

DATA DOCUMENTATION FORM

7500530

NATIONAL OCEANOGRAPHIC DATA CENTER RECORDS SECTION WASHINGTON, D. C. 20390

This form should accompany all data submissions to NODC. Section A, Originator Identification, must be completed when the data are submitted. It is highly desirable for NODC to also receive the remaining pertinent information at that time. This may be most easily accomplished by attaching reports, publications, or manuscripts which are readily available describing data collection, analysis, and format specifics. Readable, handwritten submissions are acceptable in all cases. All data shipments should be sent to the above address.

A. ORIGINATOR IDENTIFICATION

THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED
 UNIVERSITY OF CALIFORNIA
 SCRIPPS INSTITUTION OF OCEANOGRAPHY
 P.O. BOX 109
 LA JOLLA, CALIFORNIA 92037

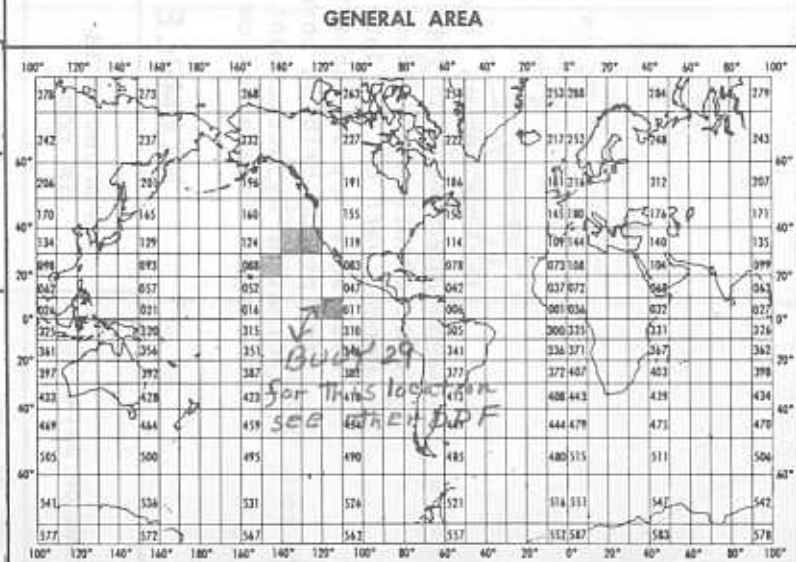
EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED NORTH PACIFIC BUOY PROGRAM (“GEOPHYSICAL MEASUREMENTS”)	3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 16, 18, 19, 22, [29 somewhat different data format and arrangement, see other DDF]
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4. PLATFORM NAME(S) SID BUOY	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) BUOY (“PROTOTYPE”)	6. PLATFORM AND OPERATOR NATIONALITY (IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
		U.S.	U.S.	MAY 17, '64	DEC. 27, '64

8. ARE DATA PROPRIETARY?
 NO YES
 IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR _____ MONTH _____

11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
 (i.e., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)
 NO YES PART (SPECIFY BELOW)



10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)
 Anthony M. Tubbs

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Air Temperature Sea Temperature - at six depths in meters - 1, 10, 30, 60, 100, 150	Degrees F Degrees C	Yellow Springs Instrument Co. Thermistor # 44030 installed in cable assem- bly. Readout is electrical analog indic- ating thermometer measure- ment. Various range readouts are used with 10° and 20° spans. Readout manufactured by Burnett Electronics to our bridge design. Constant current regulated power supply in each indicator.		All sensors continuously activate a series of dials on an instrument panel. Analog data are obtained by periodically photo- graphing the panel, the data being stored on film. Pictures of the dials are examined by hand to digitize the data.
Wind Speed	Knots	Belfast Model C cup anemometer		Knots converted to m/sec. in computer process.
Wind Direction	True direction, apparently to nearest 5 degrees, from which wind is blowing	Electrical indicating vane meter, sensor vane driven potentiometer, Belfast Int. Co., Model C.		Apparent wind directions are combined, in computer process, with magnetic buoy headings and magnetic deviation to produce true wind directions.

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Buoy Heading	Compass North			
Measuring Line Tension	Arbitrary units - very likely Kilograms	Specially constructed Brancon silicon gauge load cell.		Line tension in milliamperes of electric current converted to kilograms by computer process.

C. DATA FORMAT

COMPLETE THIS SECTION FOR PUNCHED CARDS OR TAPE, MAGNETIC TAPE, OR DISC SUBMISSIONS.

**1. LIST RECORD TYPES CONTAINED IN THE TRANSMITTAL OF YOUR FILE
GIVE METHOD OF IDENTIFYING EACH RECORD TYPE**

80-character card image on tape.
Observed records, with time increasing by the hour.
Also end-of-file records.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

BY BUOY (OR STATION) NUMBER.

