

INFORMAL REPORT AND INDEX OF
NAVIGATION AND DEPTH DATA
(Issued December 1989)

ROUNDABOUT EXPEDITION

LEG 08

R/V Washington

Nome, Alaska (01 October 1988)
to
Dutch Harbor, Alaska (22 October 1988)

Chief Scientist - D. Tripp (University of Washington)

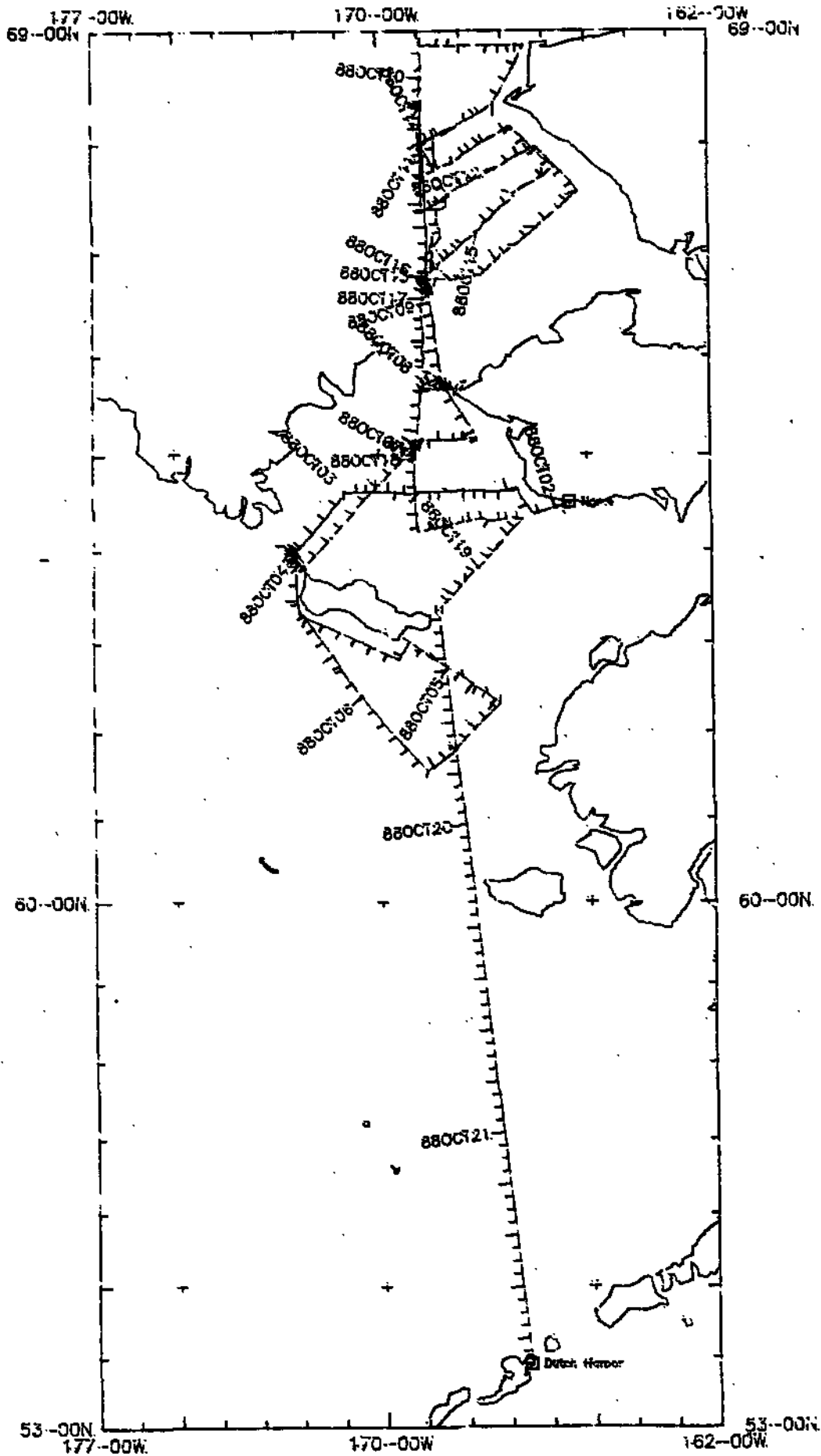
Resident Marine Tech - G. Hargreaves

Post-Cruise Processing and Report Preparation
by Geological Data Center, Scripps Institution of Oceanography

Data Collection and Processing Funded by NSF
Grant Number OCE86-16368

NOTE: This is an index of underway geophysical data edited and processed after the completion of the cruise leg and is intended primarily for informal use within the institution. This document is not to be reproduced or distributed outside Scripps without prior approval of the chief scientist or the Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093.

