

AROBEX

Mission #9

Flight #9 000313H

Sensor or system

Number or Name

INE	2
Accelerometer	2
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: 2229Z

Land: 0619Z

Both dewpointers were overshooting as the aircraft passed through saturated conditions or as the aircraft ascended or descended to different operational altitudes. No attempt was made to correct overshooting the 3 major times it occurred during the flight (0121:40-0124:40, 0208:35-0210:40, 0307:20-0308:40). Dewpoint temperatures exceeded ambient temperatures by 1° C or less several times during the flight (in addition to the times previously noted) as the aircraft passed through saturated conditions. These excursions above ambient were not corrected.

Prior to and during takeoff, the radar altimeter (RA-159) was replaced by the RA-232 (2226:00-2228:37) due to spiking. There were 45 spikes in the RA-159 data that were removed and patched (2248:35-2249:05, 2258:45-2259:15, 2304:00-2304:30, 2310:40-2311:10, 2313:00-2313:30, 2319:25-2319:55, 2322:45-2323:15, 2326:35-2327:05, 2331:15-2331:45, 2337:50-2338:20, 2352:20-2352:50, 2352:55-2353:40(2), 2356:15-2356:45, 2359:00-2359:30, 0002:00-0002:30, 0003:50-0004:20, 0006:45-0010:45(5), 0016:30-0019:40(3), 0029:55-0030:20, 0032:30-0033:00, 0037:00-0038:00, 0041:40-0042:10, 0046:10-0046:40, 0055:00-0056:10(2), 0100:50-0101:20, 0110:10-0110:40, 0112:55-0113:25, 0128:45-0129:15, 0220:00-0220:30, 0236:10-0236:40, 0259:40-0300:10, 0406:15-0406:45, 0419:20-0419:50, 0448:25-0448:55, 0459:55-0500:25, 0504:40-0505:10, 0509:15-0509:45). Prior to and during landing the RA-159 was replaced by the RA-232 due to spiking (0618:24-0622:00).

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	1001.3 mb	1007.7 mb
Corrected tower pressure	1004.7 mb	1009.8 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: 000313H	From: PANC	To: KBFI
Flt No.: 00-34	Blk In: 0624	ATA: 0619Z
ETD: 2230Z	Blk Out: 2217Z	ATD: 2229Z
ETE: 0630Z	Blk Time: 8:07 8.1	Flt Time: 07:50 7.8
Sponsor Org: NESDIS	Program: AROBEX	Purpose: Ferry → Seattle SAR overpam enroute

AOC Personnel

AC: KENUL, P ✓	Sys Eng: MS MILLAN, 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 / GYZYL, S ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, P ✓	PI	NESDIS
CARSWELL, J ✓	PSAT SCIENTIST	UMASS
CONNER, L ✓	SCIENTIST	UCAR/NESDIS
CASTELS, A ✓	SCIENTIST	UMASS
Curry, J ✓		AOC
BROWN, Z ✓		AOC

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

2979	3024
3019	
2229	2217
7.50	8.07

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center					AOCWF2
Flt ID: 000313H		Time Off: 2229Z		Time On: 0619Z	
	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)	
Pressure	1001.3	29.67	29.82	1007.7	
	Number	Data Disposition/Date/Quality			
Slow/Fast Flt Lvl Tapes	2				
Radar Tapes	2				
Cloud Physics Tapes					
Video Tapes	2				
Flt Lvl Data Printout	2 copy				
AXBT					
AXCP					
AXCTD					
GPS	13				
Video					
	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					
Remarks					

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

Form 413-50

[illegible]

INS PERFORMANCE		INS 1	INS 2
BEGIN ALIGN TIME		2100	2100
ALIGN STATUS (0-5)		0	0
END NAV TIME		0630	0634
START NAV TIME		2200	2200
DELTA T		8.5	8.5

TERMINAL ERRORS		INS 1	INS 2
DELTA LAT	+ 8		
DELTA LON	- 5.6		
RCS	4		2
RADIAL ERROR		3	1

[illegible]

NOAA • AOC • SED
N42RF AVAPS DROP LOG

Project : AROBEX '00

Mission: #8 → Seattle

Flight ID: 000343H

Take Off: _____

Landing : _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Comments
1	993 915 006	1	0	0054	31	DWC	Good Drop
2	994 925 244	2	0	0215	15		Lost winds
3	993 915 040	3	0	0216	19		Good Drop
4	994 024 121	4	0	0223	16		
5	993 915 082	1	0	0236	27		
6	994 315 009	2	0	0244			Nowinds
7	984 715 181	3	0	0245	15		Good Drop
8	994 315 038	4	0	0250	17		
9	994 315 037	1	0	0418	22		
10	994 338 016	2	0	0415	23		
11	994 015 048	3	0	0442	24		
12	994 325 061	4	0	0504	19		
13	993 915 058	1	0	0520	29		
14	993 925 329	2	0				
15	994 335 239	3					
16	994 325 100	4					
17	993 915 004	1					
18	994 325 182	2					
19	994 338 024	3					
20	993 925 253	4					

