

DDF A:4:11

DATA DOCUMENTATION FORM

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

TR0005

L124

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

I. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED University of California Scripps Institution of Oceanography La Jolla, California 92037														
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED North Pacific Buoy Program		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT 38, 39, 40, 42, 45, 46												
4. PLATFORM NAME(S) SIO Buoy "Bumblebee"	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Buoy	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th colspan="2" style="padding: 2px;">6. PLATFORM AND OPERATOR NATIONALITY (IES)</th> <th colspan="2" style="padding: 2px;">7. DATES</th> </tr> <tr> <th style="padding: 2px;">PLATFORM</th> <th style="padding: 2px;">OPERATOR</th> <th style="padding: 2px;">FROM: MO/DAY/YR</th> <th style="padding: 2px;">TO: MO/DAY/YR</th> </tr> <tr> <td style="padding: 2px; text-align: center;">U. S.</td> <td style="padding: 2px; text-align: center;">U. S.</td> <td style="padding: 2px; text-align: center;">Sept. '68</td> <td style="padding: 2px; text-align: center;">Dec. '69</td> </tr> </table>	6. PLATFORM AND OPERATOR NATIONALITY (IES)		7. DATES		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR	U. S.	U. S.	Sept. '68	Dec. '69
6. PLATFORM AND OPERATOR NATIONALITY (IES)		7. DATES												
PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR											
U. S.	U. S.	Sept. '68	Dec. '69											
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) ? (i.e., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE ?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		(Continuation of the map area)												
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

Include enough information concerning manner of observation, instrumentation, analysis, and data reduction routines to make them understandable to future users. Furnish the minimum documentation considered relevant to each data type. Documentation will be retained as a permanent part of the data and will be available to future users. Equivalent information already available may be substituted for this section of the form (i.e., publications, reports, and manuscripts describing observational and analytical methods). If you do not provide equivalent information by attachment, please complete the scientific content section in a manner similar to the one shown in the following example

EXAMPLE (HYPOTHETICAL INFORMATION)

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
Salinity	‰	Nansen bottles	Inductive salinometer (Hytech model 5510)	N/A (Not Applicable)
		STD Bislett-Berman Model 9006	N/A	Values averaged over 5 meter intervals
Water color	Forel scale	Visual comparison with Forel bottles	N/A	N/A
Sediment size	φ units and percent by weight	Ewing corer	Standard sieves. Carbonate fraction removed by acid Treatment	Same as "Sedimentary Rock Manual," Folk '65

(SPACE IS PROVIDED ON THE FOLLOWING
TWO PAGES FOR THIS INFORMATION)

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	Degrees Centigrade			
Wind Direction	360 Degrees	Electrical indicating volt meter, sensor vane driven potentiometer, Belfort Instruments Co. Model C.		Apparent wind directions are combined in computer process, with magnetic buoy headings and magnetic deviation to produce true wind direction.
Wind Speed	Meters/Sec	Belfort Model C Cup anemometer		Knots converted to meters/sec in computer process.
Barometric pressure	Millibars	Sostman Model 2014 barometric transducer		Readout on analog electrical indicator.
150,300 meter pressure	Decibars			
Mooring Line Tension	Kilograms	Specially constructed Braincon Silicon Strain guage load cell.		Mooring Line Tension, in milliamps of electric current, converted to kilograms by computer process.
Solar Radiation (1 Hour accumulation)	Gm-cal	HyCal Engineering 180° pyrhelometer and Accumay electrical integrator. (continued)		

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
Wind Transport (1 Hour accumulation)	Kilometers	<p style="text-align: center;">(continued)</p> Electronic counter of wind speed tachometer generator.		Number of kilometers of wind which has passed buoy for one hour; a
1 Meter, 5 Meter Temperature Lag	Degrees Centigrade	Yellow Springs Instrument Co. #44040 thermistor installed in block of bee's wax to yield time constant of approximately two hours. -----		by computer process.

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

C. DATA FORMAT

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

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

"Master" record contains an "S" in byte 1.
 "Nine" (9) record contains a 9 in byte 1.
 The nine record contains 9's in all 80 bytes.
 One of these record types (9) is inserted in the file to indicate a gap in the data. Two consecutive (9) records are inserted before end of originators file.

