401.	70°19.4'	136°03.9'	62.0m	65
402.	70°19.4'	135°47.8'	62.0m	66
403.	70°19.4'	135°31.6'	60.0m	67
404.	70°24.8'	135°31.5'	60.0m	68
405.	70°24.8'	135°48.0'	64.0m	69
406.	70°24.8'	136°04.2'	58.0m	70
407.	70°24.8'	136°19.7'	57.0m	71
408.	70°24.5'	136°35.9'	67.0m	72
409.	70°16.5'	138°10.7'	369.0m	73
410.	70°17.7'	137°54.4'	240.0m	74
411.	70°18.4'	137°38.8'	88.0m	75
412.	70°18.7'	137°23.5'	76.0m	76
413.	70°18.8'	137°07.6'	69.0m	77
414.	70°24.2'	137°08.2'	539.0m	78
415.	70°24.3'	136°52.2'	362.0m	79
416.	70°29.9'	136°36.5'	439.0m	80
417.	70°30.0'	136°20.1'	95.0m	81
418.	70°30.2'	136°03.0'	67.0m	82
419.	70°30.0'	135°48.3'	69.0m	83
420.	70°30.3'	135°32.6'	66.0m	84
421.	70°14.3'	135°31.8'	55.0m	85
422.	70°14.3'	135°16.1'	55.0m	86
423.	70°08.8'	135°16.4'	51.0m	87
424.	70°09.0'	135°31.5'	59.0m	88
425.	69°58.1'	135°15.3'	37.0m	89
426.	69°52.7'	135°00.2'	16.0m	90
427.	69°52.7'	135°15.8'	19.0m	91
428.	69°52.6'	135°31.5'	23.0m	92
429.	69°58.0'	134°59.6'	23.0m	93
430.	69°47.3'	135°31.2'	22.0m	94
431.	69°47.2'	135°15.5'	7.0m	95
432.	69°48.4'	135°00.0'	10.0m	96
433.	70°08.8'	135°60.0'	42.0m	97
434.	70°08.8'	134°44.3'	40.0m	98
435.	70°03.4'	134°28.4'	23.0m	99
436.	70°03.3'	134°12.7'	25.0m	100
437.	70°08.9'	134°11.9'	33.0m	101
438.	70°08.4'	133°56.3'	39.0m	102
439.	70°03.4'	133°57.2'	26.0m	103
440.	69°57.8'	133°57.1'	13.0m	104
441.	69°57.9'	134°12.8'	12.0m	105
442.	69°58.0'	134°28.5'	13.0m	106
443.	70°14.1'	134°59.9'	49.0m	107
444.	70°14.1'	134°44.0'	44.0m	108
445.	70°14.1'	134°28.3'	42.0m	109
446.	70°14.1'	134°12.2'	45.0m	110

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
447.	70°30.1'	134°11.8'	67.0m	111
448.	70°30.2'	133°55.4'	68.0m	112
449.	70°30.1'	133°39.2'	75.0m	113
450.	70°29.9'	133°23.3'	36.0m	114
451.	70°24.5'	133°23.9'	49.0m	115
452.	70°24.7'	133°39.9'	69.0m	116
453.	70°24.7'	133°55.8'	62.0m	117
454.	70°19.5'	133°56.1'	51.0m	119
455.	70°19.5'	134°11.8'	46.0m	120
456.	70°19.5'	134°27.9'	46.0m	121
457.	70°24.9'	134°28.1'	55.0m	122
458.	70°29.9'	134°42.9'	56.0m	124
459.	70°24.9'	134°44.0'	54.0m	125
460.	70°19.2'	134°44.1'	45.0m	126
461.	70°19.5'	134°59.9'	55.0m	127
462.	70°19.5'	135°15.7'	55.0m	128
463.	70°25.0'	135°15.9'	58.0m	129
464.	70°25.0'	135°00.0'	62.0m	130
465.	70°30.4'	134°59.9'	60.0m	131
466.	70°30.3'	135°16.2'	60.0m	132
467.	69°47.6'	136°10.4'	16.0m	133
468.	69°47.0'	135°46.7'	8.0m	134
469.	69°52.5'	135°46.9'	16.0m	135
470.	69°57.9'	135°47.1'	22.0m	136
471.	70°08.7'	135°47.5'	42.0m	137
472.	70°08.6'	136°03.6'	42.0m	138
473.	70°08.5'	136°19.4'	42.0m	139
474.	70°08.8'	136°35.4'	43.0m	140
475.	70°13.8'	136°35.3'	46.0m	141
476.	70°13.8'	136°19.4'	50.0m	142
477.	70°13.7'	136°03.3'	50.0m	143
478.	70°14.0'	135°47.4'	52.0m	144
479.	70°35.5'	134°59.8'	57.0m	145
480.	70°35.7'	134°43.5'	58.0m	146
481.	70°35.6'	134°27.6'	60.0m	147
482.	70°35.6'	134°11.3'	58.0m	148
483.	70°35.5'	133°55.0'	62.0m	149
484.	70°35.4'	133°39.1'	70.0m	150
485.	70°02.2'	132°22.7'	21.0m	151
486.	69°56.8'	132°23.6'	13.0m	152
487.	69°57.1'	132°39.4'	23.0m	153
488.	70°02.5'	132°38.8'	16.0m	154
489.	70°08.3'	133°09.7'	23.0m	155
490.	70°08.6'	133°25.6'	42.0m	156
491.	70°35.8'	135°16.8'	60.0m	157
492.	70°40.9'	135°49.0'	335.0m	161
493.	70°40.9'	135°32.3'	146.0m	162
494.	70°41.1'	135°16.3'	71.0m	163
495.	70°41.1'	135°00.1'	62.0m	164
496.	70°41.1'	134°43.9'	56.0m	165
497.	70°41.1'	134°27.8'	58.0m	166
498.	70°41.1'	134°11.1'	64.0m	167