There were five buoys #'s 16, 18, 19, 22, 29, with the last (29) of somewhat revised data format.
There is one listing, (or file) for each buoy.

3. ATTRIBUTES AS EXPRESSED IN PL-1 ALGOL COBOL
 FORTRAN _____ LANGUAGE

**4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER _____
ADDRESS _____**

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE (NODC COPY)

<p>5. RECORDING MODE</p> <p><input type="checkbox"/> BCD <input type="checkbox"/> BINARY</p> <p><input type="checkbox"/> ASCII <input checked="" type="checkbox"/> EBCDIC</p> <p><input type="checkbox"/> _____</p>	<p>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH <input type="checkbox"/> _____</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p> <p><input type="checkbox"/> _____</p>	<p>10. END OF FILE MARK</p> <p>(Following card of nines) <input type="checkbox"/> OCTAL 17</p> <p><input checked="" type="checkbox"/> NODC 360 Hex</p>
<p>7. PARITY</p> <p><input checked="" type="checkbox"/> ODD</p> <p><input type="checkbox"/> EVEN</p>	<p>11. PASTE-ON-PAPER LABEL DESCRIPTION (INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p style="text-align: center;">TAPE NO. T168929 by Originator (S.I.D.) NO. 2152 NODC copy. Creation date 24th Aug. '71</p>
<p>8. DENSITY</p> <p><input type="checkbox"/> 200 BPI <input checked="" type="checkbox"/> 1600 BPI</p> <p><input type="checkbox"/> 556 BPI</p> <p><input type="checkbox"/> 800 BPI</p> <p><input type="checkbox"/> _____</p>	<p>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p style="text-align: center;">80 X 10 blocking factor</p> <p>13. LENGTH OF BYTES IN BITS</p> <p style="text-align: center;">8</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Observed Record

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
"SIO" (Originator ID)	1	3	Bytes	A3	
Station (buoy) #	4	2		I2	
Year	6	2		I2	
Day of Year	8	3		I3	
Time (hr., min.)	11	4		I4	
Air Temp.	15	2		F 2.0	
Sea Temperature at 1 M, 10 M, 30 M, 60 M, 100 M, and 150 M	17	18		6 F 3.1	
Wind Speed	35	2		F 2.0	
" Direction	37	3		F 3.0	(relative to buoy heading)
Buoy Heading	40	3		F 3.0	(compass, North)
Moorng Line Tension	43	2		F 2.0	
(blanks)	45	32	32 X		
Sequence Number	77	4	I4		

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A. ORIGINATOR IDENTIFICATION

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EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED NORTH PACIFIC BUOY PROGRAM ("Geophysical measurements")		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 29									
4. PLATFORM NAME(S) SIO BUOY	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) BUOY ("PROTOTYPE")	6. PLATFORM AND OPERATOR NATIONALITY (IES) <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>PLATFORM</th> <th>OPERATOR</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">U.S.</td> <td style="text-align: center;">U.S.</td> </tr> </tbody> </table>	PLATFORM	OPERATOR	U.S.	U.S.	7. DATES <table border="1" style="width:100%; border-collapse: collapse;"> <thead> <tr> <th>FROM: MO/DAY/YR</th> <th>TO: MO/DAY/YR</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">Feb. 5, '67</td> <td style="text-align: center;">June 22, '67</td> </tr> </tbody> </table>	FROM: MO/DAY/YR	TO: MO/DAY/YR	Feb. 5, '67	June 22, '67
PLATFORM	OPERATOR										
U.S.	U.S.										
FROM: MO/DAY/YR	TO: MO/DAY/YR										
Feb. 5, '67	June 22, '67										
8. ARE DATA PROPRIETARY ? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE ? YEAR _____ MONTH _____		II. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. <p style="text-align: center;">GENERAL AREA</p>									
9. ARE DATA DECLARED NATIONAL PROGRAM (DNP) ? (ie., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE ?) <input type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		(Continuation of the map area from the previous section)									
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Anthony M. Tubbs											

B. SCIENTIFIC CONTENT

NAME OF DATA FIELD	REPORTING UNITS OR CODE	METHODS OF OBSERVATION AND INSTRUMENTS USED (SPECIFY TYPE AND MODEL)	ANALYTICAL METHODS (INCLUDING MODIFICATIONS) AND LABORATORY PROCEDURES	DATA PROCESSING TECHNIQUES WITH FILTERING AND AVERAGING
Air Temperature Buoy Heading Wind Direction Wind Speed Sea Temperature at <u>seven</u> depths - 1, 45, 65, 85, 105, 125, 250 meters.	Temperature Compass heading FOR INFORMATION ON UNITS, INSTRUMENTS, FIRST OF THESE TWO DATA DOCUMENTATION FORMS. THE ORDER OF THE DATA FIELDS IS SOMEWHAT REARRANGED, FOR THIS ONE BUOY STATION.			ETC. REFER TO THE DATA FORMAT
Note: Mooring Line Tension is absent from this file (Sta. 29)				

