

MAP 991103H

Wet - MAP

991103H NOAA-42

<u>Sensor or system</u>	<u>Number or Name</u>
INE	2
Accelerometer	2
Temperature Probe	1
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:

Inertial Navigation System #2 was corrected using good GPS fixes during the flight.

Wind data may be highly degraded when the pitch is ± 10 degrees and/or when then roll is ± 30 degrees. Wind speed has an estimated error of ± 2.5 m/s in turns and wind direction can exceed 10 degrees in turns.

RA-159 had a spike at takeoff and landing and was replaced by RA-232.

JW Liquid Water instrument failed from take off to 114530z.

Wingtip dynamic pressure failed after 135630z.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	959.4	959.3
Corrected tower pressure	1028.0	1028.0

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: Jack Parrish, (813) 828-3310 ext. 3077.

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

FLT ID: 9110814	FM: LOW I	TO: LOW I
FLT NO: 00-12	BLK IN: 1553	ATA: 1549
ETD: 10Z	BLK OUT: 0947	RTD: 0954
ETE: 6	BLK TIME: 6:06 (6.1)	FLT TIME: 5:55 (5.9)
SPONSOR ORG: MAF	PROGRAM: WIT-VIN	PURPOSE:

OAO PERSONNEL

AC Kennel	SYS ENG Lynch ✓
CP Tennesen	DATA SYS M. Damapa ✓
NAV Newman	RADAR Hornbrook ✓
FE Moore	BT/ODW Carpenter ✓
RADIO	CLD PHYS
FD Parrish ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Jorgensen, D. ✓	P.I.	DSSL
Shepherd, T. ✓	Radar	✓
West, M. ✓	PMS	
Daxeabichler, H. ✓		
Gruber, V. ✓		
Pottschacher, W. ✓		

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

7-0 ATIS (AW) ATIS
 280/2 Vw/2 Flew 3 boxes (or partial boxes). Dropped 2 sondes.
 1028 9/9 neither had very good winds.
 10110 1028 Flew 2 most E boxes in fish air space.
 9.6/8.9 9/5.6 Some confusion about ATC coordination after
 959.7 200/7 1K leg.
 270/4
 958.758

991103H Wet-MAP

Time	LAT	LONG	TR	WD	WS	PA	GA	TA	TD	SL	PS		
0947	47 53	1121.1				457		9.8	8.8		959.4	13LX	
0957	47 17	1129	64	80	8	1754	1295	2.0	1.6	954	812	↑	
100515	47 206	1140.1	233	135	11.4	4350	3824	-11.5	-12.6	932	578	↑	
1026	46 14	10 24	227	211	27.5	7045	5321	-28.4	-31.0	831.4	408	-	
10415	45 22	9 23	219	196	30.2	7045	7143	-28.1	-29.5	1016.6	408		
105330	44 08	8 39	194	220	37.6	7044	7238	-28.5	-38	1026.7	408		
110505	43 45	8 31	196	202	35	7042	7237	22.4	-26.5	1024.1	408.1	Drop 1	
110945	43 48	8 18	280	210	44	7045	7235	-28.2	-40.1	1027	408	Drop 2	
1113	43 48	7 59	~	210	45	6578	6713	-25	-43	1025.5	450	↓ to 1012 P5	
112315	44 28	7 31	~	188	9	3334	2430	-4.1	-3.2	966	681	P6	
1140	44 56	8 57	~	234	10.8	3046	3022	-1.6	-2.6	1003.8	6967	P1	
1150	44 43	9 51	113	213	12	3049	2640	-2.1	-3.2	963	696		
115445	44 28	10 42	~	193	15	3052	2737	-1.8	-0.8	951	6968	P9	
1213	43 41	10 15	192	201	12	3053	3177	-1.7	-1.0	1021.5	696	P10	1217 Start
121930	43 42	9 48	↓	to 1K									#1
122930	44 03	9 06	307	81	10	244	306	15.1	13.4	1020.3	984	-1K	
123700	44 20	8 40	31	310	1	735	851	11.4	8.7	1022	901	P11	
1246	44 49	9 01	76	233	9	2770	2582	0.2	-1.1	980	722	P12	
125915	44 27	10 09	115	263	14	2770	2013	-0.1	-0.7	947	722		
131220	44 03	11 07	208	203	20	3369	3062	-3.5	-4.0	933	669	P13	
131810	43 43	10 55	~	207	11	3369	3453	-2.2	-5.8	1014	669	P14	
1323	STRUCK #2												
1332	44 09	9 46	293	170	17	3144	2820	-2.4	-3.3	949	671	↑ to 153	
133445	44 13	9 31	~	190	3.4	4319	4154	-9.0	-10.8	972	587	P15	
1340	44 35	9 44	~	188	14.8	454	4154	-10.6	-11.2	939.9	571	P14	
134845	44 21.6	10 28.8	116	200	16.7	4584	3932	-9.9	-11.4	937	571		
135630	44 07	11 12	~	225	11.5	4585	3792	-10.0	-10.0	917	571	P13	
140230	43 47	10 56	~	211	22	4584	4671	-10.5	-14.9	1016.5	571	P14	
141800	44 19	9 35	~	231	19	4581	4323	-10.1	-12.9	960	571	P15	
142130	44 34	9 42	~	210	17.2	4582	3743	-10.7	-10.4	943	571	P16	
143945	44 02	11 20	117	220	12.8	4586	4227	-10.3	-11.0	EXTENDING	116	P13	LEG
144145	43 58	11 31.5	~	237	23.6	4584	4167	-10.0	-23	979.7	571	P13	
1448	43 42	11 08	304	197	17.5	4583	4606	-10.4	-16.8	1005.6	570.7	P14	
145345	43 57	10 26	295	180	14	4583	4003	-10.2	-10.5	928	571	CROSSING BARRS	
150045	44 07	9 59	325	210	11	4587	4489	-10.7	-13.6	963	571	P15	END OF SCIENCE
150645	46 18	11 11	23	221	16	5023	3398	-73.5	-15.8	822.6	541.7		
1543	47 19	11 44	256	115	6	2855	1482	-4.7	-4.9	892	730	↓ to LOWT	
1549	01												
1553	47 15.5	11 21.0				459		9.4	7.2	959.3	1M		

