

AROBEX

Mission #7

Flight #7 000310H

<u>Sensor or system</u>	<u>Number or Name</u>
INE	1
Accelerometer	1
Temperature Probe	2
Dew Point Probe	2
Altitude (for vertical wind)	RA-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2002.CON

Notes:

Takeoff: 1444Z

Land: 1921Z

Prior to and during takeoff, the radar altimeter (RA-159) was replaced by the RA-232 (1440:01-1443:23). The RA-159 had 5 spikes removed and patched (1446:40-1447:10, 1454:50-1455:10, 1459:15-1459:45, 1503:50-1504:20(2)). The RA-159 was replaced by the RA-232 (for communication reasons) with a +2 meter offset from 1507:30-1513:30. The RA-159 had 31 spikes removed and patched (1530:30-1513:50, 1517:00-1517:30, 1522:10-1522:40(2), 1524:30-1524:50, 1536:00-1536:20, 1536:30-1537:00, 1537:30-1537:50, 1549:15-1549:35, 1553:40-1554:00, 1559:25-1559:45, 1601:35-1601:55, 1602:45-1603:05, 1603:25-1603:45, 1608:00-1609:00(3), 1636:50-1637:35(2), 1643:15-1643:35, 1658:10-1658:30, 1659:25-1659:45, 1701:25-1701:45, 1708:40-1709:00, 1712:15-1712:35, 1715:25-1715:45, 1733:10-1733:40, 1736:30-1736:50, 1752:10-1752:30, 1753:50-1754:10(2)). The RA-159 was replaced by the RA-232 (communications) with a +10 meter offset from 1825:56-1828:57. The RA-159 had spikes removed and patched (1836:10-1836:40(2)). Prior to and during landing (due to spiking) the RA-159 was replaced with the RA-232 (1921:36-1925:00).

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1014.2 mb	1012.3 mb
Corrected tower pressure	1018.3 mb	1017.3 mb

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 Director: Tom Shepherd, (813) 828-3310 ext. 3053

Flt ID: 000310H	From: PANC	To: PANC
Flt No.: 00-32	Blk In: 1931	ATA: 1922
ETD: 11445	Blk Out: 1432	ATD: 1443 4.7
ETE: 1940	Blk Time: 459 5.0	Flt Time:
Sponsor Org: NESDIS	Program: AROBEX	Purpose: coordinated SAR overpass

AOC Personnel

AC: Kewul, P. ✓	Sys Eng: McMillan, S. ✓
CP: TAGGART, B. ✓	Data Sys: HORN BROOK, C. ✓
Nav: NEWMAN, C. ✓	Radar:
FE: TORREY, R. ✓ / MOORE, B. ✓	GPS/BT: CARPENTER, D. ✓
Avionics: ROGERS, M.	Cld Phys:
FD: SHEPHERD, T. ✓ / CZYZYK, S. ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, P. ✓	PI	NESDIS
CARSWELL, J. ✓	SCIENTIST	UMASS
CONNER, L. ✓	SCIENTIST	UCAR/NESDIS
CASTELS, A. ✓	SCIENTIST	UMASS
WINTER, D. ✓	OBS.	AOC

Proposed/Actual Mission/Remarks (Recco, Fixes, Storm, PENET, NHOP #)

APN 159 STBY 1825-1828

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center					AOCWF2
Flt ID: 000310H		Time Off: 1443		Time On: 1922	
	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)	
Pressure	1014.2	30.07	30.04	1012.3	
	Number	Data Disposition/Date/Quality			
Slow/Fast Flt Lvl Tapes	2				
Radar Tapes	1				
Cloud Physics Tapes					
Video Tapes	4				
Flt Lvl Data Printout	2 copy				
AXBT					
AXCP					
AXCTD					
GPS	20				
Video					
	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					
Remarks					

1921

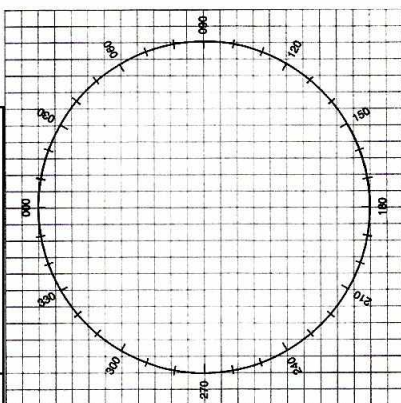
Form 413-50

U.S. Dept. of Commerce/Aircraft Operations Center

[illegible]

[illegible]

POSITION REPORT



PILOT INTENTIONS
WE HAVE _____ ENDURANCE REMAINING _____

[illegible]

PAGE OF

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

[illegible]

INS PERFORMANCE		INS 1	INS 2
BEGIN ALIGN TIME		1330	1330
ALIGN STATUS (0-5)		0	0
END NAV TIME		1930	1930
START NAV TIME		1430	1430
DELTA T		5.0	5.0

TERMINAL ERRORS		
	INS 1	INS 2
DELTA LAT	+2.4	-1.0
DELTA LON	-1.5	+2.3
RGS	6	7
RADIAL ERROR	3.0	1.5

[illegible]

Mission : # 6

Flight ID : 000310H

Landing : _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Comments
1	984 715 241	1	0	1530		DWC	No Launch detected
2	972 440 008	2	0	1531	40		Good Drop
3	984 715 075	1	0	1535	9		
4	984 715 079	2	0	1543	11		
5	984 715 267	1	-1.5	1554	49		
6	974 010 096	2	-2.1	1611	17		
7	974 150 021	1	0	1632	14		
8	984 715 185	2	0	1640	12		
9	974 530 074	1	-1.1	1648	17		
10	972 340 081	2	0	1653	47		
11	972 340 014	1	0	1656	25		
12	974 510 116	3	0	1659	15		
13	984 715 005	2	0	1717	32		
14	973 730 046	1	-0.5	1723	22		
15	972 440 031	3	0	1730	18		
16	984 325 582	2	0	1742	72		
17	972 440 034	1	0	1744	25		
18	971 750 038	3	0	1752	35		
19	984 925 081	2	0	1830	18		
20	994 325 098	1	-2.9	1839	16		
	994 325 181	3	0				