ACCESSION NUMBER 78-0054

RECEIVED DEC 13 1977

DATA DOCUMENTATION FORM

TR 2810

NOAA FORM 24-13 (4-77)

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
NATIONAL OCEANOGRAPHIC DATA CENTER
RECORDS SECTION
WASHINGTON, DC 20235

FORM APPROVED
O.M.B. No. 41-R2651
EXPIRES 1-81

NEGOA

F027

(While you are not required to use this form, it is the most desirable mechanism for providing the required ancillary information enabling the NODC and users to obtain the greatest benefit from your data.)

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

John D. Hall
U.S. Fish and Wildlife Service
800 A St. Rm. 110
Anchorage, Ak. 99501

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

BLM/OCSEAP
RU-481

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

FW6079
FW7001,2,3,4,5,6,7,8,9,10,11,12,13

4. ~~PLATFORM~~ NAME(S)	5. PLATFORM TYPE(S) *(E.G., SHIP, BUOY, ETC.)*	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
Shelby D	Ship				
T-Beaver(N754)	Aircraft				
Nordic Prince	Ship				
T-Goose (N780)	Aircraft	U.S.	U.S.	761118	761124
				See Attached Sheet	

8. ARE DATA PROPRIETARY?

[X] NO [ ] YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____

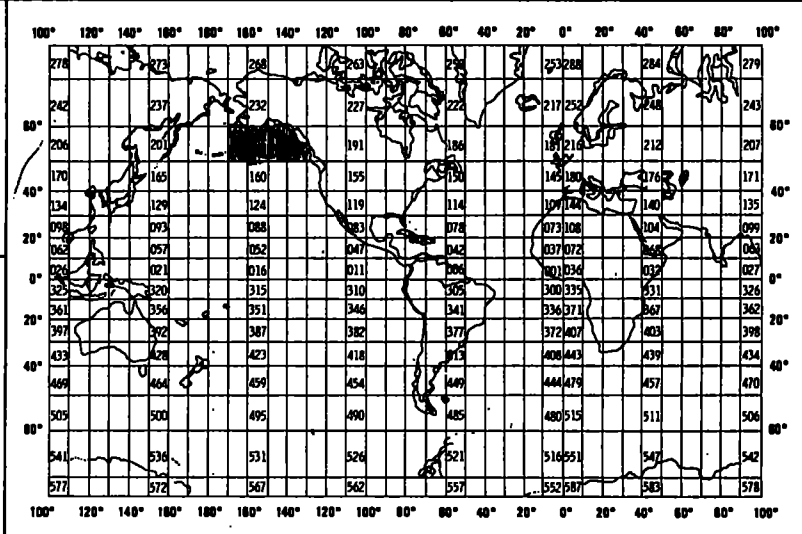
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

Gulf of Alaska
195 GENERAL AREA

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?

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

[X] 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)*

John D. Hall
907-265-5401

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 S510)	N/A (Not applicable)
		STD Bissett-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
Position	degrees/minutes	Global GNS-500	N/A	
Taxonomy	species	visual (new code)	N/A	

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

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.

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

2. GIVE BRIEF DESCRIPTION OF FILE ORGANIZATION

3. ATTRIBUTES AS EXPRESSED IN ☐ PL-1 ☐ ALGOL ☐ COBOL ☐ FORTRAN ☐ N/A LANGUAGE

4. RESPONSIBLE COMPUTER SPECIALIST:
NAME AND PHONE NUMBER John D. Hall 907-265-5401
ADDRESS

COMPLETE THIS SECTION IF DATA ARE ON MAGNETIC TAPE

5. RECORDING MODE
☐ BCD ☐ BINARY
☐ ASCII ☒ EBCDIC
☐ _____

6. NUMBER OF TRACKS (CHANNELS)
☐ SEVEN
☒ NINE
☐ _____

7. PARITY
☒ ODD
☐ EVEN

8. DENSITY
☐ 200 BPI ☒ 1600 BPI
☐ 556 BPI
☐ 800 BPI
☐ _____

9. LENGTH OF INTER-RECORD GAP (IF KNOWN) ☐ 3/4 INCH
☐ _____

10. END OF FILE MARK
☐ OCTAL 17
☐ _____

11. PASTE-ON-PAPER LABEL DESCRIPTION *(INCLUDE ORIGINATOR NAME AND SOME LAY SPECIFICATIONS OF DATA TYPE, VOLUME NUMBER)*

John D. Hall

File 027, Records 1-6, 4350 card equiv.

(Codes are of 20 June 1977)

12. PHYSICAL BLOCK LENGTH IN BYTES

13. LENGTH OF BYTES IN BITS

NOAA FORM 24-13

RECORD FORMAT DESCRIPTION

RECORD NAME _____

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

NOAA FORM 24-13

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		

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		

NOAA FORM 24-13

D. INSTRUMENT CALIBRATION

This calibration information will be utilized by NOAA's National Oceanographic Instrumentation Center in their efforts to develop calibration standards for voluntary acceptance by the oceanographic community. Identify the instruments used by your organization to obtain the scientific content of the DDF (i.e., STD, temperature and pressure sensors, salinometers, oxygen meters, velocimeters, etc.) and furnish the calibration data requested by completing and/or checking ("✓") the appropriate spaces. Add the interval time (i.e., 3 months, 6 months, 9 months, etc.) if the fixed interval calibration cycle is checked.

INSTRUMENT TYPE (MFR., MODEL NO.)	DATE OF LAST CALIBRATION	INSTRUMENT WAS CALIBRATED BY		CHECK ONE: INSTRUMENT IS CALIBRATED					INSTRUMENT IS NOT CALIBRATED (√)
		YOUR ORGANIZATION (√)	OTHER ORGANIZATION (GIVE NAME)	AT FIXED INTERVALS (√)	BEFORE OR AFTER USE (√)	BEFORE AND AFTER USE (√)	ONLY AFTER REPAIR (√)	ONLY WHEN NEW (√)	

NOAA FORM 24-13

FORM CD-15 (12-6-73) PRESCR. BY DAO 214-2

U.S. DEPARTMENT OF COMMERCE

TRANSMIT/ROUTE

DATE 12/10/79

NAME	BUILDING, ROOM OR REFERENCE NO.	TAKE ACTION BELOW	INITIALS AND DATE
D782 C Noe		9	
Jim, which of these			
changes are			
not made yet?			
We agreed that counts & temp.			
values needed to be changed (TR 2810-23)			
rest of changes made except all			
as noted (A) + (B) necessary changes made & checked 6-16-80			

ACTION ITEMS

1. APPROVAL/SIGNATURE
2. CLEARANCE/INITIALS
3. RECOMMENDATION OR COMMENT
4. RETURN WITH MORE DETAILS
5. INVESTIGATE AND REPORT
6. NOTE AND SEE ME
7. NOTE AND RETURN
8. NOTE AND FILE
9. YOUR INFORMATION
10. PER OUR CONVERSATION
11. AS REQUESTED
12. NECESSARY ACTION
13. CIRCULATE AMONG STAFF
14. ANSWER DIRECTLY
15. PREPARE REPLY FOR SIGNATURE OF: ______

COMMENTS Bob Do LFRET ON TR 7810-23 to disk - Then do IEBGENR to print. 4623 give listing to J.A.M. 9-14-80

☐ Continued on reverse

FROM (Name)	BUILDING, ROOM OR REF. NO.	CODE AND EXTENSION

FORM CD-26
(12-11-46)

U.S. DEPARTMENT OF COMMERCE

WORKSHEET

PLATFORM	CRUISE #	FROM CRUISE DATES	TO CRUISE DATES	FILE ID	TRACK #				
SHELBY D	FW6079	11/18/76	11/24/76	FW6079	TR2810	✓			
SUPER GOOSE	FW7001	1/27/77	1/27/77	FW7001	TR2811	✓			
↓	FW7002	3/12/77	3/12/77	FW7002	TR2812	✓			
↓	FW7003	4/13/77	4/13/77	FW7003	TR2813	✓			
SHELBY D	FW7056	5/8/77	5/13/77	FW7056	TR2814		FW7056		
↓	FW7005	5/11/77	5/13/77	FW7005	TR2815	✓			
↓	FW7006	5/29/77	6/4/77	FW7006	TR2816	✓			
SUPER GOOSE	FW7007	6/6/77	6/6/77	FW7007	TR2817	✓			
SHELBY D	FW7008	6/19/77	6/24/77	FW7008	TR2818	✓			
↓	FW7009	6/28/77	6/30/77	FW7009	TR2819	✓			
↓	FW7010	8/22/77	8/29/77	FW7010	TR2820	✓			
TURBO BEAVER	FW7011	9/12/77	9/12/77	FW7011	TR2821	✓			
SHELBY D	FW7012	9/30/77	10/7/77	FW7012	TR2822	✓			
CAPE CARESCHE	FW7013	4/7/77	5/27/77	FW7013	TR2823	✓			

☆ U.S. GOV. PRINTING OFFICE: 1976—766-104

March 15, 1978
D7514-E.V. Collins

Hall

Problems and Questions

#78-0554
TR2810-2823

1. Record type #1 should contain complete track information. Based on beginning and ending position and time per file identifier, it is proposed that the enclosed records be inserted, as appropriate at the beginning of each file identifier and that other record types be deleted.

2. The longitude for FW7001 sequence 049 is 146°71'00"W. What is the correct value for the minutes?

3. A single station of FW7056 is inserted between FW7002 and FW7003. This file identifier is not listed in the RU 481 list titled "Survey Data Schedule."

