

ACCESS NUMBER	REF NUMBER	FILE TYPE	PROJ CODE	INST	PLAT	CRUISE NO	CRUISE START	CRUISE END	NUM STA	NUM REC
9000228	077641	C116		3101	PAA1	VOSP	07/17/90	08/15/90	15	15
9000228	077642	C116		3101	32CC	VOSP	02/23/90	03/31/90	35	35
9000228	077643	C116		3101	32CC	VOSP	06/17/90	06/27/90	8	8
9000228	077644	C116		3101	54WL	VOSP	06/01/90	06/03/90	4	4
9000228	077645	C116		3101	54WL	VOSP	06/05/90	06/28/90	18	18
9000228	077646	C116		3101	PAAA	VOSP	05/08/90	06/29/90	14	14
9000228	077647	C116		3101	26MW	VOSP	07/13/90	07/31/90	37	37
9000228	077648	C116		3101	54PA	VOSP	07/16/90	08/05/90	38	38
9000228	077649	C116		3101	320N	VOSP	07/04/90	07/23/90	23	23
9000228	077650	C116		3101	49CC	VOSP	03/11/90	04/07/90	19	19
9000228	077651	C116		3101	49CC	VOSP	06/24/90	07/22/90	33	33
9000228	077652	C116		3101	32Q7	VOSP	05/17/90	06/17/90	49	49
9000228	077653	C116		3101	32Q7	VOSP	06/28/90	07/22/90	29	29

322 322

ACCESSION NO. 9000228 FILETYPE C116

TRACK NO. _____

PROJECT IDENTIFICATION VOSP

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	9-26-90	FJM	Diskette				322
DUPLICATE TAPE VAX DISK	9-28-90	FJM	[MITCHELL. NORM.]*	1	✓	✓	↓
REFORMATTED TAPE RAMUS DISK	9-28-90	FJM	NORMAN HALL.	1	✓	✓	↓
REFORMATTED DISK TAPE	10-5-90	R.P.S.	W05825 **	1	✓	✓	↓
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* NORM. HAL

** LABEL: D NODC * NORM OUT.

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

ACCESSION NO. _____

FILETYPE _____

TRACK NO. _____

PROJECT IDENTIFICATION _____

PREVIOUS DATA
CORRECTIONS

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	9-26-90	FJM	Diskette				
DUPLICATE TAPE VAX	9-28-90	FJM	[MITCHELL. NORM] *	2	✓	✓	
REFORMATTED TAPE DAMUS DISK	9-28-90	FJM	**	2	✓	✓	
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

* FIVE * XBT ≠ ENTIRE * XBT

** DNODC * FIVE XBT. AND DNODC * ENTIRE XBT.

ADDITIONAL ERRORS/CORRECTIONS (NOT REPORTED TO P.I.)

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

9000228

Norman Hall, Programmer/Analyst
Volunteer Observing Ship Program
Scripps Institution of Oceanography
University of California, San Diego
9500 Gillman Drive
La Jolla, CA 92093-0230

24 September 1990

Phone (619) 534-6006

Francis J. Mitchell
Oceanographer (E/OC 13)
National Oceanographic Data Center
Data Acquisition and Management Branch
Washington, DC 20235

Dear Mr. Mitchell,

Enclosed are two MS-DOS data disks (two identical copies, for your convenience) containing XBT data. The format is described on the disk in the file ODC-FMT.DOC, and the file LIST.DOC gives the start date, end date, and the number of drops in each cruise. Printouts of these files are also enclosed. The physical format is high-density 1.2 mb PC diskettes.

The data files should bring our submissions to NODC up to the present, except for that data which we have received in the last two weeks.

Also included is the file SK08-.ODC and SK08-COR.ODC, containing data which was submitted previously. We have discovered an error in the dates, affecting 5 drops of this cruise. The first file contains the entire cruise with corrected data; the second contains only the affected drops. I hope that this will enable you to make the necessary corrections in your archives.

DAMUS
DISK = D NODC * NORMAN HALL.
9-28-90



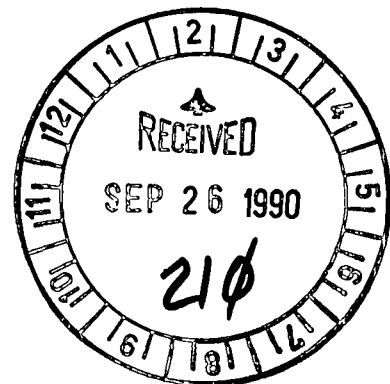
As before, If you have any difficulties with this data, or questions, comments, or suggestions, please write or call.