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION

MISSION

NAVIGATOR

AIRCRAFT COMMANDER

FLIGHT DIRECTOR

SCHEDULED / ACTUAL TAKEOFF Z

DATE OF TAKEOFF

WP

LAT / LON

RTE

MH

VAR
+E==>

TH

DR
+R==>

TRK

GS

WD

WS

ALT

TAS

LEG / TOT
DIST

LEG / TOT
TIME

PROP
ETA

ATA

REMARKS

P0

43 45 N
83 00 E

P5

43 45 N
008 00 E

P6

44 30 N
007 30 E

P1

44 57 N
009 00 E

P7

44 12 N
009 30 E

P-CENO

46 59.6 N
1122.6 E

B-20

46 27.8 N
1117.3 E

G1661

46 09.3
1025.8

40512

46 02.5 N
1006.9 E

406

44 57.8 N
008 58.2 E

CEN

44 25.5 N
004.9

INS PERFORMANCE

INS 1

INS 2

BEGIN ALIGN
TIME

ALIGN
STATUS (0-5)

END NAV
TIME

START NAV
TIME

DELTA T

0900

0

1600

1030

8400

0900

0

1700

1030

8400

TERMINAL ERRORS

INS 1

INS 2

DELTA LAT

DELTA LON

RGS

RADIAL
ERROR

-6

43.2

14

2

0

0

5

0

REMARKS

0920 260/3600

8 km vis

FEW 4

5 CT 1300

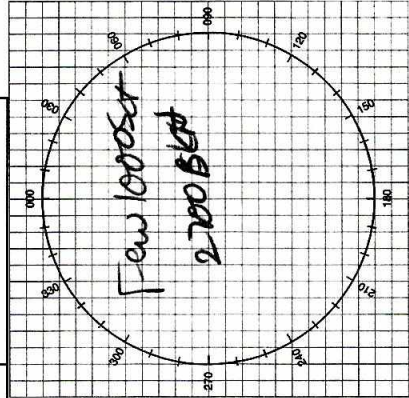
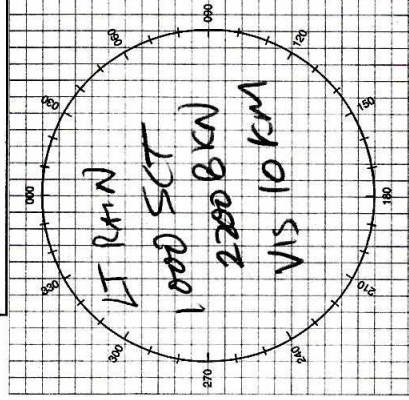
BKN 3500

10/10 1028

U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
AIRCRAFT OPERATIONS CENTER

PAGE OF

FREQ	ALT	HDG	OTHER
			① INN
			② BRENO
			③ BOLZANO
			④ LUSIL
			⑤ VOIG
			⑥ GEN
			INN VIA INNLS
			PSN 320 160
			1224



POSITION REPORT

5.9
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 _____, NOAA _____

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

[illegible]

-AT _____ KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE _____
WE ARE A B-2 AIRCRAFT WITH
SQUADRON BOARDS

- WE ARE A F-3 AIRCRAFT
- NATURE OF EMERGENCY

- ASSISTANCE DESINTE

- PILOT INTENTIONS

[illegible]

PAGE _____ OF _____

(G) - GPS (I) - INS (R) - RADIO (V) - VISUAL (C) - CELESTIAL (D) - DR

[illegible]

N42RF AVAPS DropSonde Log

N42RF Project: Map

Flight ID: 991103H

Mission: _____

Flight #: _____

System Status: O.K

Drop #	Sonde Serial Number	Time (Z)	Chn #	Press. offset	Winds time	Operator Init.	Comments Drop Status	BAD ☒	GOOD ☒
1	992 455 382	1105	1	0			Not: Telemetry, Int. wind		
2	992 455 555	1109	2	0	96		Lost winds		
3									
4									
5									
6							991104H		
7									
8	992 435 171	1425	1	-5	12				
9	992 435 071		2	0					
10									
11									
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14									
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