4. No file FW7004 data was found on the data tape, but the inclusive dates (770507 - 770513) are found on FW7005.

1–5	6–9	10	21–49	60–74
Ø27FW	6Ø79	1	ØØØ1761118 22ØØ6Ø25ØØN 147Ø5ØØW	5955ØØN 1483ØØØW
	7ØØ1	1	ØØØ777Ø126 2Ø41595 9ØØW 14919ØØW	5931ØØN 146 ØØW ?
	7Ø21	1	ØØ5Ø77Ø312 2ØØ36ØØØØØN 14921ØØW	6Ø1ØØØN 14737ØØW
	7Ø31	1	Ø12Ø77Ø413 21Ø26Ø12ØØN 15235ØØW	6Ø28ØØN 14639ØØW
	7Ø51	1	Ø15977Ø5Ø7 23455 5Ø3ØØN 13142ØØW	6Ø44ØØN 14751ØØW
	7ØØ6	1	Ø19Ø77Ø53Ø 2Ø3Ø6Ø47ØØN 148Ø3ØØW	6Ø48ØØN 1482ØØØW
	7ØØ7	1	Ø25Ø77Ø6Ø6 21585944ØØN 14927ØØW	6Ø31ØØN 14641ØØW
	7ØØ8	1	Ø32777Ø62Ø 221Ø6Ø46ØØN 148Ø6ØØW	6Ø45ØØN 148ØØØØW
	7ØØ9	1	Ø37177Ø629 Ø3ØØ6Ø38ØØN 148Ø3ØØW	591ØØØN 15155ØØW
	7Ø11	1	Ø43377Ø912 21126Ø41ØØN 148Ø5ØØW	6Ø34ØØN 14731ØØW
	7Ø12	1	Ø553771ØØ1 2Ø156Ø46ØØN 14731ØØW	6Ø43ØØN 14738ØØW
	7Ø1Ø	1	Ø38477Ø822 16ØØ5926ØØN 15145ØØW	6Ø45ØØN 14737ØØW
	7Ø13	1	Ø58577Ø4Ø8 Ø1Ø55435ØØN 16456ØØW	5435ØØN 16456ØØW
		1		
		1		

PUNCH CARD TRANSCRIPT

☆ GPO : 1974 O - 532-683

1. Record type #1 was improperly used. Starting ~~time~~ date & time is actually sighting date & time.

2. Task #1: insert content of cols. 25-34 of each record type #1 into its following record type #2.

3. Task #2: delete all record type #1 except the first one in each track.
Note: FW7011 has 1st station 2nd.

4. Task #3: insert correct beginning & ending position & date/time on each 1st record type #1 per track.

5. The first date on the first card should be 761118 instead of 761013.

6. Zero fill column 21 in all record types if it is blank (see #0499 on).

7. On FW7011, the first station is out of place.

8. Suggest Seq. # increase with station
will be able to sort provide no more than one of each

Dee Fish + Wildlife
Service Marine
Mammal Sighting Form
for description of
format. Since there
was no listing its
hard to tell if Hall
has followed the
format, but it
appears like he has.

J.

FISH AND WILDLIFE SERVICE
MARINE MAMMAL SIGHTING

FILE TYPE	FIELD OPERATION NUMBER	RT	TRANSECT NUMBER	SEQ. NO.	DATE YR MO DAY	TIME GMT
027	FW	10	100000	74		

RT	UNIT	SIGHT DIST. (yds)
10 4	2	

RT	POSITION LATITUDE	POSITION LONGITUDE	E/W	PLATFORM TYPE	PLATFORM NAME	PLATFORM HDG. (Deg)	PLATFORM ALTIT. (meters)	PLATFORM SPEED (kts)	ICE COVER TYPE	ICE COVER OCTAS THIN	ICE COVER OCTAS MOD	ICE COVER OCTAS THICK	ICE COVER Char. SRC	ICE COVER Char. FIRST	ICE COVER DEFORM	ICE COVER WIDTH
10 2		00	N													

RT	IDR	GLARE	BIRDS	PAC. OCS ZONE	OBS.	SPECIES
10 6						

RT	WIND SPD. (kts)	WIND DIR. (deg)	VIS	WEATHER	AIR TEMP. (degC)	SS	SEA TEMP. (degC)	BARO. Press. (mb)	INC ANG deg	WATER DEPTH (meters)
10 3										

RT	TAXONOMY CODE	BEHAVIOR	NO. SIGHTED	MARK TYPE
10 5				

VS Whole Dog Coat. VS Ok-To Tenths

25 12 25-36 ✓

VS 40-44 - NODE

COMMENT

RU 481

Survey Date Schedule

	TR#			
FW6079	2816	Shelby D	→ 761118-761124	
FW7001	2811	Super Goose	→ 770126-770127	
FW7002	2812	Super Goose	→ 770312-770312	
FW7003	2813	Super Goose	→ 770413-770413	
FW7004		Shelby D	→ 770508-770513	FW7056 770419
FW7005	2815	Shelby D	770511-770513	
FW7006	2816	Shelby D	→ 770529-770604	
FW7007	2817	Super Goose	→ 770606-770606	
FW7008	2818	Shelby D	→ 770619-770624	?
FW7009	2819	Shelby D	→ 770628-770630	
FW7010	2820	Shelby D	→ 770822-770829	
FW7011	2821	Turbo Beaver	→ 770912-770913	
FW7012	2822	Shelby D	→ 770930-771007	
FW7013	2823	Cape Sarichef	→ 770407-770827	

ACCESSION NUMBER 78-0054

TR 2811

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-R2651

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JOHN HALL
USF+WS
ANCH., AK

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

OCSEAP
RU 481

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

FW7001

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SUPER GOOSE	A/C	US	US	770127	770127

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

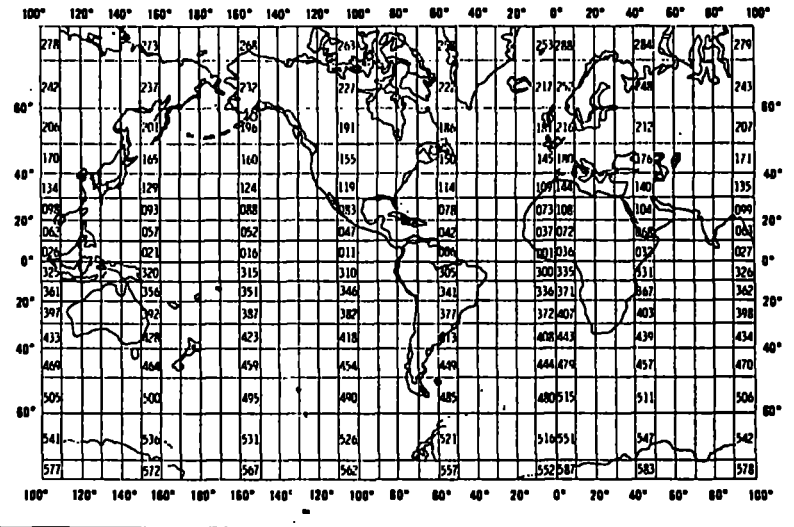
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

SQ 195 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 TELEPHONE NUMBER (AND ADDRESS IF OTHER THAN IN ITEM-1)

JOHN D. HALL

ACCESSION NUMBER 78-0054

DATA DOCUMENTATION FORM

TR2812

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

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JOHN HALL
USF&WS
ANCH, AK

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

OCSEAP
RV 481

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

FW7002

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SUPER GOOSE	A/C	US	US	770312	770312

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____

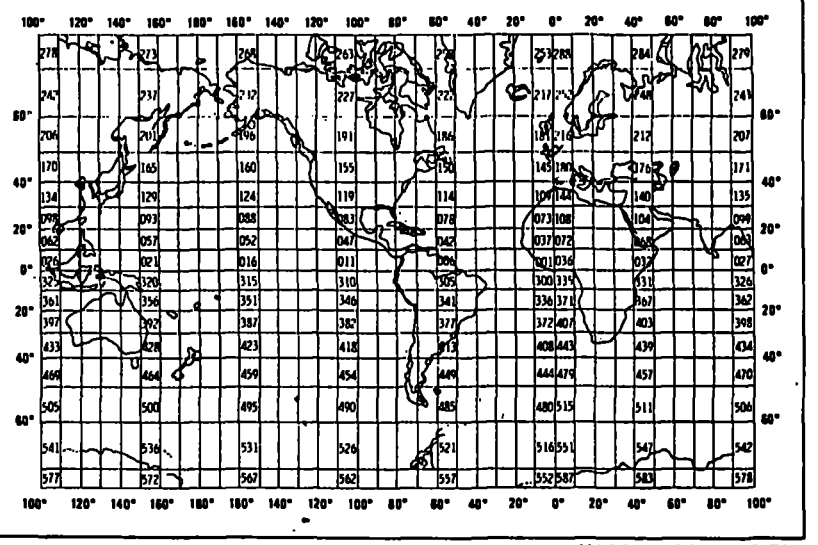
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

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

JOHN D. HALL

NUMBER 78-0054

DATA DOCUMENTATION FORM

TR 2813

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

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USF+WS
ANCH., AK

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

OCSEAP
RU 481

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

FW7003

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SUPER GOOSE	A/C	US	US	770413	770413

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

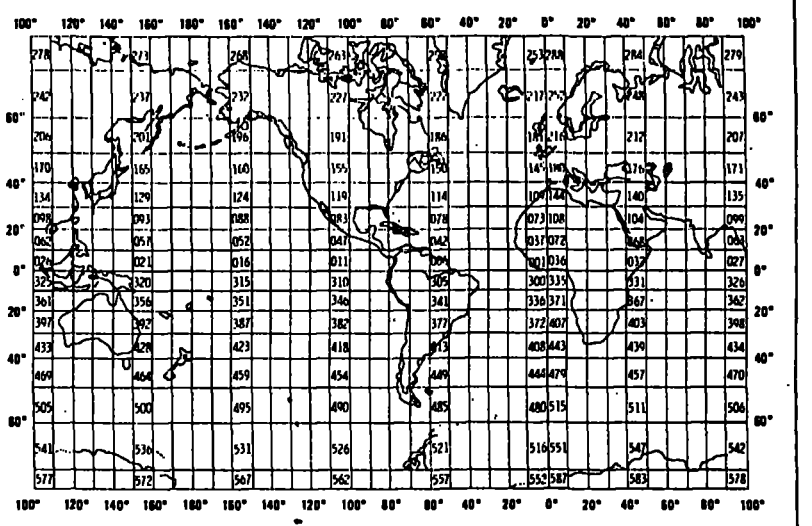
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

195, 196 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 TELEPHONE NUMBER *(AND ADDRESS IF OTHER THAN IN ITEM-1)*

JOHN D. HALL

USCOMM-DC 44289-P72

ACCESSION NUMBER 78-0054

DATA DOCUMENTATION FORM

TR2814

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-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

JOHN HALL
USF+WS
ANCH. AK

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

OCSEAP
RU 481

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

FW 7056
(FW7004)

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SHELBY D	SHIP	US	US	770508	770513