GDC Cruise I.D.# 239



ROUNDABOUT LEG 8
(PNDBOBWT)

*** PORTS ***

2300 011088	LGPT B NOME, ALASKA	64-30 N 165-25 W	FRNDB08WT
1800 221089	LGPT E DUTCH HARBOR, ALASKA	53-54 N 166-32 W	FRNDB08WT
2249 071088	LGUS B LITTLE DIOMEDE	65-453N 168-577W	SRNDB08WT
0354 081088	LGUS E LITTLE DIOMEDE	65-452N 168-572W	SRNDB08WT

PERSONNEL

	NAME	***TITLE***	***AFFILIATION***	**CRID**
PECS UWA	TRIPP, D.	CHIEF SCIENTIST	UNIV. OF WASHINGTON	RNDB08WT
PESP SIX	ALLEN, S.	VOLUNTEER	UNIV. OF ALASKA	RNDB08WT
PEMT SIX	BERGERON, B.	NUT. TECH.	UNIV. OF ALASKA	RNDB08WT
PEST SIX	BROWN, S.	GRAD STUDENT	UNIV OF SO. FLA.	RNDB08WT
PECT STS	CHARTERS, J.	COMPUTER TECH	SCRIPPS INSTITUTION	RNDB08WT
PESP SIX	FUKUCHI, M.	SR. SCIENTIST	INST. POLAR RES., JAPAN	RNDB08WT
PERT STS	HARGREAVES, G.	RES TECH	SCRIPPS INSTITUTION	RNDB08WT
PESP SIX	HATTORI, H	SCIENTIST	INST. POLAR RES., JAPAN	RNDB08WT
PEMT UWA	JOHNSON, J.	MOORING TECH	UNIV. OF WASHINGTON	RNDB08WT
PESP SIX	KENNEDY, M.	GRAD STUDENT	UNIV. OF ALASKA	RNDB08WT
PESP SIX	MATSUDA, O.	SCIENTIST	INST. POLAR RES., JAPAN	RNDB08WT
PEMT UWA	MCCROSKEY, F.	MOORING TECH	UNIV. OF WASHINGTON	RNDB08WT
PEST SIX	MCROY, W.	GRAD STUDENT	UNIV. OF MICHIGAN	RNDB08.
PEMT STS	SCHMITT, J.	CTD TECH	SCRIPPS INSTITUTION	RNDB08WT
PESP SIX	TANIMURA, A.	SCIENTIST	INST. POLAR RES., JAPAN	RNDB08WT
PESP SIX	WIRICK, C.	SCIENTIST	BROOKHAVEN NAT. LABS	RNDB08WT

NOTES

#AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO
 #SAMPLE OR DATA RECOVERED. A 'C' INDICATES CONTINUATION OF DATA COLLECTION
 #FROM BEFORE THE BEGINNING OR AFTER THE END OF A PARTICULAR LEG. (MOORED
 #BOTTOM INSTRUMENTS, FOR EXAMPLE.) THE NUMBER APPEARING IN THE COLUMNS
 #BETWEEN THE SAMPLE IDENTIFIER AND THE DISPOSITION CODE, FOR MANY SAMPLE
 #ENTRIES, IS THE WATER DEPTH IN CORRECTED METERS. POSITIONS ARE IN TENTHS
 #OF MINUTES.

#GMT	DDMMYY	LOC	T	SAMP	SAMPLE	DISP			CRUISE
#TIME	DATE	TIME	Z	CODE	IDENTIFIER	CODE	LAT.	LONG.	LEG-SHIP

****UNDERWAY DATA CURATOR - S. M. SMITH EXT. 42752

**** EXPLANATION OF SAMPLE CODES ****

- # TD** = TEMPERATURE, CONDUCTIVITY, DEPTH, NUTRIENTS, CHOLOROPHYL AND SALTS
- # CM** = CURRENT METERS
- # ON** = OPEN NETS
- # MO** = MOORINGS - INTER-SHELF TRANSFER AND RECYCLING, SASAKI OR FUKUCHI
- # PHTW = NORPAC STANDARDIZED ZOOPLANKTON TOWS
- # PH** = MULTI-PLANKTON SAMPLES

