

FLT ID: <u>1951117</u>	FM: <u>KMCF</u>	TO: <u>KMCF</u>
FLT NO: <u>96</u>	BLK IN: <u>1719Z</u>	ATA: <u>1710Z</u>
ETD: <u>1500Z</u>	BLK OUT: <u>1505Z</u>	ATD: <u>1515Z</u>
ETE:	BLK TIME: <u>2:14</u>	FLT TIME: <u>1:55</u>
SPONSOR ORG: <u>AOC</u>	PROGRAM: <u>COAST II</u>	PURPOSE: <u>TEST FLT FOR COAST II</u>

DAO PERSONNEL

AC <u>KENNEDY</u>	SYS ENG <u>GOLDSTEIN</u>
CP <u>O'MARA</u>	DATA SYS <u>LYNCH</u>
NAV <u>SMITH RATHBUN</u>	RADAR <u>BARR</u>
FE <u>MOORE</u>	BT/ODW <u>McMILLAN</u>
RADIO <u>SANS SOUCI</u>	CLD PHYS
FD <u>D'AMIANO</u>	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
<u>DELGADO</u>		
<u>McNAMARA</u>		
<u>McNAMARA</u>		

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

DEW #1, is SN 92768. Was in for Balloon-Flyby
as of OCT 4 1995.

-16.8948 11.1099

RA159 not working at T/O

153140Z RA159 working

Went to INE2

154435Z

INE1 having hardware
interface problems

NO RADIMETERS
ON BOARD

DROPSONDE SYSTEM having
trouble locking on to station
ground

161100Z Bal DPT

164320Z

-26.5

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: 1951117 TIME OFF: 1515Z TIME ON: 1710Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1025.1		1023.6	

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

AXBT

AXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

NOAA • AOC • SED Flight Performance Log

Aircraft : N43RF

COAST '95

Mission : Test FlightSED Crew: Lynch STM, Barr, RIM, JED, ASGFlight ID : 95117 IPre-Flight: 1300Take-Off: 151520Landing: 171011

System		Pre-Flight	In-Flight	Post-Flight		
NAV	INE #1 1250Z Aligned to :	✓ TL	(2) (5)	+1.5	+1.4	2
	INE #2 1250Z Aligned to :	✓ TL		-1.7	-1.5	1
	GPS	✓ TL		Lat	Long	GS
RADAR	Nose	✓ TL				
	L/F R/T SN : 102	✓ JHR	(4)	Mod Switch Off ? TML		
	Tail R&T SN : 201 / 202	✓ I		Mod Switch Off ? TML		
	ASAU's & RCU	✓ I	(6)			
PMS	MARS Data System	✓ I		# DATs :		
	2DG-C Ch 1/64: /	JMB				
	2DG-P Ch 1/64: /	JMB				
	FSSP Ref VDC:	JMB				
	SEA Data System	JMB		# DATs :		
TEMP	Cal High	Cal Low		Cal High	Cal Low	
	Temp #1	+30.7	-30.2	+25.1	+30.7	-20.1
	Temp #2			+23.4		
	Temp #3 (Starboard)			+17.8		
	Dewpoint #1			+6.7		
	Dewpoint #2 (AOC)			+5.8		
PRES	Dewpoint #3 (EG&G)			+7.3		
	Attack Angle (AP/DAP)	✓ STM				
	Slip Angle (BP/DBP)	✓ STM				
	Differential (PQ1/PQ2/PQ3)	✓ STM				
	Absolute (PS1/PS2)	✓ STM				
	Radome Transducers	Plugs ? STM				
FLT	Cabin Transducer (Station 5)	✓ STM				
	Apn-159 SN: 71-01		(3)			
	Apn-232 SN: 1699	JMB			Off ? JMB ✓	
	King Liquid Water		7			
	J&W Liquid Water	✓ STM				
	Down PRT-5 (SST)	N/I				
LV	Side PRT-5 (CO ²)	N/I				
	Up PRT-5	Open ? N/I			Closed ? N/I	
	RAMS Data System	✓ STM			# DATs :	
	ASDL	N/I			Off ? N/I	
MISC	Exterior Walk Around	✓ STM				
	Video (N) (R) D		(B)			
	VAPS				# Tapes :	
	LxD ² Dropsondes	13	# On Board :	# Dropped :	# Good :	1
USER	FCU	A B C	JMB			
	Charge Probe		N/I		Accelerometers	
	AIR Lyman α		JMB		#1 (2 G):	
	Field Mills (L) (R) U (D)	✓ TL			#2 (2.5 G):	
					#3 (3 G):	
					#4 (3.5 G):	

Please Note any Discrepancies

Item #	Zulu Time	Problem Description	Initials	A-23A #
1		INE #2 ODLR is missing top segment of Leftmost digit	TZ	OK -
2	15:21	INE#1 FATAL OVERRUN @ IAU - SYS RESTART @ 15:22 OK.	ASG	
③	1524Z	APN#159 SN#71-01 FAILED no bit test/no DATA after take-off Switched to SN# 66-024	JMB	
4		LIF RT # 102 parts CIB - installed 103	TZ	
⑤		INE#1 BURST COUNT VARYING 38-40	ASG	/
③ (cont)	1542Z	Replaced APN-159's didn't fix problem. Replaced APN-159 PUR supply that fixed the problem. Pure supply SN#65-005 is ENOP. (will retest APN-159 RT's shortly) APN-159 SN#71-01 is now working fine (PUR supply @ FAULT)		
⑥	1554Z	O'scope, 1' RCU Burned up not working properly anyway.		
7		King-LLO map - looks like no power	TZ	/
8		Loran (Daon) UCR ok to tape	TZ	/
9		DELO #2 (ADC) not responding properly	TZ	/
10		LDW → no Loran data into chassis	TZ	/
11		Lyman Alpha needs to be calibrated →	TZ	/
*		-Swap TW2 back to B416 - [check w/ RJM First]		
*	Note:	Need Sensor Cam-Operat at Site-5		

