

MEAPRS

Flight #02 H980523 IOP #02 (Thunderstorms near Hill City, KS)

DATA TYPE

SENSOR or OPTION

INE	2
Accelerometer	2
Temperature Probe	2
Altitude (for vertical wind)	Pressure Altitude
Static Pressure	Fuselage
Dynamic Pressure	Fuselage
Dewpoint Probe	1
Constants file:	CO2986.con

Notes:

There were no data/time gaps.

The RA232 radar altimeter was used in extrapolating surface pressure from flight level.

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

Sensors operated optimally.

Aircraft inertial 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 wind speeds, respectively, derived from Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	959.8mb	959.8mb
Corrected tower pressure	960.0mb	959.2mb

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

FLT ID: H980523	FM: KOKC	TO: KOKC
FLT NO: 98-055	BLK IN: 0625Z	ATA: 0614Z
ETD: 0200Z	BLK OUT: 0150Z	ATD: 0202Z
ETE:	BLK TIME: 4:35	FLT TIME: 4:12
SPONSOR ORG: NSSL/NSF	PROGRAM: MEAPRS	PURPOSE: MCS NR KS-NE BORDER

DAO PERSONNEL

AC KENNEDY ✓	SYS ENG
CP PHILIPSBORN/TAGGART ✓	DATA SYS CARPENTER ✓
NAV RATHBUN ✓	RADAR BARR/DELGADO ✓
FE TORREY ✓	BT/ODW
RADIO ROGERS ✓	CLD PHYS
FD DAMIANO ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
ZIEGLER ✓	PI	NSSL
SHEPHERD ✓	ASST. PI	{
SCHUUR ✓	PMS	
BLACK ✓	PMS	
BIGGERSTAFF ✓	PMS	HRD
SANTARPIA ✓	OBS	TEXAS A+M
		TEXAS A+M

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

T/O Delayed waiting for weather. Bal DPT

0.45114 Radam down

DPTD area at 0507Z since weather dissipated

-5°C @ 16K PA

09020 KTS

6K AL

JW OFFSET

KIND OK

22 658
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U.S. DEPT. COMM./NOAA/ORD - DATA SECTION WORK FORM NO. 2 DROWF2 FILE

FLT ID: 14980523 TIME OFF: 0202Z TIME ON: 0614Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	959.8	29.69	959.8	29.71

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	2	
FAST FLT LVL TAPES		
RADAR TAPES	2	
DOPPLER TAPES		
ODW CASSETTES		
HARD COPIES		
PMS	1	
AXBT		
AXCP		
ODW		

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

H980523

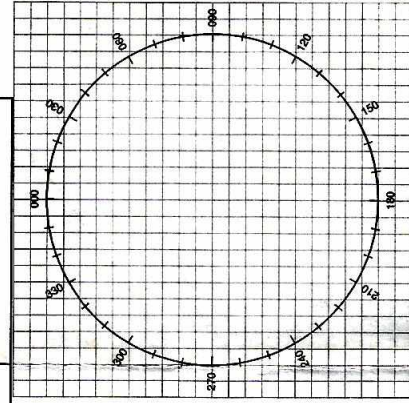
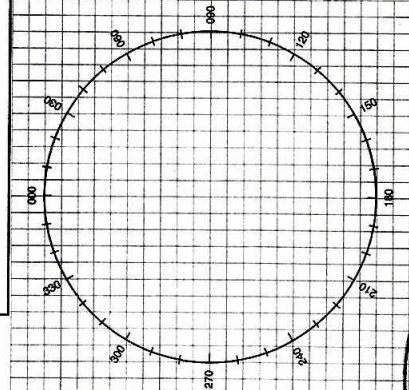
04/24/50 050 170 050/220 -5°C @ 16KPA

(SW)

