

FLT ID: I951129	FM: KBFI	TO: KBFI
FLT NO: 96-007	BLK IN: 0027	ATR: 0019Z
ETD:	BLK OUT: 1825Z	ATD: 1835Z
ETE:	BLK TIME: 6:02	FLT TIME: 5:44
SPONSOR ORG: PMEL	PROGRAM: COAST IT	PURPOSE: FRONTAL BNDRY OFF OREGON COAST

DAO PERSONNEL

AC: KENNEDY	SYS ENG: LYNCH
CP: KENUL	DATA SYS: Mc MILLAN
NAV: KOZAK	RADAR: Mc NAMARA
FE: MOORE	BT/ODW:
RADIO: SPAN'S SOURCE	CLD PHYS:
FD: DAMITANO	DOPPLER:

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
BOND	PI	PMEL
SMULL	ASST PE	PMEL
SHAPIRO	ASST PI	WPL
BRAUN	RADAR	
MECHEM		
HUITSING		
YANG		
STRADER		

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)
GROSS NWS COLLE 1857Z Radar POF + B Piced up 1908 RPA came back 1920 RPA out 2127 Data system restart
NO DW 2; 2204Z / 7/0 delayed due to King Lig ICED UP 2204Z 2229Z JW ICED UP 2249Z Lost INE #1 2315Z Sup panel problems in #4 Did missed approach at McCORD TO burn off fuel Had to abort mission early.

U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO.2 OROWF2 FILE

FLT ID: I951129 TIME OFF: 1835Z TIME ON: 0019Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1003.0		1003.2	

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

1

FAST FLT LVL TAPES

RADAR TAPES

2

DOPPLER TAPES

ODW CASSETTES

1

HARD COPIES

AXBT

AXCP

ODW

3

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

NOAA • AOC • SED Flight Performance Log

Aircraft : N43RF

COAST '95

Mission :

Flight # 1

SED Crew:

Lynch, McNamara, McMillan

Flight ID :

951129I

Pre-Flight:

13:00

Take-Off:

18:35

Landing:

00:19

System			Pre-Flight	In-Flight	Post-Flight		
NAV	INE #1	Aligned to :	✓ TL				
	INE #2	Aligned to :	✓ TL		410	-1	1
	GPS		✓ STM (1)		Lat	Long	GS
RADAR	Nose		✓ TL				
	L/F	R/T SN : 102	✓ TL				Mod Switch Off ? ✓
	Tail	R&T SN : 2021 201	✓ TL				Mod Switch Off ? ✓
	ASAU's & RCU		✓ TL				
PMS	MARS Data System		✓ (3)				# DATs : 2
	2DG-C	Ch 1/64: 1	✓ STM				
	2DG-P	Ch 1/64: 1	✓ STM				
	FSSP	Ref VDC: 8.00	✓ STM				
	SEA Data System		✓ STM				# DATs : 1
TEMP		Cal High	Cal Low			Cal High	Cal Low
	Temp #1	+30.8	-30.3	RDM			
	Temp #2			RDM			
	Temp #3 (Starboard)			RDM			
	Dewpoint #1			RDM			
	Dewpoint #2 (AOC)			NU			
	Dewpoint #3 (EG&G)			RDM			
PRES	Attack Angle (AP/DAP)		RDM				
	Slip Angle (BP/DBP)		RDM				
	Differential (PQ1/PQ2/PQ3)		RDM				
	Absolute (PS1/PS2)		RDM				
	Radome Transducers		Plugs ? RDM				
	Cabin Transducer (Station 5)		RDM				
FLTLVL	Apn-159	SN: 3071-01	✓ TL				
	Apn-232	SN: 1699	✓ TL				Off ? ✓
	King Liquid Water		✓ TL	(6)			
	J&W Liquid Water		✓ STM				
	Down PRT-5 (SST)		RDM				
	Side PRT-5 (CO ²)		RDM				
	Up PRT-5		Open ? ✓				Closed ? ✓
MISC	RAMS Data System		✓ TL				# DATs : 1
	ASDL		NU				Off ? ✓
	Exterior Walk Around		✓ STM				
	Video	(N) L R D	✓ TL				
	L ² D ² System		✓ STM (4)	(7)			
	LDW						
	Sondes	: # On Board		# Dropped : 3		# Good : 3	
USER	FCU	A-B-D	✓ STM				
	Charge Probe		NU				Accelerometers
	AIR Lyman α		Plugs ? NU (2)				#1 (2 G): 8152
	Field Mills	(L)(R) U D	✓ TL				#2 (2.5 G): 6684
							#3 (3 G): 5967
							#4 (3.5 G): 2892

