INFORMAL REPORT AND INDEX OF

NAVIGATION, DEPTH AND MAGNETIC DATA

(Issued November 1, 1977)

F. DRAKE 77 EXPEDITION

LEG 4C

(CUEA Leg 3)

Callao, Peru (4 April 1977)
to
Callao, Peru (25 April 1977)

R/V MELVILLE

Co-Chief Scientists - J. Kelley (San Francisco State University)
and J. Walsh (Brookhaven National Labs., New York)

Resident Marine Tech - W. Keith

Post-Cruise Processing and Report Preparation
by S.I.O. Geological Data Center - S. M. Smith,
U. Albright, G. Psaropulos, G. Papadopoulos

Data Collection Funded by NSF
Grant Number OCE76-00135
Data Processing Funded by SIA and ONR

Informal Report and Index of Navigation, Depth, Magnetic and Subbottom Profiler Data *

Contents:

Index Chart - gives track of cruise leg and boundaries of depth compilation plots (see below).

** Track Charts - annotated with dates (day/month) and hour ticks. The scale (.3"/deg. long) is the same as the index charts of previous SIO cruises published as Report IMR TR-25.

Profiles - Depth and magnetic anomaly vs. distance. Dates (day/month) and positions of major course changes (greater than 30 degrees) are annotated. Sections of track having subbottom profiler (airgun) records have a solid black line along the bottom of the profile.

For information on the availability and reproduction costs of data in the following forms, contact S. M. Smith, Curator, Geological Data Center, Scripps Institution of Oceanography, La Jolla, California 92093 Phone: (714) 452-2752.

** 1. Navigation listing of times and positions of course and speed changes, fixes and drift velocity.

2. Depth compilation plots - in fathoms (assumed sound velocity of 800 fm./sec.) at approximately 1 mile spacing, plotted at 4" degree with standard U.S. Navy Oceanographic Office BC series boundaries (see index chart).

3. Plots of magnetic anomaly profiles along track-map scale = 1.2"/degree; anomaly scale between 15°N and 15°S latitude = 500 gamma/inch; anomaly scale north of 15°N and south of 15°S = 1000 gamma/inch) from values retrieved at approximately 1 mile spacing and regional field removed using the 1965 IGRF.

** 4. Card Decks of navigation, depth and magnetics (for specific formats, contact S. M. Smith, Geological Data Center). Phone: (714) 452-2752

** 5. S.I.O. Sample Index - list of beginning and end times and positions of all underway records as well as all other samples (geology, biology, physical oceanography, etc.) collected on the cruise leg.

6. Microfilm or Xerox copies of:

** a. Echosounder records - 12 and 3.5 kHz frequency

b. Subbottom profiler records (airgun)

** c. Magnetometer records

** d. Underway Data Log

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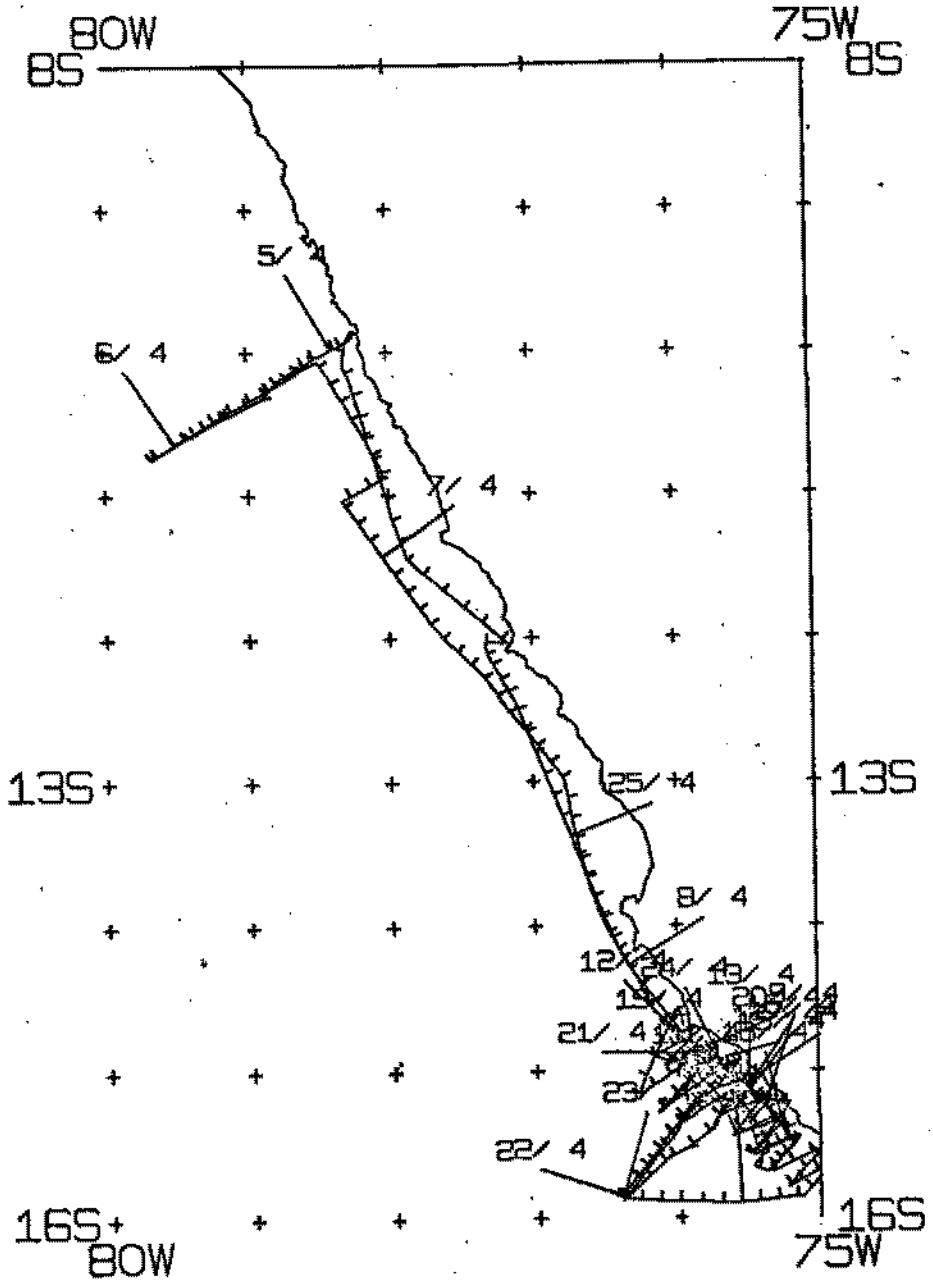
* No subbottom profiler data collected