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR___ MONTH___

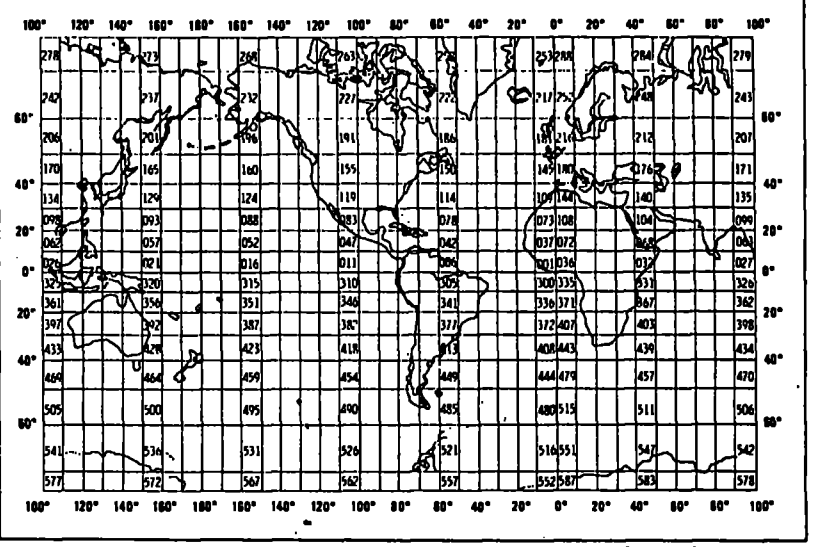
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

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

JOHN D. HALL

NOAA FORM 24-13

USCOMM-DC 44289-P72

ACCESSION NUMBER 78-0054

DATA DOCUMENTATION FORM

TR2815

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-R2651

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JOHN HALL
USF+WS
ANCH. AK

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

OCSEAP
RU 481

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

FW 7005

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SHELBY D	SHIP	US	US	770511	770513

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?

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

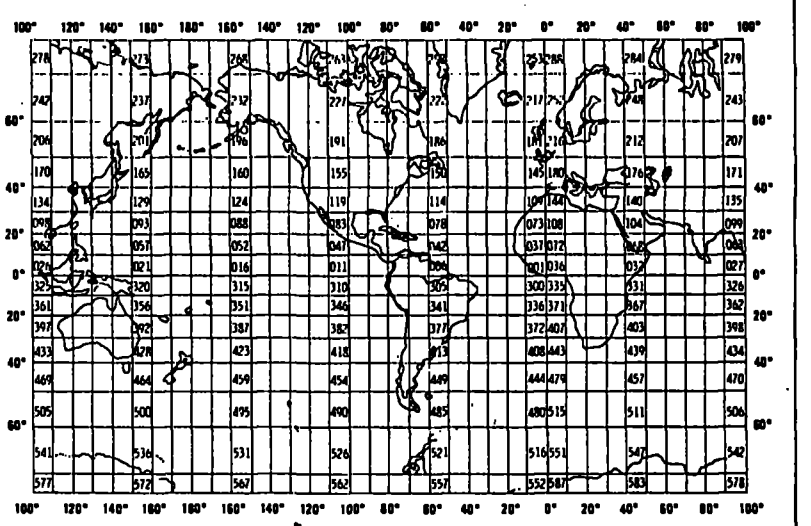
☑ NO ☐ YES ☐ PART (SPECIFY BELOW)

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

JOHN D. HALL

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

195 GENERAL AREA



NOAA FORM 24-13

USCOMM-DC 44289-P72

ACCESSION NUMBER 78-0054

DATA DOCUMENTATION FORM

TR 286

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-R2651

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JOHN HALL
USFW WS
ANCH. AK

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

OCSEAP
RU 481

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

FW 7006

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SHELBY D	SHIP	US	US	770529	770604

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

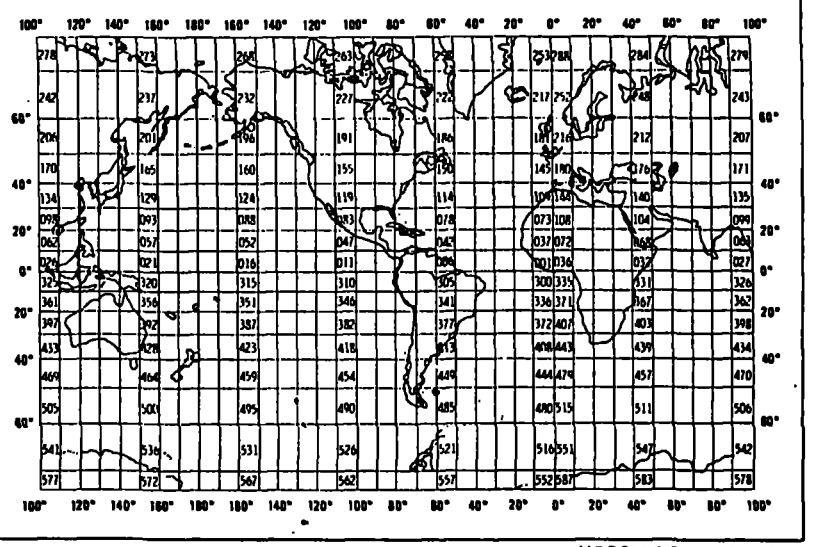
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

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

JOHN HALL

ACCESSION NUMBER 78-0054

TR 2817

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

JOHN HALL
USF+WS
ANCH., AK

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

OCSEAP
RU 481

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

FW 7007

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SUPER GOOSE	A/C	US	US	770604	770606

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ___ MONTH ___

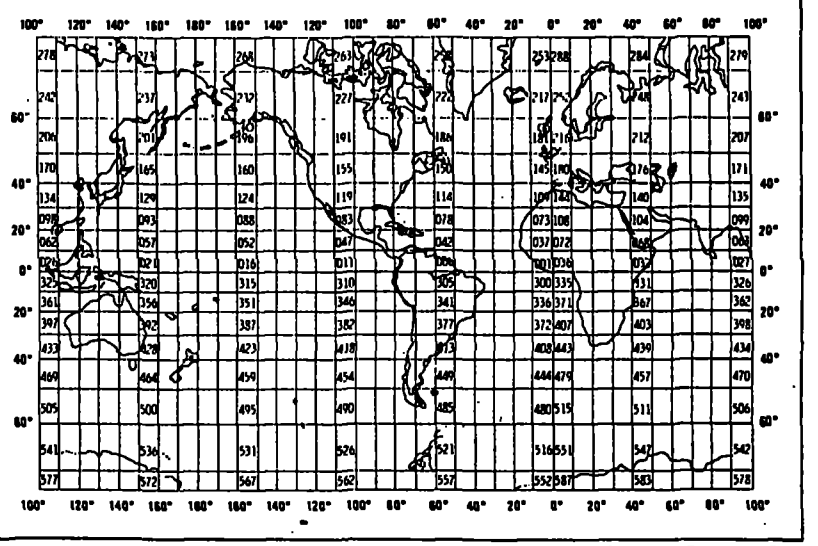
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

195 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 TELEPHONE NUMBER *(AND ADDRESS IF OTHER THAN IN ITEM 1)*

JOHN HALL

ACCESSION NUMBER 78-0054

DATA DOCUMENTATION FORM

TR 2818

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-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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JOHN HALL
USF+WS
ANCH. AK

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

OCSEAP
RU 481

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

FW 7008

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SHELBY D	SHIP	US	US	7706A	770624

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

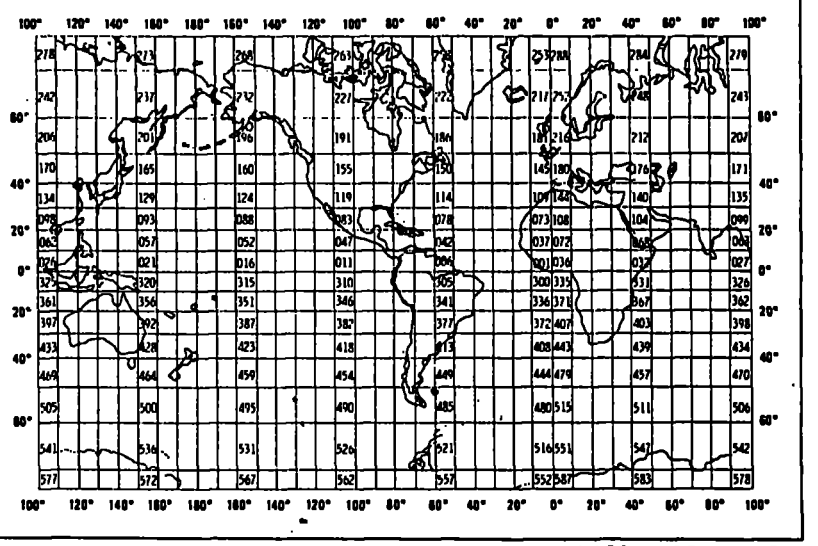
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

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

JOHN HALL

ACCESSION NUMBER 78-0054

TR 2819

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-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

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JOHN HALL
USF+WS
ANCH, AK

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

OCSEAP
RU 481

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

FW 7009

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SHELBY D	SHIP	US	US	770628	770630

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

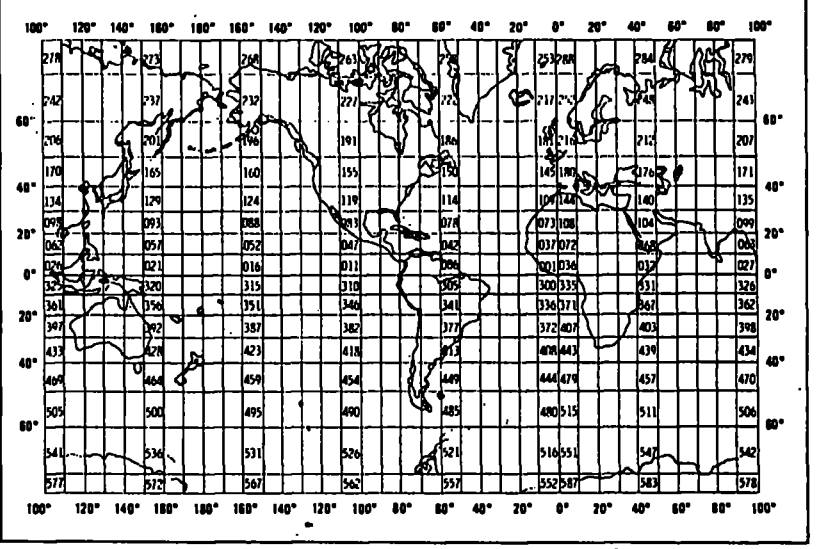
IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR___ MONTH___

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

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

JOHN HALL

ACCESSION NUMBER 78-0054

TR 2820

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-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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JOHN HALL
USF+WS
ANCH, AK

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

OCSEAP
RU 481

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

FW 7010

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SHELBY D	SHIP	US	US	770822	770829

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.

