

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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 Washington Department of Oceanography Seattle, Washington 98105			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT. BB218 TR1363	
4. PLATFORM NAME(S) Brown Bear	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S. U.S.	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 02/21/59 02/21/59
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		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
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)			

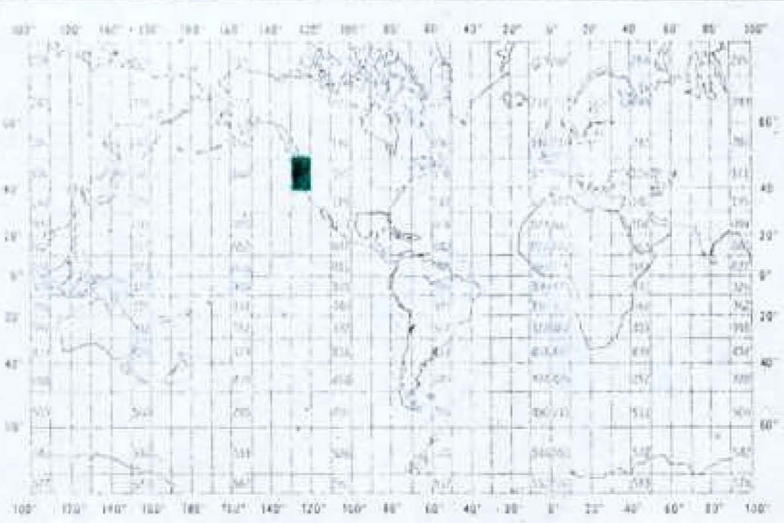
DATA DOCUMENTATION FORM

NOAA FORM 24-13
4-72)FORM APPROVED
O.M.B. No. 41-R2651

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University of Washington Department of Oceanography Seattle, Washington 98105			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Technical Report No. 113 Technical Report No. 114		BB219 TR1364	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BOAT, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
Brown Bear	Ship	U.S. U.S.	FROM: MO/DAY/YR TO: MO/DAY/YR 03/02/59 03/02/59
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		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNPI)? (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"/> (DATA PROPRIETARY RELEASED)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM 1)			
Eugene E. Collias Clifford A Barnes			

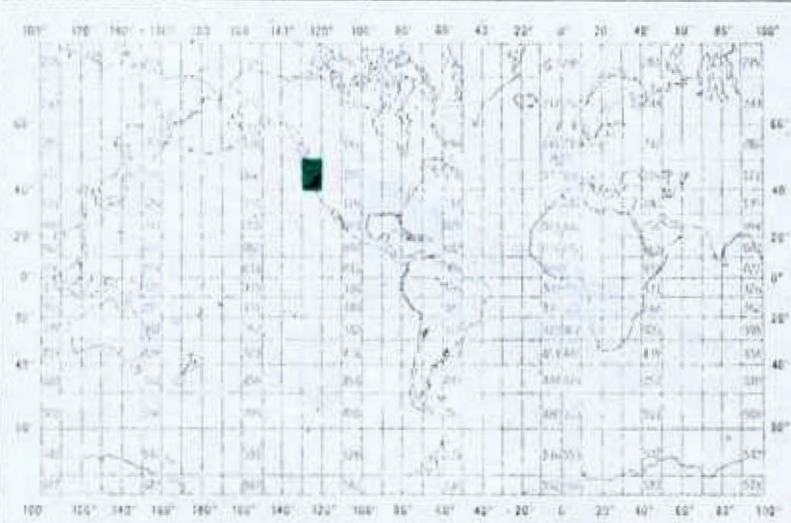
DATA DOCUMENTATION FORM

NOAA FORM 24-13
4-72U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORD SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT BB221 TR1365	
4. PLATFORM NAME(S) Brown Bear	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S. U.S.	
		7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 03/03/59 03/05/59	
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		9. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNPI)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTER HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PARTIALLY RELEASED			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER AND ADDRESS IF OTHER THAN IN ITEM 1 Eugene E. Collias Clifford A. Barnes			

DATA DOCUMENTATION FORM

DAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2051

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University of Washington
Department of Oceanography
Seattle, Washington 98105

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

B6222

TR1366

4. PLATFORM NAME(S)

5. PLATFORM TYPE(S)
(E.G., SHIP, BUOY, ETC.)6. PLATFORM AND OPERATOR
NATIONALITY(IES)

7. DATES

Brown Bear

Ship

U.S.

U.S.

03/19/59

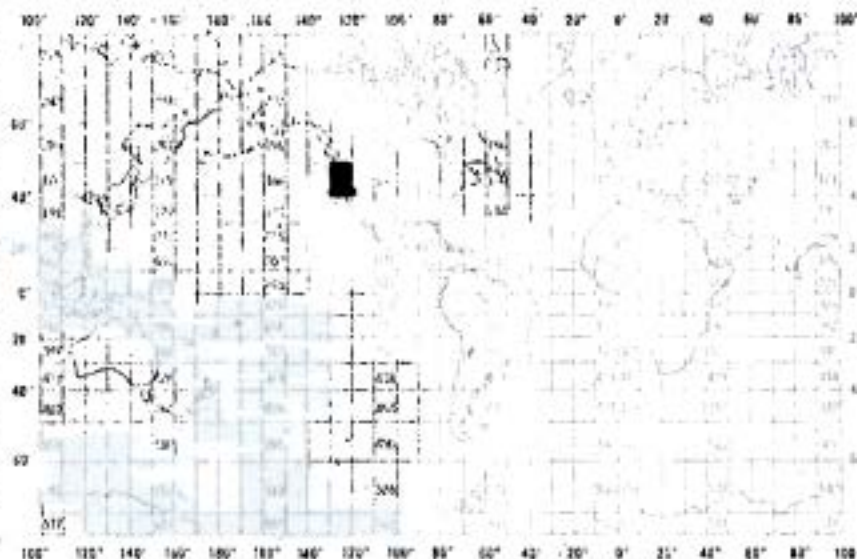
8. ARE DATA PROPRIETARY?