Sincerely,



Norman Hall
Programmer/Analyst

Encl: 2 disks,
2 File Format Descriptions,
2 Cruise Listings



----- Filename : Drop Count
CSIGN... (First drop in cruise)
CSIGN... (Last drop in cruise)

CSIGN DATE TIME LAT LON PTS SST CRZ-DRP

----- AN01--: 15

HPYZ ✓ 900717 0254 22.09 -164.03 21 26.7 S01-003
HPYZ ✓ 900815 2203 21.46 -159.93 22 26.6 S01-022

PA A1
ASIAN PROGRESS

----- CC01--: 35

WCGN ✓ 900223 1647 37.66 -124.45 13 13.6 S01-003
WCGN ✓ 900331 1808 40.20 -125.23 23 12.6 S01-039

32CC

----- CC02--: 8

WCGN ✓ 900617 0153 48.85 -142.85 19 12.5 S02-001
WCGN ✓ 900627 0008 30.20 -135.84 19 22.2 S02-008

32CC

----- LW01--: 4

ABBN ✓ 900601 0305 53.33 -139.03 19 9.8 S01-005
ABBN ✓ 900603 1917 46.48 -128.75 13 15.2 S01-008

WESTERN LION
54 W

----- LW02--: 18

ABBN ✓ 900605 0110 32.40 -124.65 15 18.7 S02-002
ABBN ✓ 900628 1534 -41.47 -49.57 18 13.6 S02-020

Liberia

WESTERN LION

----- MIO2--: 14

H9BQ ✓ 900508 2257 31.29 -126.78 12 16.8 S02-001
H9BQ ✓ 900629 0711 27.43 133.45 17 28.8 S02-014

PA A A

----- NM12--: 37

OWU06 ✓ 900713 2137 33.40 -125.85 13 18.7 S12-003
OWU06 ✓ 900731 0417 4.88 -151.45 19 28.8 S12-044

MOANA PACIFIC
26 M W

----- FN06--: 38

D5NZ ✓ 900716 1802 37.00 -123.38 16 15.7 S06-001
D5NZ ✓ 900805 0556 4.20 -153.60 19 28.2 S06-045

54PA

SEA-LAND ENTERPRISE
32 W

----- SE05--: 23

KRGB ✓ 900704 1828 21.32 -161.68 21 26.2 S05-002
KRGB ✓ 900723 0456 38.27 167.85 15 22.6 S05-028

----- SK07--: 19

7JOB ✓ 900311 0312 37.56 -135.57 15 14.2 S07-002
7JOB ✓ 900407 1501 41.15 -135.67 15 13.7 S07-032

49CC

----- SK08--: 28

7JOB ✓ 900520 0251 46.33 -130.75 24 11.1 S08-003
7JOB ✓ 900616 1455 39.26 -132.98 15 15.7 S08-037

49CC

NOT IN
INPUT
NORMAN HALL

----- SK09--: 33

7JOB ✓ 900624 0313 45.39 -131.36 14 14.4 S09-002
7JOB ✓ 900722 0258 38.31 -130.19 18 17.9 S09-037

49CC

```
----- ST04--: 49
KIRH      900517 1338 37.27 -124.48 13 11.1 S04-002
KIRH      900617 0200 37.07 -126.22 13 16.1 S04-060

----- ST05--: 29
KIRH      900628 0456 21.30 -161.46 17 26.7 S05-002
KIRH      900722 1511 36.99 -126.77 20 17.5 S05-040
```

SEA-LAND TRADER
3207

----- Filename : Drop Count
 CSIGN... (First drop in cruise)
 CSIGN... (Last drop in cruise)