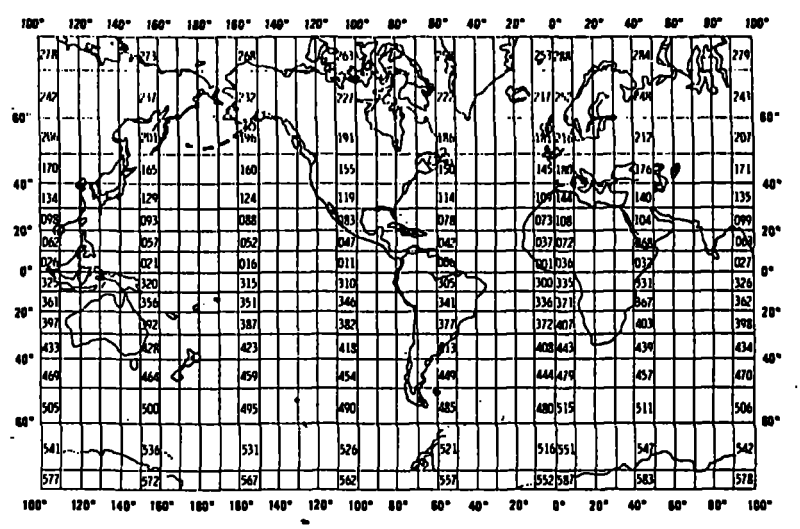
195

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

JOHN HALL

ACCESSION NUMBER 78-0054

TR 2821

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-R2651

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JOHN HALL
USF+WS
ANCH, AK

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

OCSEAP
RU481

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

FW 7011

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
TURBO BEAVER	A/C	US	US	770912	770912

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ____ MONTH ____

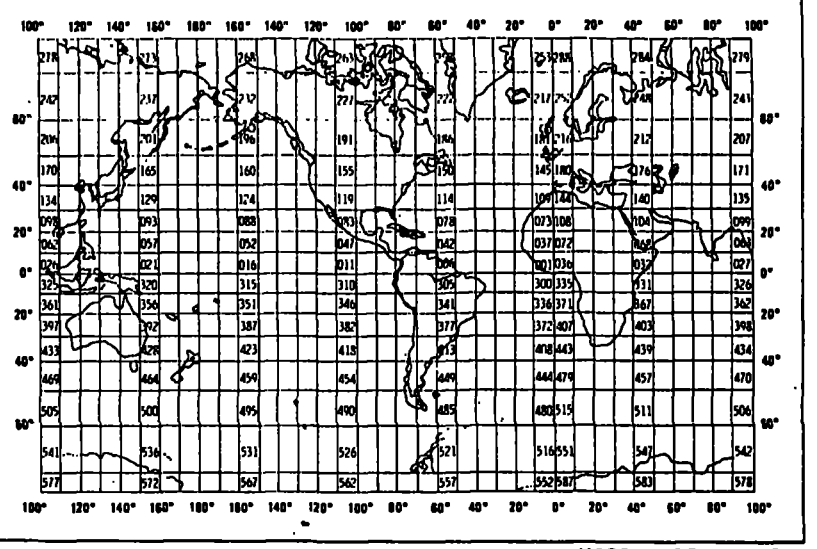
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

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

JOHN HALL

ACCESSION NUMBER 78-0054

DATA DOCUMENTATION FORM

TR 2822

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-R2651

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JOHN HALL
USF+WS
ANCH, AK

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

OCSEAP
RU 481

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

FW7012

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
SHELBY D	SHIP	US	US	770930	771007

8. ARE DATA PROPRIETARY?

☒ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR____ MONTH____

9. ARE DATA DECLARED NATIONAL PROGRAM (DNP)?
(I.E., SHOULD THEY BE INCLUDED IN WORLD DATA CENTERS HOLDINGS FOR INTERNATIONAL EXCHANGE?)

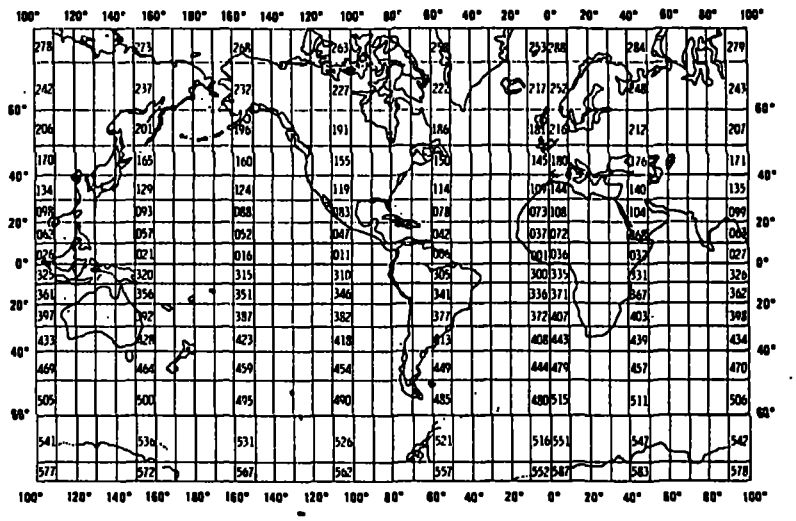
☒ NO ☐ YES ☐ PART (SPECIFY BELOW)

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

JOHN HALL

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

195 GENERAL AREA



NOAA FORM 24-13

USCOMM-DC 44289-P72

NUMBER 78-0054

DATA DOCUMENTATION FORM

TR2823

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-R2651

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JOHN HALL
USF&WS
ANCH. AK

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

OCSEAP
RU 497

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

FW7013

4. PLATFORM NAME(S)	5. PLATFORM TYPE(S) (E.G., SHIP, BUOY, ETC.)	6. PLATFORM AND OPERATOR NATIONALITY(IES)		7. DATES	
		PLATFORM	OPERATOR	FROM: MO/DAY/YR	TO: MO/DAY/YR
CAPE SARICHEF	?	US	US	770407	770527

8. ARE DATA PROPRIETARY?

☑ NO ☐ YES

IF YES, WHEN CAN THEY BE RELEASED FOR GENERAL USE? YEAR ___ MONTH ___

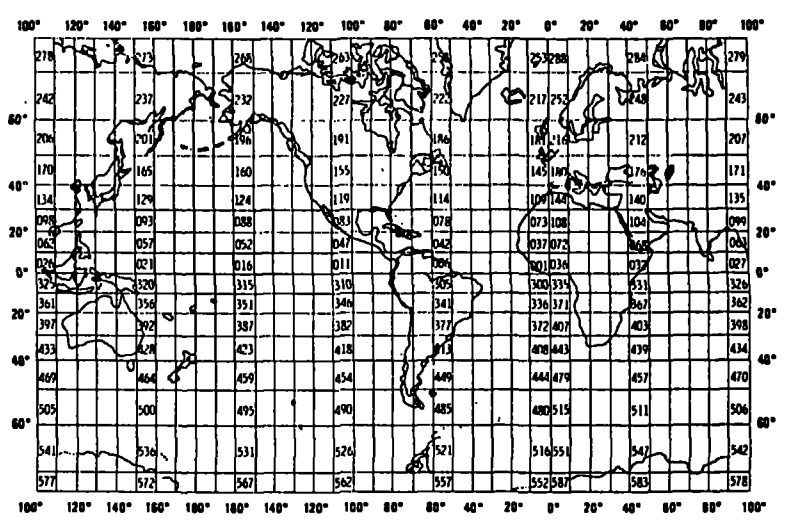
11. PLEASE DARKEN ALL MARSDEN SQUARES IN WHICH ANY DATA CONTAINED IN YOUR SUBMISSION WERE COLLECTED.