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

The file is organized by buoy number.
 There were six buoy #'s - 38, 39, 40, 42, 45, 46.
 There are 2, 1, 2, 2, 2, and 1 file(s) respectively per buoy number.
 A small percentage of the data have transcription errors such that some records are 81 characters long. These records will be omitted on any output other than copying tape.

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

4. RESPONSIBLE COMPUTER SPECIALIST:

NAME AND PHONE NUMBER _____
 ADDRESS _____

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

<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</p> <p><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><input type="checkbox"/> OCTAL 17</p> <p><input type="checkbox"/> HEX 7F</p> <p>_____</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>SIDBUOY DATA - Anthony M. Tubbs NODC Reel No.1337 Creation date: 10-22-70</p> <p style="text-align: center;">1 of 4</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 80 bytes (blocking factor 1)</p> <p>13. LENGTH OF BYTES IN BITS 8</p>

RECORD FORMAT DESCRIPTION

RECORD NAME Master

14. FIELD NAME	15. POSITION FROM POINT MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Originators Identification	1	3	Byte	A3	
Originators Station Number*	4	2	"	I2	
Year	6	2	"	I2	Last two digits of the year, e.g., 69 equals 1969
Julian date (1-365)	8	3	"	I3	Month and day from 1 -> 365
Time Hour-minutes	11	4	"	2I2	Hour and minutes to 2400
Temperature at depths of 1M	15	3	"	F3.1	
5M	18	3	"	F3.1	
10M	21	3	"	F3.1	
30M	24	3	"	F3.1	
50M	27	3	"	F3.1	
75M	30	3	"	F3.1	
100M	33	3	"	F3.1	
150M	36	3	"	F3.1	
300M	39	3	"	F3.1	
Air Temperature	42	3	"	F3.1	
Compass Heading	45	3	"	F3.0	
Wind Direction	48	3	"	F3.0	
Wind Speed	51	2	"	F2.0	
Barometric pressure	53	4	"	F4.0	
150M depth, pressure	57	3	"	F3.0	
300M depth, pressure	60	3	"	F3.0	
Mooring Line Tension	63	4	"	F4.0	
Solar Radiation	67	4	"	F4.1	
Wind Transport	71	3	"	F4.0	

RECORD FORMAT DESCRIPTION

RECORD NAME Master

14. FIELD NAME	15. POSITION FROM MEASURED IN bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
1 Meter Temperature Lag	75	3	Byte	F3.1	
5 Meter Temperature Lag	78	3	"	F3.1	
*Station Number (Buoy Number)		<u>Location</u>			
	<u>Latitude</u>			<u>Longitude</u>	
#38	42°00.0'N			164°00.1'W	
#39	42°55.7'N			158°12.0'W	
#40	42°27.7'N			158°02.0'W	
#42	43°35.6'N			157°48.6'W	
#45	41°00.0'N			148°02.0'W	
#46	43°02.0'N			157°17.6'W	

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

RECORD FORMAT DESCRIPTION

RECORD NAME _____

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN _____ (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		

C. DATA FORMAT

This information is requested only for data transmitted on punched cards or magnetic tape. Have one of your data processing specialists furnish answers either on the form or by attaching equivalent readily available documentation. Identify the nature and meaning of all entries and explain any codes used.

1. List the record types contained in your file transmittal (e.g., tape label record, master, detail, standard depth, etc.).
2. Describe briefly how your file is organized.
- 3-13. Self-explanatory.
14. Enter the field name as appropriate (e.g., header information, temperature, depth, salinity).
15. Enter starting position of the field.
16. Enter field length in number columns and unit of measurement (e.g., bit, byte, character, word) in unit column.
17. Enter attributes as expressed in the programming language specified in item 3 (e.g., "F 4.1," "BINARY FIXED (5.1)").
18. Describe field. If sort field, enter "SORT 1" for first, "SORT 2" for second, etc. If field is repeated, state number of times it is repeated.

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SCRIPPS INSTITUTION OF OCEANOGRAPHY

POST OFFICE BOX 109
LA JOLLA, CALIFORNIA 92037

June 30, 1972

Mr. Robert P. Stein
Oceanographer
National Oceanographic Data Center
Rockville, Maryland 20852

Dear Mr. Stein:

The three tapes here submitted contain the latest processed data from the deep-moored instrument stations maintained by Scripps Institution of Oceanography as part of the North Pacific Experiment (NORPAX).