CSIGN	DATE	TIME	LAT	LON	PTS	SST	CRZ-DRP
----- AN01--: 15							
HPYZ	900717	0254	22.09	-164.03	21	26.7	S01-003
HPYZ	900815	2203	21.46	-159.93	22	26.6	S01-022
----- CC01--: 35							
WCGN	900223	1647	37.66	-124.45	13	13.6	S01-003
WCGN	900331	1808	40.20	-125.23	23	12.6	S01-039
----- CC02--: 8							
WCGN	900617	0153	48.85	-142.85	19	12.5	S02-001
WCGN	900627	0008	30.20	-135.84	19	22.2	S02-008
----- LW01--: 4							
ABBN	900601	0305	53.33	-139.03	19	9.8	S01-005
ABBN	900603	1917	46.48	-128.75	13	15.2	S01-008
----- LW02--: 18							
ABBN	900605	0110	32.40	-124.65	15	18.7	S02-002
ABBN	900628	1534	-41.47	-49.57	18	13.6	S02-020
----- M102--: 14							
H9BQ	900508	2257	31.29	-126.78	12	16.8	S02-001
H9BQ	900629	0711	27.43	133.45	17	28.8	S02-014
----- NM12--: 37							
OWU06	900713	2137	33.40	-125.85	13	18.7	S12-003
OWU06	900731	0417	4.88	-151.45	19	28.8	S12-044
----- PN06--: 38							
D5NZ	900716	1802	37.00	-123.38	16	15.7	S06-001
D5NZ	900805	0556	4.20	-153.60	19	28.2	S06-045
----- SE05--: 23							
KRGB	900704	1828	21.32	-161.68	21	26.2	S05-002
KRGB	900723	0456	38.27	167.85	15	22.6	S05-028
----- SK07--: 19							
7JOB	900311	0312	37.56	-135.57	15	14.2	S07-002
7JOB	900407	1501	41.15	-135.67	15	13.7	S07-032
----- SK08--: 28							
7JOB	900520	0251	46.33	-130.75	24	11.1	S08-003
7JOB	900616	1455	39.26	-132.98	15	15.7	S08-037
----- SK09--: 33							
7JOB	900624	0313	45.39	-131.36	14	14.4	S09-002
7JOB	900722	0258	38.31	-130.19	18	17.9	S09-037

----- ST04--: 49

KIRH	900517	1338	37.27	-124.48	13	11.1	S04-002
KIRH	900617	0200	37.07	-126.22	13	16.1	S04-060

----- ST05--: 29

KIRH	900628	0456	21.30	-161.46	17	26.7	S05-002
KIRH	900722	1511	36.99	-126.77	20	17.5	S05-040

The data on this disk are in the following format, following specifications in the NODC User's Guide:

```
1 2 3 4 5 6
12345678901234567890123456789012345678901234567890123456789
X QDDMMXNFDDMMXEPYYMMDDHHMMP XXXXXXXXXXXXX
X 740204N1136521W188071600 3 3EZG5 1 1
```

```
7 8 9 0 1
01234567890123456789012345678901234567890
14 0532FF PPPP DDDTTTTDDDDTTTTDDDDTTTT...
14 053204 15 41620 101589 261569...
```

01 01 ALWAYS X
02 02 ALWAYS BLANK
03 03 QUADRANT
04 10 LATITUDE (D=Degrees, M=Minutes, X=tenths, N=North or South,
P=Precision: 1 => nearest minute or better
11 18 LONGITUDE (D, M, X, P as above; E=East or West)
19 24 DATE (Y=Year, M=Month, D=Day)
24 29 TIME (H=Hour, M=Minute, F=Precision: 3 => nearest hour)
30 54 (Left blank for use by NODC)
55 62 ORIGINATOR'S CRUISE NUMBER (callsign + sequential cruise number)
66 CONSECUTIVE NUMBER
72 (Left blank -- for paper chart data only)
73 73 INSTRUMENT TYPE (1 => Shipboard XBT)
74 74 GRID CODE (4 => 450 meter probe reporting in meters & deg. C.)
75 75 HIT BOTTOM (blank => no bottom contact)
76 77 DIGITIZATION METHOD (05 => direct digital output)
78 79 DIGITIZATION INTERVAL (32=> variable -- statistically determined)
80 81 TREATMENT AND STORAGE (02-06 => data compression with fit within
02=0.05; 03=0.1; 04=0.2; 05=0.3; 06=0.7 degrees C.)
82 85 BOTTOM DEPTH (blank => unknown)
86 95 (Left blank -- for MBT data only)
96 99 NUMBER OF DATA PAIRS (right justified in field)
100 100 BLANK
101 104 DEPTH IN WHOLE METERS
105 108 TEMPERATURE IN HUNDREDTHS OF A DEGREE CENTIGRADE

(Depth and temperature pairs fill out the rest of the record ending with a carriage return-linefeed pair (ASCII 13 & 10))