RECORD FORMAT DESCRIPTION

RECORD NAME Observed Record

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
"SIO"	1	3	Bytes	A 3	
(Originator ID				I 2	
Station (buoy) #	4	2		I 2	
Year	6	2		I 3	
Day of year	8	3		I 4	
Hour and Minute	11	4		F 2.0	
Air Temperature	15	2		F 3.0	
Buoy Heading	17	3		F 3.0	
Wind Direction	20	3		F 2.0	
" Speed	23	2		7 F 3.1	
Sea Temperature	25	21			
at 1M, 45M, 65M, 85M, 105M, 125M, and 250M.					
blanks	46	31		I 4	
Sequence Number	77	4			

Unique No.: 195888

Date of Entry: 01/04/91

DATA ENTRY INFORMATION SYSTEM
(DATASET INVENTORY - DINDB)

Accession No.: 7500530 Reference No.: L01166
Former Accession No.: Former Reference No.: (Resub ONLY)

Media-In (DINDB): 09 - Digital Magnetic Tape
Exchange Format: E134 - Moored Buoy Data
Processing Format: L124 - Level 1, No Active QA Processing

* Note * If data is F022, create an additional record for C022.

Country/Institute Code: 31R9 Country/Platform Code: 3119
Platform Type (DINDB): 03 - Buoy Orig. Cruise ID: 16-59
Cruise Start Date: 05/01/64 Project Code: 0078
Cruise End Date: 09/01/73 Data Use Code (DUC): 3

Number of Stations: 23 Number of Records: 145,900

 If stations/records not appropriate then:

 Number: Units:

Ocean Area:

 Code 1: 57 Meaning: North Pacific Ocean
 Code 2: Meaning:
 Code 3: Meaning:

DINDB Transaction Date:

ACCESSION NO. 7500530

FILETYPE L124

TRACK NO. L01166

PROJECT IDENTIFICATION

Bumble Bee Buoy Data 1964-1973

STEP	DATE	INIT.	TAPE OR DISK DSN	NO. FILES	LRECL	BLK SIZE	NO. RECORDS
ORIG. TAPE	01/08/91	MEC	D000946-A01339	42	80	4000	145,900
DUPLICATE TAPE			W11962				
REFORMATTED TAPE							
REFORMATTED DISK							
FIRST MULCHEK							
FINAL MULCHEK							
MPD75 OR F022							
DATA SET FINALIZED							

ERRORS REPORTED TO PRINCIPAL INVESTIGATOR:

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

COMMENTS (TRACKS DELETED, FIELDS DELETED, ETC.)

TAPE LABEL NODC-1
DENSITY HY (200 f.p.) AB
CODE BCD (CARD IMAGE RECORDS) Frank

ALL FILES ARE CORRECTED HOURLY DATA.

FIRST 9 FILES HAVE SAME FORMAT (SEE FORMAT PAGE 1)

FILE # 10 FORMAT (SEE FORMAT PAGE 2)

GAPS IN DATA ARE MARKED BY 1 ALL-9'S

EOF ARE MARKED BY 2 ALL-9'S CARRIED BEFORE THE EOF MARK.

MISSING DATA ARE BLANK FIELDS ON CARD

NUMBER OF FILES PER BUOY:

BUOY # 38:	2
BUOY # 39:	1
BUOY # 40:	2
BUOY # 42:	2
BUOY # 45:	2
BUOY # 46:	1
	<hr/>
	16 Files

LOCATION OF BUOYS:

BUOY # 38: $42^{\circ}00.0'N$ - $164^{\circ}00.1'W$

BUOY # 39: $42^{\circ}55.7'N$ - $158^{\circ}12.0'W$

BUOY # 40: $42^{\circ}27.7'N$ - $158^{\circ}02.0'W$

BUOY # 42: $43^{\circ}35.6'N$ - $157^{\circ}48.6'W$

BUOY # 45: $41^{\circ}00.0'N$ - $148^{\circ}02.0'W$

BUOY # 46: $43^{\circ}02.0'N$ - $157^{\circ}17.6'W$

SIO
ANTHONY M.
TUBBS

MULTAP 1

File #1 3952 Records Buoy # 38 Cruise 1-3
 Time Period: (1300) 9 Oct 1968 to (0700) 23 Mar 1969
 Year Day: 283 to 082
 Year Week: 41 to 13
 Caps in Data: None

File #2 2544 Records Buoy # 38 Cruise 4-5
 Time Period: (1900) 2 June 1969 to (2300) 4 Dec 1969
 Year Day: 153 to 238
 Year Week: 23 to 49
 Caps in Data: Day 192 (2300) to Day 197 (0900)
 and Day 200 (0400) to Day 275 (0300)

File #3 1309 Records Buoy # 39 Cruise 1
 Time Period: (2400) 11 Oct 1968 to (1600) 6 Dec 1968
 Year Day: 285 to 341
 Year Week: 41 to 49
 Caps in Data: None

File #4 2207 Records Buoy # 40 Cruise 1-3
 Time Period: (0500) 22 Sept 1968 to (2300) 1 Jan 1969
 Year Day: 266 to 001
 Year Week: 39 to 1
 Caps in Data: Day 283 (0800) to Day 288
 and Day 340 (1400) to Day 345 (2100)

MOLTANI (cont.)