**** NOTE ****

ALL SAMPLES ARE IN CHRONOLOGICAL ORDER

**** BEGIN CAPE RODNEY LINE ****

0310	021088			TD**	B ROD1	CTD	UWA	64-388N	166-422W	sRNDB08WT
0318	021088			TD**	E ROD1	CTD	UWA	64-389N	166-423W	sRNDB08WT
0540	021088			TD**	B ROD2	CTD	UWA	64-370N	167-219W	sRNDB08WT
0552	021088			TD**	E ROD2	CTD	UWA	64-371N	167-257W	sRNDB08WT
0605	021088			TD**	B ROD3	CTD	UWA	64-372N	167-286W	sRNDB08WT
0616	021088			TD**	E ROD3	CTD	UWA	64-373N	167-290W	sRNDB08WT
0738	021088			TD**	B ROD4	CTD	UWA	64-372N	167-565W	sRNDB08WT
0749	021088			TD**	E ROD4	CTD	UWA	64-373N	167-566W	sRNDB08WT
0856	021088			TD**	B ROD5	CTD	UWA	64-370N	168-178W	sRNDB08WT
0911	021088			TD**	E ROD5	CTD	UWA	64-372N	168-179W	sRNDB08WT
1018	021088			TD**	B ROD6	CTD	UWA	64-370N	168-387W	sRNDB08WT
1034	021088			TD**	E ROD6	CTD	UWA	64-371N	168-382W	sRNDB08WT
1146	021088			TD**	B ROD7	CTD	UWA	64-366N	169-026W	sRNDB08WT
1201	021088			TD**	E ROD7	CTD	UWA	64-364N	169-022W	sRNDB08WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1306	021088			TD**	B ROD8 CTD	UWA	64-360N	169-234W	sRNDB08WT
1317	021088			TD**	E ROD8 CTD	UWA	64-362N	169-233W	sRNDB08WT
1441	021088			TD**	B ROD9 CTD	UWA	64-368N	169-360W	sRNDB08WT
1447	021088			TD**	E ROD9 CTD	UWA	64-368N	169-360W	sRNDB08WT
1537	021088			TD**	B ROD10 CTD	UWA	64-370N	169-461W	sRNDB08WT
1550	021088			TD**	E ROD10 CTD	UWA	64-370N	169-462W	sRNDB08WT
1857	021088			MO**	B ISH8B MOORING	UWA	64-374N	169-452W	sRNDB08WT
0057	031088			MO**	E ISH8D MOORING	UWA	64-369N	170-504W	sRNDB08WT
2017	021088			TD**	B ROD11 CTD	UWA	64-370N	170-082W	sRNDB08WT
2030	021088			TD**	E ROD11 CTD	UWA	64-369N	170-083W	sRNDB08WT
2134	021088			TD**	B ROD12 CTD	UWA	64-370N	170-297W	sRNDB08WT
2147	021088			TD**	E ROD12 CTD	UWA	64-370N	170-294W	sRNDB08WT
2258	021088			TD**	B ROD13 CTD	UWA	64-370N	170-501W	sRNDB08WT
2315	021088			TD**	E ROD13 CTD	UWA	64-370N	170-505W	sRNDB08WT
***					END CAPE RODNEY LINE				
***					BEGIN ANADYR LINE ***				
1314	031088			TD**	B ANA1 CTD	UWA	63-482N	171-482W	sRNDB08WT
1326	031088			TD**	E ANA1 CTD	UWA	63-483N	171-479W	sRNDB08WT
1337	031088			CM**	B ANA1 CURRENT METER	UWA	63-483N	171-478W	sRNDB08WT
1357	031088			CM**	E ANA1 CURRENT METER	UWA	63-483N	171-475W	sRNDB08WT
1458	031088			TD**	B ANA2 CTD	UWA	63-506N	171-547W	sRNDB08WT
1510	031088			TD**	E ANA2 CTD	UWA	63-506N	171-546W	sRNDB08WT
1515	031088			CM**	B ANA2 CURRENT METER	UWA	63-506N	171-547W	sRNDB08WT
1534	031088			CM**	E ANA2 CURRENT METER	UWA	63-506N	171-547W	sRNDB08WT

#GMT #TIME #	DDMMYY DATE	LOC TIME Z	T	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1640	031088			TD**	B ANA3 CTD	UWA	63-539N	172-016W	sRNDB08WT
1655	031088			TD**	E ANA3 CTD	UWA	63-538N	172-016W	sRNDB08WT
1701	031088			CM**	B ANA3 CURRENT METER	UWA	63-537N	172-015W	sRNDB08WT
1721	031088			CM**	E ANA3 CURRENT METER	UWA	63-538N	172-014W	sRNDB08WT
1829	031088			TD**	B ANA4 CTD	UWA	63-575N	172-082W	sRNDB08WT
1843	031088			TD**	E ANA4 CTD	UWA	63-575N	172-082W	sRNDB08WT
1849	031088			CM**	B ANA4 CURRENT METER	UWA	63-575N	172-082W	sRNDB08WT
1910	031088			CM**	E ANA4 CURRENT METER	UWA	63-575N	172-082W	sRNDB08WT
1917	031088			PHTW	B ANA4 NORPAC TOW	JPN	63-575N	172-082W	sRNDB08WT
1922	031088			PHTW	E ANA4 NORPAC TOW	JPN	63-575N	172-082W	sRNDB08WT
2021	031088			TD**	B ANA5 CTD	UWA	63-596N	172-137W	sRNDB08WT
2035	031088			TD**	E ANA5 CTD	UWA	63-596N	172-135W	sRNDB08WT
2043	031088			CM**	B ANA5 CURRENT METER	UWA	63-596N	172-135W	sRNDB08WT
2103	031088			CM**	E ANA5 CURRENT METER	UWA	63-596N	172-135W	sRNDB08WT
2202	031088			TD**	B ANA6 CTD	UWA	64-030N	172-202W	sRNDB08WT
2216	031088			TD**	E ANA6 CTD	UWA	64-029N	172-202W	sRNDB08WT
2219	031088			CM**	B ANA6 CURRENT METER	UWA	64-029N	172-203W	sRNDB08WT
2239	031088			CM**	E ANA6 CURRENT METER	UWA	64-029N	172-205W	sRNDB08WT
***					END ANADYR LINE ***				
#0121	041088			MO**	E ISH7D MOORING	UWA	63-571N	172-053W	sRNDB08WT
#0341	041088			MO**	B ISH7E MOORING	UWA	64-010N	172-026W	sRNDB08WT
***					BEGIN SHPANBERG LINE ***				
1510	041088			TD**	B SHP10 CTD	UWA	63-012N	169-184W	sRNDB08WT
1522	041088			TD**	E SHP10 CTD	UWA	63-012N	169-184W	sRNDB08WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1527	041088			CM** B	SHP10 CURRENT METER	UWA	63-012N	169-185W	sRNDB08WT
1542	041088			CM** E	SHP10 CURRENT METER	UWA	63-012N	169-185W	sRNDB08WT
1739	041088			CM** B	SHP9 CURRENT METER	UWA	62-550N	168-589W	sRNDB08WT
1750	041088			CM** E	SHP9 CURRENT METER	UWA	62-550N	168-589W	sRNDB08WT
#2006	041088			MO** E	ISH3D MOORING	UWA	62-491N	168-406W	sRNDB08WT
2025	041088			TD** B	SHP8 CTD	UWA	62-491N	168-414W	sRNDB08WT
2037	041088			TD** E	SHP8 CTD	UWA	62-491N	168-415W	sRNDB08WT
2045	041088			CM** B	SHP8 CURRENT METER	UWA	62-491N	168-415W	sRNDB08WT
2102	041088			CM** E	SHP8 CURRENT METER	UWA	62-491N	168-414W	sRNDB08WT
***					BEGIN ISHTAR3E MOORING ***				
0018	051088			TD** B	SHP7 CTD	UWA	62-432N	168-209W	sRNDB08WT
0029	051088			TD** E	SHP7 CTD	UWA	62-431N	168-212W	sRNDB08WT
0033	051088			CM** B	SHP7 CURRENT METER	UWA	62-431N	168-213W	sRNDB08WT
0050	051088			CM** E	SHP7 CURRENT METER	UWA	62-431N	168-217W	sRNDB08WT
0054	051088			PHTW B	SHP7 NORPAC TOW	JPN	62-431N	168-218W	sRNDB08WT
0058	051088			PHTW E	SHP7 NORPAC TOW	JPN	62-431N	168-219W	sRNDB08WT
0235	051088			TD** B	SHP6 CTD	UWA	62-367N	168-021W	sRNDB08WT
0243	051088			TD** E	SHP6 CTD	UWA	62-367N	168-019W	sRNDB08WT
0250	051088			CM** B	SHP6 CURRENT METER	UWA	62-367N	168-016W	sRNDB08WT
0300	051088			CM** E	SHP6 CURRENT METER	UWA	62-367N	168-010W	sRNDB08WT
0429	051088			TD** B	SHP5 CTD	UWA	62-309N	167-439W	sRNDB08WT
0442	051088			TD** E	SHP5 CTD	UWA	62-309N	167-441W	sRNDB08WT

