

MAP 991023H

Wet-MAP

991023H 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.

Dynamic Attack Pressure (DAP) froze between 1010z-1230z, and Dynamic Slip Pressure (DBP) froze between 0925z-1235z. They were both corrected using Fuselage Dynamic Pressure (PQF1) and a proper offset. Winds may be slightly degraded in this period.

Total Temperature Probe #1 froze between 1030z-1048z, and was corrected using the side viewing CO2 radiometer temperature plus proper offset during this period.

J/W Liquid Water instrument operated during the flight.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	938.0	937.0
Corrected tower pressure	1005.0	1006.0

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: 991023H	FM: LOWF	TO: LOWF
FLT NO: 00-09	BLK IN: 1329	ATA: 1326
ETD: 0602	BLK OUT: 0604	RTD: 0611
ETE: 7+	BLK TIME: 7:25(7.4)	FLT TIME: 7:15(7.3)
SPONSOR ORG: DSF	PROGRAM: MAP	PURPOSE: WET MAP #13

OAO PERSONNEL

AC Tennesen	SYS ENG Lynch ✓
CP Kenul	DATA SYS Carpenter ✓
NAV Newman ✓	RADAR Mc Namara ✓
FE Moore ✓	DT/ODW Newbrook ✓
RADIO	CLD PHYS
FD Parrish ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Torgensen ✓	P.I.	
Shepherd ✓	Radio	
Bartels ✓	PMS	
Behring ✓	Vis. Jor.	
Zar Katharala ✓	Vis. Jor.	

PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #) 136.8

16/8 FLY WET MAP → Drop PO → Then box pwr Milan.
 290/6 0820 - Ferry low failed - Ferry switched.
 1005 0910 - Radar died.

16/5
 938

LAAD 4715

1250
 60KM

16/7

1006

9K barb

29.71

6500

99102314 MAP (LOG) #13

TIME	LAT	LONG	TK	WD	WS	PA	GA	TA	TD	SP	PS		
0604	Out												
0611	OFF							16	5		938		
061745	4721	11 39	66	221	46	3731	3176	-4.9	-4.9	945	638	↑	
063330	46 31	11 15	240	196	30	5184	4467	-12.7	-15.2	871.7	527	-17K	
065030	45 46	10 04	209	204	38	6406	6306	-21.0	-22	983	446	-21K	
072520	43 49	8 27	241	212	53	6403	6510	-21.7	-24.3	1010.5	446	Drop Good	
074620	45 24	8 12	351	199	53	5818	5655	-19.5	-19.9	983	483	PT 9	
0754	46 02	8 04	~	223	45	5814	3930	-20.6	-29.6	793	484	PT 10	
080730	46 13	9 30	~	211	40	5812	4136	-19.1	-19.1	779	484	PT 11	
082130	45 24	10 03	254	200	40	5807	5799	-12.3	-12.8	996	484	PT 13	
~0830	PT 14												
084130	46 08	8 46	66	207	61	5806	5636	-19.4	-22	984	484	PT 15	
0848	46 15	9 28	~	211	57	5811	5310	-18.6	-18.2	760	484	P 11	
090430	46	8	221	203	54	5815	2958	-21.6	-28	721	484	P 10	
0919	46 15	9 27	~	203	59	5810	4529	-19	-18.5	857	484	P 11	
092445	46 00	10 00	92	199	58	5808	3765	-17.1	-16.9	797	484	P 16	0929 P.17
094345	44 59	10 34	88	211	41.7	5810	5868	-17.3	-16.7	1004.2	484.3	PT 22	0949 P.21
095240	45 02	11 08	2	198	45	5809	5889	-17.0	-17.0	1005.7	484	PT 20	
10 04	46 01	11 10	359	208	43	5810	5058	-17.8	-18.3	941	484	PT 20	
101830	46 00	10 36	~	214	49	5811	4103	-17.4	-18.5	828	485	PT 17	
103315	45	1032	90	204	45	5804	5857	-10.7	-17.2	987	484	PT 22	
104240	45	11 40	~	208	37.5	6101	6204	-16	-21.9	999	465	PT 2	
105945	46	10 58	~	173	36	6102	5523	-19.8	-20.5	911	400	PT 4	
1115	45	11 04	88	212	57	6047	6099	-18.1	-19.4			PT 1	
112025	45	11 40	~	224	46	5510	5604	-15.2	-15.5	1007.5	504	PT 2	
113615	45 42	11 44	212	219	42.7	5512	5533	-14.8	-16.2	999.5	504	Form 12/3081	
1150	45 00	12 00	~	223	37.7	5510	5603	-14.4	-15	1007.5	504	N LUG 10/3081	
120630	46 27	11 57	~	190	33.9	5513	3768	-14.9	-16.3	774.4	504.8	END OF LUG 10/3081	
121015	46 30	12 22	~	189	42.2	5514	4009	-14.6	-15.7	836.5	504.3	NE PT	
122045	45 42	12 25.4	180	191	35	5513	5578	-14.6	-16.0	1004.7	5042		
1232	45 00	12 28	~	209	37	5515	5603	-14	-15	1005.7	504.1	SE PT	
124245	45	11 17	~	215	49	5517	5579	-15.3	-17.2	1005.7	504.1	→ TO LOWE	
1248	↓ to LOWE												
1311	47 23	11 39	57	231	17.5	4071	1963	-7.1	-9.4	786	617	↓ to land	
131830	47 18	11 37	254	170	6	2104	1501	4.2	0.1	941	790	↓	
1326	47 15	9 21											On
1329	47 15.5	11 01.2	BLACK IN			655		20.3	3.2		937	BLACK	