File #5 1445 Records Buoy # 40 Cruise 4-5
 Time Period: (0100) 2 May 1969 to (1900) 22 Nov 1969
 Year Day: 122 to 324
 Year Week: 18 to 48
 Gaps in Data: Day 128(0800) to Day 273(

File #6 4639 Records Buoy # 42 Cruise 1-3
 Time Period: (0600) 20 Sept 1968 to (0000) 1 Apr 1969
 Year Day: 264 to 691
 Year Week: 38 to 14
 Gaps in Data: None

File #7 2411 Records Buoy # 42 Cruise 4
 Time Period: (2000) 3 June 1969 to (0400) 12 Sept 1969
 Year Day: 154 to 255-
 Year Week: 23 to 37
 Gaps in Data: None

MULTAPZ

File #1

3294 Records Buoy # 45 Cruise 1-3
 Time Period (0200) 20 Oct 1968 to (0500) 6 Mar 1969
 Year Day: 294 to 065
 Year Week: 43 to 10
 Gaps in Data: None

File #2

7399 Records Buoy # 45 Cruise 4-6
 Time Period: (2000) June 10, 1969 to (0200) Apr 15, 1970
 Year Day: 161 to 105
 Year Week: 24 to 14
 Gaps in Data: Day 263 (1600) to Day 263 (2000)

File #3

1710 Records Buoy # 45 Cruise 4-5
 Time Period (0400) May 29, 1969 to (1900) Nov 21, 1969
 Year Day: 146 to 325
 Year Week: 22 to 47
 Gaps in Data: Day 161 (1000) to Day 269 (2400)

PARAMETERS	I.D.	STA. NO.	YR. NO.	YR. DAY	TIME	SEA										AIR TEMP.	COMPASS HEADING	
						1M	5M	10M	30M	50M	75M	100M	150M	300M	TEMP.			
UNITS						°C	°C	.	.	.	.	.	.	.	.	.	°C	DEG.
CARD COL.	1-3	4-5	6-7	8-10	11-14	15-17	18-20	21-23	24-26	27-29	30-32	33-35	36-38	39-41	42-44	45-47		
EXAMPLE	SID	40	68	265	1712	168	166	166	163	106	^95	^90	^90	^76	160	120		
READ FORMAT	(3X, I2, I2, I3, I4,					F3.1, F3.1, F3.1,	F3.1, F3.1, F3.1,	F3.1, F3.1, F3.1,	F3.1, F3.1, F3.1,	F3.1, F3.1, F3.1,	F3.1, F3.1, F3.1,	F3.1, F3.1, F3.1,	F3.1, F3.1, F3.1,	F3.1, F3.1, F3.1,	F3.1, F3.1, F3.1,	F3.0, 120°		
COMMENTS						16.8%					9.5°C					16.0°C	TRUE NORTH	

12

17

PARAMETERS	WIND DIR.	WIND SPEED	WIND M/SEC	BAR. PRESSURE	150M DEPTH PRESSURE	300M DEPTH PRESSURE	MOORING LINE TENSION	SOLAR RADIATION	WIND TRANSPORT
UNITS									
CARD COL.	48-50	51-52	53-56	57-59	60-62	63-66	67-70	71-74	
EXAMPLE	150	11	1005	146	306	204	1173	^778	
READ FORMAT	F3.0, 150°	F2.0, 150°	F4.0, 150°	F3.0, 150°	F3.0, 150°	F4.0, 150°	F4.1, 150°	F4.0, 150°	F4.0, 150°
COMMENTS								117.3 GM-CAL	778 KM.