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

JOHN HALL

NOAA FORM 24-13

USCOMM-DC 44289-P72

```
L 'DUSE155.F027.T2810A.DATA' NONUM
 'DUSE155.F027.T2810A.DATA'
027TR28101000017400100017610132200
027TR28102000017400100017                602500N1470500W19981900003009
027TR28103000017400100017                                              1
027TR28104000017400100017                                                                2150
027TR28105000017400100019219020201  01 0031                                                  0
027TR28106000017400100017                20908054HUMP
027TR28101000017400100027611192330
027TR28102000017400100027                600000N1492500W19981800005012
027TR28103000017400100027                                   023505  030201                          0240
027TR28104000017400100027                                                                2100
027TR28105000017400100029221010501  01 0150
027TR28106000017400100027                20909204STEL
027TR28101000027400200037611200230
027TR28102000027400200037                595300N1483700W1998   0005012
027TR28103000027400200037                                   102207  030353                          0150
027TR28104000027400200037                                                                2080
027TR28105000027400200039218022001  08 0004
027TR28106000027400200037                20909104DALL
027TR28101000067400100047611222100
027TR28102000067400100047                600600N1480400W1998   0005012
027TR28103000067400100047                                   201354  610052                          0140
027TR28104000067400100047                                                                2600
027TR28105000067400100049219020201  29 0001
027TR28106000067400100047                20908004HUMP
027TR28101000077400100057611222230
027TR28102000077400100057                595700N1481500W19982400005012
027TR28103000077400100057                                   153305  03   5                          0150
027TR28104000077400100057                                                                2300
027TR28105000077400100059218022001  08 0006                                                    1
027TR28106000077400100057                20908004DALL
027TR28101000087400100067611222330
027TR28102000087400100067                595500N1483000W19982500005018
027TR28103000087400100067                                   253305  03   5                          0130
027TR28104000087400100067                                                                2100
027TR28105000087400100069218022001  08 0004                                                    0
027TR28106000087400100067                20909104DALL
027TR2811100000A7400100077701262041
027TR2811200000A7400100077                595900N1491900W5002   0100120
027TR2811300000A7400100077                                  5  03   0
027TR2811400000A7400100077                                                               2100
027TR2811500000A7400100079221010501  01 0001                                                  0
027TR2811600000A7400100077                20909107STEL
027TR28111000017400200087701762044
027TR28112000017400200087                595300N1492300W5002   0100120
027TR28113000017400200087                                  3  03
027TR28114000017400200087                                                                2100
027TR28115000017400200089221010501  01 0001                                                  0
027TR28116000017400200087                21909104STEL
027TR28111000017400200097701262044
027TR28112000017400200097                595300N1492300W5002   0100120
027TR28113000017400200097                                  5
027TR28114000017400200097                                                                2100
027TR28115000017400200099221010501  01 0001                                                  0
027TR28116000017400200097                21909104STEL
027TR28111000017400300107701262045
027TR28112000017400300107                595300N1492300W5002   0100120
027TR28113000017400300107
027TR28114000017400300107                                                                2100
027TR28115000017400300109221010501      0002                                               0
027TR28116000017400300107                21909104STEL
027TR28111000037400100117701262133
!
```

```
IEN1197A 30000X 'STEP'.
    AT 290 IN FX027A

?
NORMAL EOJ

IEN1184A 38324X 'FINISH' RAISED.
    AT 310 IN FX027A

?INTERPRET TIME 0.72 MINS
TOTAL TIME 0.74 MINS
READY
L 'DUSE155.F02Z.T2810B.DATA'    NONUM
 'DUSE155.F027.T2810B.DATA'
027TR2810200001740010001761013220060250ON1470500W1998190000300 9
027TR2810300001740010001761013220060250ON1470500W                1
027TR2810400001740010001761013220060250ON1470500W                                 2150
027TR28105000017400100019219020201   01  0031                                         0
027TR28106000017400100 01          20908054HUMP
027TR2810200001740010002761119233060000ON1492500W1998180000501 2
027TR2810300001740010002761119233060000ON1492500W023505   030201                          0240
027TR2810400001740010002761119233060000ON1492500W                                 2100
027TR28105000017400100029221010501   01  0150
027TR281060000174001000 2          20909204STEL
027TR2810200000274002000376112002305953O0N1483700W1998    0005012
027TR2810300000274002000376112002305953O0N1483700W102207   030353                          0150
027TR2810400000274002000376112002305953O0N1483700W                                 2080
027TR28105000002740020003921802200 1   08  0004
027TR281060000027400200 03          20909104DALL
027TR2810200000674001000476112221006006O0N1480400W1998    0005012
027TR2810300000674001000476112221006006O0N1480400W201354   610052                          0140
027TR2810400000674001000476112221006006O0N1480400W                                 2600
027TR28105000006740010004921902020 1   29  0001
027TR281060000067400100 04          20908004HUMP
027TR2810200000774001000576112222305957O0N1481500W199824 00005012
027TR2810300000774001000576112222305957O0N1481500W153305   03    5                          0150
027TR2810400000774001000576112222305957O0N1481500W                                 2300
027TR28105000007740010005921802200 1   08  0006                                         1
027TR281060000077400100 05          20908004DALL
027TR2810200000874001000676112223305955O0N1483000W1998250000501 8
027TR2810300000874001000676112223305955O0N1483000W253305   03    5                          0130
027TR2810400000874001000676112223305955O0N1483000W                                 2100
027TR28105000008740010006921802200 1   08  0004                                         0
027TR281060000087400100 06          20909104DALL
027TR2811200000A7400100077701262041595900N1491900W5002    0100120
027TR2811300000A7400100077701262041595900N1491900W      5   03    0
027TR2811400000A7400100077701262041595900N1491900W                                 2100
027TR2811500000A7400100079221010501   01  0001                                         0
027TR2811600000A740010007          20909107STEL
027TR2811200000174002000877017620445953O0N1492300W5002    0100120
027TR2811300000174002000877017620445953O0N1492300W      3   03
027TR2811400000174002000877017620445953O0N1492300W                                 2100
027TR2811500000174002000892210105 01   01  0001                                         0
027TR2811600000174002000 8          21909104STEL    .
027TR2811200000174002000977012620445953O0N1492300W5002    0100120
027TR2811300000174002000977012620445953O0N1492300W      5
027TR2811400000174002000977012620445953O0N1492300W                                 2100
027TR2811500000174002000992210105 01   01  0001                                         0
027TR2811600000174002000 9          21909104STEL
027TR2811200000174003001077012620455953O0N1492300W5002    0100120
027TR2811300000174003001077012620455953O0N1492300W
027TR2811400000174003001077012620455953O0N1492300W                                 2100
027TR2811500000174003001092210105 01       0002                                         0
027TR28116000017400300 10          21909104STEL
027TR2811200000374001001177012621335941O0N1480000W5002    0100120
027TR2811300000374001001177012621335941O0N1480000W      3   41                                20
027TR2811400000374001001177012621335941O0N1480000W                                 2275
027TR28115000003740010011921802180 1   26  0004                                         0
027TR28116000037400100 11          20909204HARP
027TR2811200000374002001277012621475943O0N1475300W5002    0100120
027TR2811300000374002001277012621475943O0N1475300W      3   41
027TR2811400000374002001277012621475943O0N1475300W                                 2100
027TR28115000003740020012922101050 1   01  0001                                         0
027TR28116000037400200 12          20909204STEL
027TR2811200000474001001377012621505955O0N1472800W5002    0100120
027TR2811300000474001001377012621505955O0N1472800W      3   41
027TR2811400000474001001377012621505955O0N1472800W                                 2450
027TR28115000004740010013922101050 1   31  1250                                         0
027TR28116000047400100 13          20909204STEL
027TR2811200000474002001477012622175952O0N1470000W5002    0100120
027TR2811300000474002001477012622175952O0N1470000W      4   41                                22
027TR2811400000474002001477012622175952O0N1470000W                                 2239
027TR28115000004740020014921802180 1   26  0001                                         0
027TR28116000047400200 14          20909204HARP
027TR2811200000474003001577012622205946O0N1465900W5002    0100120
027TR2811300000474003001577012622205946O0N1465900W      4   41                                38
027TR2811400000474003001577012622205946O0N1465900W                                 2130
027TR28115000004740030015921802180 1   01  0002                                         0
027TR28116000047400300 15          20909204HARP
027TR2811200000474004001677012622245939O0N1465800W5002    0100120
027TR2811300000474004001677012622245939O0N1465800W      4   41                                62
027TR28114000004740040016770126222459!
READY
```

RECORD FORMAT DESCRIPTION

RECORD NAME Location (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '027'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '1'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC station Number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting purposes
Starting Date-Time					
Year	25	2	Bytes	I2	00-99
Month	27	2	Bytes	I2	01-12
Day	29	2	Bytes	I2	01-31 G.M.T.
Hour	31	2	Bytes	I2	00-23
Minute	33	2	Bytes	I2	00-59
Starting Latitude Degrees	35	2	Bytes	I2	30 -80
Minutes	37	2	Bytes	I2	00 -59
Seconds	39	2	Bytes	I2	00 -59
Hemisphere	41	1	Bytes	A1	'N' ~~or 'S'~~
Starting Longitude Degrees	42	3	Bytes	I3	120 - 178
Minutes	45	2	Bytes	I2	00 -59
Seconds	47	2	Bytes	I2	00 -59
Hemisphere	49	1	Bytes	A1	~~'E' or~~ 'W'
Elapsed Time Hours	50	2	Bytes	I2	00 - 99
Minutes	52	2	Bytes	I2	00 -59
Distance Along Track	54	5	Bytes	I5	Nautical Miles
Completeness Code	59	1	Bytes	A1	(use file 027 Completeness Code)

RECORD FORMAT DESCRIPTION

RECORD NAME Location Continued (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Ending Latitude					
Degrees	60	2	Bytes	I2	80 - 84
Minutes	62	2	Bytes	I2	00 - 59
Seconds	64	2	Bytes	I2	00 - 59
Hemisphere	66	1	Bytes	A1	'N' ~~or 'S'~~
Ending Longitude Degrees	67	3	Bytes	I3	120 - 178
Minutes	70	2	Bytes	I2	00 - 59
Seconds	72	2	Bytes	I2	00 - 59
Hemisphere	74	1	Bytes	A1	~~'E' or~~ 'W'
Blank	75	6	Bytes	6X	

RECORD FORMAT DESCRIPTION

RECORD NAME Environmental 1 (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '027'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '2'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC station number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting
Sighting Date-Time,					
Year	25	2	Bytes	I2	00-99
Month	27	2	Bytes	I2	01-12
Day	29	2	Bytes	I2	01-31 G.M.T.
Hour	31	2	Bytes	I2	00-23
Minute	33	2	Bytes	I2	00-59
Sighting Latitude, Degrees	35	2	Bytes	I2	Same as other
Minutes	37	2	Bytes	I2	
Seconds	39	2	Bytes	I2	
Hemisphere	41	1	Bytes	A1	'N' ~~or 'S'~~
Sighting Longitude Degrees	42	3	Bytes	I3	
Minutes	45	2	Bytes	I2	Same
Seconds	47	2	Bytes	I2	
Hemisphere	49	1	Bytes	A1	'E' or 'W'
Platform Type Code	50	1	Bytes	A1	
Platform I.D. Code	51	3	Bytes	I3	Originator's internal code. File 027 Platform I. D. Code
Platform Direction	54	3	Bytes	I3	Planned course of platform in whole degrees.
Altitude	57	4	Bytes	I4	Whole meters

RECORD FORMAT DESCRIPTION

RECORD NAME Environmental 1 Continued (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Air Speed	61	3	Bytes	I3	Whole knots
Tide Range	64	3	Bytes	A3	*Feet to tenths
Current Speed	67	2	Bytes	I2	Whole knots 00 - 05
Current Direction	69	3	Bytes	I3	Whole degrees true 000-359
Ice Codes,					
Type Code	72	1	Bytes	A1	(use File 027 Type Code)
Coverage Codes,					
Octas of thin ice	73	1	Bytes	A1	(use File 027 Coverage Code)
Octas of moderate ice	74	1	Bytes	A1	(use File 027 Coverage Code)
Octas of heavy ice	75	1	Bytes	A1	(use File 027 Coverage Code)
Ice Characteristics Code,					
Of the second greatest coverage	76	1	Bytes	A1	(use File 027 Ice Characteristics Code)
Of the greatest coverage	77	1	Bytes	A1	(use File 027 Ice Characteristics Code)
Deformation Code	78	1	Bytes	A1	(use File 027 Deformation Code)
Transect Width Code	79	1	Bytes	A1	(use File 027 Transect Width Code)
Blank	80	1	Bytes	1X	

* Tide Height - Given in tenths of the Diurnal Range for nearest prediction location. Ref. Tide Tables - High and Low water predictions, National Ocean Survey, NOAA, U.S. Dept. Of Commerce. This provides information as to the actual stage of the tide.