☒ NO ☐ YESIF YES, WHEN CAN THEY BE RELEASED
FOR GENERAL USE? YEAR MONTH9. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA
CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

GENERAL AREA

9. ARE DATA DECLARED NATIONAL
PROGRAM (DNPI)?(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 TELE-
PHONE NUMBER AND ADDRESS IF OTHER
THAN IN ITEM-1)

Eugene E. Collias
Clifford A. Barnes



DATA DOCUMENTATION FORM

OAA FORM 24-13
4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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University of Washington
Department of Oceanography
Seattle, Washington 98105

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

Technical Report No. 113
Technical Report No. 114

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

BB223

T01367

4. PLATFORM NAME(S)

Brown Bear

5. PLATFORM TYPE(S)
(E.G., SHIP, BUOY, ETC.)

Ship

6. PLATFORM AND OPERATOR NATIONALITY(IES)

U.S.

U.S.

7. DATES

MO/DAY/YR TO MO/DAY/YR

03/24/59 03/27/59

8. ARE DATA PROPRIETARY?

☒ NO ☐ YESIF YES, WHEN CAN THEY BE RELEASED
FOR GENERAL USE? YEAR MONTH

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

GENERAL AREA

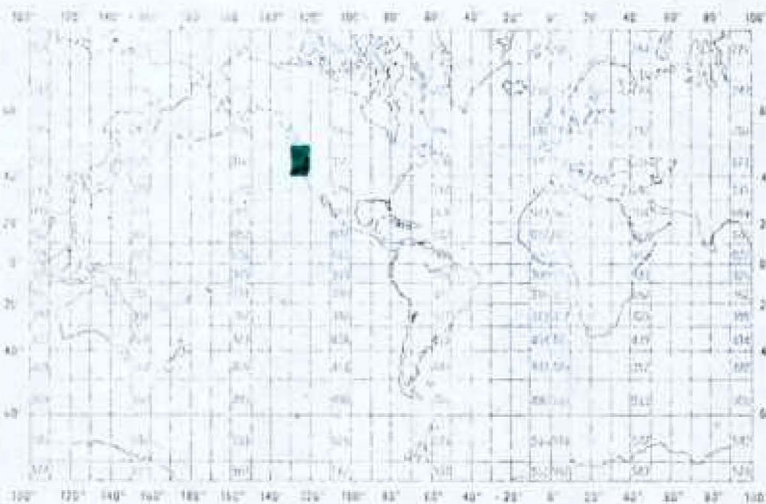
9. ARE DATA DECLARED NATIONAL PROGRAM (NP)?

I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?

☒ NO ☐ YES ☐ (PARTIALLY EXCLUDED)

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

Eugene E. Collias
Clifford A. Barnes



DATA DOCUMENTATION FORM

DATA FORM 24-13
4-721U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
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ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R205

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:

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University of Washington
Department of Oceanography
Seattle, Washington 98105

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

Technical Report No. 113
Technical Report No. 114

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

BB224

TR1368

4. PLATFORM NAME(S)

Brown Bear

5. PLATFORM TYPE(S)
(E.G., SHIP, BUOY, ETC.)

Ship

6. PLATFORM AND OPERATOR NATIONALITY(IES)

U.S.

U.S.

7. DATES

FROM: MO/DAY/YR TO: MO/DAY/YR

03/30/59

04/01/59

8. ARE DATA PROPRIETARY?

☒ NO ☐ YES
IF YES, WHEN CAN THEY BE RELEASED
FOR GENERAL USE? YEAR MONTH11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA
CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

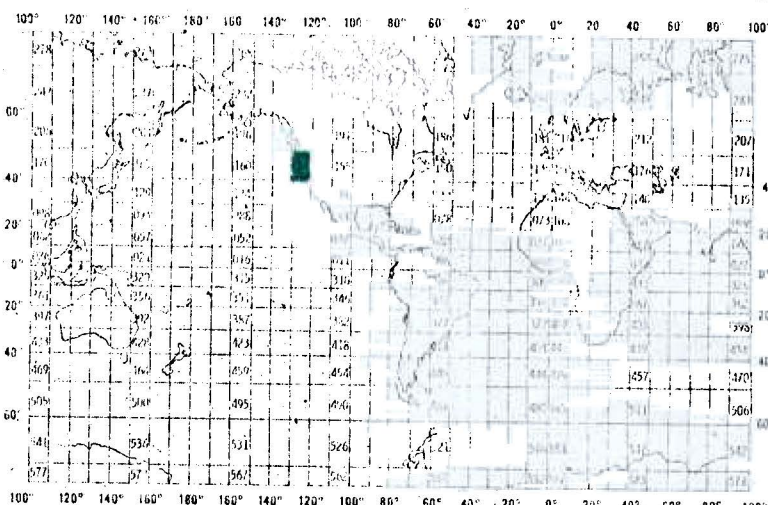
GENERAL AREA

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 TELE-
PHONE NUMBER (AND ADDRESS IF OTHER
THAN IN ITEM-1)

Eugene E. Collias
Clifford A Barnes



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University of Washington
 Department of Oceanography
 Seattle, Washington 98105

Technical Report No 113
 Technical Report No 114

BB234

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DATA

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 Clifford A Bar

DATA DOCUMENTATION FORM

NOAA FORM 24-13
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NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
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ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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Seattle, Washington 98105

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Technical Report No. 113
Technical Report No. 114

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

BB242

TR1371

4. PLATFORM NAME(S)

5. PLATFORM TYPE(S)
(E.G., SHIP, BOAT, ETC.)6. PLATFORM AND OPERATOR
NATIONALITY(IES)

7. DATES

Brown Bear

Ship

U.S.

U.S.

10/26/59 10/29/59

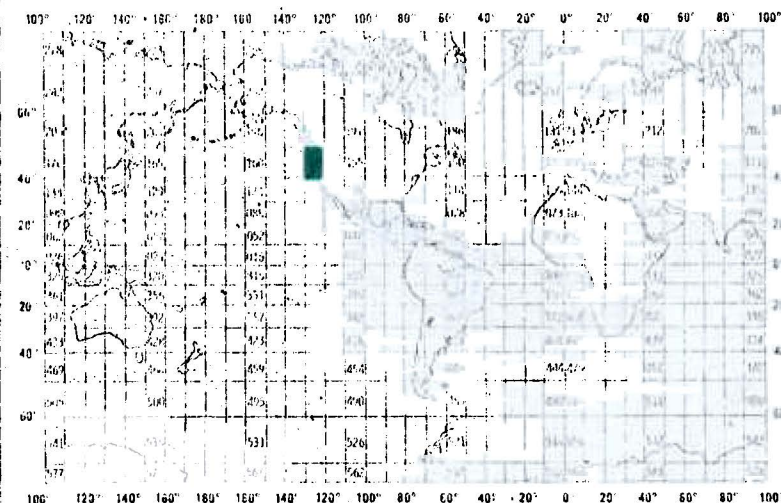
8. ARE DATA PROPRIETARY?