** Only these types and formats of data are available from the Geological Data Center for this specific cruise leg.

0774CMV TRACK PLOT (1 OF 1)



On April 6, 1977 Bathymetry was collected from 0400 to 0845.
On April 9, 1977 Magnetics were collected from 2154 to 2255.
These data have not been digitized but are archived at the Data Center.

CR015E - 2519 MILES

S.I.O. SAMPLE INDEX

(Issued November 1, 1977)

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Post-Cruise Processing and Report Preparation
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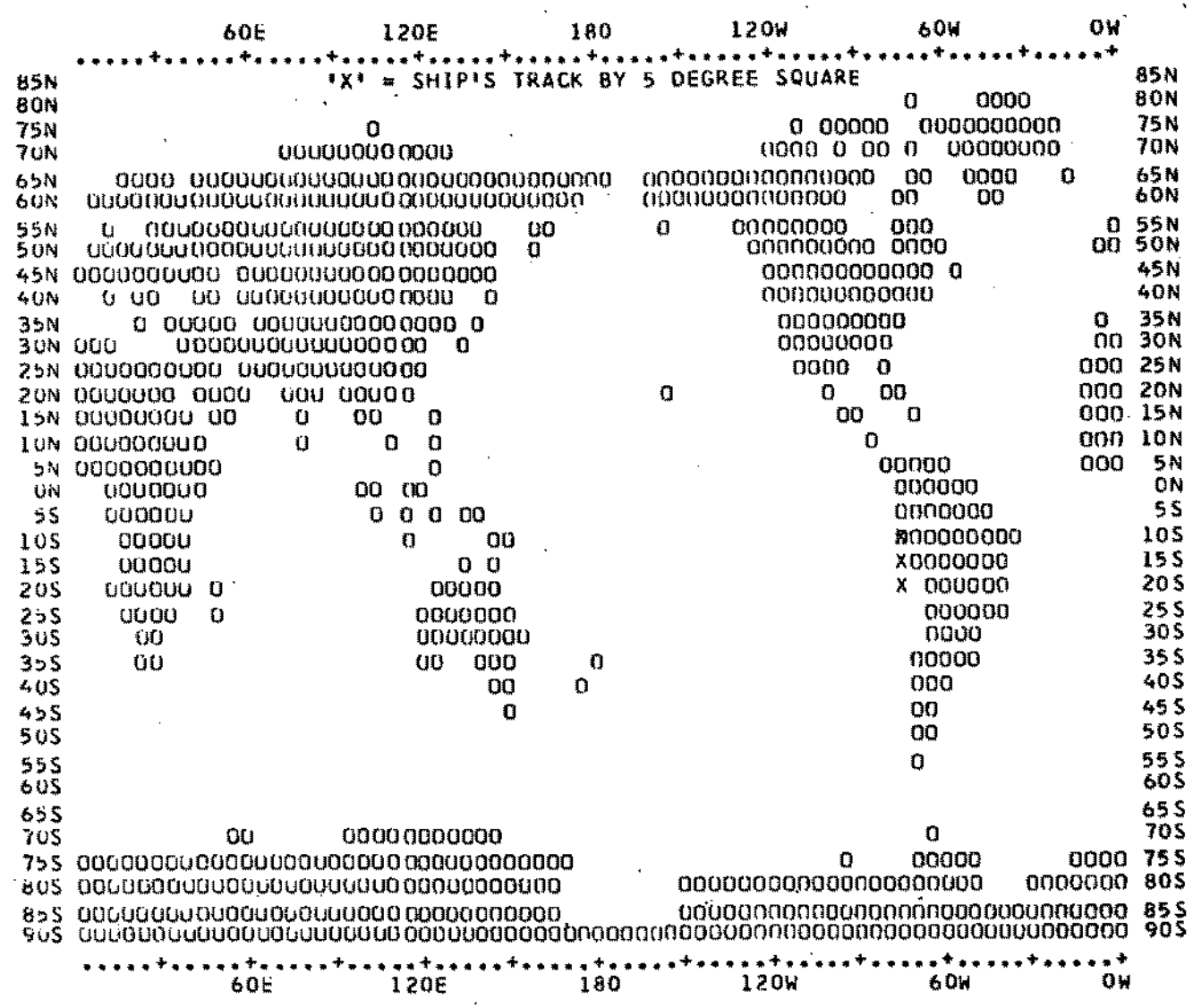
Index Encoding Funded by NSF
Grant Number OCE76-00135
Index Processing and Report Preparation
Funded in Part by SIA