#GMT #TIME	DMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0448	051088			CM**	B SHP5 CURRENT METER	UWA	62-309N	167-442W	sRNDB08WT
0458	051088			CM**	E SHP5 CURRENT METER	UWA	62-309N	167-442W	sRNDB08WT
0628	051088			TD**	B SHP4 CTD	UWA	62-255N	167-264W	sRNDB08WT
0638	051088			TD**	E SHP4 CTD	UWA	62-254N	167-264W	sRNDB08WT
0641	051088			CM**	B SHP4 CURRENT METER	UWA	62-254N	167-264W	sRNDB08WT
0651	051088			CM**	E SHP4 CURRENT METER	UWA	62-255N	167-265W	sRNDB08WT
0837	051088			TD**	B SHP3 CTD	UWA	62-194N	167-083W	sRNDB08WT
0849	051088			TD**	E SHP3 CTD	UWA	62-194N	167-084W	sRNDB08WT
0854	051088			CM**	B SHP3 CURRENT METER	UWA	62-194N	167-084W	sRNDB08WT
0907	051088			CM**	E SHP3 CURRENT METER	UWA	62-194N	167-084W	sRNDB08WT
****					END SHPANBERG LINE ***				
1550	051088			TD**	B ISH 23A #28 CTD	UWA	61-338N	168-526W	sRNDB08WT
1659	051088			TD**	E ISH 23A #28 CTD	UWA	61-338N	168-522W	sRNDB08WT
#1801	051088			MO**	E ISH 23A MOORING	UWA	61-337N	168-522W	sRNDB08WT
0224	061088			TD**	B ISH24A CTD	UWA	62-446N	171-002W	sRNDB08WT
0238	061088			TD**	E ISH24A CTD	UWA	62-448N	170-598W	sRNDB08WT
#0307	061088			MO**	E ISH24A MOORING	UWA	62-450N	170-599W	sRNDB08WT
#2041	061088			MO**	E ISH20C MOORING	UWA	65-098N	168-574W	sRNDB08WT
2048	061088			TD**	B ISH20C CTD	UWA	65-097N	168-570W	sRNDB08WT
2107	061088			TD**	E ISH20C CTD	UWA	65-096N	168-561W	sRNDB08WT
#2329	061088			MO**	E SASAKI1 MOORING	JPN	64-592N	169-084W	sRNDB08WT
2334	061088			TD**	B SASAKI1 CTD	JPN	64-592N	169-084W	sRNDB08WT
2348	061088			TD**	E SASAKI1 CTD	JPN	64-593N	169-088W	sRNDB08WT
0005	071088			TD**	B SASAKI1 WATER CAST	JPN	64-595N	169-084W	sRNDB08WT
0012	071088			TD**	E SASAKI1 WATER CAST	JPN	64-595N	169-083W	sRNDB08WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
#0113	071088			MO** B	FUKUCHI1 MOORING	JPN	64-595N	169-080W	sRNDB08WT
0240	071088			PHTW B	FUKUCHI1 NORPAC TOWS	JPN	65-007N	169-099W	sRNDB08WT
0251	071088			PHTW E	FUKUCHI1 NORPAC TOWS	JPN	65-006N	169-100W	sRNDB08WT
#*** BEGIN KING ISLAND LINE ***									
0515	071088			TD** B	KNG6 CTD	UWA	65-090N	169-404W	sRNDB08WT
0527	071088			TD** E	KNG6 CTD	UWA	65-090N	169-404W	sRNDB08WT
0840	071088			TD** B	KNG5 CTD	UWA	65-084N	169-159W	sRNDB08WT
0858	071088			TD** E	KNG5 CTD	UWA	65-085N	169-157W	sRNDB08WT
1016	071088			TD** B	KNG4 CTD	UWA	65-092N	168-561W	sRNDB08WT
1032	071088			TD** E	KNG4 CTD	UWA	65-091N	168-560W	sRNDB08WT
1137	071088			TD** B	KNG3 CTD	UWA	65-092N	168-337W	sRNDB08WT
1149	071088			TD** E	KNG3 CTD	UWA	65-092N	168-334W	sRNDB08WT
1319	071088			TD** B	KNG2 CTD	UWA	65-088N	168-065W	sRNDB08WT
1331	071088			TD** E	KNG2 CTD	UWA	65-087N	168-059W	sRNDB08WT
1503	071088			TD** B	KNG1 CTD	UWA	65-088N	167-382W	sRNDB08WT
1520	071088			TD** E	KNG1 CTD	UWA	65-087N	167-381W	sRNDB08WT
#2031	071088			MO** E	ISH21B MOORING	UWA	65-464N	168-265W	sRNDB08WT
#*** END KING ISLAND LINE ***									
2041	071088			TD** B	ISH21B CTD	UWA	65-466N	168-262W	sRNDB08WT
2056	071088			TD** E	ISH20B CTD	UWA	65-470N	168-259W	sRNDB08WT
#*** BEGIN BERING STRAIT LINE ***									
0457	081088			TD** B	BST6 CTD	UWA	65-392N	168-571W	sRNDB08WT
0508	081088			TD** E	BST6 CTD	UWA	65-392N	168-572W	sRNDB08WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0520	081088			PHTW B	BST6 NORPAC TOW	JPN	65-391N	168-572W	sRNDB08WT
0530	081088			PHTW E	BST6 NORPAC TOW	JPN	65-391N	168-572W	sRNDB08WT
0535	081088			CM** B	BST6 CURRENT METER	UWA	65-391N	168-572W	sRNDB08WT
0545	081088			CM** E	BST6 CURRENT METER	UWA	65-391N	168-573W	sRNDB08WT
0652	081088			TD** B	BST5 CTD	UWA	65-397N	168-453W	sRNDB08WT
0706	081088			TD** E	BST5 CTD	UWA	65-399N	168-454W	sRNDB08WT
0715	081088			CM** B	BST5 CURRENT METER	UWA	65-400N	168-454W	sRNDB08WT
0734	081088			CM** E	BST5 CURRENT METER	UWA	65-400N	168-450W	sRNDB08WT
0837	081088			TD** B	BST4 CTD	UWA	65-397N	168-344W	sRNDB08WT
0853	081088			TD** E	BST4 CTD	UWA	65-397N	168-342W	sRNDB08WT
0902	081088			CM** B	BST4 CURRENT METER	UWA	65-397N	168-342W	sRNDB08WT
0921	081088			CM** E	BST4 CURRENT METER	UWA	65-397N	168-342W	sRNDB08WT
1025	081088			TD** B	BST3 CTD	UWA	65-400N	168-247W	sRNDB08WT
1042	081088			TD** E	BST3 CTD	UWA	65-400N	168-245W	sRNDB08WT
1049	081088			CM** B	BST3 CURRENT METER	UWA	65-400N	168-247W	sRNDB08WT
1114	081088			CM** E	BST3 CURRENT METER	UWA	65-399N	168-260W	sRNDB08WT
1215	081088			TD** B	BST2 CTD	UWA	65-400N	168-190W	sRNDB08WT
1229	081088			TD** E	BST2 CTD	UWA	65-401N	168-181W	sRNDB08WT
1235	081088			CM** B	BST2 CURRENT METER	UWA	65-401N	168-182W	sRNDB08WT
1256	081088			CM** E	BST2 CURRENT METER	UWA	65-402N	168-183W	sRNDB08WT
1347	081088			TD** B	BST1 CTD	UWA	65-403N	168-115W	sRNDB08WT
1357	081088			TD** E	BST1 CTD	UWA	65-403N	168-113W	sRNDB08WT
1400	081088			CM** B	BST1 CURRENT METER	UWA	65-403N	168-112W	sRNDB08WT
1412	081088			CM** E	BST1 CURRENT METER	UWA	65-403N	168-109W	sRNDB08WT
***					END BERING STRAIT LINE	***			