☒ NO ☐ YESIF YES, WHEN CAN THEY BE RELEASED
FOR GENERAL USE? YEAR MONTH9. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA
CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

GENERAL AREA

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
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NUMBER (AND ADDRESS IF OTHER
THAN IN ITEM-1)

Eugene E. Collias
Clifford A Barnes



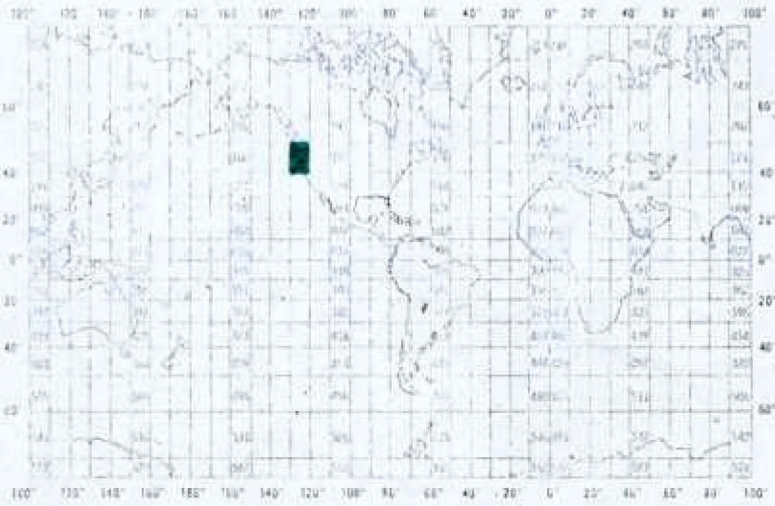
DATA DOCUMENTATION FORM

NOAA FORM 24-13
4-721U.S. DEPARTMENT OF COMMERCE
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NATIONAL OCEANOGRAPHIC DATA CENTER
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ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R265

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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>Technical Report No. 113 Technical Report No. 114</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>B8243 TR1372</i>	
4. PLATFORM NAME(S) <i>Brown Bear</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <i>U.S.</i>	7. DATES FROM: <i>MO/DAY/YR</i> TO: <i>MO/DAY/YR</i> <i>11/02/59 11/04/59</i>
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? (CAN MONTH)		9. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNPT)? 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)		10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Eugene E. Collias Clifford A. Barnes</i>	

DATA DOCUMENTATION FORM

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4. PLATFORM NAME(S) Brown Bear	5. PLATFORM TYPE(S) (E.G., SHIP, BOAT, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S. U.S.	
		7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 11/30/59 12/02/59	
8. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? (DATE) (ADDRESS)		9. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
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)			
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NOAA FORM 24-13
4-72

U.S. DEPARTMENT OF COMMERCE
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NATIONAL OCEANOGRAPHIC DATA CENTER
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4. PLATFORM NAME(S) <i>Brown Bear</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BOAT, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <i>U.S. U.S.</i>	7. DATES FROM: <i>12/05/59</i> TO: <i>12/05/59</i>
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 _____)		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (ONP)? (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)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM 1) <i>Eugene E. Collias Clifford A. Barnes</i>			

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THIS SECTION MUST BE COMPLETED BY

1. NAME AND ADDRESS OF INSTITUTION

University of Washington
 Department of Oceanography
 Seattle, Washington 98105

Technical Report No. 113

Technical Report No. 114

BB248

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Brown, Bear

U.S

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DATA DOCUMENTATION FORM

NCAA FORM 24-13
(4-75)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

FORM APPROVED
O.M.B. No. 41-R2691

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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT BB249 TR1376													
4. PLATFORM NAME(S) Brown Bear	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: left;">6. PLATFORM AND OPERATOR NATIONALITY(IES)</th> <th colspan="2" style="text-align: left;">7. DATES</th> </tr> <tr> <th style="text-align: left;">PLATFORM</th> <th style="text-align: left;">OPERATOR</th> <th style="text-align: left;">FROM: MO, DAY, YR</th> <th style="text-align: left;">TO: MO, DAY, YR</th> </tr> <tr> <td style="text-align: center;">U.S.</td> <td style="text-align: center;">U.S.</td> <td style="text-align: center;">01/18/60</td> <td style="text-align: center;">01/19/60</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.	01/18/60	01/19/60
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PLATFORM	OPERATOR	FROM: MO, DAY, YR	TO: MO, DAY, YR												
U.S.	U.S.	01/18/60	01/19/60												
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 _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. <div style="text-align: center;">GENERAL AREA</div>													
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)															
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN ITEM-1) Eugene E. Collias Clifford A. Barnes															

DATA DOCUMENTATION FORM

NCAA FORM 24-73
4-721U.S. DEPARTMENT OF COMMERCE
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NATIONAL OCEANOGRAPHIC DATA CENTER
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O.M.B. No. 41-R2651

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A. ORIGINATOR IDENTIFICATION

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1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED

University of Washington
Department of Oceanography
Seattle, Washington 98105

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH
DATA WERE COLLECTED

Technical Report No. 113
Technical Report No. 114

CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY
DATA IN THIS SHIPMENT*B0251*

4. PLATFORM NAME(S)

5. PLATFORM TYPE(S)
(E.G., SHIP, BUOY, ETC.)

DATA DOCUMENTATION FORM

CAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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University of Washington Department of Oceanography Seattle, Washington 98105			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Technical Report No. 113 Technical Report No. 114		BB252 TR1378	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BOAT, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
Brown Bear	Ship	U.S. U.S.	FROM: MO/DAY/YR TO: MO/DAY/YR 02/05/60 02/05/60
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		9. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
10. ARE DATA DECLARED NATIONAL PROGRAM (DSP)? (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 HERE)			
11. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Eugene E. Collias Clifford A Barnes			