The Sample Index is a first level interdisciplinary listing of time, position, sample identification and disposition of all samples, records and measurements collected on this cruise leg. The index data are encoded at sea by the Resident Technician and processed onshore by the S.I.O. Geological Data Center shortly after the completion of the cruise leg.

Positions are interpolated on the basis of sample time by comparison to a single, edited navigation file. Samples beginning at one time and position and ending at another are entered on two consecutive cards. Disposition and sample type are represented by three and four character codes to permit future computer searches on these parameters. (Listings defining these codes are available from the Geological Data Center.)

S.I.O. SAMPLE INDEX -- GENERATED 05OCT77

FOKAKE 77 EXPEDITION LEG 4C SAMPLE INDEX (F0774CMV)



04APR77 - CALLAO, PERU

TO

25APR77 - CALLAO, PERU

CHIEF SCIENTISTS - KELLEY,J. SIX
WALSH,J. SIX

SHIP - R/V MELVILLE (SIO)

PRODUCED BY GEOLOGICAL DATA CENTER,SCRIPPS INSTITUTION
OF OCEANOGRAPHY, LA JOLLA, CALIFORNIA 92093

NUMBER OF SAMPLES OF CLASS 'TYPE' GOING TO DESTINATION 'DISP'

DISP	TYPE									TOTAL
	AC	CS	DP	HC	LB	ON	PE	PP	TD	
CAN	1						2		1	2
GUC	1		1		1				1	2
NUC	1	1					1		1	2
PRU	1						2		1	2
SIO	1						2		1	2
SIX	1	5		39		55	20	33	40	192
UWA	1	1					4		1	5
TOTAL	1	1	6	1	39	1	55	31	33	40	207

SAMPLE 'TYPE' CODES USED ABOVE

AC = ACOUSTICAL STUDIES
CS = CONTINUOUS SURFACE WATER SAMPLE
DP = DEPTH
HC = HYDROGRAPHIC CAST
LB = LOG BOOKS
ON = OPEN NET
PE = PERSONNEL IN SCIENTIFIC PARTY
PP = PLANKTON PUMP
TD = SALINITY/TEMPERATURE/DEPTH (STD)

SAMPLE 'DISP' CODES USED ABOVE

CAN = CANADA
GUC = GEOLOGICAL DATA CENTER -- S. SMITH (EXT. 2752)
NUC = NAVAL UNDERSEA CENTER, PT. LOMA, S.D.
PRU = PERU
SIO = SCRIPPS INSTITUTION OF OCEANOGRAPHY, LA JOLLA, CAL. 92093
SIX = SCRIPPS INSTITUTION NON-EMPLOYEE -(CONTACT DORCAS UTTER EXT. 2356)
UWA = UNIV. OF WASHINGTON, SEATTLE

*** PORTS ***

100 4 477	LGPT B	CALLAO, PERU	12	3S	76	100W	F	FD774CMV
1300 25 477	LGPT E	CALLAO, PERU	12	3S	76	100W	F	FD774CMV

PERSONNEL

PECS	KELLEY,J.	SIX	FD774CMV
PECS	WALSH,J.	SIX	FD774CMV
PERT	KEITH,W.	~~SIO~~ MTG	FD774CMV
PECT	OTT,J.	~~SIO~~	FD774CMV
PEXN	BOYD,C.	CAN	FD774CMV
PE	BRUNE,F.	UWA	FD774CMV
PE	CASCOS,P.	SIX	FD774CMV
PE	CONWAY,H.	SIX	FD774CMV
PE	COWLES,T.	SIX	FD774CMV
PEXN	DAGG,M.	CAN	FD774CMV
PE	ESAIAS,W.	SIX	FD774CMV
PE	FELDMAN,D.	SIX	FD774CMV
PEXN	GOMEZ,O.	PRU	FD774CMV
PE	GRILL,D.	SIX	FD774CMV
PE	HARRIOTT,A.	SIX	FD774CMV
PE	HAUTSCH,R.	SIX	FD774CMV
PE	HOWE,S.	SIX	FD774CMV
PE	JUDKINS,D.	SIX	FD774CMV
PE	OWENS,T.	UWA	FD774CMV
PE	PATTON,C.	SIX	FD774CMV
PE	PEDERSEN,W.	SIX	FD774CMV
PE	RIX,J.	SIX	FD774CMV
PEXN	SANDOVAL,O.	PRU	FD774CMV
PE	SELIGMAN,P.	NUC	FD774CMV
PE	SICK,R.	SIX	FD774CMV
PE	SMITH,S.	SIX	FD774CMV
PE	THORNE,R.	UWA	FD774CMV
PE	WESTHAGEN,A.	UWA	FD774CMV
PE	WHITLEDGE,T.	SIX	FD774CMV
PE	WIRICK,C.	SIX	FD774CMV
PE	WOLD,E.	SIX	FD774CMV

