AROBEX
Mission #6

Flight #6 000308H

Sensor or system	Number or Name
INE	1
Accelerometer	1
Temperature Probe	1
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: 0154Z
Land: 0707Z

The dynamic fuselage sideslip pressure had a downward spike at 0444:04 that was removed and patched with respect to the dynamic fuselage pressure.

Prior to and during takeoff, the radar altitude (RA-159) was set to zero from 0151:01-0154:12. The RA-159 had 5 spikes removed and patched (0156:45-0157:30(2), 0212:30-0213:00, 0214:40-0215:10, 0216:15-0216:45). The RA was replaced by the RA-232 (for communication reasons) with a 0 meter offset from 0217:14-0221:34.The RA-159 had 1 spike removed and patched (0223:00-0223:20). The RA-159 was replaced by the RA-232 (communications) with a 4 meter offset from 0225:00-0225:50. The RA-159 had 17 spikes removed and patched (0231:15-0231:45, 0244:40-0245:10, 0259:10-0259:40, 0305:20-0305:50, 0308:45-030915, 0311:00-0311:30, 0314:50-0315:20, 0354:25-035455, 0406:10-0406:40, 0408:00-0408:30, 0414:50-0415:20, 0416:10-0416:40, 0428:10-0428:40, 0436:30-0437:00(2), 0438:15-0438:45, 0444:45-0445:15). The RA-159 was replaced by the RA-232 (communications) with a 5 meter offset from 0501:00-0507:42. The RA-159 had 3 spikes that were removed and patched (0508:00-0508:30, 0511:00-0511:30, 0519:15-0519:45). The RA-159 was replaced by the RA-232 (communications) with a 12 meter offset from 0619:00-0629:08. The RA-159 had 4 spikes that were rmeoved and patched (0634:15-0634-45, 0634:25-0634:55, 0651:30-0652:00, 0654:05-0654:35). Prior to and during landing (due to spiking) the RA-159 was replaced by the RA-232 from 0706:12-0710:00.

	Takeoff	Landing
Aircraft static pressure	1011.8 mb	1012.4 mb
Corrected tower pressure	1015.9 mb	1016.3 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

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

AOCWF1

Flt ID: 000308H	From: PANC	To: PANC
Flt No.: 00-36	Blk In: 0714	ATA: 0707
ETD: 0200Z	Blk Out: 0144	ATD: 0154
ETE: ~~Recco~~	Blk Time: 5.5	Flt Time: 6:13 5.2
Sponsor Org: NESDIS	Program: AROBEX	Purpose: coordinate SAR overpass

AOC Personnel

AC: Kenul, P ✓	Sys Eng: McMillan, S ✓
CP: Jaggait, B ✓	Data Sys: Harnbrook, C. ✓
Nav: Newman, C ✓	Radar:
FE: Moore, B ✓	GPS/BT: Carpenter, D. ✓
Avionics: Rogers, M. ✓	Cld Phys:
FD: Shepherd, J / C343YKS. ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
Chang, P ✓	PI	NESDIS
Carswell, J ✓	Scientist	UMass
Conner, L. ✓	"	UCAR/NESDIS
Castillo, A. ✓	"	U MASS
Sokolowski, T ✓	Observer	NOAA/Tsunami Warn Ctr

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

APN 159 off (stby) ~0218-0221
APN 159 stby 0503-
APN 159 stby 0616
Science over @ 0647 for ATC issues

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

AOCWF2

Flt ID:	Time Off:	Time On:
000308H	0154	0707

	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
Pressure	1011.8	30.00	30.91	1012.4

	Number	Data Disposition/Date/Quality
Slow/Fast Flt Lvl Tapes	2	
Radar Tapes	1	
Cloud Physics Tapes		
Video Tapes	4	
Flt Lvl Data Printout		
AXBT		
AXCP		
AXCTD		
GPS	20	