DATA DOCUMENTATION FORM

NOAA FORM 24-13
4-721

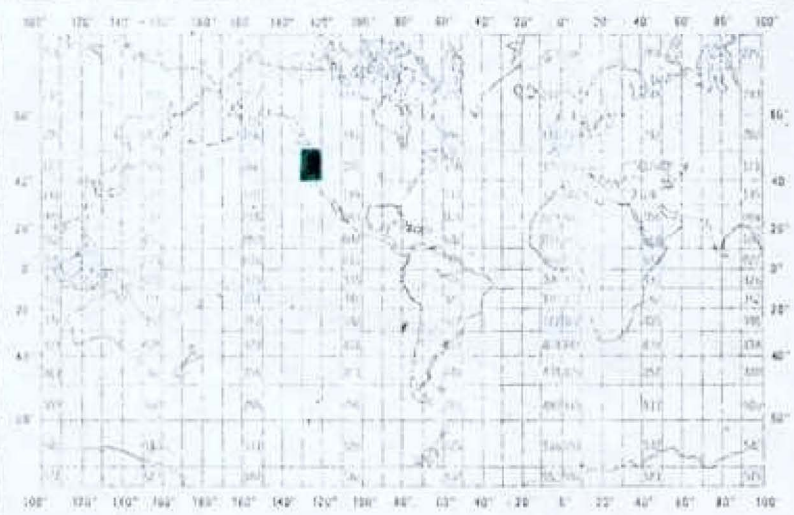
U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

FORM APPROVED
O.M.B. No. 41-R2691

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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114			3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT BB257 TR1379																		
4. PLATFORM NAME(S) Brown Bear	5. PLATFORM TYPE(S) (E.G., SHIP, BOAT, HTCS) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S.	7. DATES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th colspan="2" style="text-align: center;">FROM</th> <th colspan="2" style="text-align: center;">TO</th> </tr> <tr> <th style="text-align: center;">MO</th> <th style="text-align: center;">DAY</th> <th style="text-align: center;">MO</th> <th style="text-align: center;">DAY</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">04</td> <td style="text-align: center;">19</td> <td style="text-align: center;">04</td> <td style="text-align: center;">22</td> </tr> <tr> <td style="text-align: center;">60</td> <td></td> <td style="text-align: center;">60</td> <td></td> </tr> </tbody> </table>			FROM		TO		MO	DAY	MO	DAY	04	19	04	22	60		60	
FROM		TO																			
MO	DAY	MO	DAY																		
04	19	04	22																		
60		60																			
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 _____		9. PLEASE DARKEN ALL MARGEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. <div style="text-align: center;">GENERAL AREA</div> 																			
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DATA DOCUMENTATION FORM

DAA FORM 24-13
4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT BB259 TR1380	
4. PLATFORM NAME(S) Brown Bear	5. PLATFORM TYPE(S) (E.G., SHIP, ROV, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S. U.S.	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 05/02/60 05/06/60
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 _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNPI)? (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)			
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DATA DOCUMENTATION FORM

OAA FORM 24-13
4-72U.S. DEPARTMENT OF COMMERCE
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NATIONAL OCEANOGRAPHIC DATA CENTER
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University of Washington Department of Oceanography Seattle, Washington 98105			
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Technical Report No. 113 Technical Report No. 114		BB261 TB1391	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, ROV, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
Brown Bear	Ship	U.S. U.S.	FROM: MO/DAY/YR TO: MO/DAY/YR
			05/17/60 05/17/60
8. ARE DATA PROPRIETARY?		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		GENERAL AREA	
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNPI)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTER HOLDINGS FOR INTERNATIONAL EXCHANGE?)			
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)			
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Eugene E. Collias Clifford A Barnes			

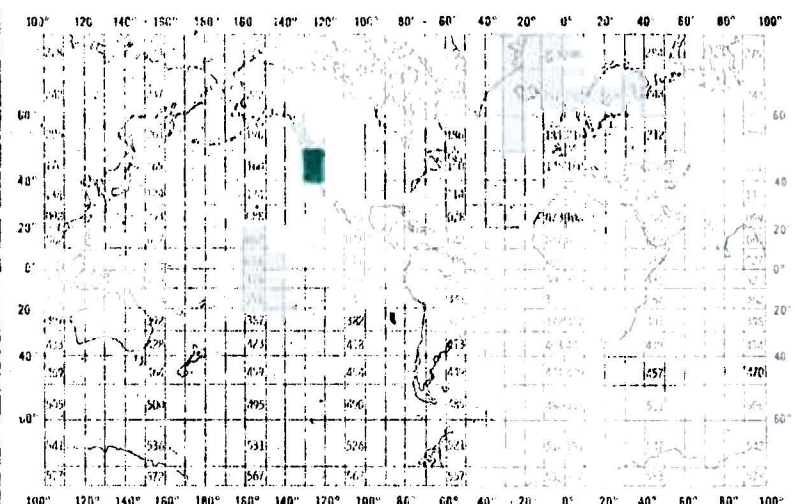
DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
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4. PLATFORM NAME(S) <i>Brown Bear</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <table border="1"> <tr> <th>PLATFORM</th> <th>OPERATOR</th> </tr> <tr> <td><i>U.S.</i></td> <td><i>U.S.</i></td> </tr> </table>	PLATFORM	OPERATOR	<i>U.S.</i>	<i>U.S.</i>	7. DATES <table border="1"> <tr> <th>FROM: MO/DAY/YR</th> <th>TO: MO/DAY/YR</th> </tr> <tr> <td><i>05/19/60</i></td> <td><i>05/23/60</i></td> </tr> </table>	FROM: MO/DAY/YR	TO: MO/DAY/YR	<i>05/19/60</i>	<i>05/23/60</i>
PLATFORM	OPERATOR										
<i>U.S.</i>	<i>U.S.</i>										
FROM: MO/DAY/YR	TO: MO/DAY/YR										
<i>05/19/60</i>	<i>05/23/60</i>										
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 _____		9. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 									
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)											
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DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

FORM APPROVED
O.M.B. No. 41-R265

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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT BB265 TR1384					
4. PLATFORM NAME(S) Brown Bear	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S. U.S.	7. DATES <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="text-align: center;">FROM</th> <th style="text-align: center;">TO</th> </tr> </thead> <tbody> <tr> <td style="text-align: center;">MO/DAY/YR 06/10/60</td> <td style="text-align: center;">MO/DAY/YR 06/11/60</td> </tr> </tbody> </table>	FROM	TO	MO/DAY/YR 06/10/60	MO/DAY/YR 06/11/60
FROM	TO						
MO/DAY/YR 06/10/60	MO/DAY/YR 06/11/60						
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 _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. <div style="text-align: center;">GENERAL AREA</div>					
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DATA DOCUMENTATION FORM

