

MAP 991106H1

MAP Gap Flow

991106H1 NOAA-42

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

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 the 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.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	940.2	938.7
Corrected tower pressure	1007.8	1020.5

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: <i>A1106H</i>	FM: <i>LOWI</i>	TO: <i>LOWI</i>
FLT NO: <i>00-14</i>	BLK IN: <i>1036/1934</i>	ATA: <i>1031-1728</i>
ETD: <i>8Z</i>	DLK OUT: <i>0828/1351</i>	RTD: <i>0837/1356-148</i>
ETE: <i>2</i>	DLK TIME: <i>2:08(2.1) 5:43</i>	FLT TIME: <i>5:32(5.5)</i>
SPONSOR ORG: <i>MAF</i>	PROGRAM: <i>Cap-Flow</i>	PURPOSE:

OAO PERSONNEL

AC <i>Vermosen</i> ✓	SYS ENG <i>Lynch</i> ✓
CP <i>Kenul</i>	DATA SYS <i>Hornbrook</i> ✓
NAV <i>Newman</i> ✓	RADAR <i>McNamara</i> ✓
FE <i>Moore/Bast</i> *	DT/ODW
RADIO	CLD PHYS <i>Floyd</i> *
FD <i>Parrish</i> ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
<i>Nance, L.</i> ✓		
<i>Dutton, D.</i> ✓	<i>Nance,</i>	
<i>Stevenson, R.</i> ✓	<i>Ralph</i> *	
<i>Gabersol, S.</i> ✓	<i>Small</i> *	
<i>Shepherd, T.</i> ✓		
<i>Colman, B.</i> ✓	<i>Colman</i>	
<i>Pumpel, H.</i> ✓	<i>Shepherd</i>	
<i>Mullandore, G.</i> ✓	<i>Argenson</i> *	
<i>Dabernil, H.</i> ✓		
<i>Salches, M.</i> ✓		

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

29.77 Delayed due to data system problem.
 1007.8 - From high alt, lots of clouds in Brenner.
 8/6 - Unable to work up into Brenner Valley.
 270/10 29.85 1515Z - Lost ABN 159
 8.5/5.5 265/7 155940Z - CA Merlin 158415 - CA ARAST
 9402 942.5 161845 - CPA Electra
 260/8

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2

FLT ID:		TIME OFF:		TIME ON:	
	A/C T/O	WX STN	A/C LAND	WX STN	
PRESSURE					
NO DATA DISPOSITION/DATE/QUALITY					
1/SEC FLT LVL TAPES					
FAST FLT LVL TAPES					
RADAR TAPES					
DOPPLER TAPES					
ODW CASSETTES					
HARD COPIES					
AXDT					
AXCP					
ODW					
PHOTOGRAPHY					
	FWD	LS	RS	VERT	
ON					
OFF					
RATE					
REMARKS					

99110614 Gap Flow

25/540

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Time	LAT	LOD	TK	WD	WS	GA	PA	TA	TD	SP	PS		
0828	Out							10	3		940		Block
0839	4716.1112.8	291	97	12	1896	1107	3.0	0.6	927	800	T		
084845	4721.1112	51	232	30.7	4962	7902	-18.3	-20.9	904	5458			
085030	4722.1121	100	234	27	4953	2006	-18.3	-20.2	847	5437	-16K	08810	
090030	4657.1130	340	218	39	4629	3001	-14.6	-22.6	792	566	-15K	090645	
090910	4722.1114	141	246	30.7	5265	3438	-20.7	-23.7	856	522	-17K	092250	
092653	4631.1145	337	227	36	4629	2549	-15.3	-18.2	802	567	-15K		
094645	4717.1140	247	285	4.6	1635	406	8.4	0.8	845	853	4.5K		
095620	4716.1113	116	271	5.4	1190	9087	8.5	2.3	910	878	3.5K	100212	
100430	4716.1131	257	99	3.1	1431	719	9.0	0.1	926	853	4.5K		
101140	4718.1121	94	62	6	1433	771	1.2	1.5	936	853	4.5K		
101940	4718.1138												
1024	4715.1114	110	48	6.3	1501	641	48	7	912	843	→ to land		
1036	4715.1121.2				639		13.6	1.9			Block		
1351	4715.1121						5.5	4.1		944	Block		
1400	4719.1137	71	300	11.3	3195	2517	-10.3	-11.7	938	665	T		
141145	4737.1052	291	181	46	5797	4721	-24.7	-26	911.6	485	-19K		
14275	4733.919	196	170	24	5799	5210	-26.7	-18.2	949	484			
1439	4648.90												
14530	4530.856	174	145	15	5244	5004	-19	-21	985	525	↓		
141015	4443.903	176	330	7	3061	2442	-5.3	-4.4	132	695			
152030	4348.830	217	4	11	1702	3317	10.8	0.9	11	802	-6K	NA	
1543	4315.724	230	353	23	1925	1828	2.9	-7.6	1001	803			
155930	4251.614	240	320	52	1927	1868	0.8	-1.5	1007.8	802.6			
161050	4229.526	329	46	1922	1898	-7.9	-7.7	1013.8	802	14 R B			
161355	4230.526	60	319	19	1925	1897	-1.3	-4.2	1012.6	802.7	PT B → A		
162845	4259.632	59	322	53	1925	1856	+1.9	-12.4	1005	802			
1652	4342.812	58	359	37	1931	1836	-1.5	-2.9	1005	801.7	165715	ENJ	
172230	4527.659	345	120	21	6098	3455	-27	-29			P3		
173645	4529.82	99	3	28	3369	3032	-10.1	-10.7	977	669	P2		
175315	4529.927	92	84	19	3364	3166	-7.4	-7.7	970	669	175930	ENJ	
18025	4527.956	266	94	26	3371	3189	-7.4	-7.2	993	669	P1-P2		
181115	4527.901	266	89	31.5	8367	3150	-7.6	-7.9	987	669			
1825	4527.818	88	24	41	3016								
1829	4524.829	85	44	35	2744	2498	-6.3	-7.2	988	124	ENJ	1829	
183830	4528.913	87	98	11	2734	2535	-4.2	-4.6	989.5	725			
184750	4527.1000	91	106										
190045	4605.1053	43	109	28	5487	3754	-20.9	-21.7	956	506	→ to land		
1934	4715.1121.2					551	6.0	-3.2		9488	Block		

INS PERFORMANCE		INS 1	INS 2
BEGIN ALIGN TIME		0600	0600
ALIGN STATUS (0-5)		1	1
END NAV TIME		1030	1434
START NAV TIME		0815	0815
DELTA T		2.2	2.2

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	-1.6	+1.0
DELTA LON	-1.4	-1.3
RCS	7	2
RADIAL ERROR	2	1

[illegible]

1

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

6. NEXT POSITION

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:

- WE HAVE _____ ENDURANCE REMAINING _____

[illegible]