Example

If the diurnal range for a given area is 20 feet and the predicted height + is eight feet for a falling tide, then the coded entry would be (-04).

+ See page 185-186 of the Tide Tables for computation of predicted height for any time.

RECORD FORMAT DESCRIPTION

RECORD NAME Environmental 2 (Marine Mammal Sighting)

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14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '027'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '3'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC station number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting
Sighting Date-Time,					
Year	25	2	Bytes	I2	00-99
Month	27	2	Bytes	I2	01-12
Day	29	2	Bytes	I2	01-31 G.M.T.
Hour	31	2	Bytes	I2	00-23
Minute	33	2	Bytes	I2	00-59
Sighting Latitude,					
Degrees	35	2	Bytes	I2	Same
Minutes	37	2	Bytes	I2	
Seconds	39	2	Bytes	I2	
Hemisphere	41	1	Bytes	A1	'N' ~~or 'S'~~
Sighting Longitude,					
Degrees	42	3	Bytes	I3	
Minutes	45	2	Bytes	I2	Same
Seconds	47	2	Bytes	I2	
Hemisphere	49	1	Bytes	A1	~~'E' or~~ 'W'
Wind Speed	50	2	Bytes	I2	Whole knots 00-70
Wind Direction	52	3	Bytes	I3	Whole degrees 000-359
Visibility	55	1	Bytes	A1	WMO 4300
Cloud Type Code	56	1	Bytes	A1	WMO 0500

RECORD FORMAT DESCRIPTION

RECORD NAME Environmental 2 Continued (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Cloud Amount Code	57	1	Bytes	A1	WMO Code 2700
Weather Code	58	2	Bytes	A2	WMO Code 4677
Air Temperature	60	3	Bytes	I3	Whole degrees (if negative, enter minus sign adjacent and to the left of the temperature value) Celsius
Sea State Code	63	1	Bytes	A1	WMO Code 3700
Water Surface Temperature	64	4	Bytes	I4	Degrees Celsius to tenths
Water Color Code	68	2	Bytes	A2	Forel-Ule Scale
Surface Visibility	70	1	Bytes	A1	(use File 027 Surface Visibility Code)
Barometric Pressure	71	4	Bytes	I4	Millibars
Inclinometer Angle	75	2	Bytes	I2	Whole degrees
Water Depth	77	4	Bytes	I4	Whole meters

RECORD FORMAT DESCRIPTION

RECORD NAME Sighting 1 (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '027'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '4'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC station number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting
Sighting Starting Date-Time					
Year	25	2	Bytes	I2	00-99
Month	27	2	Bytes	I2	01-12
Day	29	2	Bytes	I2	01-31 G.M.T.
Hour	31	2	Bytes	I2	00-23
Minute	33	2	Bytes	I2	00-59
Sighting Latitude,					
Degrees	35	2	Bytes	I2	
Minutes	37	2	Bytes	I2	Same
Seconds	39	2	Bytes	I2	
Hemisphere	41	1	Bytes	A1	'N' ~~or 'S'~~
Sighting Longitude,					
Degrees	42	3	Bytes	I3	Same
Minutes	45	2	Bytes	I2	
Seconds	47	2	Bytes	I2	
Hemisphere	49	1	Bytes	A1	~~'E' or~~ 'W'
Distance Surveyed	50	6	Bytes	I6	Kilometers to hundredths
Area Surveyed	56	5	Bytes	I5	Whole kilometers squared
Mammal Activity	61	2	Bytes	A2	(use File 027 Mammal Activity Code)

RECORD FORMAT DESCRIPTION

RECORD NAME Sighting 1 Continued (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM - 1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH		17. ATTRIBUTES	18. USE AND MEANING
		NUMBER	UNITS		
Number of Observers	63	1	Bytes	I1	
Collection Method Code	64	1	Bytes	A1	(use File 027 Collection Method Code)
Group Size	65	3	Bytes	I3	Whole value 001 - 999
Animal Movement Direction	68	3	Bytes	I3	Whole degrees 000 - 360
Units Code for Sighting Distance	71	1	Bytes	A1	(use File 027 Units Code for Sighting Distance)
Distance from Platform	72	3	Bytes	I3	Whole units (as described in unit code)
Bearing to Animals	75	3	Bytes	I3	Whole degrees 000 - 360
Platform Heading	78	3	Bytes	I3	Whole degrees 000 - 360

RECORD FORMAT DESCRIPTION

7-15-72
10a

RECORD NAME Sighting 2 (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '027'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '5'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC station number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting
Taxonomic Code	25	10	Bytes	5A2	
Subspecies Code	35	2	Bytes	A2	
Behavior Code	37	2	Bytes	A2	(use File 027 Behavior Code)
Confidence Code	39	1	Bytes	A1	(use File 027 Confidence Code)
Number of Individuals	40	5	Bytes	I5	
Confidence Code	45	1	Bytes	A1	(use File 027 Confidence Code)
Number of Adults	46	5	Bytes	I5	
Confidence Code	51	1	Bytes	A1	(use File 027 Confidence Code)
Number of Pups	52	5	Bytes	I5	
Confidence Code	57	1	Bytes	A1	(use File 027 Confidence Code)
Total Subadults	58	5	Bytes	I5	
Confidence Code	63	1	Bytes	A1	(use File 027 Confidence Code)
Total Adult Males	64	5	Bytes	I5	
Confidence Code	69	1	Bytes	A1	(use File 027 Confidence Code)
Total Adult Females	70	5	Bytes	I5	
Marked Animal Code	75	1	Bytes	A1	(use Decision Code)
Static/Telemetry Code	76	1	Bytes	A1	(use File 027 Static/Telemetry Code)
Decomposition Stage Code	77	1	Bytes	A1	(use file 027 Decomposition Stage Code

RECORD FORMAT DESCRIPTION

RECORD NAME Sighting 2 (cont'd) (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Completeness Code	78	1	Bytes	A1	For individual sighting (Use File 027 Completeness Code)
Blank	79	2	Bytes	2X	

RECORD FORMAT DESCRIPTION

RECORD NAME Sighting 3 (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '027'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '6'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC station number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting
Distance from Ice Edge	25	5	Bytes	I5	Nautical miles to tenths 0,000.1 - 1.000.1
Distance from Shore	30	5	Bytes	I5	Nautical miles to tenths
Identification Reliability	35	1	Bytes	A1	Use File 027 Identification Reliability Code
Flare Area Code	36	1	Bytes	A1	
Debris Code	37	1	Bytes	A1	
Text	38	9	Bytes	9A1	
Blank	47	34	Bytes	34X	

RECORD FORMAT DESCRIPTION

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RECORD NAME Text (Marine Mammal Sighting)

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN Bytes (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '027'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '7'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC station number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting
Text	25	56	Bytes	56A1	Any alphanumeric information

5-21-77

RECORD FORMAT DESCRIPTION

RECORD NAME: *ICE (Marine Mammal Sighting)*

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN *Bytes* (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
File Type	1	3	Bytes	A3	Always '027'
File Identifier	4	6	Bytes	A6	
Record Type	10	1	Bytes	I1	Always '8'
Flight/Station Number	11	10	Bytes	A10	Analogous to NODC station number
Sequence Number	21	4	Bytes	I4	Ascending order for sorting
Sighting Date-Time,					
Year	25	2	Bytes	I2	00-99
Month	27	2	Bytes	I2	01-12
Day	29	2	Bytes	I2	01-31 — G.M.T.
Hour	31	2	Bytes	I2	00-23
Minute	33	2	Bytes	I2	00-59
Sighting Latitude,					
Degrees	35	2	Bytes	I2	
Minutes	37	2	Bytes	I2	
Seconds	39	2	Bytes	I2	
Hemisphere	41	1	Bytes	A1	'N' or 'S'
Sighting Longitude,					
Degrees	42	3	Bytes	I3	
Minutes	45	2	Bytes	I2	
Seconds	47	2	Bytes	I2	
Hemisphere	49	1	Bytes	A1	'E' or 'W'
Ice Codes,					
Type Code	50	1	Bytes	A1	(use File 027 Type Code)
Octas of Thin Ice	51	1	Bytes	A1	(use File 027 Coverage Code)

RECORD FORMAT DESCRIPTION

RECORD NAME *ICE (Marine Mammal Sighting) [cont'd]*

14. FIELD NAME	15. POSITION FROM-1 MEASURED IN *Bytes* (e.g., bits, bytes)	16. LENGTH NUMBER	16. LENGTH UNITS	17. ATTRIBUTES	18. USE AND MEANING
Characteristics of Thin Ice	*52*	*1*	*Bytes*	*A1*	*(use File 027 Ice Characteristics Code)*
Octas of Moderate Ice	*53*	*1*	*Bytes*	*A1*	*(use File 027 Coverage Code)*
Characteristics of Moderate Ice	*54*	*1*	*Bytes*	*A1*	*(use File 027 Ice Characteristics Code)*
Octas of Heavy Ice	*55*	*1*	*Bytes*	*A1*	*(use File 027 Coverage Code)*
Characteristics of Heavy Ice	*56*	*1*	*Bytes*	*A1*	*(use File 027 Ice Characteristics Code)*
Deformation Code	*57*	*1*	*Bytes*	*A1*	*(use File 027 Deformation Code)*
Transect Width Code	*58*	*1*	*Bytes*	*A1*	*(use File 027 Transect Width Code)*
Blank	*59*	*22*	*Bytes*	*22X*	

B! 3:16 7800054

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA AND INFORMATION SERVICE
Washington, D.C. 20235
National Oceanographic Data Center

December 5, 1979 D781/JJA

TO: RD/RFx41 - Francesca Cava

FROM: OA/D781 - Jim Audet

SUBJECT: Crunch Tape effort for Hall (RU481) 027 data

As we complete our work for a master (crunch) tape for 027 data (mammal sighting), additional problems have been noted for Hall's data sets that have been checked some time ago. This is the result of more comprehensive data checking problems and a closer review of platform and survey data information.