NOAA FORM 24-13
4-72U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
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4. PLATFORM NAME(S) <i>Brown Bear</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <i>U.S. U.S.</i>	7. DATES FROM: <i>12/08/60</i> TO: <i>12/08/60</i>
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		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
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DATA DOCUMENTATION FORM

NOAA FORM 24-13
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4. PLATFORM NAME(S) <i>Brown Bear</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <i>U.S. U.S.</i>	7. DATES FROM: <i>12/14/60</i> TO: <i>12/20/60</i>
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		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (NRP)? (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)			
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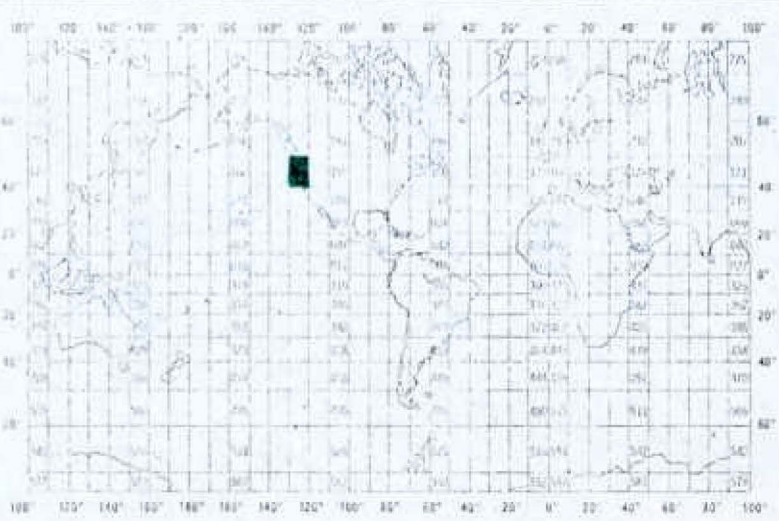
DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>Technical Report No. 113 Technical Report No. 114</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>BB 273 TRB87</i>	
4. PLATFORM NAME(S) <i>Brown Bear</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <i>U.S. U.S.</i>	7. DATES FROM: <i>12/27/60</i> TO: <i>12/30/60</i>
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 _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA 	
9. ARE DATA DECLARED NATIONAL PROGRAM (ONPI)? (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"/> PARTIALLY RELEASED			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Eugene E. Collias Clifford A Barnes</i>			

DATA DOCUMENTATION FORM

NOAA FORM 24-13

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852

FORM APPROVED
O.M.B. No. 41-R2651

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A. ORIGINATOR IDENTIFICATION

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4. PLATFORM NAME(S) <i>Brown Bear</i>	PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	5. PLATFORM AND OPERATOR NATIONALITY(IES) <i>U.S. U.S.</i>	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR <i>02/06/61 02/06/61</i>
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		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
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)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Eugene E. Collias Clifford A Barnes</i>			

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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University of Washington Department of Oceanography Seattle, Washington 98105			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Technical Report No. 113 Technical Report No. 114		BB288 TR1392	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
Brown Bear	Ship	U.S.	U.S.
		FROM	TO
		MO/DAY/YR	MO/DAY/YR
		06/09/61	06/10/61
8. ARE DATA PROPRIETARY?		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES			
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH		GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNPT)? 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)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN ITEM-1)			
Eugene E. Collias Clifford A. Barnes			

DATA DOCUMENTATION FORM

CAA FORM 24-13
4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R269

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A. ORIGINATOR IDENTIFICATION

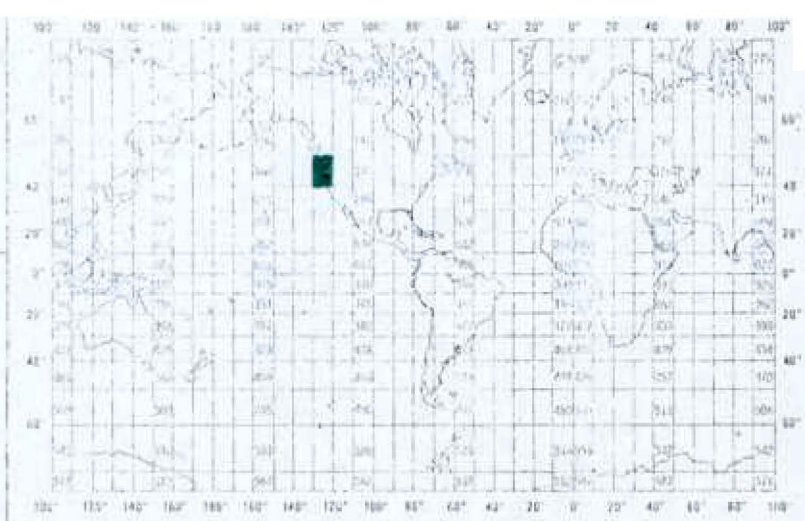
THIS SECTION MUST BE COMPLETED BY DONOR FOR ALL DATA TRANSMITTALS

1. NAME AND ADDRESS OF INSTITUTION, LABORATORY, OR ACTIVITY WITH WHICH SUBMITTED DATA ARE ASSOCIATED			
University of Washington Department of Oceanography Seattle, Washington 98105			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Technical Report No. 113 Technical Report No. 114		BB293 TR1393	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
Brown Bear	Ship	U.S. U.S.	FROM: MO/DAY/YR TO: MO/DAY/YR
			09/14/61 09/15/61
8. ARE DATA PROPRIETARY?		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
<input checked="" type="checkbox"/> NO <input type="checkbox"/> YES		GENERAL AREA	
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR MONTH			
9. ARE DATA DECLARED NATIONAL PROGRAM (DNPI)?			
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)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)			
Eugene E. Collias Clifford A. Barnes			

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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>Technical Report No. 113 Technical Report No. 114</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT. <i>BB294</i>					
4. PLATFORM NAME(S) <i>Brown Bear</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	OPERATOR <i>U.S.</i>	<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="padding: 2px;">FROM: MO/DAY/YR</th> <th style="padding: 2px;">TO: MO/DAY/YR</th> </tr> <tr> <td style="padding: 5px;"><i>11/03/61</i></td> <td style="padding: 5px;"><i>11/03/61</i></td> </tr> </table>	FROM: MO/DAY/YR	TO: MO/DAY/YR	<i>11/03/61</i>	<i>11/03/61</i>
FROM: MO/DAY/YR	TO: MO/DAY/YR						
<i>11/03/61</i>	<i>11/03/61</i>						
6. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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. <div style="text-align: center;">  </div>					
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 (PART/SPECIFY BELOW)		10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Eugene E. Collias Clifford A Barnes</i>					

DATA DOCUMENTATION FORM

DAA FORM 24-13
1-721U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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.