*** NOTE *** TIME ZONES AND MINUTES OF LATITUDE AND LONGITUDE ARE LISTED IN TENTHS (E.G. 10.6 IS LISTED AS 106)

*** NOTE *** AN 'X' IN THE (B)EGIN/(E)ND COLUMN FOLLOWING THE SAMPLE CODE INDICATES NO SAMPLE OR DATA RECOVERED

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
					UNDERWAY DATA CURATOR - STUART SMITH (EXT.2752)				
*** LOG BOOKS ***									
400	6 477			LBUW B	UNDERWAY LOG	GDC	10 389S	79 315W S	FD774CMV
845	6 477			LBUW E	UNDERWAY LOG	GDC	10 172S	78 535W S	FD774CMV
*** FATHOGRAMS ***									
356	6 477			DPR3 B	GDR 3.5KHZ R-01	GDC	10 392S	79 320W S	FD774CMV
850	6 477			DPR3 E	GDR 3.5KHZ R-01	GDC	10 169S	78 529W S	FD774CMV
CONTINUOUS SURFACE WATER SAMPLE									
232	6 477			CSXX B	NUTS,CHLORO,TEMP	SIX	10 445S	79 408W S	FD774CMV
2200	7 477			CSXX E	NUTS,CHLORO,TEMP	SIX	14 27S	76 291W S	FD774CMV
430	10 477			CSXX B	NUTS,CHLORO,TEMP	SIX	15 446S	75 13W S	FD774CMV
301	12 477			CSXX E	NUTS,CHLORO,TEMP	SIX	14 537S	76 106W S	FD774CMV
2000	17 477			CSXX B	NUTS,CHLORO,TEMP	SIX	15 385S	75 203W S	FD774CMV
937	20 477			CSXX E	NUTS,CHLORO,TEMP	SIX	15 276S	75 141W S	FD774CMV
100	21 477			CSXX B	NUTS,CHLORO,TEMP	SIX	14 565S	75 560W S	FD774CMV
845	21 477			CSXX E	NUTS,CHLORO,TEMP	SIX	14 579S	75 451W S	FD774CMV
1900	23 477			CSXX B	NUTS,CHLORO,TEMP	SIX	15 202S	75 598W S	FD774CMV
1200	24 477			CSXX E	NUTS,CHLORO,TEMP	SIX	14 532S	75 517W S	FD774CMV
1700	4 477			CSXX B	TRACE METAL,PH,CHLOR	NUC	9 592S	78 178W S	FD774CMV
100	25 477			CSXX E	TRACE METAL,PH,CHLOR	NUC	13 142S	76 490W S	FD774CMV
ACOUSTIC SURVEY									
1400	4 477			ACXX B	ACOUSTIC SURVEY FOR	UWA	10 267S	78 122W S	FD774CMV
1800	24 477			ACXX E	FISH-TOWED VEHICLE	UWA	14 129S	76 243W S	FD774CMV
PLANKTON PUMP									
	8 4771112	50	PP	B	N G A L194	SIX	15 58S	75 305W S	FD774CMV
	8 4771329	50	PP	E	N G A L194	SIX	15 67S	75 306W S	FD774CMV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE			SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
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12	4771344	50	PP	E	N	G	A L204	SIX	15 54S	75 304W	S FD774CMV
12	4771635	50	PP	B	N	G	A L205	SIX	15 55S	75 308W	S FD774CMV
12	4771814	50	PP	E	N	G	A L205	SIX	15 56S	75 307W	S FD774CMV
12	4772005	50	PP	B	N	G	A L206	SIX	15 51S	75 310W	S FD774CMV
12	4772133	50	PP	E	N	G	A L206	SIX	15 45S	75 315W	S FD774CMV
13	477 0	50	PP	B	N	G	A L207	SIX	15 53S	75 310W	S FD774CMV
13	477 125	50	PP	E	N	G	A L207	SIX	15 54S	75 312W	S FD774CMV
13	477 405	50	PP	B	N	G	A L208	SIX	15 56S	75 313W	S FD774CMV
13	477 534	50	PP	E	N	G	A L208	SIX	15 54S	75 314W	S FD774CMV
13	477 803	50	PP	B	N	G	A L209	SIX	15 55S	75 311W	S FD774CMV
13	477 932	50	PP	E	N	G	A L209	SIX	15 53S	75 311W	S FD774CMV
13	4771200	50	PP	B	N	G	A L210	SIX	15 52S	75 306W	S FD774CMV
13	4771327	50	PP	E	N	G	A L210	SIX	15 53S	75 300W	S FD774CMV
13	4771604	50	PP	B	N	G	A L211	SIX	15 58S	75 306W	S FD774CMV