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
499.	70°41.0'	133°54.7'	65.0m	168
500.	70°40.6'	133°38.2'	71.0m	169
501.	70°35.4'	133°23.0'	58.0m	171
502.	70°35.2'	133°06.5'	50.0m	172
503.	70°40.3'	133°06.5'	49.0m	173
504.	70°45.8'	133°05.9'	54.0m	174
505.	70°46.0'	133°22.5'	62.0m	175
506.	70°46.2'	133°38.9'	71.0m	176
507.	70°46.2'	133°54.9'	73.0m	177
508.	70°46.3'	134°11.3'	66.0m	178
509.	70°46.3'	134°27.4'	62.0m	179
510.	70°46.4'	135°00.2'	75.0m	181
511.	70°46.4'	135°16.1'	126.0m	182
512.	70°51.9'	135°00.3'	167.0m	183
513.	70°51.8'	134°43.3'	87.0m	184
514.	70°51.7'	134°27.2'	78.0m	185
515.	70°51.8'	134°11.2'	78.0m	186
516.	70°50.5'	133°53.4'	78.0m	187
517.	70°50.7'	133°19.8'	66.0m	189
518.	70°50.2'	133°03.9'	62.0m	190
519.	69°56.0'	130°24.0'	10.7m	191
520.	69°41.7'	130°22.5'	11.6m	192
521.	69°48.7'	130°09.5'	9.5m	193
522.	69°45.6'	130°03.5'	11.6m	194
523.	69°52.9'	129°51.0'	8.8m	195
524.	69°49.6'	129°45.0'	13.7m	196
525.	69°56.8'	129°32.5'	11.0m	197
526.	69°53.5'	129°26.5'	15.3m	198
527.	70°06.0'	129°14.0'	11.0m	199
528.	69°57.4'	129°07.7'	15.3m	200

C.S.S. PARIZEAU 1972

529.	70°06.8'	131°14.0'	15.9m	1
530.	70°12.4'	131°15.1'	22.9m	2
531.	70°17.6'	131°15.6'	25.6m	3
532.	70°17.7'	130°59.2'	18.3m	4
533.	70°17.8'	130°43.3'	14.6m	5
534.	70°12.4'	130°59.2'	15.2m	6
535.	70°18.2'	130°27.8'	10.7m	7
536.	70°18.2'	130°11.8'	9.1m	8
537.	70°23.7'	129°56.1'	13.7m	9
538.	70°29.1'	129°56.4'	16.8m	10
539.	70°23.5'	130°28.0'	16.7m	11
540.	70°23.7'	130°12.5'	14.6m	12
541.	70°28.8'	130°12.2'	18.3m	13
542.	70°28.8'	130°28.6'	23.8m	14
543.	70°28.7'	130°44.6'	22.9m	15
544.	70°28.5'	131°00.5'	25.9m	16
545.	70°23.2'	131°00.0'	21.9m	17
546.	70°23.5'	130°44.0'	19.8m	18
547.	70°23.0'	131°16.1'	31.4m	19
548.	70°28.4'	131°16.9'	34.2m	20