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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT	
Technical Report No. 113 Technical Report No. 114		BB296 TR1395	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
Brown Bear	Ship	U.S. U.S.	FROM: MO/DAY/YR TO: MO/DAY/YR 11/13/61 11/17/61
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		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
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"/> PARTIALLY SPECIFY BELOW			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER AND ADDRESS IF OTHER THAN IN ITEM-1) Eugene E. Collias Clifford A Barnes			

DATA DOCUMENTATION FORM

OFA FORM 24-13
4-7-73

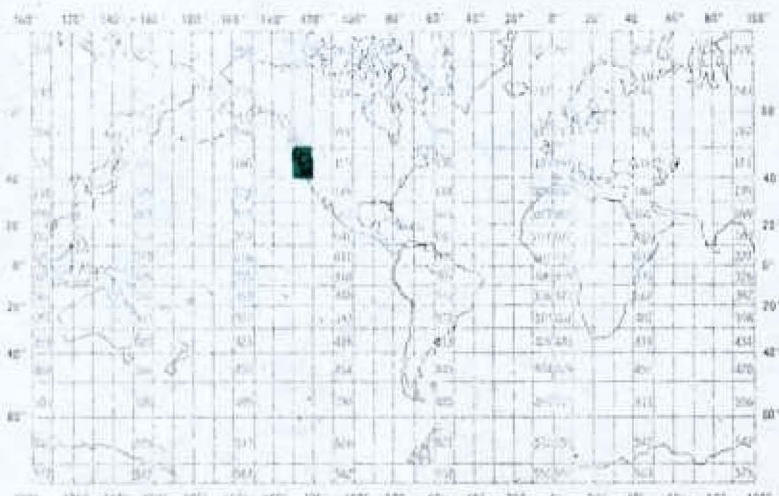
U.S. DEPARTMENT OF COMMERCE
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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT DAB2A1 TR1402													
4. PLATFORM NAME(S) YTL 49	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <th colspan="2" style="text-align: center;">6. PLATFORM AND OPERATOR NATIONALITY(IES)</th> <th colspan="2" style="text-align: center;">7. DATES</th> </tr> <tr> <th style="text-align: center;">PLATFORM</th> <th style="text-align: center;">OPERATOR</th> <th style="text-align: center;">FROM: MO, DAY, YR</th> <th style="text-align: center;">TO: MO, DAY, YR</th> </tr> <tr> <td style="text-align: center; height: 40px;">U.S.</td> <td style="text-align: center;">U.S.</td> <td style="text-align: center;">01/02/59</td> <td style="text-align: center;">09/04/59</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.	01/02/59	09/04/59
6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES													
PLATFORM	OPERATOR	FROM: MO, DAY, YR	TO: MO, DAY, YR												
U.S.	U.S.	01/02/59	09/04/59												
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 _____)		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. <div style="text-align: center;">GENERAL AREA</div> 													
9. ARE DATA DECLARED NATIONAL PROGRAM (ONP)? (I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES (PART SPECIFY BELOW)		(Continuation of map area)													
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN FORM-1) Eugene E. Collias Clifford A. Barnes															

DATA DOCUMENTATION FORM

NOAA FORM 24-13
4-72U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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University of Washington
Department of Oceanography
Seattle, Washington 98105

2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED

Technical Report No. 113
Technical Report No. 114

3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

DAB2A2

TR1403

4. PLATFORM NAME(S)

5. PLATFORM TYPE(S)
(E.G., SHIP, BUOY, ETC.)

6. PLATFORM AND OPERATOR 7. NATIONALITY(IES)

DATES

OPERATOR

FROM: MO/DAY/YR

TO: MO/DAY/YR

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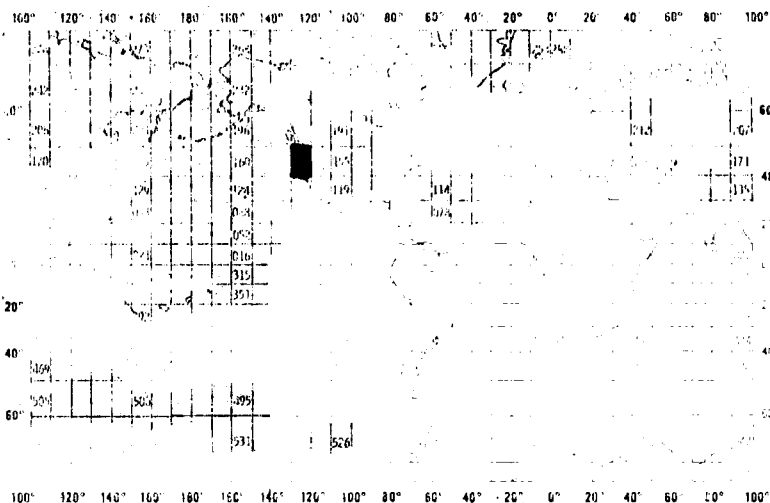
09/10/59

09/10/59

8. ARE DATA PROPRIETARY?

☒ NO ☐ YESIF YES, WHEN CAN THEY BE RELEASED
FOR GENERAL USE? YEAR MONTH11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA
CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

GENERAL AREA

9. ARE DATA DECLARED NATIONAL
PROGRAM (DNP)?(I.E., SHOULD THEY BE INCLUDED IN WORLD
DATA CENTERS HOLDINGS FOR INTERNA-
TIONAL EXCHANGE?)☒ NO ☐ YES ☐ PART (SPECIFY BELOW)