INS PERFORMANCE		INS 1	INS 2
BEGIN ALIGN TIME		0430	0430
ALIGN STATUS (0-5)		0	0
END NAV TIME		1330	1330
START NAV TIME		0600	0600
DELTA T		9400	9400

TERMINAL ERRORS		INS 1	INS 2
DELTA LAT	1.5	1.7	1.7
DELTA LON	1.5	4.0	-4.0
RGS	1.0	1.0	2
RADIAL ERROR	1.5	3.0	3.0

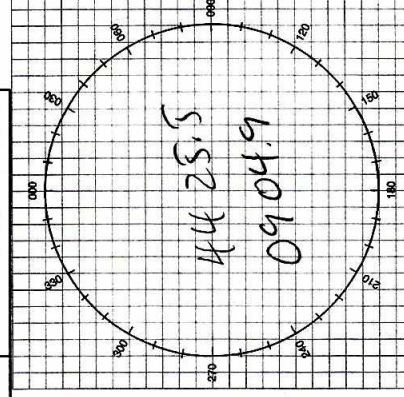
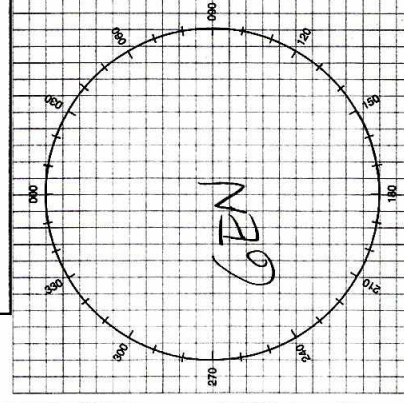
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CLEARANCES

FREQ	ALT	HDG	OTHER
			"L" VIS 35 KM
			26000 SET 12000 BEN
			Temp 100.5
			WINDSHEAR MON 2003
			OK EST 10,000
			ROLLING IN 160 1517

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:

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

- 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 REQUIRED

- ASSISTANCE DESIGNED
- PILOT INTENTIONS

- PILOT INTENTIONS
- WE HAVE
- ENDURANCE REMAINING

[illegible]

N42RF AVAPS DropSonde Log

N42RF Project: MAP 99 Flight ID: 99102314

Mission: _____ Flight #: MAP # 12 System Status: O.K.

Drop #	Sonde Serial Number	Time (Z)	Chn #	Press. offset	Winds time	Operator Init.	Comments Drop Status	BAD ☐	GOOD ☐
1	992 455 361	0725	1	- .8	30	gh			☒
2									
3									
4									
5									
6									
7									
8									
9									
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