1. DIRECTION BOW OF BUOY IS HEADING.
2. DIRECTION FROM WHICH WIND IS BLOWING.
3. INTEGRATED GM-CAL / CM², 1 HOUR ACCUMULATIONS

PARAMETERS	I.D.	STA. NO.	YR. NO.	YR. DAY	TIME	SEA						AIR TEMP.	COMPASS HEADING			
						1M	5M	10M	30M	50M	75M			100M	150M	300M
UNITS						°C	°C	.	.	.	.	.	.	°C	DEG.	
CARD COL.	1-3	4-5	6-7	8-10	11-14	15-17	18-20	21-23	24-26	27-29	30-32	33-35	36-38	39-41	42-44	45-47
EXAMPLE	S10	40	68	265	1712	168	166	166	163	106	^95	^90	^90	^76	160	120
READ FORMAT	(3X, I2, I2, I3, I4, F3.1, F3.1, F3.1, F3.1, F3.1, F3.1, F3.1, F3.1, F3.1, F3.1, F3.0, 120° TRUE NORTH)															
COMMENTS	16.8%															

PARAMETERS	UNITS	CARD COL.	EXAMPLE	READ FORMAT	COMMENTS	WIND										WIND TRANSPORT
						WIND DIR.	WIND SPEED	BAR. PRESSURE	150M DEPTH PRESSURE	300M DEPTH PRESSURE	DECIBARS	MOORING LINE TENSION	SOLAR RADIATION	WIND TRANSPORT		
UNITS	DEG.	M/SEC	MB.	DECIBARS	DECIBARS	KG.	GM-CAL	KM.								
CARD COL.	48-50	51-52	53-56	57-59	60-62	63-66	67-70	71-74								
EXAMPLE	150	11	1005	146	306	204	1173	^778								
READ FORMAT	F3.0, F2.0, F4.0, F3.0, F3.0, F3.0, F4.0, F4.1, F4.0)															
COMMENTS	150° TRUE NORTH															

1. DIRECTION BOW OF BUOY IS HEADING.
2. DIRECTION FROM WHICH WIND IS BLOWING.

3. I. GRATED GM-CAL / CM², HOURLY CCUM.

4. IN GRATED GM-CAL / CM², HOURLY CCUM.

1M LAG, °C	5M LAG, °C
COL. 75-77	COL. 78-80
F3.1	-3.1

Date: 2/10/75

ID#: 75-0.5.30

Originator's TAPE ASSIGNED NODC #8244

DDF A:4:06 NORPAX DATA DOCUMENTATION FORM

RESPONSIBLE COMPUTER SPECIALIST: BONITA MOIR Institution: 510

Physical Location of Data: NORPAX BLDG.

BRIEF DESCRIPTION OF DATA

(include area and time of coverage, frequency of obs., original source of raw data)

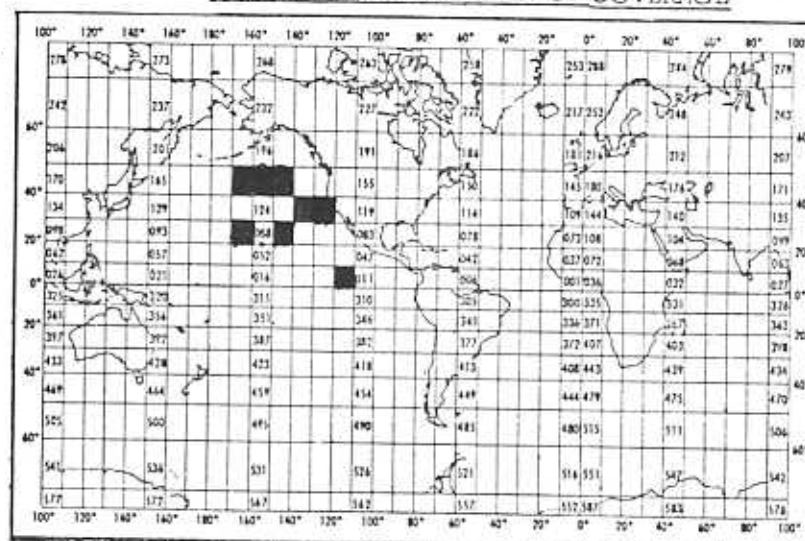
BUMBLE BEE BUOY DATA, CONVERTED TO ENGR. UNITS
INITIAL BUOYS 16, 18, 19, 22, 29, 30 - MAY/1964 - FEB/1967
REGULAR BUOYS 34-59 - FEB/1968 - 1973

1 OBS/HR. EXCEPT A PORTION OF BUOY 40346 (FILES 11 & 19) - EVERY 6 MIN

LABEL FACSIMILE

BUMBLE BEE BUOY
CONVERTED DATA TAPE
(ARCHIVE, WORKING & NODC
COPIES)

SHADE IN GENERAL AREA OF COVERAGE



D File Name _____
I Generated Under _____
S Account Number _____
K _____

C _____ Card - Tray(s)
_____ Card - Box(es)
_____ Card - Drawer(s)

D _____
S _____

Recording Mode: BCD / EBCDIC / BINARY / ASCII / _____

T Number of Tracks (Channels): SEVEN / NINE

A Density: 200 / 556 / 800 / 1600 bpl / _____

P Parity: ODD / EVEN

S Blocked Data: NO / YES 50 LOGICAL RECORDS / PHYSICAL RECORDS

Physical Record Length in Bytes (characters): 4000 where the byte (character) is 8 bits
90 CHAR / LOGICAL RECORD

Labeled Files: NO / YES - describe _____

BRIEF DESCRIPTION OF FILE ORGANIZATION

Number of files 43

Approximate number physical records per file (if known) variable

EOF BETWEEN CRUISES & BETWEEN BUOYS, 12 EOF'S AT
EOT

HOW IS DATA SORTED / SEQUENCED?