#GMT #TIME #	DDMMYY DATE	LOC TIME Z	T	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
#1728	081088			MO**	B ISH21C MOORING	UWA	65-475N	168-292W	sRNDB08WT
#0325	091088			MO**	E ISH14E MOORING	UWA	66-446N	168-477W	sRNDB08WT
1747	081088			TD**	B ICH21C CTD	UWA	65-479N	168-296W	sRNDB08WT
1808	081088			TD**	E ISH21C CTD	UWA	65-481N	168-297W	sRNDB08WT
0338	091088			TD**	B ISH14E CTD	UWA	66-447N	168-475W	sRNDB08WT
0355	091088			TD**	E ISH14E CTD	UWA	66-447N	168-479W	sRNDB08WT
0400	091088			PHTW	B ISH14E NORPAC TOW	JPN	66-447N	168-481W	sRNDB08WT
0407	091088			PHTW	E ISH14E NORPAC TOW	JPN	66-448N	168-482W	sRNDB08WT
#1823	091088			MO**	B ISH25A MOORING	UWA	68-199N	168-550W	sRNDB08WT
1839	091088			TD**	B ISH25A CTD	UWA	68-200N	168-555W	sRNDB08WT
1852	091088			TD**	E ISH25A CTD	UWA	68-201N	168-555W	sRNDB08WT
#1926	091088			MO**	B FUKUCH2 MOORING	JPN	68-199N	168-564W	sRNDB08WT
1938	091088			TD**	B FUKUCHI2 CTD	JPN	68-199N	168-567W	sRNDB08WT
1949	091088			TD**	E FUKUCHI2 CTD	JPN	68-197N	168-565W	sRNDB08WT
2003	091088			ON**	B FKI2 NORPAC TOWS	JPN	68-200N	168-572W	sRNDB08WT
2029	091088			ON**	E FKI2 NORPAC TOWS	JPN	68-203N	168-581W	sRNDB08WT
2052	091088			PH**	B FKI2 MULTI-PLANKTON	JPN	68-204N	168-582W	sRNDB08WT
2143	091088			PH**	E FKI2 MULTI-PLANKTON	JPN	68-202N	168-588W	sRNDB08WT
2307	091088			TD**	B CTD49	UWA	68-296N	168-548W	sRNDB08WT
2322	091088			TD**	E CTD49	UWA	68-297N	168-560W	sRNDB08WT
0048	101088			TD**	B CTD50	UWA	68-408N	168-538W	sRNDB08WT
0106	101088			TD**	E CTD50	UWA	68-408N	168-539W	sRNDB08WT