Please Note any Discrepancies

Item #	Zulu Time	Problem Description	Initials	A-23A #
(1)		GPS still only receiving C/A code - FM = 50RA	TL	/
(2)		AIR Lyman Alpha was left uncovered in rain for ~2 days - [works OK]	TL	/
(3)		MARS System hangs up when DSC #3 is set to display TA RF + Spec Width	TL	
(4)		LXD2 works except LORAN-C still fails	STM	
(5)	1900	Removed VP Looking PRT-5, cleaned water from lens	RDM	/
6		When heater turned on - POPS FD-2 WAW 5 Amp CLB	TL	
(7)		Need small rubberbands for LXD2 sonde	K	
(8)		INE #1 in-op → Display went out - Red warning - No altitude	TL	/
*		Note: STM seems to feel that SEP would be better served with an assortment of RS-232 D'connector		

NOAA • AOC • SED
N43RF DATA STATION LOG

Project : COAST '95 Mission : Flight #1 Flight ID : 951129I
Operators : Lynch
Take Off : 18:35 Landing : 00:19

RAMS DAT 1 On <u>18:09</u> <u>15:45</u>	RAMS DAT 1 Off:	CPU Selected: (A) B
RAMS DAT 2 On [8 9]: <u>18:21</u>	RAMS DAT 2 Off: <u>00:27</u>	VCR's Used: (N) L R D
RAMS DAT 3 On [8 9]:	RAMS DAT 3 Off:	
Printer On: <u>15:45</u> <u>18:21</u>	Printer Off:	
VCR's On: <u>15:44</u> <u>18:22</u>	VCR's Off: <u>00:28</u>	VCR Count: <u>2</u>
MARS DAT On: <u>18:37</u> <u>20:46</u>	MARS DAT Off: <u>20:46</u> <u>23:50</u>	
PMS DAT On: <u>18:33</u>	PMS DAT Off: <u>23:50</u>	

ASDL Messages							
Message	Time	Message	Time	Message	Time	Message	Time
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	
R V S B		R V S B		R V S B		R V S B	

R = Recco V = Vortex S = Sonde B = AXBT

Data Station Operator Notes

48.3 46.95
125.0 124.15
21:27:50 - restarted data system - 022 overrun

I957129

RENAV INE2 (6)

192200, .3, -.4

202200, .2, -.9

212200, .1, -.6

222200, .6, -1.8

232200, .3, -1.9

002200, 1, -.1

DATA GAP 183331-183340

212751-212800

DAP fix 1907-1911

RA159 = RA232

001900-002200

183400 fix

TT check

1855-1905

TT2 problem

1840-1913, 2155-2205,

2210-2217, 2310-2330, DAP checks

2347-2355, 0002-0012

1905-1912 = 30-50
patches 15

1912-1916

COAST II

FLIGHT #01 I951129

TYPE OF DATA -----	SENSOR OR OPTION -----
INE	2
Accelerometer	2
Temperature probe	1
Altitude change option (for vertical winds)	RA159
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 99
Constants file	CO3961.CON

Notes:

There was one time/data gap: 212751Z - 212800Z

Dewpoint temperature #1, DW1, exceeded ambient temperature several times throughout the flight when heavy precip was occurring.