NOAA • AOC • SED
N43RF DATA STATION LOG

Project : COAST '95

Mission : TEST

Flight ID : 951117 I

Operators : DELGADO

Take Off : 151520

Landing : 171011

RAMS DAT 1 On [8 9]: <u>150629</u>	RAMS DAT 1 Off: <u>171922</u>	CPU Selected : <u>A</u> B
RAMS DAT 2 On [8 9]:	RAMS DAT 2 Off:	VCR's Used : N L R D
RAMS DAT 3 On [8 9]:	RAMS DAT 3 Off:	
Printer On : <u>150500</u>	Printer Off : <u>171922</u>	
VCR's On:	VCR's Off:	VCR Count:
MARS DAT On:	MARS DAT Off:	
PMS DAT On:	PMS DAT Off:	

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 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

1522 System restarted.

152720 IAU SRQ error. Status: 0206 Data Overrun

Total Temp Probe Calibration Constants (Updated 11/15/95)

TOTAL TEMP PROBES

N42RF

		<u>Offset</u>	<u>Slope</u>
TT1 (Fwd)	S/N 58173 w/ AMP #1	-0.5362	12.1379
TT2 (Aft)	S/N 58172 w/ AMP #12	-0.2862	12.2178
TT3 (Radome)	S/N w/ AMP # (w/ Housing S/N)		

N43RF

TT1 (Fwd)	S/N 31416 w/ AMP #11	-0.7311	12.2538
TT2 (Aft)	S/N A7665 w/ AMP #137	-0.2051	7.0213
TT3 (Radome)	S/N 0932 w/ AMP #125 (w/ Housing S/N 12625)	-3.3495	4.9256

SPARE

Dewpoint Calibration Constants Updated 11/15/95

DEWPOINTERS

N42RF

	<u>Offset</u>	<u>Slope</u>
General Eastern 1201 w/ Sensor S/N 52721	-17.5548	10.8655
AOC #2 with Sensor S/N 1664	0.2110	8.9513
EG&G 137 with Sensor S/N 901 (NCAR)	-49.8381	20.0103

N43RF

General Eastern 1201 w/ Sensor S/N 93616	-17.2630	11.3134
AOC #1 with GE Sensor S/N 0811095RG	-0.0709	10.0514
EG&G 137 S/N 484 w/ Sensor S/N 1673 (NCAR)	-50.0054	20.0044

SPARE for Genral Eastern 1201 S/N 52723 Sensor S/N 93002	-17.0858	11.2932
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SPARE for AOC #1 using GE Sensor Sensor S/N 93002	0.0610	10.1626
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UPATR TBW

122

11/12/95

500	18991	-12.9	-28.9	29028
671		2.4	-15.6	
700	10302	2.2	-14.8	30512
740		4.0	-17.0	
760		3.2	-15.8	
774		2.6	-8.4	
850	5126	7.4	3.1	33512
860		7.4	4.6	
925	2824	12.4	6.4	04509
1000	659	16.4	5.4	09510

DATE 18 M 155 11/15/22

50038

50038
50038
50038

30215

33215

04208

08210

11
19
17

11

-58.8

-12.2

-14.8

-15.0

-12.8

-8.4

2-06.52

2.4

-13.2

2.4

2.2

4.0

3.2

2.0

2.4

2.4

2.4

13.4

10.4

DE 118 10 52

SE 10 47 3

3663

18221

10305

2152

2874

622

200

251

200

240

260

254

220

250

252

1000

1-5
15-1
80

22

1-1

INE 2

I951117

DATA GAPS

152131-152140

BAL DPT

1611Z, 1643Z

I951115

TIME	LAT	LDN	TRK	HD	WD	WS	PA	GA	TA	TD	SP	PS		PO
151700	2752	8226	80	80	51	6.5	366		15.3	6.4	1025.4	953.0	CLR	69.8
152200	2758	8221	773	276	48	11	1092	1195	9.0	3.3	1024.6	888.0	CLR	63.6
152740	at 5000 feet													
153630														
154130	2748	8338	271	274	353	11	2937	3076	4.9	-16.0	1017.8	707.2	CLR	66.1
	at 10K feet													
154700	2749	8402	255	278	345	5	2932	3074	4.9	-16.4	1018.4	707.1	CLR	67.2
155100	2750	8419	271	272	276	9	4492	4689	-4.5	-18.5	1016.0	577.9	CLR	58.9
	at 15000 ft													
155600	2741	8412	96	90	289	14	4493	4690	-4.3	-21.9	1015.7	577.9	CLR	68.7
160100	2748	8412	270	271	274	28	6115	6341	-15.7	-26.3	1013.3	464.4	CLR	69.7
	at 20000 feet													
160620	2738	8414	91	92	280	28	6114	6337	-15.3	-28.0	1011.1	464.5	CLR	68.6
161740	2738	8409	101	102	279	28	6112	6358	-15.1	-28.9	1011.2	464.7	ODW	68.6
167400	spiral down to 3000 ft													
163550	end descent													
165100	2747	8315	77	77	358	5	2659	2783	6.3	-17.2	1017.7	733.0	CLR	66.4