The tapes were generated on a CDC 3600 computer and all significant attributes have been specified on the data documentation forms for each tape. If you have any trouble reading these tapes or any questions whatsoever, please feel free to call me. I'm going on vacation the first two weeks in July, but expect to be back in the office by July 17.

Sincerely yours,

A handwritten signature in cursive script that reads "Anthony M. Tubbs".

Anthony M. Tubbs
Senior Programmer
North Pacific Experiment
(714) 454-2000, 2291

AMT:db
Encl.



U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA SERVICE
NATIONAL OCEANOGRAPHIC DATA CENTER
ROCKVILLE, MARYLAND 20852

Date: February 3, 1972

Reply to
Attn of: D71x2

Subject: Bumblebee buoy data tapes; return of

To: Nelson Ross

In reference to our phonecon of February 2, 1972, I am sending you, under separate cover, the two Bumblebee buoy data tapes. We tried to read the first tape (multitape 1) and had 19 read errors. After reading slightly over 10,000 records the tape drive on our IBM S/360 "ran away" (computer jargon) and we could not copy the remaining data.

I am convinced that Mr. Tubbs must have another copy of these data. Hopefully, he will allow us to copy these data at Scripps on tape reels that you hold. There should not be any software problem on his part and the CPU time for copying these data should not exceed 15 minutes.

I am enclosing the letter Mr. Tubbs sent with these data. I do appreciate your efforts!

ROBERT P. STEIN
Oceanographer

1 enclosure
1 enclosure (SC)



SCRIPPS INSTITUTION OF OCEANOGRAPHY

POST OFFICE BOX 109
LA JOLLA, CALIFORNIA 92037

January 24, 1972

Mr. Robert P. Stein
Oceanographer
National Oceanographic Data Center
Rockville, Maryland 20852

Dear Mr. Stein:

I am sending new copies of the data for buoy stations 38, 39, 40, 42, 45 and 46, as requested by Nelson Ross.

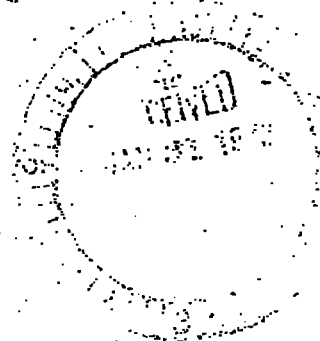
Note that the second file for buoy #45 is now larger than the original data we sent (7399 vs. 4342 records). This is because additional data have been processed for this location. The only difference is that buoy #45 was replaced by a new buoy (#48) that records the same parameters in the same format at #45. Therefore, the buoy STA. NO. (col. 4-5) on the data records will be "48" instead of "45" for the 4341st record and on.

Sincerely yours,

Anthony M. Tubbs
Senior Programmer
North Pacific Study

AMT/gac

Received 1-31-72



NODC-1 TAPE (CONT'D)FILE #9 4/34/3 RECORDS BUOY #45 CRUISE 4+5TIME PERIOD: (2000) 10 JUNE 1969 TO (1700) 2 DEC 1969YEAR DAY: 161 TO 342YEAR WEEK: 24 TO 50GAPS IN DATA: DAY 263(1600) TO DAY 263(2000)FILE #10 1710 RECORDS BUOY #46 CRUISE 4+5TIME PERIOD: (0400) 26 MAY 1969 TO (1900) 21 NOV 1969YEAR DAY: 146 TO 325YEAR WEEK: 22 TO 47GAPS IN DATA: DAY 161(1500) TO DAY 269(2400)

TAPE LABEL WODC-1DENSITY HY (800 s.p.i.)~~AB~~CODE BCD (CARD IMAGE RECORDS)~~7 track~~

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 CARD

EOF ARE MARKED BY 2 ALL-9'S CARDS 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

LOCATION OF BUOYS:

BUOY # 38: 42° 00.0' N - 164° 00.1' W

BUOY # 39: 43° 55.7' N - 158° 12.0' W

BUOY # 40: 42° 27.7' N - 152° 02.0' W

BUOY # 42: 42° 35.6' N - 157° 42.6' W

BUOY # 45: 41° 00.0' N - 148° 02.0' W

BUOY # 46: 43° 02.0' N - 157° 17.6' W

SIO
ANTHONY M.
TUBBS

NODC-1 TAPE (CONT'D)FILE # 1 3953 RECORDS BUOY # 38 CRUISE 1-3TIME PERIOD: (1800) 9 OCT 1968 TO (0700) 23 MAR 1969YEAR DAY: 283 TO 082YEAR WEEK: 41 TO 13GAPS IN DATA: NONEFILE # 2 2544 RECORDS BUOY # 38 CRUISE 4+5TIME PERIOD: (1400) 2 JUNE 1969 TO (2300) 4 DEC 1969YEAR DAY: 153 TO 338YEAR WEEK: 23 TO 49GAPS IN DATA: DAY 192 (2300) TO DAY 197 (0900)
AND DAY 200 (0400) TO DAY 275 (0300)FILE # 3 1339 RECORDS BUOY # 39 CRUISE 1TIME PERIOD: (2400) 11 OCT 1968 TO (1600) 6 DEC 1968YEAR DAY: 285 TO 341YEAR WEEK: 41 TO 49GAPS IN DATA: NONEFILE # 4 2207 RECORDS BUOY # 40 CRUISE 1-3TIME PERIOD: (0500) 23 SEPT 1968 TO (2300) 15 U 1969YEAR DAY: 266 TO 001YEAR WEEK: 39 TO 1GAPS IN DATA: DAY 283 (0300) TO DAY 277 (0500)
AND DAY 340 (1400) TO DAY 345 (2100)

NODC-1 TAPE (CONT 2)FILE #5 1445 RECORDS BUOY #40 CRUISE 4+5TIME PERIOD: (0100) 2 MAY 1969 TO (1900) 22 NOV 1969YEAR DAY: 123 TO 326YEAR WEEK: 18 TO 48GAPS IN DATA: DAY 128 (0800) TO DAY 273 (0200)FILE #6 4639 RECORDS BUOY #42 CRUISE 1-3TIME PERIOD: (0600) 20 SEPT 1968 TO (1000) 1 APRIL 1969YEAR DAY: 264 TO 091YEAR WEEK: 38 TO 14GAPS IN DATA: NONEFILE #7 2411 RECORDS BUOY #42 CRUISE 4TIME PERIOD: (2000) 3 JUNE 1969 TO (0400) 12 SEPT 19-YEAR DAY: 154 TO 255YEAR WEEK: 23 TO 37GAPS IN DATA: NONEFILE #8 3294 RECORDS BUOY #45 CRUISE 1-3TIME PERIOD: (0200) 20 OCT 1968 TO (0500) 6 MARCH 19-YEAR DAY: 294 TO 065YEAR WEEK: 43 TO 10GAPS IN DATA: NONE

Password:

accNo	fleA	refNo	proj	inst	ship	startDate	cruise	catId
7001003	L124	TR0005	9999	3101	3119	1968/10/01	45	13914
7001003	L124	TR0005	9999	3101	3119	1968/09/01	42	13915
7001003	L124	TR0005	9999	3101	3119	1969/05/01	46	13916
7001003	L124	TR0005	9999	3101	3119	1968/10/01	38	13917
7001003	L124	TR0005	9999	3101	3119	1968/09/01	40	13918
7001003	L124	TR0005	9999	3101	3119	1968/10/01	39	13919

(6 rows affected)

Password:

accNo	fileA	refNo	ship	staCnt	recCnt	startDate	endDate
7001003	L124	TR0005	3119	10684		0 Oct 1 1968	Dec 1 1969
7001003	L124	TR0005	3119	7046		0 Sep 1 1968	Sep 1 1969
7001003	L124	TR0005	3119	1707		0 May 1 1969	Nov 1 1969
7001003	L124	TR0005	3119	6468		0 Oct 1 1968	Dec 1 1969
7001003	L124	TR0005	3119	3643		0 Sep 1 1968	Nov 1 1969
7001003	L124	TR0005	3119	1306		0 Oct 1 1968	Dec 1 1968

(6 rows affected)