Eugene E. Collias
Clifford A. Barnes

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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FORM APPROVED
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Seattle, Washington 98105

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3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT

Technical Report No. 113
Technical Report No. 114

DAB2A3

TR1404

4. PLATFORM NAME(S)

5. PLATFORM TYPE(S)
(E.G., SHIP, BUOY, ETC.)

6. PLATFORM AND OPERATOR 7.
NATIONALITY(IES)

DATES

PLATFORM OPERATOR

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ORIGINATOR IDENTIFICATION

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RATION

FORM APPROVED
O.M.B. No. 41-R20

This form should accompany all data when the data must be completed. Remaining pertinent information in reports, publications, or manuscripts, and form specifics. Readable data shipments should be sent to

NODC Section A, Originator Identification, might be desirable for NODC to also receive the most easily accomplished by attaching a table describing data collection, analysis are acceptable in all cases. All

A. ORIGINATOR IDENTIFICATION

University of Washington
Department of Oceanography
Seattle, Washington 98105

EXPEDITION, PROJECT
DATA WERE COLLECTED

Technical Report No. 113
Technical Report No. 114

ATFORM NAME

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B. A DATA PROPR AR

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NUMBER(S) USED BY ORIGINATOR TO IDENTIFY
THIS SHIPMENT

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FORM A OPERATOR	DATES	
ONALITY	FROM: MO, DAY, YR	TO: MO, DAY, YR
U.S.	U.S.	

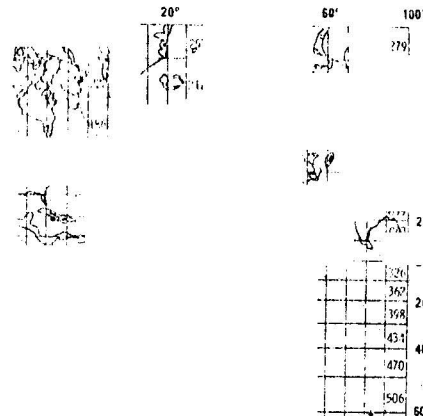
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YOUR SUBMISSION WERE COLL

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DATA DOCUMENTATION FORM

OAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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Technical Report No. 113 Technical Report No. 114			DABØ8 TR1353		
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR	7. NATIONALITY(IES)	8. DATES	
Astor	Ship	U.S.	U.S.	FROM: MO, DAY, YR	TO: MO, DAY, YR
				08/30/60	09/01/60
9. ARE DATA PROPRIETARY? <input checked="" type="checkbox"/> NO <input type="checkbox"/> 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.		
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10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Eugène E. Collias Clifford A. Barnes					

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DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
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Technical Report No. 113 Technical Report No. 114		DAB14 TR1355	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
Astor	Ship	U.S. U.S.	FROM: MO, DAY, YR TO: MO, DAY, YR
			09/23/60 09/25/60
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		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.	
9. ARE DATA DECLARED NATIONAL PROGRAM (ONPI)? (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)		GENERAL AREA	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Eugene E. Collias Clifford A. Barnes			

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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 <i>University of Washington Department of Oceanography Seattle, Washington 98105</i>			
2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>Technical Report No. 113 Technical Report No. 114</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT. <i>DAB11 TR1396</i>	
4. PLATFORM NAME(S) <i>Hydah</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) <i>U.S. U.S.</i>	
		7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR <i>10/15/60 10/16/60</i>	
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 _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
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)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Eugene E. Collias Clifford A. Barnes</i>			

DATA DOCUMENTATION FORM

OAA FORM 24-13
4-72U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED <i>Technical Report No. 113 Technical Report No. 114</i>		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT <i>DAB12 FR1397</i>	
4. <i>Hydah</i>	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) <i>Ship</i>	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR <i>U.S. U.S.</i>	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR <i>10/29/60 10/30/60</i>
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 _____		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
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)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) <i>Eugene E. Collias Clifford A. Barnes</i>			

DATA DOCUMENTATION FORM

DAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
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ROCKVILLE, MARYLAND 20852FORM APPROVED
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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT DAB13 TR1398	
4. PLATFORM NAME(S) Hydah	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) PLATFORM OPERATOR U.S. U.S.	7. DATES FROM: MO, DAY, YR TO: MO, DAY, YR 11/12/60 11/13/60
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		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
9. ARE DATA DECLARED NATIONAL PROGRAM (DNPP)? (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)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Eugene E. Collias Clifford A. Barnes			

DATA DOCUMENTATION FORM

DAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED Technical Report No. 113 Technical Report No. 114		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT. DAG14 TR1399	
4. PLATFORM NAME(S) Hydah	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.) Ship	6. PLATFORM AND OPERATOR NATIONALITY(IES) U.S. U.S.	7. DATES FROM: MO/DAY/YR TO: MO/DAY/YR 12/30/60 12/04/60
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		11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED. GENERAL AREA	
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)			
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1) Eugene E. Collias Clifford A. Barnes			

DOA FORM 24-73
(4-72)

DATA DOCUMENTATION FORM

NOAA FORM 24-13
(4-72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
ROCKVILLE, MARYLAND 20852FORM APPROVED
O.M.B. No. 41-R2651

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2. EXPEDITION, PROJECT, OR PROGRAM DURING WHICH DATA WERE COLLECTED		3. CRUISE NUMBER(S) USED BY ORIGINATOR TO IDENTIFY DATA IN THIS SHIPMENT.	
Technical Report No. 113 Technical Report No. 114		DAB17 TR1401	
4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)	7. DATES
Skiff	Ship	PLATFORM OPERATOR	FROM: MO/DAY/YR TO: MO/DAY/YR
		U.S. U.S.	02/04/61 10/24/61
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 _____		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?) <input checked="" type="checkbox"/> NO <input type="checkbox"/> YES <input type="checkbox"/> PART (SPECIFY BELOW)		<p>GENERAL AREA</p>	
10. PERSON TO WHOM INQUIRIES CONCERNING DATA SHOULD BE ADDRESSED WITH TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)			
Eugene E. Collias Clifford A. Barnes			

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
Temperature	°Centigrade	"Determined by use of accepted Oceanographic procedures"		
Salinity	‰	" "		
Sigma-t		" "		
Oxygen	ML/L	" "		
Phosphate	Microgram-at/L	" "		