13	4771733	50	PP	E	N	G	A L211	SIX	15 53S	75 311W	S FD774CMV
13	4772025	50	PP	B	N	G	A L212	SIX	15 52S	75 315W	S FD774CMV
13	4772157	50	PP	E	N	G	A L212	SIX	15 53S	75 318W	S FD774CMV
14	477 0	50	PP	B	N	G	A L213	SIX	15 51S	75 323W	S FD774CMV
14	477 125	50	PP	E	N	G	A L213	SIX	15 52S	75 323W	S FD774CMV
14	477 402	50	PP	B	N	G	A L214	SIX	15 57S	75 306W	S FD774CMV
14	477 502	50	PP	E	N	G	A L214	SIX	15 55S	75 306W	S FD774CMV
15	4771211	50	PP	B	N	G	A L218	SIX	15 110S	75 353W	S FD774CMV
15	4771330	50	PP	E	N	G	A L218	SIX	15 109S	75 353W	S FD774CMV
15	4771643	50	PP	B	N	G	A L219	SIX	15 108S	75 353W	S FD774CMV
15	4771808	50	PP	E	N	G	A L219	SIX	15 107S	75 354W	S FD774CMV
15	4772000	50	PP	B	N	G	A L220	SIX	15 104S	75 358W	S FD774CMV
15	4772131	50	PP	E	N	G	A L220	SIX	15 104S	75 360W	S FD774CMV
16	477 7	50	PP	B	N	G	A L221	SIX	15 107S	75 360W	S FD774CMV
16	477 122	50	PP	E	N	G	A L221	SIX	15 106S	75 359W	S FD774CMV
16	477 404	50	PP	B	N	G	A L222	SIX	15 107S	75 358W	S FD774CMV
16	477 529	50	PP	E	N	G	A L222	SIX	15 106S	75 363W	S FD774CMV
16	477 804	50	PP	B	N	G	A L223	SIX	15 110S	75 357W	S FD774CMV
16	477 933	50	PP	E	N	G	A L223	SIX	15 111S	75 365W	S FD774CMV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE				SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
16	4771304	50	PP	B	N	G	A	L224	SIX	15 112S	75 357W	S FD774CMV
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16	4771608	50	PP	B	N	G	A	L225	SIX	15 109S	75 348W	S FD774CMV
16	4771742	50	PP	E	N	G	A	L225	SIX	15 106S	75 354W	S FD774CMV
16	4772000	50	PP	B	N	G	A	L226	SIX	15 108S	75 352W	S FD774CMV
16	4772134	50	PP	E	N	G	A	L226	SIX	15 111S	75 359W	S FD774CMV
17	477 11	50	PP	B	N	G	A	L227	SIX	15 110S	75 353W	S FD774CMV
17	477 127	50	PP	E	N	G	A	L227	SIX	15 108S	75 355W	S FD774CMV
17	477 403	50	PP	B	N	G	A	L228	SIX	15 107S	75 354W	S FD774CMV
17	477 539	50	PP	E	N	G	A	L228	SIX	15 107S	75 358W	S FD774CMV
20	4772130	50	PP	B	N	G	A	LMAP	SIX	14 583S	75 541W	S FD774CMV
21	477 351	50	PP	E	N	G	A	LMAP	SIX	14 582S	75 447W	S FD774CMV
21	4772005	50	PP	B	N	G	A	L237	SIX	15 513S	76 244W	S FD774CMV
21	4772134	50	PP	E	N	G	A	L237	SIX	15 511S	76 241W	S FD774CMV
22	477 0	50	PP	B	N	G	A	L238	SIX	15 516S	76 248W	S FD774CMV
22	477 121	50	PP	E	N	G	A	L238	SIX	15 514S	76 249W	S FD774CMV
22	477 404	50	PP	B	N	G	A	L239	SIX	15 513S	76 251W	S FD774CMV
22	477 530	50	PP	E	N	G	A	L239	SIX	15 512S	76 251W	S FD774CMV
22	477 820	50	PP	B	N	G	A	L241	SIX	15 515S	76 252W	S FD774CMV
22	477 920	50	PP	E	N	G	A	L241	SIX	15 516S	76 251W	S FD774CMV
22	4771215	50	PP	B	N	G	A	L242	SIX	15 516S	76 252W	S FD774CMV
22	4771335	50	PP	E	N	G	A	L242	SIX	15 514S	76 251W	S FD774CMV
22	4771604	50	PP	B	N	G	A	L243	SIX	15 517S	76 252W	S FD774CMV
22	4771730	50	PP	E	N	G	A	L243	SIX	15 517S	76 254W	S FD774CMV
22	4772005	50	PP	B	N	G	A	L244	SIX	15 518S	76 254W	S FD774CMV