Enclosed are the check run results for both data shipments from Hall as follows:

File IDs FW5001-FW6999 (NODC tracks 2285-2337)
File IDs FW6079-FW7013 (NODC tracks 2810-2823)
The first group of data were originally submitted in a non-OCSEAP format. Conversion to 027 was based on the assumption that these data sets were transect data; corrections were later made that changed the data to sightings only (my February 13, 1979 memo to you). This change included deletion of all record type 1 entires.

In our latest review of these data the following changes or errors have been noted and corrected:

General changes - bearings converted from 360 to 000 and airspeeds of 000 changed to blanks. Blanks in the hour field for sighting times are also noted but can be ignored as they are not mandatory when sightings rather than census data are submitted.

FW5002 - deleted hour 2650 for station 12071

FW5004 - changed year 76 to 75 for station 99999

FW5008 - deleted station 26271 - duplicate of some station/platform in FW5004 which was retained.

FW5011 - changed month from 08 to 07 for stations 00771, 03274 and 04571

FW5013 - changed year from 85 to 75 for station 11171

FW5015 - changed date from 751008 to 750810 for station 00273 and year 74 to 75 for station 21471

FW6008 - deleted station 00174 - duplicate of station 02474 in FW6017 which was retained.

FW6010 - deleted station 02574 - duplicate of station 00174 in FW6019 which was retained

FW6017 - changed year from 75 to 76 for station 01074

FW6030 - changed platform from 1998 to 1210 for station 99974 (two sightings)

FW6068 - added date 760600 to missing date field

FW6999 - changed platform from 1998 to blank to match other unknowns

Other errors noted in the enclosure that need additional information from the investigator include the following:

FW5006 - several blank 'number of individual' fields

FW6030 - blank taxonomic field, water depth of zero, and identification reliability code of '3', which is not an acceptable value.

Surface visibility codes of 7-9 are not acceptable values occurred in the following:

FW6012. 6017, 6018, 6019, 6020, 6027, 6030, 6032, 6033, 6051 and 6068.

Some data files that were identified earlier as separate tracks due to platform codes, survey dates or sorting errors have been merged with other tracks. The following tracks will be deleted from the NODC portion of the tracking system:

2286 - part of FW5001
2292 and 2293 - FW5008
2298 - part of FW5012
2307 - FW5025
2316 - FW6008
2326 - FW6029
2336 - part of FW6999

On the positive side, all taxonomic codes were found acceptable and converted to the proper NODC taxonomic codes as part of the crunch tape effort.

For the second group of data, which were submitted in the file type 027 format, the following general comments apply to nearly all of

the 14 tracks. This is ok - shift has been done - confidence code missing - col 45 - Rec Type 5 (cols 40-44)

- Only 4 bytes instead of 5 were used to enter 'number of individuals'; all counts are a magnitude too high. These values will be shifted one column to the right during processing. This is a particularly critical error as it impacts on mammal count and density product requests. ?

- Inclinometer angles are greater than 45° for many observations - we will leave as is unless otherwise instructed

- Marked animal codes are numeric - should be Y or N for yes/no. I assume that 0 = N and 1 = Y but cannot determine what the values of 2 and 8 mean that are coded in several data sets (e.g. FW7010). We need information from the investigator, as DDF does not define this code.

- Missing hours are noted for many sighting times - these can be ignored as they are not mandatory for individual sightings

Rec 3 - cols 60-62

- Air temperatures are too high - this is the result of investigator inserting a decimal place in the field where the 027 format indicates whole degrees centigrade. We will shift these values to the right one column and drop the tenths values. Except for a couple values (52, 53, etc) it looks like these have been moved - temp ranges usually 3-5, 11-16, etc. ?

(13)

Some data sets have other errors that need clarification as follows:

FW7001 - Identification relability code of 5 is not an acceptable code.

Glare area code of 9 is not acceptable.

FW7005 - Surface water temperature and barametric pressure values are too high.

FW7006 - record '2' data shifted one column - will correct this. Some station numbers need corrected or resorted. One record type '5' has a blank taxonomic field.

FW7007 - Wind directions coded 00S - should these be 005?

FW7013 - Platform ID coded --F - not an acceptable code. Imbedded zeros in 'number of individuals' code? Behavior code of 0-?

All taxonomic codes for this data submission are acceptable. These data were submitted in the more recent NODC codes.

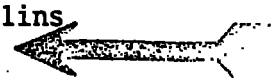
Since the taxonomic codes are correct and the more important parameters are correct or will be corrected during final processing, these data will be incorporated in the crunch tape for 027 data and will be available for data requests. We will complete any of the above corrections as they are made available from the investigator or your office.

As I am not certain of the status of this investigator's research unit, I am forwarding all check run results to your office for the appropriate action.

Thank you for your cooperation.

Enclosures

cc: W. Fischer
M. Crane
E. Collins
C. Noe



RFx41-337/481-0373

Mr. John Hall
USF&WS Ecological Services
2800 Cottage Way, RM. D-2727
Sacramento, California 95825

Dear John:

Enclosed please find a letter and a computer printout from Mr. Jim Audet. These documents represent questions or errors NODC found in the marine mammal sighting data submitted for USF&WS's OCSEAP research units 337 & 481. As you can see there are quite a few questions that must be answered before we can consider this data "finalized". Although I realize you no longer have an active OCSEAP contract, other OCSEAP investigators and OCSEAP management are utilizing the Digital Data Base. However, until these questions are resolved your data is placed in an "in hold" status and subject to question if accessed.

I would very much appreciate it therefore if you could review these enclosures and return them to me with any comments or corrections you may have. If you have any questions concerning this information, if I may be of any assistance or if you are unable to respond to this request I urge you to contact me. Thank you for your assistance.

Sincerely,

Francesca Cava
Information Coordinator

Enclosures: 2

cc:
C. Lensink (w/copy of Audet memo)
L. Jarvela (w/copy of Audet memo)
S. Swanner (w/copy of Audet memo)
P. Gould (w/copy of Audet memo)
J. Audet

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administrati
ENVIRONMENTAL DATA AND INFORMATION SERVICE
Washington, D.C. 20235
National Oceanographic Data Center

December 5, 1979 D781/JJA

TO: RD/RFx41 - Francesca Cava

FROM: OA/D781 - Jim Audet

SUBJECT: Crunch Tape effort for Hall (RU481) 027 data

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As I am not certain of the status of this investigator's research unit, I am forwarding all check run results to your office for the appropriate action.

Thank you for your cooperation.

Enclosures

cc: W. Fischer
M. Crane
E. Collins
C. Noe

RFx41-DAT-1015

U.S. DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
Outer Continental Shelf Environmental
Assessment Program
Bering Sea-Gulf of Alaska Project Office
P. O. Box 1808
Juneau, Alaska 99802

Elaine

DATE : September 25, 1978

TO : OA/D781 - Jim Audet

FROM : RD/RFx41 - Francesca Cava FMCava

SUBJECT: Data Submissions for R.U. 481

The following lists the answers to your attached memo concerning data submissions for R.U. 481: 78-0054 7 2810-2823

2810 1. The date 761013 in file I.D. FW6079 is correct. This was a miscellaneous sighting included in this data submission although not surveyed during the given cruise dates.

2811 2. The longitude for FW7001, sequence 049 is 146 01' not 71'.

2814 3. Delete the single station FW7056 between FW7002 and FW7003.

4. File FW7004 was incorrectly listed on the documentation there is no file FW7004.

I apologize for this taking so long. It appears that the P.I. has been in the field and therefore out of contact all summer. I hope this clears up any remaining problems with these data.

cc:
S. Swanner
J. Hall

5/10

Elaine -

See enclosed May 1 memo.

We need a response from JPO or investigator (Hall) concerning several corrections for 78-0054. I think we have all agreed on the proper sort and corrections to different records (and deletions).

Please note that some problems apply to 77-0541

Jim

RU 481
78-0054

JIM
THIS DATA SET HAS
NOT BEEN DOWNSTAIRS

John A

77-0541
Stein reformat?

Accepted Feb/March 78
both sets

Both logged in May 10, 1978

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA SERVICE
Washington, D.C. 20235
National Oceanographic Data Center
Washington, D.C. 20235

D781/JJA

Date: May 1, 1978

To : Francesca Cava, Data Manager
Juneau Project Office

From: Jim Audet
NODC OCSEAP Data Coordinator

Subj: Data Submissions for John Hall, RU 481

78-0054

77-0541

We have reviewed the 027 data sets received from John Hall, file IDs FW5001, etc. (RU 337) and FW6079, etc. (RU 481). It is apparent that these data do not actually include transect information but rather only individual sightings. Therefore the location record (record type 1) which indicates start and end positions and times, distance along tracks, etc. cannot be used for these data. It is suggested that this record be deleted for these data and the sighting date be moved to other appropriate records where it is missing (record types 2, 3, and 4). The sighting position, now only recorded in record type 2, will be added to record types 3 and 4 (see attached example).

The use of sequence numbers for these data should be explained. For these particular data submissions, duplicate sequence numbers for each station can be handled since only one of each record type is available for each station. Based on station number, record type and sequence number, a proper sort can be provided. However, if more than one data or text record were included for a station, records could be mixed for retrieval and output listings. It is therefore suggested that for future data submissions, sequence values be numerically increased from the first record to the last within a station. These numbers need not start with 0001 or be consecutive, but must be in ascending order. The same sequence scheme can be repeated for the next station.

These modifications described above, ~~including resequencing,~~ will be done by NODC during processing. Although data checking procedures are not completed, other problems already noted are as follows:

Given to Amy to take care of 5/15.

- date for file ID FW6079 (761013) probably is an error since cruise dates for this file are 761118 to 761124.

- longitude for FW7001, sequence 049 is 146° 71'00"W

- a single station for FW7056 is inserted between FW7002 and FW7003 but is not included in the 'Survey Data Schedule" attached to the DDF

- no file FW7004 data were found on the tape. Inclusive dates listed on the 'Data Schedule" (770507-770513) are found however within the file FW7005.

It should be noted that without transect information, NODC is limited to indicating selected species for data requests and product development. The format was designed to include transect information allowing for reconstruction of ship and aircraft tracks with sightings indicated along each track or track segment (station). With this additional information, it is feasible to provide density data or areas where no mammals were sighted.

We will continue to process these data but will be unable to complete processing until the above problems are resolved.

Thank you for your help.