TIME	LAT	LOX	TRK	HD	WD	WS	TA	TD	PA	GA	SP	PS		PO
020500	3526	9739	5	0	227	30	23.9	6.3	1500	1134	961.4	850	HAZE	70.5
	3549	9737	359	350	246	47	10.9	-5.1		2890		700	HAZE	69.9
022400	3650	9737	359	354	240	31	-4.3	-39.7	4963	4808	966.9	543.0	HAZE	69.3
023500	3743	9735	0	355	245	27	-5.3	-35.4	4959	4698	957.9	542.9	CLR	72.0
024800	3835	9749	291	290	261	22	-4.6	-43.5	4962	4696	957.0	542.9	CLR	70.7
030200	3856	9902	288	284	240	27	-4.9	-36.8	4937	4485	936.4	544.8	—	75.9
031100	3907	9949	286	281	243	38	-7.0	-22.9	4935	4385	930.0	544.9	—	75.3
032500	3913	10012	280	273	221	40	12.0	-10.5	2808	2058	913.3	718.4	LG-T	70.8
032200	start leg at 11K PA													
033400	3924	10009	50	52	228	44	6.0	-15.4	3412	2713	918.1	665.1	leg (LGT)	66.8
033700	end leg at 11K PA													
034120	start leg at 9K PA													
034400	3922	10007	221	222	228	35	9.8	-1.2	2816	2143	923.5	717.7	leg (LGT)	72.6
034650	end leg													
035000	start leg @ 9K PA													
035200	3920	10001	50	52	221	40	10.4	-2.7	2815	2163	924.9	717.8	leg (LGT)	76.6
035430	end leg													
035800	start leg @ 9K PA													
040000	3922	9953	220	221	220	40	10.7	-4.6	2816	2199	929.4	717.7	watch for	70.4
040350	end leg @ 9K PA													
040710	start leg @ 9K PA													
040900	3920	9954	44	44	232	35	9.0	-2.2	2816	2219	930.8	717.6	leg (LGT)	77.0
041218	end leg @ 9K PA													
041550	start leg @ 9K PA													
041800	3923	9944	212	215	234	25	8.7	-1.8	2816	2242	935.0	717.6	leg (LGT)	74.9
042130	end leg @ 9K PA													
042430	start leg @ 9K PA													
042820	3925	9934	46	45	235	26	8.8	-1.8	2813	2263	935.5	717.7	leg (LGT)	68.9
042940	end leg @ 9K PA													
043950	start leg @ 9K													
044300	3942	9921	174	178	264	14	9.2	-15.2	2815	2324	945.0	717.6	leg	69.5
045020	end leg @ 9K													
050800	3928	9907	142	148	229	23	8.8	.5	2825	2486	945.3	694.6	—	64.1
051700	3858	9837	145	152	264	28	-9.8	-22.4	5256	4982	957.5	521.9	—	71.3
054900	3950	9733	179	187	237	38	-7.7	-38.9	5254	5145	974.0	522.0	—	74.7

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CLEARANCES				
FREQ	ALT	HDG	OTHER	
			ENW J21 ICT SEN	
			TRK 0450 W/EN10000	
			OFIKO	
			PWE ICT J21 ENW	
			TRW 355 PW195	

[illegible]

POSITION REPORT

- 1. POSITION**
- 2. TIME**
- 3. ALTITUDE**
- 4. NEXT POSITION**
- 5. ETA**
- 6. NEXT POSITION**

EMERGENCY MESSAGE

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

UHFVOICE	VHFVOICE	MFVOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

MAYDAY, MAYDAY, MAYDAY

THIS IS NOAA _____, NOAA _____, NOAA _____

- POSITION _____ N/S _____ E/W AT _____ Z

- HEADING _____ TRUE/MAG _____

- AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE _____

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD

- NATURE OF EMERGENCY _____

- ASSISTANCE DESIRED _____

- PILOT INTENTIONS _____

- WE HAVE _____ ENDURANCE REMAINING

SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF

07082, 02012

[illegible]