22	4772139	50	PP	E	N	G	A	L244	SIX	15 516S	76 256W	S FD774CMV
23	477 11	50	PP	B	N	G	A	L245	SIX	15 513S	76 251W	S FD774CMV
23	477 131	50	PP	E	N	G	A	L245	SIX	15 514S	76 250W	S FD774CMV
23	477 405	50	PP	B	N	G	A	L246	SIX	15 513S	76 251W	S FD774CMV
23	477 531	50	PP	E	N	G	A	L246	SIX	15 514S	76 252W	S FD774CMV
HYDROGRAPHIC CAST												
4	4771253	50	HCNI		N	G	A	182	SIX	9 543S	78 166W	S FD774CMV
4	4771645	50	HCNI		N	G	A	183	SIX	9 582S	78 221W	S FD774CMV
4	4772033	50	HCNI		N	G	A	184	SIX	10 21S	78 299W	S FD774CMV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.	DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
5	477 553	50	HCNI	N	G A 187	SIX	10 157S	78 512W	S FD774CMV
5	477 800	50	HCNI	N	G A 188	SIX	10 192S	78 538W	S FD774CMV
5	4771132	50	HCNI	N	G A 189	SIX	10 273S	79 100W	S FD774CMV
5	4771241	50	HCNI	N	G A 185	SIX	10 272S	79 104W	S FD774CMV
5	4771540	50	HCNI	N	G A 190	SIX	10 353S	79 256W	S FD774CMV
5	4772043	50	HCNI	N	G A 191	SIX	10 449S	79 413W	S FD774CMV
8	477 415	50	HCNI	ON C	G A 192	SIX	15 16S	75 275W	S FD774CMV
8	477 637	50	HCNI	ON C	G A 193	SIX	15 33S	75 282W	S FD774CMV
8	477 844	50	HCNI	ON C	G A 194	SIX	15 56S	75 301W	S FD774CMV
8	4772046	50	HCNI	ON C	G A 195	SIX	15 89S	75 338W	S FD774CMV
8	4772234	50	HCNI	ON C	G A 196	SIX	15 110S	75 364W	S FD774CMV
9	477 20	50	HCNI	N C	G A 197	SIX	15 132S	75 386W	S FD774CMV
9	477 315	50	HCNI	N C	G A 198	SIX	15 239S	75 467W	S FD774CMV
9	477 530	50	HCNI	N C	G A 199	SIX	15 311S	75 566W	S FD774CMV
9	477 743	50	HCNI	N C	G A 200	SIX	15 362S	76 63W	S FD774CMV
9	4771205	50	HCNI	N C	G A 201	SIX	15 519S	76 241W	S FD774CMV
12	477 838	50	HCNI	ON C	G A 203	SIX	15 59S	75 309W	S FD774CMV
12	4771209	50	HCNI	ON C	G A 204	SIX	15 53S	75 307W	S FD774CMV
13	477 30	50	HCNI	ON C	G A 207	SIX	15 53S	75 311W	S FD774CMV
13	4771237	50	HCNI	ON C	G A 210	SIX	15 52S	75 303W	S FD774CMV
14	477 20	50	HCNI	ON C	G A 213	SIX	15 51S	75 324W	S FD774CMV
14	477 818	50	HCNI	ON C	G A 215	SIX	15 50S	75 306W	S FD774CMV
14	4771238	50	HCNI	N C	G A 216	SIX	14 552S	75 498W	S FD774CMV
15	477 822	50	HCNI	N C	G A 217	SIX	15 109S	75 354W	S FD774CMV
15	4771320	50	HCNI	ON C	G A 218	SIX	15 109S	75 352W	S FD774CMV
16	477 30	50	HCNI	ON C	G A 221	SIX	15 107S	75 361W	S FD774CMV
16	4771347	50	HCNI	ON C	G A 224	SIX	15 109S	75 357W	S FD774CMV
17	477 100	50	HCNI	ON C	G A 227	SIX	15 109S	75 354W	S FD774CMV
17	477 837	50	HCNI	ON C	G A 229	SIX	15 114S	75 354W	S FD774CMV
21	4771637	50	HCNI	N C	G A 236	SIX	15 515S	76 261W	S FD774CMV
21	4772000	50	HCNI	N C	G A 237	SIX	15 513S	76 244W	S FD774CMV
22	477 7	50	HCNI	ON C	G A 238	SIX	15 516S	76 248W	S FD774CMV
22	477 600	50	HCNI	N C	G A 240	SIX	15 512S	76 250W	S FD774CMV
22	4771237	50	HCNI	ON C	G A 242	SIX	15 515S	76 252W	S FD774CMV
23	477 19	50	HCNI	ON C	G A 245	SIX	15 514S	76 251W	S FD774CMV
23	477 828	50	HCNI	ON C	G A 247	SIX	15 515S	76 246W	S FD774CMV