BUOY (16-59), BY CRUISE, BY DATE, BY HOUR

IF NORPAX GENERATED DATA: Date created 2/9/75 by program TPTAIN (SPECIAL USER)

FILES 8-28, 30-42
 BOOYS 38-49, 51-59

LOGICAL RECORD FORMAT DESCRIPTION

LD NAME (e.g. temp.)	POSITION from start of record measured in CHAR (e.g. bits, bytes, char., col.)	FIELD LENGTH		ATTRIBUTES (e.g. F4.1)	USE and MEANING Include datum (if used) and other data processing techniques
		No.	Units		
I.D.	1	3	CHAR	A3	"SIO"
STA NO.	4	2	DIGITS	I2	NO. of BOOY
YR.	6	2	"	I2	LAST TWO DIGITS OF YR (2)
DAY	8	3	DAYS	I3	JULIAN DATE 1-365
TIME	11	4	HRS.	I4	GMT TIME OF OBS.
1M SEA	15	3	°C	F3.1	✓ SEA TEMP. (°C) AT 1M. DEP
5M	18	3	"	"	" " " " 5m "
10	21	3	"	"	" " " " 10 "
20	24	3	"	"	" " " " 30 "
30	27	3	"	"	" " " " 50 "
75	30	3	"	"	" " " " 75 "
100	33	3	"	"	" " " " 100 "
150	36	3	"	"	" " " " 150 "
300	39	3	"	"	" " " " 300 "
AIR	42	3	"	"	✓ AIR TEMPERATURE
HDR.	45	3	DEG.	F3.0	COMPASS HDG. FROM TRUE
W. DIR	48	3	"	F3.0	WIND DIRECTION " " "
W. SPD	51	2	M/S.	F2.0	WIND SPD.
BAR. P.	53	4	MB.	F4.0	✓ BAR. PRESSURE
150m. P.	57	3	DB.	F3.0	150 M. DEPTH PRESS. -
300m. P.	60	3	"	F3.0	(FILE 30, BOOYS 51-59 - HOT WIRE HOOPS) ✓ 300M. DEPTH PRESSURE
MOOR. T.	63	4	KG	F4.0	MOOR. LINE TENSION
SOLAR	67	4	Emph.	F4.1	(FILES 35-42, BOOYS 55, 59 - HOT WIRE 65-65) ✓ SOLAR RADIATION 66D
W. TRANS	71	4	Km.	F4.0	WIND TRANSPORT
1m. LAG	75	3	°C	F3.1	1m. LAG
5m. LAG	78	3	"	F3.1	5m. LAG

FILES 1, 2
BOOYS 16, 18, 19, 22

LOGICAL RECORD FORMAT DESCRIPTION

LD NAME (e.g. temp.)	POSITION from start of record measured in CHAR (e.g. bits, bytes, char., col.)	FIELD LENGTH		ATTRIBUTES (e.g. F4.1)	USE and MEANING Include datum (if used) and other data processing techniques
		No.	Units		
I.D.	1	3	CHAR	A3	"SIO"
STA. NO.	4	2	DIGITS	I2	NO. OF BOOY
YR.	6	2	"	I2	LAST 2 DIGITS OF YR (20)
DAY	8	3	DAYS	I3	JULIAN DATE 1-365
TIME	11	4	HRS	I4	GMT TIME OF OBS.
AIR T.	15	2	°F	F2.0	AIR TEMP (°F)
1m SEW.	17	3	°C	F3.1	SEA TEMP (°C) AT 1m. DEPT
10m "	20	3	"	F3.1	" " " " 10" "
30m "	23	3	"	F3.1	30
60m "	26	3	"	F3.1	60
70m "	29	3	"	F3.1	100
100m "	32	3	"	F3.1	150
W. SPD.	35	2	K	F2.0	WIND SPD. (K)
D. DIR.	37	3	DEG	F3.0	WIND DIRECTION (° FROM TRUE)
LOG	40	3	"	F3.0	COMPASS HDG. (° FROM TRUE N)
LINE T.	43	2	KG	F2.0	MOOR. LINE TENSION (KG)
BLANK	45	32	bits	32X	BLANK
I.D.	77	4	DIGITS	I4	ID NO.
		<u>50</u>			