The King Liquid water probe and the Johnson-Williams Liquid water probe iced up beginning at 2204Z and 2229Z, respectively.

Downward spikes in radar altimeter output are a result of overflying land.

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	Takeoff -----	Landing -----
Aircraft static pressure	1003.0mb	1003.1mb
Corrected tower pressure	1003.5mb	1003.5mb

Flight Meteorologist: A. Barry Damiano, (813) 828-3310 ext. 3073

I 951129

TIME	LAT	LONG	TRK	HID	WD	WS	PA	GA	TA	TD	SP	PS		P
183700	4726	12213	141	155	212	55	1092	897	8.5	9.5	987.9	873.8	RWT	76.8
185000	4716	12252	252	251	244	64	3863	3788	-6.9	-7.4	1002.4	622.8	RWT	69.7
185900	4709	12332	249	251	250	77	4974	4862	-13.4	-27.1	991.3	542.1	INCLD	81.5
190500	4700	12358	242	243	250	65	4968	4955	-14.3	-21.0	1004.3	542.4	INCLD	76.5
191230	4649	12424	151	197	245	74	4945	4936	-13.0	-30.0	1003.1	542.4	ODW	70.4
192430	at	5000	feet											
192600	4603	12424	150	190	237	41	1576	1570	7.6	8.2	1007.0	837.9	RW	66.2
194600	4503	12413	80	82	254	57	1878	1841	6.4	8.8	1009.6	807.1	RW	67.7
195740	4512	12411	0	349	248	55	2172	2179	5.0	3.7	1008.8	777.5	RW	70.2
200840	4559	12409	1	351	237	58	1273	1236	8.5	9.2	1006.5	777.9	RW	77.8
201900	4622	12349	179	191	237	52	2174	2122	4.3	3.1	1003.0	777.9	RW	77.8
202510	4600	12348	180	194	242	53	2187	2007	2.6	4.2	979.2	776.7	RW	71.9
204400	4540	12350	3	348	249	79	3720	3697	-7.2	-7.3	960.2	639.2	RW	81.0
205020	4600	12314	68	67	251	78	3721	3272	-5.7	-6.9	948.8	639.7	RW	74.1
200140	4603	12310	242	244	244	95	4648	4310	-11.8	-12.0	948.3	566.2	RW	72.1
211500	4544	12359	240	243	245	94	4648	4664	-11.9	-11.8	1007.4	566.1	RW	78.7
212649	4637	12425	69	72	245	74	4648	4664	-11.0	-11.9	1007.4	566.4	ODW	74.1
214000	4608	12402	259	254	232	64	2476	2448	.9	.8	1006.9	749.3	INCLD	72.2
214700	4550	12409	175	185	232	40	1286	1256	8.4	8.6	1007.3	869.3	INCLD	67.7
215100	4537	12408	180	190	241	41	1277	1249	8.5	8.9	1008.3	868.7	INCLD	76.8
215900	4543	12347	0	350	241	58	2160	1856	3.7	-1.6	983.7	779.2	RW	71.2
220730	4622	12342	0	349	234	65	2194	1900	1.7	.9	957.5	776.2	INCLD	79.6
221900	4636	12346	187	203	240	79	3740	3438	-8.4	-9.5	971.3	637.8	INCLD	65.5
222700	4609	12350	180	198	244	75	3742	3690	-7.7	-8.8	1005.2	636.8	INCLD	76.2
223700	4544	12334	63	63	247	85	3740	2824	-7.4	-13.0	959.8	636.9	INCLD	88.7
224900	4609	12312	232	238	246	80	4625	4613	-13.5	-12.8	1006.4	567.8	ICE	69.5
230500	4537	12408	230	237	249	74	4626	4628	-12.2	-11.6	1006.5	87.8	ICE	70.9
231031	4525	12416	66	66	246	72	4644	4649	-12.2	-14.3	1006.9	567.8	ODW	75.5
232120	4523	12345	274	265	231	54	1861	1754	4.6	4.7	1002.8	807.0	ICE	88.5
233020	4547	12401	8	2	232	36	1568	1539	4.0	3.3	1009.5	838.7	ICLD ARV	75.0
234200	4632	12328	40	36	235	54	1877	1675	2.0	1.8	978.0	807.0	INCLD	73.1