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
549.	70°33.7'	131°17.3'	32.0m	21
550.	70°33.9'	131°01.0'	32.9m	22
551.	70°34.1'	130°45.0'	25.9m	23
552.	70°34.3'	130°29.0'	27.4m	24
553.	70°34.4'	130°12.8'	24.4m	25
554.	70°34.5'	129°56.4'	20.7m	26
555.	70°39.9'	129°57.0'	23.8m	27
556.	70°39.7'	130°13.3'	27.4m	28
557.	70°39.4'	130°45.5'	32.0m	29
558.	70°39.3'	131°01.9'	45.7m	30
559.	70°39.1'	131°18.0'	31.1m	31
560.	70°56.2'	128°18.6'	48.8m	32
561.	70°56.0'	128°35.0'	44.2m	33
562.	70°56.0'	128°51.8'	35.1m	34
563.	70°50.8'	128°51.8'	32.0m	35
564.	70°50.7'	128°35.4'	38.1m	36
565.	70°50.9'	128°18.9'	42.7m	37
566.	70°45.5'	128°19.9'	40.6m	38
567.	70°45.4'	128°35.1'	28.9m	39
568.	70°40.0'	128°35.7'	16.8m	40
569.	70°40.0'	128°51.9'	19.5m	41
570.	70°40.0'	129°08.1'	19.8m	42
571.	70°40.0'	129°24.4'	20.7m	43
572.	70°34.6'	129°24.3'	18.7m	44
573.	70°34.5'	129°40.4'	19.2m	45
574.	70°23.8'	129°40.1'	10.7m	47
575.	70°26.5'	129°23.5'	10.7m	48
576.	70°29.3'	129°08.1'	12.2m	49
577.	70°29.2'	128°51.9'	11.3m	50
578.	70°29.3'	128°36.2'	13.7m	51
579.	70°29.2'	128°25.0'	10.7m	52
580.	70°23.8'	128°36.2'	12.2m	53
581.	70°18.4'	128°36.3'	12.2m	54
582.	70°18.5'	128°52.0'	12.2m	55
583.	70°22.2'	129°05.4'	9.5m	56
584.	70°18.5'	128°59.6'	10.7m	57
585.	70°13.1'	128°52.1'	12.5m	58
586.	70°13.1'	128°36.2'	10.7m	59
587.	70°19.8'	128°55.0'	8.5m	60
588.	70°18.4'	128°20.1'	8.5m	61
589.	70°13.0'	128°20.2'	7.9m	62
590.	70°34.5'	129°07.7'	16.8m	63
591.	70°34.6'	128°35.8'	13.7m	65
592.	71°57.7'	125°20.8'	11.3m	66
593.	70°44.5'	131°18.7'	44.8m	67
594.	70°44.7'	131°02.3'	48.8m	68
595.	70°44.9'	130°46.0'	35.1m	69
596.	70°39.6'	130°29.3'	29.0m	70
597.	70°45.0'	130°29.7'	35.0m	71
598.	70°45.1'	130°13.4'	30.5m	72
599.	70°45.2'	129°57.1'	25.9m	73
600.	70°45.3'	129°40.8'	24.4m	74
601.	70°50.5'	129°41.0'	27.4m	75
602.	70°50.6'	129°57.5'	30.5m	76