FILES 3,4,5
BOOYS 29,30

LOGICAL RECORD FORMAT DESCRIPTION

LD NAME (e.g. temp.)	POSITION from start of record measured in <u>CHAR</u> (e.g. bits, bytes, char., col.)	FIELD LENGTH		ATTRIBUTES (e.g. F4.1)	USE and MEANING Include datum (if used) and other data processing techniques
		No.	Units		
ID.	1	3	CHAR	A3	"SIO"
STA NO.	4	2	DIGITS	I 2	No. OF BOUY
YR	6	2	"	I 2	LAST 2 DIGITS OF YR @0
DAY	8	3	DAYS	I 3	JULIAN DATE 1-365
TIME	11	4	HRS.	I 4	GRAT TIME OF OBS.
AIR T.	15	2	OF	F2.0	AIR TEMP (°F)
HDDG	17	3	DEG	F3.0	COMPASS HDDG (° FROM TRUE N)
W. DR.	20	3	"	F3.0	WIND DIRECTION (° FROM " "
W. SPD.	23	2	K	F2.0	WIND SPEED (K)
1	25	3	°C	F3.1	SEA TEMP (°C) AT 1m DEPT
45	28	3	"	F3.1	" " " " 45 "
5	31	3	"	F3.1	" " " " 65 "
85	34	3	"	F3.1	" " " " 55 "
105	37	3	"	F3.1	" " " " 105 "
125	40	3	"	F3.1	" " " " 125 "
250	43	3	"	F3.1	" " " " 250 "
BLANK	46	35	8		BLANK
		<u>80</u>			

FILES 6, 7
BOOYS 34, 35

LOGICAL RECORD FORMAT DESCRIPTION

FIELD NAME (e.g. temp.)	POSITION from start of record measured in <u>CHAR</u> (e.g. bits, bytes, char., col.)	FIELD LENGTH		ATTRIBUTES (e.g. F4.1)	USE and MEANING Include datum (if used) and other data processing techniques
		No.	Units		
10.	1	3	CHAR	A3	"SID"
STA	4	2	DIGITS	I 2	NO OF BOOY
YR	6	2	"	I 2	LAST 2 DIGITS OF YR (20)
DAY	8	3	DAY	I 3	JULIAN DATE 1-365
TIME	11	4	HRS	I 4	EXIT TIME OF OBS.
SEA 1m	15	3	"	F3.1	SEA TEMP. AT. 1m. DEPTH
10m	18	3	"	F3.1	" " " 10 "
50	21	3	"	F3.1	" " " 50 "
75	24	3	"	F3.1	" " " 75 "
100	27	3	"	F3.1	" " " 100 "
200	30	3	"	F3.1	" " " 200 "
300	33	3	"	F3.1	" " " 300 "
400	36	3	"	F3.1	" " " 400 "
500	39	3	"	F3.1	" " " 500 "
AIR T.	42	3	"	F3.1	AIR TEMP.
HOG	45	3	DEG.	F3.0	COMPASS HDG. FROM TRUE N.
W. DIR.	48	2	"	F3.0	WIND DIR. FROM TRUE N.
W. SPD.	50	4	m/s	F2.0	WIND SPEED
BAR. P.	54	3	mB	F4.0	BAROMETRIC PRESSURE
DEPTH P.	57	4	"	F3.0	DEPTH PRESSURE
LOAD CELL	61	4	LB	F4.0	LOAD CELL
SOLAR	65	4	gm-cpk	F4.1	SOLAR RADIATION
BLANK	69	12	"		BLANK
		80			

FILE 29
BUOY 50

LOGICAL RECORD FORMAT DESCRIPTION

ELD NAME (e.g. temp.)	POSITION from start of record measured in CHAR (e.g. bits, bytes, char., col.)	FIELD LENGTH		ATTRIBUTES (e.g. F4.1)	USE and MEANING Include datum (if used) and other data processing techniques
		No.	Units		
10	1	3	CHAR	A3	"SID"
STA.	4	2	DIGITS	I2	No OF BUOY
YR.	6	2	"	I2	LAST TWO DIGITS OF YR. (20)
DAY	8	3	DAYS	I3	JULIAN DATE 1-365
TIME	11	4	HRS.	I4	GREAT TIME OF OBS.
1m SEH	15	3	°C	F3.1	SEA TEMP (°C) AT 1m DEPT
2.5 "	18	3	"	F3.1	" " " 2.5 "
5 "	21	3	"	F3.1	" " " 5 "
7.5 "	24	3	"	F3.1	" " " 7.5 "
10 "	27	3	"	F3.1	" " " 10 "
12.5 "	30	3	"	F3.1	" " " 12.5 "
15 "	33	3	"	F3.1	" " " 15 "
"	36	3	"	F3.1	" " " 20 "
25 "	39	3	"	F3.1	" " " 25 "
35 "	42	3	"	F3.1	" " " 35 "
45 "	45	3	"	F3.1	" " " 45 "
60 "	48	3	"	F3.1	" " " 60 "
BLANK	51	30		4	BLANK
		80			