#GMT #TIME	DMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP

**** BEGIN CAPE LISBURNE LINE ****									
0230	101088			TD**	B LIS8 CTD	UWA	68-521N	168-558W	sRNDB08WT
0243	101088			TD**	E LIS8 CTD	UWA	68-521N	168-560W	sRNDB08WT
0250	101088			PHTW	B LIS8 NORPAC TOW	JPN	68-521N	168-562W	sRNDB08WT
0255	101088			PHTW	E LIS8 NORPAC TOW	JPN	68-522N	168-563W	sRNDB08WT
0408	101088			TD**	B LIS7 CTD	UWA	68-519N	168-300W	sRNDB08WT
0423	101088			TD**	E LIS7 CTD	UWA	68-519N	168-302W	sRNDB08WT
0523	101088			TD**	B LIS6 CTD	UWA	68-520N	168-059W	sRNDB08WT
0541	101088			TD**	E LIS6 CTD	UWA	68-520N	168-062W	sRNDB08WT
0642	101088			TD**	B LIS5 CTD	UWA	68-520N	167-430W	sRNDB08WT
0656	101088			TD**	E LIS5 CTD	UWA	68-519N	167-432W	sRNDB08WT
0800	101088			TD**	B LIS4 CTD	UWA	68-520N	167-197W	sRNDB08WT
0816	101088			TD**	E LIS4 CTD	UWA	68-520N	167-200W	sRNDB08WT
0920	101088			TD**	B LIS3 CTD	UWA	68-521N	166-577W	sRNDB08WT
0936	101088			TD**	E LIS3 CTD	UWA	68-521N	166-584W	sRNDB08WT
1040	101088			TD**	B LIS2 CTD	UWA	68-521N	166-397W	sRNDB08WT
1055	101088			TD**	E LIS2 CTD	UWA	68-522N	166-402W	sRNDB08WT
1133	101088			TD**	B LIS1 CTD	UWA	68-523N	166-255W	sRNDB08WT
1144	101088			TD**	E LIS1 CTD	UWA	68-524N	166-257W	sRNDB08WT
**** END CAPE LISBURNE LINE ****									
**** BEGIN POINT HOPE LINE ****									
1546	101088			TD**	B PTH1 CTD	UWA	68-209N	167-110W	sRNDB08WT
1559	101088			TD**	E PTH1 CTD	UWA	68-208N	167-108W	sRNDB08WT
1706	101088			TD**	B PTH2 CTD	UWA	68-159N	167-322W	sRNDB08WT
1717	101088			TD**	E PTH2 CTD	UWA	68-159N	167-326W	sRNDB08WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1726	101088			TD**	B PTH2 CTD	UWA	68-159N	167-327W	sRNDB08WT
1741	101088			TD**	E PTH2 CTD	UWA	68-160N	167-329W	sRNDB08WT
1843	101088			TD**	B PTH3 CTD	UWA	68-121N	167-523W	sRNDB08WT
1857	101088			TD**	E PTH3 CTD	UWA	68-122N	167-522W	sRNDB08WT
1957	101088			TD**	B PTH4 CTD	UWA	68-081N	168-115W	sRNDB08WT
2009	101088			TD**	E PTH4 CTD	UWA	68-083N	168-120W	sRNDB08WT
2111	101088			TD**	B PTH5 CTD	UWA	68-042N	168-336W	sRNDB08WT
2124	101088			TD**	E PTH5 CTD	UWA	68-045N	168-336W	sRNDB08WT
2240	101088			TD**	B PTH6 CTD	UWA	68-004N	168-550W	sRNDB08WT
2256	101088			TD**	E PTH6 CTD	UWA	68-005N	168-553W	sRNDB08WT

END POINT HOPE LINE ***									
1136	111088			TD**	B CTD66	UWA	67-503N	168-547W	sRNDB08WT
1151	111088			TD**	E CTD66	UWA	67-507N	168-551W	sRNDB08WT
1322	111088			TD**	B CTD67	UWA	67-405N	168-551W	sRNDB08WT
1338	111088			TD**	E CTD67	UWA	67-408N	168-554W	sRNDB08WT
1507	111088			TD**	B CTD68	UWA	67-311N	168-543W	sRNDB08WT
1522	111088			TD**	E CTD68	UWA	67-312N	168-548W	sRNDB08WT

