

MAP

Wet MAP/IOP #6

Flight #5 991013H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	1
Accelerometer	1
Temperature Probe	2
Dew Point Probe	1
Altitude (for vertical wind)	Pressure Altitude
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2992.CON

Notes:

Radar altimeter (RA-159) had several spikes removed and patched (1412:00-1417 (2), 1419:00-1419:30, 1421:30-1422:30, 1458:30-1500:00, 1505:30-1506:30, 1509:00-1510:00, 1513:00-1515:30 (3), 1555:50-1556:20. RA-159 had a spike at takeoff and landing and was replaced by RA-232 (1255:21-1304:54 and 1710:24-1717:00).

Dewpoint (DW1) was oscillating and was replaced by DW2 from 1459:35-1613:22. Dewpoint exceeded ambient temperature several times due to heavy precipitation.

Total temperature (TT2) had a spike at landing removed and patched 1711:00-1713:00.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	955.5	956.5
Corrected tower pressure	1024.4	1025.0

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.

Flight Meteorologist: Stan Czyzyk, (813) 828-3310 ext. 3086

FLT ID: 991013H	FM: LOW1	TO: LOW1
FLT NO: 99-05	BLK IN: 1717Z	ATA: 1711Z
ETD: 13Z	DLK OUT: 1256Z	RTD: 1303Z
ETE: 20Z	DLK TIME: 4.21 4.4	FLT TIME: 4.08
SPONSOR ORG: NOAA	PROGRAM: MAP	PURPOSE: 4.1

OAO PERSONNEL

AC MCKIM, G ✓	SYS ENG BARR, J ✓
CP OMARA, T ✓	DATA SYS PRADAS, C ✓
NAV RATHBUN, D ✓	RADAR
FE TORREY, R ✓	BT/ODW
RADIO	CLD PHYS
FD CZYZYK, S ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
JORGENSEN, D ✓		
SHEPHERD, T ✓		
BOUSQUET, O ✓		
GELINER, S / UOLL, M ✓		
BARSTAD, I ✓		
DESAGNE, M ✓		
WIRTH, V ✓		
BOUGEAULT, P ✓		

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

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2					
FLT ID: 791013H		TIME OFF: 1303Z		TIME ON: 1711Z	
	A/C T/O	WX STN	A/C LAND	WX STN	
PRESSURE	955.5	30.25	956.5	1025 (30.78)	
NO DATA DISPOSITION/DATE/QUALITY					
1/SEC FLT LVL TAPES	2				
FAST FLT LVL TAPES					
RADAR TAPES					
DOPPLER TAPES					
ODW CASSETTES					
HARD COPIES	1				
AXDT					
AXCP					
ODW					
G.P.S.	1				
PHOTOGRAPHY					
	FWD	LS	RS	VERT	
ON					
OFF					
RATE					
REMARKS					

[illegible]

N42RF AVAPS DropSonde Log

N42RF Project: MAD # 8 Flight ID: 991013H

Mission: _____ Flight #: 8 System Status: OK

Drop #	Sonde Serial Number	Time (Z)	Chn #	Press. offset	Winds time	Operator Init.	Comments Drop Status	BAD ☒	GOOD ☒
1	992 245 338	1424	2	Ø	32	JCPB			✓
2									
3									
4									
5									
6									
7									
8									
9									
10									
11									
12									
13									
14									
15									
16									
17									
18									
19									
20									
21									
22									
23									
24									
25									
26									
27									
28									
29									
30									
31									
32									
33									

Drop #	Sonde Serial Number	Chn #	Time (Z)	Press. offset	Winds time	Operator Init.	Comments	Drop Status	GOOD ☒
34									
35									
36									
37									
38									
39									
40									
41									
42									
43									
44									
45									
46									
47									
48									
49									
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51									
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53									
54									
55									
56									
57									
58									
59									
60									

06/16/98

AVAPS PRE-FLIGHT CHECK:

- (1) Apply power to computer, VAPS fan and VAPS chassis
- (2) Verify no **ER** status lights on the four MWG cards
- (3) Set the computer time to GPS time
- (4) Start AVAPS and run the hardware checks via the **Utility** function
- (5) Start **Soundings** and set the **Project Name** and **Flight ID** (6) Perform a prelaunch check using all four channels simultaneously reading one sonde, look for reasonable data and no CRC error status lights, winds data is not expected. All AVAPS chassis status lights should be green.