Any questions, requests for alterations, complaints, notification of errors, etc. should be addressed to:

Norman Hall (A-030)
Volunteer Observing Ship Program
Scripps Institution of Oceanography
La Jolla, CA 923093
(619) 534-6006

The data on this disk are in the following format, following specifications in the NODC User's Guide:

```

      1           2           3           4           5           6
12345678901234567890123456789012345678901234567890123456789
X QDDMMXNFDDMMXEPYYMMDDHHMMP                XXXXXXXXXXXYYY
X 740204N1136521W188071600 3                  3EZG5 1 1

```

```

      1           1
      8           9           0           1
01234567890123456789012345678901234567890
 14 0532FF                PFFP DDDDTTTTDDDDTTTTDDDDTTTT...
 14 053204                15 41620 101589 261569...

```

- 01 01 ALWAYS X
- 02 02 ALWAYS BLANK
- 03 03 QUADRANT
- 04 10 LATITUDE (D=Degrees, M=Minutes, X=tenths, N=North or South,
F=Precision: 1 => nearest minute or better)
- 11 18 LONGITUDE (D, M, X, F as above; E=East or West)
- 19 24 DATE (Y=Year, M=Month, D=Day)
- 24 29 TIME (H=Hour, M=Minute, P=Precision: 3 => nearest hour)
- 30 54 (Left blank for use by NODC)
- 55 62 ORIGINATOR'S CRUISE NUMBER (callsign + sequential cruise number)
- 66 66 CONSECUTIVE NUMBER
- 72 72 (Left blank -- for paper chart data only)
- 73 73 INSTRUMENT TYPE (1 => Shipboard XBT)
- 74 74 GRID CODE (4 => 450 meter probe reporting in meters & deg. C.)
- 75 75 HIT BOTTOM (blank => no bottom contact)
- 76 77 DIGITIZATION METHOD (05 => direct digital output)
- 78 79 DIGITIZATION INTERVAL (32=> variable -- statistically determined)
- 80 81 TREATMENT AND STORAGE (02-06 => data compression with fit within
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- 82 85 BOTTOM DEPTH (blank => unknown)
- 86 95 (Left blank -- for MBT data only)
- 96 99 NUMBER OF DATA PAIRS (right justified in field)
- 100 100 BLANK
- 101 104 DEPTH IN WHOLE METERS
- 105 108 TEMPERATURE IN HUNDREDTHS OF A DEGREE CENTIGRADE

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 (619) 534-6006

----- Filename : Drop Count

CSIGN... (First drop in cruise)

CSIGN... (Last drop in cruise)

STATION	DATE	TIME	LAT	LON	PTS	SST	CRZ-DRP
----- AN01-: 15							
HPYZ	900717	0254	22.09	-164.03	21	26.7	S01-003
HPYZ	900815	2203	21.46	-159.93	22	26.6	S01-022
----- CC01-: 35							
WCGN	900223	1647	37.66	-124.45	13	13.6	S01-003
WCGN	900331	1808	40.20	-125.23	23	12.6	S01-039
----- CC02-: 8							
WCGN	900617	0153	48.85	-142.85	19	12.5	S02-001
WCGN	900627	0008	30.20	-135.84	19	22.2	S02-008
----- LW01-: 4							
A8BN	900601	0305	53.33	-139.03	19	9.8	S01-005
A8BN	900603	1917	46.48	-128.75	13	15.2	S01-008
----- LW02-: 18							
A8BN	900605	0110	32.40	-124.65	15	18.7	S02-002
A8BN	900628	1534	-41.47	-49.57	18	13.6	S02-020
----- MI02-: 14							
HPYZ	900508	2257	31.29	-126.78	12	16.8	S02-001
HPYZ	900629	0711	27.43	133.45	17	28.8	S02-014
----- NM12-: 37							
OWUO6	900713	2137	33.40	-125.85	13	18.7	S12-003
OWUO6	900731	0417	4.88	-151.45	19	28.8	S12-044
----- PN06-: 38							
D5NZ	900716	1802	37.00	-123.38	16	15.7	S06-001
D5NZ	900805	0556	4.20	-153.60	19	28.2	S06-045
----- SE05-: 23							
KRGB	900704	1828	21.32	-161.68	21	26.2	S05-002
KRGB	900723	0456	38.27	167.85	15	22.6	S05-028
----- SK07-: 19							
7JOB	900311	0312	37.56	-135.57	15	14.2	S07-002
7JOB	900407	1501	41.15	-135.67	15	13.7	S07-032
----- SK08-: 28							
7JOB	900520	0251	46.33	-130.75	24	11.1	S08-003
7JOB	900616	1455	39.26	-132.98	15	15.7	S08-037
----- SK09-: 33							
7JOB	900624	0313	45.39	-131.36	14	14.4	S09-002
7JOB	900722	0258	38.31	-130.19	18	17.9	S09-037
----- ST04-: 49							
KIRH	900517	1338	37.27	-124.48	13	11.1	S04-002
KIRH	900617	0200	37.07	-126.22	13	16.1	S04-060
----- ST05-: 29							