BEGIN CAPE THOMPSON LINE									
1640	111088			TD**	B TOM9 CTD	UWA	67-219N	168-548W	sRNDB08WT
1655	111088			TD**	E TOM9 CTD	UWA	67-222N	168-544W	sRNDB08WT
1701	111088			PHTW	B TOM9 NORPAC TOWS	JPN	67-223N	168-544W	sRNDB08WT
1716	111088			PHTW	E TOM9 NORPAC TOWS	JPN	67-226N	168-541W	sRNDB08WT
1827	111088			TD**	B TOM8 CTD	UWA	67-268N	168-348W	sRNDB08WT
1839	111088			TD**	E TOM8 CTD	UWA	67-270N	168-350W	sRNDB08WT

#GMT #TIME #	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1950	111088			TD**	B TOM7 CTD	UWA	67-322N	168-157W	sRNDB08WT
2002	111088			TD**	E TOM7 CTD	UWA	67-324N	168-164W	sRNDB08WT
2116	111088			TD**	B TOM6 CTD	UWA	67-369N	167-520W	sRNDB08WT
2127	111088			TD**	E TOM6 CTD	UWA	67-369N	167-521W	sRNDB08WT
2235	111088			TD**	B TOM5 CTD	UWA	67-418N	167-305W	sRNDB08WT
2251	111088			TD**	E TOM5 CTD	UWA	67-420N	167-306W	sRNDB08WT
2350	111088			TD**	B TOM4 CTD	UWA	67-459N	167-091W	sRNDB08WT
0002	121088			TD**	E TOM4 CTD	UWA	67-461N	167-091W	sRNDB08WT
0100	121088			TD**	B TOM3 CTD	UWA	67-498N	166-509W	sRNDB08WT
0114	121088			TD**	E TOM3 CTD	UWA	67-501N	166-513W	sRNDB08WT
0220	121088			TD**	B TOM2 CTD	UWA	67-540N	166-301W	sRNDB08WT
0232	121088			TD**	E TOM2 CTD	UWA	67-542N	166-302W	sRNDB08WT
0334	121088			TD**	B TOM1 CTD	UWA	67-580N	166-105W	sRNDB08WT
0344	121088			TD**	E TOM1 CTD	UWA	67-582N	166-107W	sRNDB08WT
****					END CAPE THOMPSON LINE ***				
****					BEGIN KIVALINA LINE ***				
0748	121088			TD**	B KIV2 CTD	UWA	67-332N	165-101W	sRNDB08WT
0802	121088			TD**	E KIV2 CTD	UWA	67-334N	165-102W	sRNDB08WT
0945	121088			TD**	B KIV3 CTD	UWA	67-237N	165-394W	sRNDB08WT
0958	121088			TD**	E KIV3 CTD	UWA	67-236N	165-392W	sRNDB08WT
1150	121088			TD**	B KIV4 CTD	UWA	67-132N	166-111W	sRNDB08WT
1200	121088			TD**	E KIV4 CTD	UWA	67-133N	166-110W	sRNDB08WT