DATE : 11/29/95

TO : Chief, AOC Flight Operations

FROM : Pilot/Flight Director, Aircraft N43RF ON 0027Z BLOCKTIME
OFF 1825Z 6:02

SUBJECT: Hazardous Duty

PURPOSE OF FLIGHT: COAST IF PROJECT

Hazardous Duty Pay is required for flight made on 11/29/95
(DATE)

Request based on FLYING IN AND AROUND
COLD FRONTS OVER LAND

Personnel on board authorized Hazard Pay:

MOORE
DAMIANO
LYNCH
MCMILLAN
MCNAMARA
SAN SOULI

PILOT/FLIGHT DIRECTOR: A. Barry Damiano

APPROVED: _____ DISAPPROVED: _____

CHIEF, AOC FLIGHT OPERATIONS: _____

AOC DAILY FLIGHT LOG

AIRCRAFT TYPE: WP-3D	AIRCRAFT I.D.: NH3RF	MISSION(S): COAST		
DATE: 29 Nov 95	FLIGHT No.: 96-007	☒ OPERATIONAL TRAINING	☐ FERRY MAINTENANCE	☐ SIMULATOR OTHER:

FLIGHT INFORMATION

LEG	DEP. TIME (GMT)	LOCATION	ARR. TIME (GMT)	BLOCK TIME	MISSION	TASK No.	USE CODE
1	1824	BFI					
2		BFI	0026	6.0	COAST	8P3A43CT	
3							
4							
5							

TOTAL

6.0

WEATHER BRIEF FROM:

NOTAMS CHECKED WITH:

FLIGHT PLAN ON FILE AT:

AIRCREW DATA

CREW POSITION	FLIGHT CREWS LAST NAME, INITIAL	FLIGHT HOURS TOTAL			FLIGHT HOURS NIGHT	LANDINGS		INSTRUMENTS			APPR's	
		PIC	SIC	IP		DAY	NIGHT	HOURS			PREC	NP
								ACT	HOOD	SIM		
AG	KENNEDY, P	6.0				1		3.0	.3		4	
P	KENUL, P	3.0	3.0					3.0	.3		1	
CP												

NAV

KOZAK, S

6.0

NAV

RADIO OR
PHOTO

SANS SOURCE, D

6.0

FE

MOORE, H

6.0

FE

MECH

REMARKS: KENUL ILS 16 @ TCM
KENNEDY ILS 13R @ BFI

WEIGHT & BALANCE

ATTACHED
ON FILE

AC SIGNATURE

ADDITIONAL AIRCREW/PASSENGERS

LAST NAME, INITIAL	ORGANIZATION/PHONE	LEGS FLWN	LAST NAME, INITIAL	ORGANIZATION/PHONE	LEGS FLWN
DAMIANO	AOC	1	HUTSINK		1
LYNCH			YANG		
McMILLAN			STRADER		
McNAMARA			SHAPIRO	WPL	
BOND	PMEL		COLLE		
SMULL	PMEL		GROSS	NWS	
BRAUN			MECHEM		

[illegible]

Damiano 1602'

951129

[illegible]

INS PERFORMANCE		INS 1	INS 2
BEGIN/ALIGN TIME	1720 1310	1720 1310	1720 1310
ALIGN STATUS (0-5)	3	3	B
END NAV TIME			0028
START NAV TIME	1818 1545	1818 1545	1818 1545
DELTA T			6710

TERMINAL ERRORS		INS 1	INS 2
DELTA LAT			+1.0
DELTA LON			-1
RCS			1
RADIAL ERROR			1.0

REMARKS	