KIRH	900628	0456	21.30	-161.46	17	26.7	S05-002
KIRH	900722	1511	36.99	-126.77	20	17.5	S05-040

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1           2           3           4           5           6
123456789012345678901234567890123456789012345678901234567890123456789
X QDDMMXNPDDDDMMXEPYMMDDHHMMP                XXXXXXXXXXXYYY
X 740204N1136521W188071600 3                    3EZG5 1 1

```

```

7           8           9           1           1
01234567890123456789012345678901234567890
14 0532FF                PPPP DDDDTTTTDDDDTTTDDDDTTT...
14 053204                15 41620 101589 261569...

```

- 01 01 ALWAYS X
- 02 02 ALWAYS BLANK
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- 04 10 LATITUDE (D=Degrees, M=Minutes, X=tenths, N=North or South,
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- 55 62 ORIGINATOR'S CRUISE NUMBER (callsign + sequential cruise number)
- 66 CONSECUTIVE NUMBER
- 72 (Left blank -- for paper chart data only)
- 73 INSTRUMENT TYPE (1 => Shipboard XBT)
- 74 74 GRID CODE (4 => 450 meter probe reporting in meters & deg. C.)
- 75 75 HIT BOTTOM (blank => no bottom contact)
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 Volunteer Observing Ship Program
 Scripps Institution of Oceanography
 La Jolla, CA 923093

() 534-6006

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
9000228	C116	077647	9999	3101	26MW	1990/07/13	VOSP	193453
9000228	C116	077649	9999	3101	320N	1990/07/04	VOSP	193455
9000228	C116	077642	9999	3101	32CC	1990/02/23	VOSP	193448
9000228	C116	077643	9999	3101	32CC	1990/06/17	VOSP	193449
9000228	C116	077652	9999	3101	32Q7	1990/05/17	VOSP	193458
9000228	C116	077653	9999	3101	32Q7	1990/06/28	VOSP	193459
9000228	C116	077650	9999	3101	49CC	1990/03/11	VOSP	193456
9000228	C116	077651	9999	3101	49CC	1990/06/24	VOSP	193457
9000228	C116	077648	9999	3101	54PA	1990/07/16	VOSP	193454
9000228	C116	077644	9999	3101	54WL	1990/06/01	VOSP	193450
9000228	C116	077645	9999	3101	54WL	1990/06/05	VOSP	193451
9000228	C116	077641	9999	3101	PAA1	1990/07/17	VOSP	193447
9000228	C116	077646	9999	3101	PAAA	1990/05/08	VOSP	193452

(13 rows affected)

Password:

accNo	fleA	refNo	ship	staCnt	recCnt	startDate	endDate
9000228	C116	077647	26MW	37	37	90/07/13	90/07/31
9000228	C116	077649	320N	23	23	90/07/04	90/07/23
9000228	C116	077642	32CC	35	35	90/02/23	90/03/31
9000228	C116	077643	32CC	8	8	90/06/17	90/06/27
9000228	C116	077652	32Q7	49	49	90/05/17	90/06/17
9000228	C116	077653	32Q7	29	29	90/06/28	90/07/22
9000228	C116	077650	49CC	19	19	90/03/11	90/04/07
9000228	C116	077651	49CC	33	33	90/06/24	90/07/22
9000228	C116	077648	54PA	38	38	90/07/16	90/08/05
9000228	C116	077644	54WL	4	4	90/06/01	90/06/03
9000228	C116	077645	54WL	18	18	90/06/05	90/06/28
9000228	C116	077641	PAA1	15	15	90/07/17	90/08/15
9000228	C116	077646	PAAA	14	14	90/05/08	90/06/29

(13 rows affected)