#GMT #TIME #	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
1346	121088			TD** B	KIV5 CTD	UWA	67-039N	166-405W	sRNDB08WT
1358	121088			TD** E	KIV5 CTD	UWA	67-040N	166-407W	sRNDB08WT
1548	121088			TD** B	KIV6 CTD	UWA	66-550N	167-095W	sRNDB08WT
1557	121088			TD** E	KIV6 CTD	UWA	66-550N	167-096W	sRNDB08WT
1724	121088			TD** B	KIV7 CTD	UWA	66-470N	167-322W	sRNDB08WT
1732	121088			TD** E	KIV7 CTD	UWA	66-470N	167-323W	sRNDB08WT
****					END KIVALINA LINE ***				
****					BEGIN SHISHMAREF LINE ***				
1856	121088			TD** B	SHS4 CTD	UWA	66-450N	168-001W	sRNDB08WT
1904	121088			TD** E	SHS4 CTD	UWA	66-451N	167-600W	sRNDB08WT
1954	121088			TD** B	SHS3 CTD	UWA	66-448N	168-160W	sRNDB08WT
2006	121088			TD** E	SHS3 CTD	UWA	66-450N	168-160W	sRNDB08WT
2100	121088			TD** B	SHS2 CTD	UWA	66-451N	168-354W	sRNDB08WT
2109	121088			TD** E	SHS2 CTD	UWA	66-452N	168-349W	sRNDB08WT
2300	121088			TD** B	SHS1 CTD	UWA	66-453N	168-541W	sRNDB08WT
2310	121088			TD** E	SHS1 CTD	UWA	66-454N	168-538W	sRNDB08WT
2323	121088			PH** B	SHS1 MULTI-PLANKTON	UWA	66-454N	168-535W	sRNDB08WT
0006	131088			PH** E	SHS1 MULTI-PLANKTON	UWA	66-458N	168-528W	sRNDB08WT
****					END SHISHMAREF LINE ***				
0210	131088			TD** B	CTD88	UWA	66-560N	168-418W	sRNDB08WT
0222	131088			TD** E	CTD88	UWA	66-560N	168-417W	sRNDB08WT
0330	131088			TD** B	CTD89	UWA	67-038N	168-436W	sRNDB08WT
0342	131088			TD** E	CTD89	UWA	67-039N	168-436W	sRNDB08WT
0527	131088			TD** B	CTD90	UWA	67-135N	168-328W	sRNDB08WT
0539	131088			TD** E	CTD90	UWA	67-135N	168-324W	sRNDB08WT
2313	131088			TD** B	PTH6 CTD	UWA	67-596N	168-539W	sRNDB08WT
2325	131088			TD** E	PTH6 CTD	UWA	67-594N	168-537W	sRNDB08WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
0059	141088			TD** B	PTH5 CTD	UWA	68-037N	168-358W	sRNDB08WT
0114	141088			TD** E	PTH5 CTD	UWA	68-036N	168-357W	sRNDB08WT
0447	141088			TD** B	CTD94	UWA	67-492N	168-119W	sRNDB08WT
0503	141088			TD** E	CTD94	UWA	67-492N	168-114W	sRNDB08WT
0617	141088			TD** B	CTD95	UWA	67-549N	167-506W	sRNDB08WT
0632	141088			TD** E	CTD95	UWA	67-549N	167-502W	sRNDB08WT
0753	141088			TD** B	CTD96	UWA	67-598N	167-312W	sRNDB08WT
0811	141088			TD** E	CTD96	UWA	67-598N	167-310W	sRNDB08WT
0823	141088			TD** B	CTD96	UWA	67-599N	167-317W	sRNDB08WT
0841	141088			TD** E	CTD96	UWA	67-599N	167-312W	sRNDB08WT
0958	141088			TD** B	CTD97	UWA	68-040N	167-092W	sRNDB08WT
1013	141088			TD** E	CTD97	UWA	68-040N	167-095W	sRNDB08WT
1129	141088			TD** B	CTD98	UWA	68-092N	166-480W	sRNDB08WT
1142	141088			TD** E	CTD98	UWA	68-093N	166-486W	sRNDB08WT
1538	141088			TD** B	CTD99	UWA	67-473N	165-447W	sRNDB08WT
1551	141088			TD** E	CTD99	UWA	67-472N	165-447W	sRNDB08WT
1658	141088			TD** B	CTD100	UWA	67-421N	166-001W	sRNDB08WT
1708	141088			TD** E	CTD100	UWA	67-421N	165-599W	sRNDB08WT
1856	141088			TD** B	CTD101	UWA	67-371N	166-227W	sRNDB08WT
1908	141088			TD** E	CTD101	UWA	67-372N	166-229W	sRNDB08WT

#GMT #TIME	DDMMYY DATE	LOC TIME	T Z	SAMP CODE	SAMPLE IDENTIFIER	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
2012	141088			TD** B	CTD102	UWA	67-309N	166-423W	sRNDB08WT
2024	141088			TD** E	CTD102	UWA	67-309N	166-419W	sRNDB08WT
2124	141088			TD** B	CTD103	UWA	67-245N	167-028W	sRNDB08WT
2134	141088			TD** E	CTD103	UWA	67-245N	167-025W	sRNDB08WT
2240	141088			TD** B	CTD104	UWA	67-175N	167-207W	sRNDB08WT
2250	141088			TD** E	CTD104	UWA	67-175N	167-207W	sRNDB08WT
2351	141088			TD** B	CTD 105	UWA	67-107N	167-386W	sRNDB08WT
0002	151088			TD** E	CTD 105	UWA	67-107N	167-384W	sRNDB08WT
0116	151088			TD** B	CTD 106	UWA	67-031N	168-010W	sRNDB08WT
0125	151088			TD** E	CTD 106	UWA	67-031N	168-014W	sRNDB08WT
0311	151088			TD** B	CTD 107	UWA	66-581N	168-183W	sRNDB08WT
0322	151088			TD** E	CTD 107	UWA	66-579N	168-183W	sRNDB08WT
0506	151088			TD** B	CTD108	UWA	66-507N	168-380W	sRNDB08WT
0520	151088			TD** E	CTD108	UWA	66-507N	168-382W	sRNDB08WT
#0531	151088				B ANCHORED DUETO ICE.	UWA	66-510N	168-381W	sRNDB08WT
#1704	151088				E ANCHORAGE	UWA	66-514N	168-385W	sRNDB08WT
0535	151088			PH** B	MULTIPLANKTON CAST	UWA	66-511N	168-381W	sRNDB08WT
0615	151088			PH** E	MULTIPLANKTON CAST	UWA	66-513N	168-385W	sRNDB08WT
#1815	151088				ISH14D MOORING SALV.	UWA	66-455N	168-539W	sRNDB08WT
#0505	161088				ISH14D SALVAGE OPS.	UWA	66-459N	168-563W	sRNDB08WT
#1715	161088				ISH14D MOORING SALV.	UWA	66-447N	168-550W	sRNDB08WT
#2210	161088				ISH14D SALVAGE OPS.	UWA	66-451N	168-545W	sRNDB08WT
2315	161088			TD** B	CTD109	UWA	66-371N	168-559W	sRNDB08WT
2328	161088			TD** E	CTD109	UWA	66-374N	168-559W	sRNDB08WT
2300	121088			TD** B	SHS1 CTD	UWA	66-453N	168-541W	sRNDB08WT
2310	121088			TD** E	SHS1 CTD	UWA	66-455N	168-543W	sRNDB08WT
****					END SAMPLE INDEX				