

19900927II-FDIR

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.1 OAOWF1 FILE

FLT ID: 1900927	FM: KMFA	TO: KMFA
FLT NO: 90-027	BLK IN: 0013	ATA: 0007Z
ETD: 1500Z	BLK OUT: 1502Z	RTD: 1511Z
ETE:	BLK TIME: 9:11	FLT TIME: 8:56
SPONSOR ORG: HRD	PROGRAM:	PURPOSE: SMRF CAL FLT

OAO PERSONNEL

AC LAYDON	SYS ENG GOLDSTEIN
CP PHILIPSBORN	DATA SYS LYNCH
NAV HENDERSON ✓	RADAR
FE MOORE	BT/ODW WILLIAMS
RADIO	CLD PHYS
FD DAMIANO ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
BLACK	PI	HRD
DORST		

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

86
69

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 DROWF2 FILE				
FLT ID: I900927		TIME OFF: 1511Z		TIME ON: 0007Z
	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	PS 1015.7 SP 1014.3	29.99/1015.6 88 cmHg 1015.2	PS 1015.0 SP 1015.3	29.94/1013.9 cmHg
NO DATA DISPOSITION/DATE/QUALITY				
1/SEC FLT LVL TAPES	1			
FAST FLT LVL TAPES				
RADAR TAPES	2			
DOPPLER TAPES				
ODW CASSETTES				
HARD COPIES				
AXBT	3			
AXCP				
ODW				
PHOTOGRAPHY				
	FWD	LS	RS	VERT
ON				
OFF				
RATE				
REMARKS 17.7 6.5 850mb 227/10 1540Z over <u>Freeport</u> AT 30.00 /1015.9 152620 BAL OPT WIND SHFT 2330Z RA159 stopped working after T/O NO AXBT DROP AT 1st point because 1) only had 3 AXBTs TO LAUNCH 2) warning area in <u>HOT</u>				

I 900927

TIME	LAT	LONG	TK	HD	WD	WS	PA	HA	TA	TD	SP	PS		PO
151240	2548	8010	85	88	25	3	535	549	-22.4	-21.2	1015.3	935.2	over	81.8
153300	2623	7841	79	81	210	8	5164	5405	-5.1	-17.0	1009.1	528.7	GOOD BROOKLYN	81.1
155000	2632	7709	86	87	277	10	5148	5382	-4.7	-12.6	1007.7	529.7		78.5
161500	2824	7630	15	14	276	10	5136	5378	-5.7	-22.4	1010.9	530.5		74.4
163000	2936	7607	17	17	319	13	5130	5359	-4.8	-22.1	1007.7	530.8		81.3
164700	3049	7544	14	14	346	14	5123	5332	-4.6	-22.3	1004.7	531.4		80.0
170645	3218	7513	36	32	321	24	5118	5330	-4.1	-21.6	1003.9	531.8	Good XBT	
173050	3348	7357	36	33	312	24	5792	6010	-9.9	-25.7	1004.8	485.5		78.9
174752	3456	7256	27	23	324	32	5786	5977	-9.9	-25.7	1001.8	485.8	Good XBT	75.1
180530	3603	7215	27	22	336	39	5781	5954	-9.8	-25.8	999.1	486.1		73.3
182700	3724	7123	28	27	331	10	422	462	19.1	12.9	1016.3	963.6		80.0
183510	3739	7121	207	208	27	13	120	155	21.3	18.8	1016.9	999.0		81.8
3722														
184647	3706	7140			320	12			19.2	15.4	1016.3		Good XBT	
185355	WIND	SHFT	NW-NIE											
185500	3731	7122											Good XBT	
191200	start of	10K ft log												
192000	end of	10K ft log					3722	7142	Gulfstream front					
193640	3830	7038	28	28	6	23	5802	5963	-14.3	-27.0	1009.3	484.8	Good XBT	77.7
195400	3940	6958	24	24	4	19	5798	5955	-14.9	-28.2	1010.1	485.0		74.6
200555														
201525														
202015											1017.7	852.7		
202449											1017.7	852.6		
203626											1018.1			
204225											1018.0			
210300	3908	7016	205	209	3	36	6716	6904	-20.3	-29.4	1008.4	427.3		79.8

SMRF CAL FLT

FLIGHT #1 I900927 N43RF

TYPE OF DATA	SENSOR OR OPTION
INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 29
Constants file	CO3901.CON

Notes:

There were no data/time gaps.

The dewpoint sensor, TW1, behaved quite well throughout most of the flight. This flight director attempted to balance/calibrate the dewpoint sensor during the following time frame,

152500Z - 152900Z

The spike generated by the calibration was removed and patched over.

The aircraft positions were renavigated with respect to good LORAN-C positions.

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.

	Take off	Landing
Aircraft static pressure	1015.6mb	1014.8mb
Corrected tower pressure	1015.4mb	1013.7mb

Flight meteorologist: A. BARRY DAMIANO