1st card - Temperature
Salinity
Sigma - T - ignore
Oxygen - 0001 -

2nd card - Oxygen ¹⁰⁰⁻ - 0001 -
apparent oxygen Utilization ¹⁰⁰⁻ - 0003 -
Percent oxygen Saturation ¹⁰⁰ 0002 -
Chlorophyll 501-5000 -

3rd card - phosphate - 100-0010 -
Silicate - 100-0030 -
Nitrate - 100-0021 -
Nitrite - 100-0020 -

4th card - Ammonia - 100-0041 -
Nitrate Silicate Ratio ^{ignore} 70
ETS - 501-5007 -
Carbon 14 501-5003 -

5th card - UREA - 100-5009 -
Dissolved organic nitrogen ⁰⁰³⁴ 516-8100 -
Total Particles 100-8600 ✓
Particle Area - 70 ^{ignore}

6th card - Particle Volume - 70 ^{ignore}

SLO Buoy Locations

11 May '64 -

Sept 1973 ✓ SLO Buoy # 16	33° 23' N	128° 38' W
✓ SLO Buoy # 18	32° 10' N	132° 46.8' W
✓ SLO Buoy # 19	30° 51.5' N	128° 37.8' W
✓ SLO Buoy # 22	29° 58.8' N	140° 01.0' W
✓ SLO Buoy # 29	6° 05' N	118° 51' W
✓ SLO Buoy # 30	9° 38' N	119° 00' W
✓ SLO Buoy # 34	36° 39.7' N	122° 07.2' W
✓ SLO Buoy # 35	36° 39.0' N	122° 07.0' W
✓ SLO Buoy # 38	41° 59.5' N	143° 59' W
✓ SLO Buoy # 39	42° 55.5' N	158° 15.0' W
✓ SLO Buoy # 40	42° 28.2' N	158° 01.5' W
✓ SLO Buoy # 42	43° 35.8' N	157° 46.5' W
✓ SLO Buoy # 45	41° 00.0' N	147° 57.8' W

75-0530

Project is 0078. IDOE/NORPAK

Platform - SIO BOY

☑ Category 124

Parameters 0188 - Air Temperature

0180 - Water Temp.

0189 - Wind Direction

0190 - Wind Speed

0191 - Barometric Pressure

0184 - Pressure

0065 - Solar Radiation

Leave observation blank.

Write Tape # 8244 in remarks column.

SLO Buoy Locations

✓ SLO Buoy # 46	43° 01.8' N	157° 17.6' W
✓ SLO Buoy # 48	41° 00.5' N	148° 02' W
✓ SLO Buoy # 49	42° 25.7' N	157° 59.8' W
✓ SLO Buoy # 50	43° 00.4' N	157° 16.2' W
✓ SLO Buoy # 51	29° 59.3' N	165° 01.4' W
✓ SLO Buoy # 53	42° 00.6' N	164° 03.1' W
✓ SLO Buoy # 55	41° 59' N	164° 04' W
✓ SLO Buoy # 56	42° 23' N	157° 59' W
✓ SLO Buoy # 58	33° 25.3' N	122° 37.7' W
✓ SLO Buoy # 59	33° 03.6' N	121° 45.7' W

NODC ACC # 75-0530

IDOE / NORPAX

UNIVERSITY OF CALIFORNIA, SAN DIEGO

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SANTA BARBARA · SANTA CRUZ

SCRIPPS INSTITUTION OF OCEANOGRAPHY

12 February 1975

POST OFFICE BOX 1529
LA JOLLA, CALIFORNIA 92037

Mr. Nelson Ross
NODC Liaison Officer
National Marine Fisheries Service
P.O. Box 271
La Jolla, California 92037

Dear Nelson:

Enclosed is a tape of all data that we processed from our bumblebee buoy platforms. These data are contained on one 9 track, 1600 bpi magnetic tape. Included with the tape is a listing of the first record of each file and a complete set of documentation which provides detailed information as to the technical characteristics of the tape as well as logical record format. With this documentation and the copy of the tape, it should be possible for any reasonable computer programmer to read and understand these data.

I trust that you will send this on to the proper office at NODC for permanent retention as the national record of this scientific data from this series of platforms. If the people in Washington have any questions concerning the technical nature of this data set, please let them call me directly at 714/452-4495.

Thank you for your help on this matter.

Sincerely yours,

A handwritten signature in cursive script that reads "Richard T. Wert".

Richard T. Wert
NORPAX Data Manager

cc: Dr. James J. O'Brien
Code 481
Office of Naval Research, Arlington, Virginia 22217

cc: Dr. Curtis A. Collins
IDOE - NSF, Washington DC 20550