Enclosure

cc: with enclosure

W. Fischer
M. Crane
D. Dale
E. Collins
R. Stein

UNITED STATES DEPARTMENT OF COMMERCE
National Oceanic and Atmospheric Administration
ENVIRONMENTAL DATA SERVICE
National Oceanographic Data Center
Washington, D.C. 20235

D781/JJA

Date: May 1, 1978

To : Francesca Cava, Data Manager
Juneau Project Office

From: Jim Audet
NODC OCSEAP Data Coordinator

Subj: Data Submissions for John Hall, RU 481

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These modifications described above, including resequencing, will be done by NODC during processing. Although data checking procedures are not completed, other problems already noted are as follows:

date for file ID FW6079 (761013) probably is an error since cruise dates for this file are 761118 to 761124.

longitude for FW7001, sequence 049 is 146° 71'00"W

a single station for FW7056 is inserted between FW7002 and FW7003 but is not included in the 'Survey Data Schedule" attached to the DDF

no file FW7004 data were found on the tape. Inclusive dates listed on the 'Data Schedule" (770507-770513) are found however within the file FW7005.

It should be noted that without transect information, NODC is limited to indicating selected species for data requests and product development. The format was designed to include transect information allowing for reconstruction of ship and aircraft tracks with sightings indicated along each track or track segment (station). With this additional information, it is feasible to provide density data or areas where no mammals were sighted.

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Thank you for your help.

Enclosure

cc: with enclosure

W. Fischer
M. Crane
D. Dale
E. Collins
R. Stein

MODIFICATIONS TO FILE ID FW6079

Type	File I.D.	Rec.	STA #	SEQ	761118?	Lat / Long			Proposed Seq.
→ 027	FW6079	1	0000174001	0001	~~7610132200~~				0001
027	FW6079	2	0000174001	0001	↓	602500N1470500W19981900003009			0002
027	FW6079	3	0000174001	0001	↓	↓ ↓	1		0003
027	FW6079	4	0000174001	0001	↓	↓ ↓		2150	0004
027	FW6079	5	0000174001	0001	9219020201	01 0031		0	0005
027	FW6079	6	0000174001	0001		2090654HLFF			0006
027	FW6079	1	0000174001	0002	7611152300				0007
027	FW6079	2	0000174001	0002	↓	600000N1492500W19981800005012			0008
027	FW6079	3	0000174001	0002	↓	↓ ↓	023505 030201	0240	0009
027	FW6079	4	0000174001	0002	↓	↓ ↓		2100	0010
027	FW6079	5	0000174001	0002	9221010501	01 0150			0011
027	FW6079	6	0000174001	0002		20909204STFL			0012
027	FW6079	1	0000274002	0003	7611260230				1
027	FW6079	2	0000274002	0003	↓	595300N1485700W1998 0005012			2
027	FW6079	3	0000274002	0003	↓	↓ ↓	102207 030555	0150	3
027	FW6079	4	0000274002	0003	↓	↓ ↓		2080	4
027	FW6079	5	0000274002	0003	9218022001	08 0004			5
027	FW6079	6	0000274002	0003		20909104DALL			6
027	FW6079	1	0000674001	0004	7611222100				1
027	FW6079	2	0000674001	0004	↓	600600N1480400W1995 0005012			2
027	FW6079	3	0000674001	0004	↓	↓ ↓	201354 610052	0140	3
027	FW6079	4	0000674001	0004	↓	↓ ↓		2500	4
027	FW6079	5	0000674001	0004	9219020201	29 0001			5
027	FW6079	6	0000674001	0004		20909CC4HLNF			6
027	FW6079	1	0000774001	0005	7611222230				1
027	FW6079	2	0000774001	0005	↓	595700N1461500W19982400005012			2
027	FW6079	3	0000774001	0005	↓	↓ ↓	153305 03 3	0150	3
027	FW6079	4	0000774001	0005	↓	↓ ↓		2500	4
027	FW6079	5	0000774001	0005	9218022001	08 0008		1	5
027	FW6079	6	0000774001	0005		20908104DALL			6
027	FW6079	1	0000874001	0006	7611222330				1
027	FW6079	2	0000874001	0006	↓	595500N1483000W19982500005018			2
027	FW6079	3	0000874001	0006	↓	↓ ↓	253305 03 5	0130	3
027	FW6079	4	0000874001	0006	↓	↓ ↓		2100	4
027	FW6079	5	0000874001	0006	9218022001	08 0004		0	5
027	FW6079	6	0000874001	0006		20909104DALL			6
027	FW7001	1	0000A74001	0007	7701262041				
027	FW7001	2	0000A74001	0007		595900N1491900W5002	0100120		
027	FW7001	3	0000A74001	0007			5 03 0		
027	F[illegible]C01	4	0000A74001	0007				2100	

March 15, 1978
D7514-E.V. Collins

Hall

Problems and Questions

#78-0554
TR2810-2823

1. Record type #1 should contain complete track information. Based on beginning and ending position and time per file identifier, it is proposed that the enclosed records be inserted, as appropriate at the beginning of each file identifier and that other record types be deleted.

2. The longitude for FW7001 sequence 049 is 146°71'00"W. What is the correct value for the minutes?

3. A single station of FW7056 is inserted between FW7002 and FW7003. This file identifier is not listed in the RU 481 list titled "Survey Data Schedule."

4. No file FW7004 data was found on the data tape, but the inclusive dates (770507 - 770513) are found on FW7005.

5. Seq. # - should increase within each station.

6.


1187
5955 00 N1483000 W

ID	Flight/Station #	Seq. #	Start Date	Start Time	Start Latitude	Start Longitude	Elapsed Time	Distance Along Track	Completeness	End Latitude	End Longitude	(Blank)
27FW6Ø791	(will change with this file ID)	ØØØ1	761118	22ØØ	6Ø25ØN	147Ø5ØW				5955ØN	1483ØØW	
1 7Ø11		Ø537	77Ø126	2Ø41	5959ØN	1491ØØW				5931ØØN	146 ØØW	
7Ø2L		Ø65Ø	77Ø312	2ØØ3	6ØØØØN	1492ØØW				6Ø1ØØN	1473ØØW	
7Ø31		Ø12Ø	77Ø413	2102	6Ø12ØN	1523ØØW				6Ø28ØN	1463ØØW	
7Ø51		Ø159	77Ø5Ø7	2345	55Ø3ØN	1314ØØW				6Ø44ØN	1475ØØW	
7ØØ61		Ø19Ø	77Ø53Ø	2Ø3Ø	6Ø47ØN	148Ø3ØW				6Ø48ØN	1482ØØW	
7Ø71		Ø25Ø	77Ø6Ø6	2158	5944ØN	1492ØW				6Ø31ØN	1464ØØW	
7ØØ81		Ø327	77Ø62Ø	2216	6Ø46ØN	148Ø6ØW				6Ø45ØN	148ØØØW	
7Ø91		Ø371	77662 9	Ø3ØØ	6Ø38ØN	148Ø3ØW				591ØØN	1515ØØW	
7Ø111		Ø433	77Ø912	2112	6Ø41ØN	148Ø5ØW				6Ø34ØN	1473ØØW	
7Ø121		Ø553	771ØØ1	2Ø15	6Ø46ØN	1473ØØW				6Ø43ØN	1473ØØW	
7Ø1Ø1		Ø384	77Ø822	16ØØ	5926ØN	1514ØØW				6Ø45ØN	1473ØØW	
7Ø131		Ø585	77Ø4Ø8	Ø1Ø5	5435ØN	1645ØØW				5435ØN	1645ØØW	

FORM FEB 74 1530 PREVIOUS EDITION WILL BE USED

PUNCH CARD TRANSCRIPT

GPO 1974 O - 535-153

```
Password:
 accNo   fleA refNo  proj inst ship    startDate  cruise   catId
 ------- ---- ------ ---- ---- ------- ---------- -------- ----------
 7800054 F127 TR2810 0081 31V5 3191    1976/10/13 NULL          306431
 7800054 F127 TR2811 0081 31V5 3191    1977/01/26 NULL          306432
 7800054 F127 TR2812 0081 31V5 3191    1977/03/12 NULL          306433
 7800054 F127 TR2813 0081 31V5 3191    1977/04/13 NULL          306434
 7800054 F127 TR2814 0081 31V5 3191    1977/04/19 NULL          306435
 7800054 F127 TR2815 0081 31V5 3191    1977/05/07 NULL          306436
 7800054 F127 TR2816 0081 31V5 3191    1977/05/30 NULL          306437
 7800054 F127 TR2817 0081 31V5 3191    1977/06/06 NULL          306438
 7800054 F127 TR2818 0081 31V5 3191    1977/06/20 NULL          306439
 7800054 F127 TR2819 0081 31V5 3191    1977/06/29 NULL          306440
 7800054 F127 TR2820 0081 31V5 3191    1977/08/22 NULL          306441
 7800054 F127 TR2821 0081 31V5 3191    1977/09/12 NULL          306442
 7800054 F127 TR2822 0081 31V5 3191    1977/10/01 NULL          306443
 7800054 F127 TR2823 0081 31V5 3191    1977/04/08 NULL          306444

(14 rows affected)
```

```
Password:
 accNo   fleA refNo  ship staCnt recCnt startDate  endDate
 ------- ---- ------ ---- ------ ------ ---------- ----------
 7800054 F127 TR2810 3191 5      30     76/10/13   76/11/22
 7800054 F127 TR2811 3191 42     215    77/01/26   77/01/26
 7800054 F127 TR2812 3191 68     345    77/03/12   77/03/21
 7800054 F127 TR2813 3191 39     195    77/04/13   77/04/14
 7800054 F127 TR2814 3191 1      5      77/04/19   77/04/19
 7800054 F127 TR2815 3191 30     155    77/05/07   77/05/14
 7800054 F127 TR2816 3191 60     305    77/05/30   77/06/04
 7800054 F127 TR2817 3191 77     385    77/06/06   77/06/07
 7800054 F127 TR2818 3191 43     220    77/06/20   77/06/24
 7800054 F127 TR2819 3191 13     65     77/06/29   77/06/30
 7800054 F127 TR2820 3191 49     250    77/08/22   77/09/01
 7800054 F127 TR2821 3191 115    580    77/09/12   77/09/13
 7800054 F127 TR2822 3191 30     160    77/10/01   77/10/06
 7800054 F127 TR2823 3191 140    705    77/04/08   77/06/01

(14 rows affected)
```