

MEAPRS

Flight #01 H980519 IOP #01 (Thunderstorms near Garden City, KS)

<u>DATA TYPE</u>	<u>SENSOR or OPTION</u>
INE	1
Accelerometer	1
Temperature Probe	2
Altitude (for vertical wind)	Pressure Altitude
Static Pressure	Fuselage
Dynamic Pressure	Fuselage
Dewpoint Probe	1
Constants file:	CO2985.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 with the exception of the down-looking radiometer (RD). It did not work the entire flight.

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	967.3mb	967.8mb
Corrected tower pressure	967.0mb	967.2mb

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

FLT ID: 149805189	FM: KOKC	TO: KOKC
FLT NO: 98-054	BLK IN: 0411Z	ATR: 0404Z
ETD: 2300Z	BLK OUT: 0019Z	ATD: 0029Z
ETE:	BLK TIME: 3:52	FLT TIME: 3:35
SPONSOR ORG: NSSL/NSF	PROGRAM: MEAPRS	PURPOSE: RADAR TEST FLT GARDEN CITY, KS.

OAD PERSONNEL

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

PARTICIPATING SCIENTIST/VISITORS/OAD

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
ZIEGLER	PI	NSSL
JORGENSEN	ASST PI	}
SHEPHERD	RADAR	
SCHUUR	PMS	
BIGLERSTAFF	PMS	
ORVILLE	OBS	
BLACK	PMS	NRD
SANTARPIA	OBS	

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

T/O DELAYED TIL 0030Z WAITING FOR WEATHER TO FORM
 WORKED LARGE CELL NR. GARDEN CITY, KS

JW offset 10:15
 King OK.

RD. reading 40°C for entire flight (NOT WORKING)

03862
24
17
2995

03862
24
16

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

FLT ID: 149805189 TIME OFF: 0029Z TIME ON: 0404Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	967.3	29.95	967.8	29.96

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES

2

FAST FLT LVL TAPES

RADAR TAPES

DOPPLER TAPES

ODW CASSETTES

HARD COPIES

PMS

1

AXBT

AXCP

ODW

PHOTOGRAPHY

	FWD	LS	RS	VERT
ON				
OFF				
RATE				

REMARKS

179805 19

(10)

(10)

(10)

(10)

(10)

(10)

(10)

20

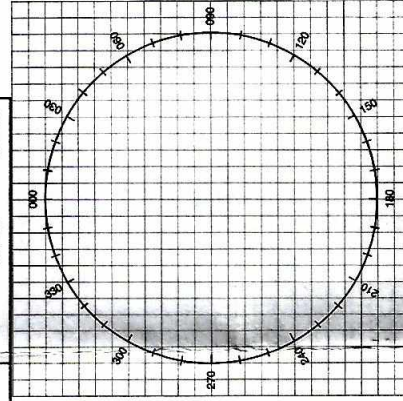
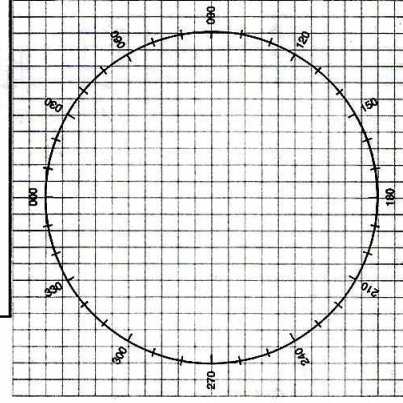
31.25
1.005

TIME	LAT	LOD	TRK	HD	WD	WS	TA	TD	GA	PA	SP	PS		PR
003800	3529	9807	302	299	220	15	11.5	-8.7	2988	3223	962.8	680.5	HAZE	60.6
004600	3547	9839	303	299	238	22	-4.7	-14.2	4816	4887	962.2	548.4	HAZE	62.6
011400	3723	10012	325	318	249	36	-4.9	-20.2	4391	4886	932.7	548.5	NR	72.8
012500	3734	10022	221	217	187	21	21.7	13.6	938	1697	918.4	825.4	NR	73.8
013025														
013040														
014630	3817	9921	35	35	236	21	16.9	1.3	1959	2446	942	751.7		
014700	start													
015200	end													
015550	start													
020050	end													
020400	start													
020540	3815	9903	32	33	208	30	11.3	8.9	2283	2749	943.5	728.5	leg	84.3
020900	end													
021200	start													
021400	3820	9852	144	188	216	26	12.8	.6	2346	2758	949.0	722.9	leg	68.6
021700	end													
022130	start													
022400														
022630	3826	9843	17	17	209	39	10.7	11.7	2364	2771	949.7	721.7	leg	77.8
023800	start													
024000	3848	9828	5	5	207	16	12.9	4.3	2388	2763	952.3	722.5	leg	76.4
024700	end													
024430	start													
024700	3843	9829	190	189	185	21	13.1	-4.1	2361	2769	948.8	722.6	leg	71.8
024750	end													
025040	start													
025200	3854	9825	6	5	204	32	12.0	12.6	2409	2753	955.8	723.2	leg	72.0
025540														
025800	start													
030000	3858	9818	176	178	187	11	12.0	7.0	2450	2775	954.6	721.9	leg	76.6
030300														
030900	3830	9755	157	162	222	22	16.8	-6.0	2138	2475	957.5	749.2	CLR	75.8
031700	3800	9742	166	167	201	14	17.2	-2.6	2141	2437	962.1	752.8	CLR	72.0
034300	3625	9717	174	176	190	17	17.5	-4.4	2298	2437	979.3	752.7	CLR	74.0

100

FREQ	ALT	HDG	OTHER
			V17 646 V507 LAL AND
			100NM RAD AND
			ANT PER TURNS
			38.25 100.5
			38.3 100.21 050/31

PAGE OF



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:

UHF/VOICE	VHF/VOICE	MF/VOICE	HF/CW	MF/CW
243.0	121.5	2182 KHZ	8364 KHZ	500 KHZ

**MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA . NOAA**

- POSITION _____ N E

- HEADING _____ TRUE/MAG _____
- AT _____ KTS TRUE/INDICATED _____

- FLIGHT LEVEL OR ALTITUDE.
- WE ARE A P-3 AIRCRAFT WITH

- NATURE OF EMERGENCY
- ASSISTANCE DESIRED

- PILOT INTENTIONS
- WE HAVE

[illegible]

INS PERFORMANCE		
	INS 1	INS 2
BEGIN ALIGN TIME	2310Z	2310Z
ALIGN STATUS (0-5)	0	0
END NAV TIME	0440Z	0440Z
START NAV TIME	0015Z	0015Z
DELTA T	3750	3750

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	+1.9	-1.4
DELTA LON	+1.7	+1.3
RGS	2	2
RADIAL ERROR	2	2

[illegible]