OPEN NET

4	4771320	50	UNBG	102V	60 0 182	SIX	9 543S	78 161W	S	FD774CMV
4	4771655	50	UNBG	102V	90 0 183	SIX	9 582S	78 222W	S	FD774CMV
4	4772155	50	UNBG	102V	100 0 184	SIX	10 22S	78 303W	S	FD774CMV
5	477 115	50	UNBG	102V	100 0 185	SIX	10 67S	78 371W	S	FD774CMV
5	477 340	50	UNBG	102V	100 0 186	SIX	10 100S	78 448W	S	FD774CMV
5	477 612	50	UNBG	102V	100 0 187	SIX	10 157S	78 511W	S	FD774CMV
5	477 810	50	UNBG	102V	100 0 188	SIX	10 193S	78 537W	S	FD774CMV
5	4771157	50	UNBG	102V	100 0 189	SIX	10 273S	79 101W	S	FD774CMV
5	4771630	50	UNBG	102V	100 0 190	SIX	10 351S	79 254W	S	FD774CMV
5	4772102	50	UNBG	102V	100 0 191	SIX	10 447S	79 412W	S	FD774CMV
8	477 450	50	UNBG	102V	35 0 192	SIX	15 14S	75 277W	S	FD774CMV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.			DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
8	477	705	50	UNBG	102V	60	0 193	SIX	15 32S	75 283W	S FD774CMV
8	477	910	50	UNBG	102V	100	0 194	SIX	15 56S	75 301W	S FD774CMV
8	4772120		50	UNBG	102V	100	0 195	SIX	15 89S	75 342W	S FD774CMV
8	4772300		50	UNBG	102V	100	0 196	SIX	15 110S	75 367W	S FD774CMV
9	477	30	50	UNBG	102V	100	0 197	SIX	15 132S	75 388W	S FD774CMV
9	477	320	50	UNBG	102V	100	0 198	SIX	15 240S	75 468W	S FD774CMV
9	477	550	50	UNBG	102V	100	0 199	SIX	15 312S	75 568W	S FD774CMV
9	477	820	50	UNBG	102V	100	0 200	SIX	15 364S	76 66W	S FD774CMV
9	4771230		50	UNBG	102V	100	0 201	SIX	15 520S	76 242W	S FD774CMV
12	477	905	50	UNBG	102V	100	0 203	SIX	15 59S	75 308W	S FD774CMV
12	4771140		50	UNBG	102V	100	0 204	SIX	15 55S	75 306W	S FD774CMV
12	4771413		50	UNBG	102V	100	0 204	SIX	15 54S	75 305W	S FD774CMV
12	4772355		50	UNBG	102V	100	0 207	SIX	15 53S	75 310W	S FD774CMV
13	477	200	50	UNBG	102V	100	0 207	SIX	15 52S	75 315W	S FD774CMV
13	4771156		50	UNBG	102V	84	0 210	SIX	15 52S	75 307W	S FD774CMV
13	4771330		50	UNBG	102V	84	0 210	SIX	15 53S	75 300W	S FD774CMV
13	4771830		50	UNBG	102V	84	0 211	SIX	15 51S	75 316W	S FD774CMV
14	477	0	50	UNBG	102V	84	0 213	SIX	15 51S	75 323W	S FD774CMV
14	477	150	50	UNBG	102V	84	0 214	SIX	15 52S	75 322W	S FD774CMV
14	477	610	50	UNBG	102V	84	0 214	SIX	15 53S	75 306W	S FD774CMV
15	4771250		50	UNBG	102V	85	0 218	SIX	15 110S	75 352W	S FD774CMV
15	4771400		50	UNBG	102V	84	0 218	SIX	15 109S	75 353W	S FD774CMV
16	477	5	50	UNBG	102V	84	0 221	SIX	15 107S	75 360W	S FD774CMV
16	477	220	50	UNBG	102V	84	0 221	SIX	15 106S	75 356W	S FD774CMV
16	4771322		50	UNBG	102V	85	0 224	SIX	15 111S	75 356W	S FD774CMV
16	4771430		50	UNBG	102V	85	0 224	SIX	15 110S	75 355W	S FD774CMV
17	477	30	50	UNBG	102V	84	0 227	SIX	15 109S	75 353W	S FD774CMV
17	477	200	50	UNBG	102V	84	0 227	SIX	15 107S	75 355W	S FD774CMV
17	477	930	50	UNBG	102V	99	0 229	SIX	15 120S	75 353W	S FD774CMV
19	4771915		50	UNBG	102V	100	0 230	SIX	14 529S	75 530W	S FD774CMV
19	4772200		50	UNBG	102V	100	0 231	SIX	15 21S	75 411W	S FD774CMV
19	4772345		50	UNBG	102V	100	0 232	SIX	15 81S	75 323W	S FD774CMV
20	477	140	50	UNBG	102V	100	0 233	SIX	15 140S	75 245W	S FD774CMV
20	477	315	50	UNBG	102V	100	0 234	SIX	15 197S	75 166W	S FD774CMV
20	477	510	50	UNBG	102V	100	0 235	SIX	15 278S	75 142W	S FD774CMV
21	4771650		50	UNBG	102V	85	0 236	SIX	15 515S	76 259W	S FD774CMV
22	477	30	50	UNBG	102V	85	0 238	SIX	15 515S	76 248W	S FD774CMV
22	477	215	50	UNBG	102V	84	0 238	SIX	15 517S	76 251W	S FD774CMV
22	4771215		50	UNBG	102V	84	0 242	SIX	15 516S	76 252W	S FD774CMV
22	4771330		50	UNBG	102V	84	0 242	SIX	15 514S	76 251W	S FD774CMV
23	477	0	50	UNBG	102V	85	0 245	SIX	15 513S	76 252W	S FD774CMV
23	477	155	50	UNBG	102V	84	0 245	SIX	15 514S	76 250W	S FD774CMV
23	477	620	50	UNBG	102V	500	0 246	SIX	15 514S	76 251W	S FD774CMV
23	477	730	50	UNBG	102V	85	0 247	SIX	15 514S	76 250W	S FD774CMV