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

FILE HEADER RECORD - "1" in col. 10
 FIRST STATION HEADER RECORD - "2" in col. 10
 SECOND STATION HEADER RECORD - "3" in col. 10
 DATA RECORDS - "4" in col. 10

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. CONTRIBUTES AS EXPRESSED IN

☐ PL-1

☒ FORTRAN

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>9. LENGTH OF INTER-RECORD GAP (IF KNOWN) <input checked="" type="checkbox"/> 3/4 INCH</p>
<p>6. NUMBER OF TRACKS (CHANNELS)</p> <p><input type="checkbox"/> SEVEN</p> <p><input checked="" type="checkbox"/> NINE</p>	<p>10. END OF FILE MARK</p> <p><input type="checkbox"/> OCTAL 17</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 LABEL SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)</p> <p>Data on tape is in card image dcb = (recfm+fb,lrecl+80,blksize=3200) DSN = AC <u>680201</u>, vol=ser= <u>007616</u></p> <p>9 Track tape; Standard Label.</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>12. PHYSICAL BLOCK LENGTH IN BYTES</p> <p>3200</p> <p>13. LENGTH OF BYTES IN BITS</p> <p>8</p>

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

.1/5

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH in bytes NUMBER	17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
<u>File Header Record</u>				
File Type	1	3	A3	"004" (constant)
Track Number	4	6	6A1	NODC (in-house) Identifier
Record Type	10	1	A1	"1" (File Header Record)
Vessel	11	11	11A1	(left aligned)
Cruise	22	6	6A1	Originator's Cruise Identifier
Cruise Dates	28	17	5(I2,A1) I2	XX/XX/XX-XX/XX/XX Beginning Month, Day, Year; Ending Month, Day, Year
Senior Scientist	45	19	19A1	(left aligned)
Investigator	64	17	17A1	Responsible Institution (left aligned)

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

2 / 5

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH in bytes NUMBER	17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
<u>First Station Header Record</u>				
File Type	1	3	A3	"004" (constant)
Track Number	4	6	6A1	NODC (in-house) Identifier
Record Type	10	1	A1	"2" (First Station Header Record)
Sequence	11	3	I2	Sequence of this record type within station. (Leading zeros or leading blanks.)
Station	14	5	5A1	Station Identifier
Latitude	19	6	3I2	Degrees, Minutes, Seconds
Lathem	25	1	A1	Hemisphere "N" or "S"
Longitude	26	7	I3, 2I2	Degrees, Minutes, Seconds
Lonhem	33	1	A1	Hemisphere "W" or "E"
Time	34	3	I3	GMT in hour to tenths
Date	37	8	2(I2,A1), I2	XX/XX/XX Station Date; Month, Day, Year
Bottom	45	5	I5	Water Depth, meters to tenths
Navigation	50	2	I2	(See attached codes)
Method	52	1	I1	(See attached codes)
Blank	53	28	28X	Blank

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

3 / 5

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN (e.g., bits, bytes)	16. LENGTH in bytes NUMBER	17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
<u>Second Station Header Record</u>				
File Type	1	3	A3	"004" (constant)
Track Number	4	6	6A1	NODC (in-house) Identifier
Record Type	10	1	A1	"3" (Second Station Header Record)
Sequence	11	3	I3	Sequence of this record type within station. (Leading zeros or leading blanks.)
Station	14	5	5A1	Station Identifier
Barometer	19	3	I3	Pressure in millibars to tenths
Dry Bulb	22	4	I4	Air temperature; degrees Celsius to tenths
Wet Bulb	26	4	I4	Air temperature; degrees Celsius to tenths
Wind Direction	30	2	I2	WMO code 0877; tens of degrees
Wind Speed	32	2	I2	Knots
Sea Direction	34	2	I2	WMO code 0885; tens of degrees
Sea Height	36	1	A1	WMO code 1555
Swell Direction	37	2	I2	WMO code 0885
Swell Height	39	1	A1	WMO code 1555
Weather	40	1	I1	WMO code 4501
Cloud Type	41	1	A1	WMO code 0500
Cloud Cover	42	1	I1	WMO code 2700
Visibility	43	1	I1	WMO code 4300
Transparency	44	4	I4	Secchi Disk Depth; meters to tenths
Turbidity Code	48	1	I1	(See attached codes)
Blank	49	37	37X	Blank

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

4 / 5

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN (e.g., bits, bytes)	16. LENGTH in bytes	17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
<u>Data Record</u>				
File Type	1	3	A3	"004" (constant)
Track Number	4	6	6A1	NODC (in-house) Identifier
Record Type	10	1	A1	"4" (Data Record)
Sequence	11	3	I3	Sequence of this record type within station. (Leading zeros or leading blanks,)
Station	14	5	5A1	Station Identifier
Depth	19	4	I4	Sample Depth; to tenths
Temperature	23	5	I5	Water Temp.; degrees Celsius to thousandths
Salinity	28	5	I5	Salinity; parts per thousand to thousandths
Sigma-T	33	4	I4	Sigma-t to hundredths
Transmissivity	37	3	I3	Transmissivity; percent to tenths
pH	40	3	I3	pH to hundredths
eH	43	4	I4	eH to hundredths
Oxygen	47	4	I4	Dissolved; hundredths to ml./liter
Ammonia	51	3	I3	Tenths of microgram (ug)-atoms/liter
Nitrite	54	3	I3	Hundredths of ug-atoms/liter
Nitrate	57	4	I4	Hundredths of ug-atoms/liter
Silicate	61	4	I4	Hundredths of ug-atoms/liter
Phosphate	65	3	I3	Inorganic; hundredths of ug-atoms/liter
Solids	68	4	I4	Suspended solids in hundredths of mg./liter

RECORD FORMAT DESCRIPTION

FILE NAME: WATER PHYSICS and CHEMISTRY (File Type "004")

.5 / 5

14. FIELD NAME	15. POSITION FROM -1 MEASURED IN (e.g., bits, bytes)	16. LENGTH in bytes NUMBER	17. ATTRIBUTES (FORTRAN)	18. USE AND MEANING
<u>Data Record (cont'd)</u>				
Turbidity	72	4	I4	Turbidity; in hundredths of mg./liter
Chlorophyll	76	5	I5	Chlorophyll; in hundredths of mg./meter ³