NORMAL LAUNCH NOTES:

When selecting a sonde frequency, select a frequency other than the default (if there is a default), and away from other sondes in use.

Do not pull the Power Enable Pin during pre-launch setup until after the Umbilical is attached.

If pre-launch is complete, and more than 5 minutes remain prior to launch, replace the power Enable pin until 5 minutes prior to launch.

Don't put the sonde in the launch tube until you have removed the ribbon retaining tape.

Don't put the sonde in the tube until you have selected **Begin Data Collection**, and verified good data (good winds data is not expected).

The Power Enable Pin must be removed for at least two minutes prior to launch to allow for the Sonde GPS Oscillator to warm up.

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION
LOWE 9 LOWE

MISSION
MAP #9

NAVIGATOR
RATHBUN

AIRCRAFT COMMANDER
MCKIM

FLIGHT DIRECTOR
CZ 241C

SCHEDULED / ACTUAL TAKEOFF Z
1300Z / 1302Z

DATE OF TAKEOFF
13 OCT 99

WP	LAT / LON	RTE	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS
1	47 25.9 N 11 56.4 E																	
2	46 59.6 11 22.6																	
3	46 27.8 11 19.3																	
4	45 38.2 11 40.5																	
5	44 25.5 9 04.9																	
6	43 23.2 N 8 6 E																	
7	43 51 8 E						050						80					
8	44 42 9 22						303						19					
9	44 52 N 9 E						235						75					
10	44 06 N 7 36 E																	
11	44 36 N 8 30 E						124						112					
12	43 33 N 10 39 E						039						24					
13	43 51 N 11 E						305						105					
14	44 57.8 N 8 58.2 E																	
15	46 09.3 N 10 25.8 E																	
16	47 25.9 11 56.4																	
17	47 15.6 11 20.6																	
18	45 45 N 7 30 E																	
19	45 45 N 10 E																	
20	45 12.2 N 8 30 E																	

INS PERFORMANCE

BEGIN ALIGN
TIME

ALIGN
STATUS (0-5)

END NAV
TIME

START NAV
TIME

DELTA T

INS 1

INS 2

1102

0

17102

12502

4420

→

0

→

→

→

TERMINAL ERRORS

DELTA LAT

DELTA LON

RGS

RADIAL
ERROR

INS 1

INS 2

+5

+6

4

1

+2.1

+1.1

4

2

REMARKS

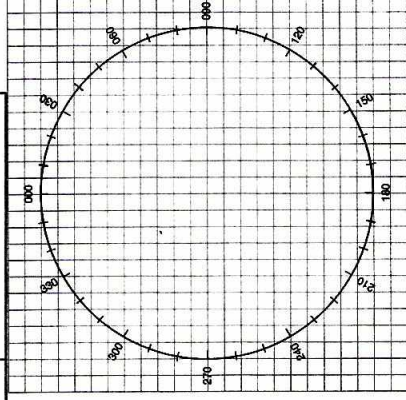
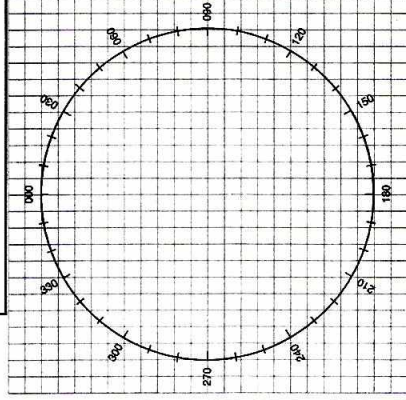
U.S. DEPARTMENT OF COMMERCE
NATIONAL AERONAUTICS AND SPACE ADMINISTRATION
AIRCRAFT OPERATIONS CENTER

CLEARANCES

[illegible]

MISSION LOG

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 / S _____

- HEADING TRUE/MAG

- AT _____ KTS TRUE/INDICATED _____

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

- WE ARE A F3 AIRCRAFT WITH _____ SOULS ON BOARD
- NATURE OF EMERGENCY

- ASSISTANCE DESIRED

- PILOT INTENTIONS

- WE HAVE

[illegible][illegible]