SALINITY, TEMPERATURE, DEPTH

8	4771030	50	TDXX	194	15M	SIX	15 57S	75 304W	S	FD774CMV
12	4771230	50	TDXX	204	50M	SIX	15 52S	75 307W	S	FD774CMV
12	4771638	50	TDXX	205	50M	SIX	15 55S	75 308W	S	FD774CMV

TIME GMT	DATE D.M.Y.	TIME LOC	TZ LOC	SAMP CODE	SAMPLE IDENT.		DISP CODE	LAT.	LONG.	CRUISE LEG-SHIP
12	4772016	50	TDXX	206	50M		SIX	15 51S	75 310W	S FD774CMV
13	477 46	50	TDXX	207	50M		SIX	15 54S	75 311W	S FD774CMV
13	477 420	50	TDXX	208	50M		SIX	15 56S	75 314W	S FD774CMV
13	477 822	50	TDXX	209	50M		SIX	15 55S	75 311W	S FD774CMV
13	4771310	50	TDXX	210	50M		SIX	15 53S	75 300W	S FD774CMV
13	4771440	50	TDXX	210	45M		SIX	15 57S	75 302W	S FD774CMV
13	4771730	50	TDXX	211	50M		SIX	15 53S	75 311W	S FD774CMV
13	4772000	50	TDXX	212	50M		SIX	15 52S	75 315W	S FD774CMV
13	4772230	50	TDXX	213	50M		SIX	15 52S	75 319W	S FD774CMV
14	477 35	50	TDXX	214	50M		SIX	15 51S	75 324W	S FD774CMV
14	477 400	50	TDXX	215	50M		SIX	15 57S	75 306W	S FD774CMV
15	4771340	50	TDXX	218	50M		SIX	15 109S	75 353W	S FD774CMV
15	4771618	50	TDXX	219	50M		SIX	15 108S	75 352W	S FD774CMV
15	4772026	50	TDXX	220	50M		SIX	15 104S	75 358W	S FD774CMV
15	4772250	50	TDXX	221	50M		SIX	15 106S	75 360W	S FD774CMV
16	477 415	50	TDXX	222	50M		SIX	15 107S	75 358W	S FD774CMV
16	477 824	50	TDXX	223	50M		SIX	15 110S	75 357W	S FD774CMV
16	4771022	50	TDXX	223	50M		SIX	15 113S	75 367W	S FD774CMV
17	477 120	50	TDXX	227	50M		SIX	15 108S	75 354W	S FD774CMV
17	477 415	50	TDXX	228	50M		SIX	15 108S	75 354W	S FD774CMV
17	4771510	50	TDXX B	229	4.2M		SIX	15 376S	75 193W	S FD774CMV
17	4771540	50	TDXX E	229	4.2M		SIX	15 347S	75 164W	S FD774CMV
19	4771915	50	TDXX	230	50M		SIX	14 529S	75 530W	S FD774CMV
19	4772145	50	TDXX	231	50M		SIX	15 19S	75 413W	S FD774CMV
19	4772345	50	TDXX	232	50M		SIX	15 81S	75 323W	S FD774CMV
20	477 126	50	TDXX	233	50M		SIX	15 137S	75 247W	S FD774CMV
20	477 317	50	TDXX	234	50M		SIX	15 197S	75 166W	S FD774CMV
20	477 457	50	TDXX	235	50M		SIX	15 278S	75 141W	S FD774CMV
20	4772115	50	TDXX B	236	4.2M		SIX	14 578S	75 548W	S FD774CMV
21	477 315	50	TDXX E	236	4.2M		SIX	14 566S	75 469W	S FD774CMV
21	4772030	50	TDXX	237	50M		SIX	15 512S	76 243W	S FD774CMV
22	477 15	50	TDXX	238	50M		SIX	15 516S	76 248W	S FD774CMV
22	477 430	50	TDXX	239	50M		SIX	15 513S	76 253W	S FD774CMV
22	477 900	50	TDXX	241	50M		SIX	15 515S	76 251W	S FD774CMV
22	4771230	50	TDXX	242	50M		SIX	15 516S	76 252W	S FD774CMV
22	4771645	50	TDXX	243	50M		SIX	15 517S	76 253W	S FD774CMV
22	4772100	50	TDXX	244	50M		SIX	15 517S	76 255W	S FD774CMV
23	477 30	50	TDXX	245	50M		SIX	15 514S	76 251W	S FD774CMV
23	477 420	50	TDXX	246	50M		SIX	15 513S	76 250W	S FD774CMV

9900 END SAMPLE INDEX FD774CMV