LOCALITY	LAT.	LONG.	DEPTH	CRUISE STN. NO.
603.	70°50.4'	130°13.7'	36.6m	77
604.	70°50.3'	130°30.0'	38.1m	78
605.	70°50.2'	130°46.5'	38.7m	79
606.	70°50.0'	131°03.0'	50.3m	80
607.	70°49.9'	131°19.1'	53.3m	81
608.	70°55.3'	131°19.9'	51.8m	82
609.	71°10.6'	132°11.7'	99.1m	83
610.	71°10.9'	131°55.1'	75.6m	84
611.	71°11.1'	131°38.4'	71.6m	85
612.	71°11.4'	131°21.8'	71.6m	86
613.	71°11.6'	131°05.1'	62.5m	87
614.	71°11.8'	130°48.4'	53.3m	88
615.	71°11.9'	130°31.7'	56.4m	89
616.	71°12.0'	130°15.1'	47.0m	90
617.	71°17.4'	130°15.4'	53.3m	91
618.	71°17.3'	130°32.2'	57.9m	92
619.	71°17.1'	130°48.9'	79.3m	93
620.	71°16.9'	131°05.7'	91.4m	94
621.	71°16.7'	131°22.4'	91.4m	95
622.	71°16.5'	131°39.1'	179.2m	96
623.	71°16.3'	131°55.9'	182.9m	97
624.	71°16.0'	132°12.6'	241.4m	98
625.	71°04.7'	132°43.9'	77.7m	99
626.	71°05.0'	132°27.4'	71.6m	100
627.	71°05.3'	132°10.9'	70.1m	101
628.	71°05.5'	131°54.2'	68.6m	102
629.	71°00.4'	131°36.9'	59.4m	103
630.	71°00.6'	131°20.4'	56.4m	104
631.	70°55.4'	131°03.3'	51.8m	105
632.	70°55.6'	130°47.0'	44.2m	106
633.	70°55.7'	130°30.4'	42.7m	107
634.	70°55.8'	130°14.0'	41.2m	108
635.	70°55.9'	129°57.6'	36.6m	109
636.	70°50.8'	129°24.6'	27.4m	111
637.	70°45.4'	129°08.2'	25.3m	112
638.	71°05.8'	131°37.7'	61.0m	113
639.	71°06.0'	131°21.1'	59.4m	114
640.	71°06.2'	131°04.5'	54.0m	115
641.	71°00.8'	131°03.9'	55.5m	116
642.	71°01.0'	130°47.4'	45.7m	117
643.	71°01.1'	130°30.9'	44.2m	118
644.	71°01.3'	130°14.4'	42.7m	119
645.	71°06.4'	130°47.9'	53.3m	120
646.	71°06.5'	130°31.3'	45.7m	121
647.	71°06.6'	130°14.7'	42.7m	122
648.	71°06.7'	129°58.1'	42.7m	123
649.	71°01.3'	129°57.9'	41.2m	124
650.	71°01.5'	129°41.4'	38.1m	125
651.	70°56.1'	129°24.7'	32.0m	126
652.	70°45.4'	128°51.9'	24.4m	127
653.	70°56.1'	129°08.2'	32.0m	128
654.	70°50.7'	129°08.2'	29.0m	129
655.	70°45.3'	129°24.5'	24.4m	130
656.	70°39.9'	129°40.6'	22.9m	131
657.	70°49.7'	131°35.5'	53.0m	132

STATION LOCATIONS - CORES -Hu69-050

CORE NO.	LATITUDE	LONGITUDE	DEPTH	EQUIVALENT REPORT STN. NC
804.	69°45'N	138°34'W	177m	2
805.	69°28'N	138°48'W	49m	3
806.	70°19'	138°47.5'	539m	7
807.	70°06.5'	138°31'	290m	9
808.	69°50.5'	138°18'	198m	11
809.	71°31.3'	138°11.0'	2031m	
810.	70°59.8'	138°14.7'	1657m	
811.	70°39'	139°29'	1426m	19
812.	70°22'	139°42'	515m	20
813.	70°10.3'	139°52.6'	69m	21
814.	69°59.3'	140°15.7'	51m	22
815.	69°43'	140°37'	26m	23
816.	69°11'	137°57'	33m	24
817.	69°22.1'	138°04.8'	47m	25
818.	69°33'	138°11.8'	109m	26
819.	70°29.8'	137°49'	846m	34
820.	70°21.5'	137°33'	322m	35
821.	70°08.2'	137°15.8'	47m	36
822.	69°51'	136°48'	27m	38
823.	69°58.5'	137°07.6'	48m	
824.	70°50.9'	136°17.9'	880m	45
825.	70°42.5'	135°52'	470m	46
826.	70°37.6'	135°47.4'	87m	47
827.	70°26'	135°27'	62m	48
828.	70°17.6'	135°11'	55m	49
829.	70°08'	135°54'	37m	50
830.	71°31.98'	135°57.48'	1850m	
832.	70°08.5'	132°47.9'	25m	57
833.	71°12'	134°22.5'	850m	63
834.	71°01'	134°07'	289m	64
835.	70°56'	133°59.5'	80m	65
836.	70°47'	133°47'	80m	66
837.	70°38'	133°29'	62m	67
838.	70°24'	133°09'	42m	68
840.	70°52'	128°33'	36m	75
841.	70°41'	128°19'	29m	76
842.	71°25.7'	132°06'	585m	79
843.	71°14.7'	131°54.8'	104m	80
844.	71°03.5'	131°42.7'	62m	81
845.	70°56.5'	131°24.7'	54m	82
846.	70°41.3'	130°52.1'	33m	83
847.	70°31.8'	130°41.6'	25m	84
848.	70°22.4'	130°31.0'	18m	85
849.	71°25.2'	129°27.3'	69m	91
850.	71°17.5'	129°10.6'	47m	92
851.	71°07.9'	128°59.1'	40m	93
852.	71°01'	128°49.5'	40m	94
853.	69°56.5'	134°33'	16m	95
854.	69°51'	135°20'	16m	96
855.	71°38.0'	129°50.0'	286m	