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

3001

Flight ID: 000308H

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

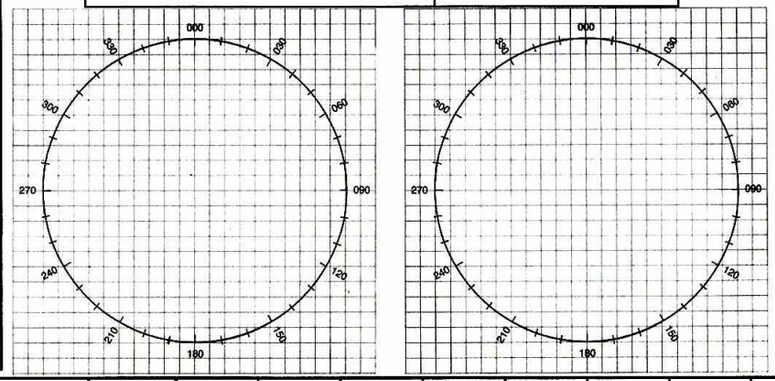
Form 413-50

Time	Lat	Lon	Trk	Hdg	Ta	Td	WD	WS	PA	GA	PS	SP	Remarks
022955	5644	15224	185	183	-4.1	-7.1	123	13.4	760	741	924.5	1015.7	Drop 1
023850	5714	15231	195	188	-4.3	-7.1	127	312	764	740	924.7	1014.7	Drop 2
024900	5842	15217	141	139	-4.2	-7.8	118	25.7	762	738	924.8	1015.0	3 No Climb
0249													Drop 4
025905	5884	15139	148	147	-4.3	-6.7	123	26.9	763	741	924.9	1015.0	" 5
031200	5735	15053	146	146	-4.3	-7.0	130	21.9	760	738	926.3	1015.3	2500 ft - MVFR
033130	5655	15100	260	255	-4.0	-3.8	136	21.0	753	724	926.3	1014.3	Drop 6
034004	5650	15201	263	259	-3.4	-4.6	125	28.3	779	736	923.6	1012.6	" 7
035400	5641	15330	258	250	-3.1	-2.8	130	37.4	781	718	922.9	1009.5	" 8 0 Pass
040000	5639	15415	269	262	-2.7	-2.4	132	35.8	785	705	922.7	1007.4	" 9
040645	5636	15500	259	250	-2.9	-3.3	131	48.3	843	748	916.0	1005.9	" 10
041523	5629	15601	258	248	-3.5	-3.9	134	52.3	861	745	914.1	1003.5	" 11
042524	5621	15710	257	246	-3.2	-3.3	131	55.2	882	744	911.8	1000.3	Drop 12 unclr
044513	5625	15632	77	88	-3.0	-4.5	135	43.0	895	770	910.4	1002.8	Drop 13 in cld X
045100	5633	15530	79	87	-3.2	-3.0	127	39.4	898	796	909.8	1005.5	Drop 14 in cld
050553	5639	15435	90	98	-3.5	-3.2	127	42.4	894	(829)	910.7	1010.9	Drop 15
051518	5639	15345	84	92	-3.4	-2.8	127	35.1	830	765	917.1	1009.6	Drop 16
052700	5647	15246	71	84	-3.8	-3.9	125	32.1	820	771	918.8	1011.8	17
053900	5655	15130	77	85	-4.1	-6.7	134	29.4	791	756	921.9	1013.5	18 X
0551													End leg
055320	5705	15014	324	326	-5.1	-4.9	130	26.5	794	770	921.4	1015.7	LVL 2500' to 10K
05556													Begin climb
060139	5733	15050	333	332	-12.3	-43.9	168	29.1	3149	3046	688.0	1009.1	LVL out 10K
061203	5814	15138	325	325	-14.9	-35.9	156	31.6	3150	3040	687.9	1013.3	Drop 19 LVL 10K
062340	5855	15232	324	324	-16.0	-23.5	155	29.2	3138	3067	688.9	1019.5	Drop 20
065000	6043	15132	32	36	-8.7	-34.3	175	21.3	2115	2036	783.8	1013.0	Descend -> PANC

CLEARANCES			
FREQ	ALT	HDG	OTHER

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:

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 _____Z
- 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 DESIRED
- PILOT INTENTIONS
- WE HAVE _____ ENDURANCE REMAINING

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
0144																					48K TAXI 3000
0154																					TOF
0312																					40.4K 5500
0436																					5200 28 33K
0706																					LAND
0714																					BLOCK

NOAA FORM 56-49
(2-95)

MISSION PREFLIGHT LOG

DESTINATION	MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
PAN C	AROBEX	NEWMAN	KENUL	CZYZYK	0200 / 0154	7 MAR ØØ

WP	LAT / LON	RTE	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS
0	----------												-----	-----				
1	45												-----	-----				
2	60												-----	-----				
3	62 162									1			-----	-----				
4	132 294			3 404 −44 360		388				192 110			-----	-----				
5	110 404									302			-----	-----				
6	140 544	TUTR		1090									-----	-----				
	----------								140									
	----------												-----	-----				
	----------								343									
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INS PERFORMANCE	INS 1	INS 2
BEGIN ALIGN TIME	0100	0100
ALIGN STATUS (0-5)	0	0
END NAV TIME	Ø700	0700
START NAV TIME	0200	0200
DELTA T	5.0	5.0

TERMINAL ERRORS	INS 1	INS 2
DELTA LAT	~~-2.2~~	-2.2
DELTA LON	/	+5.3
RGS	3	2
RADIAL ERROR	/	4

REMARKS
ZEROIZED #
1 IN FLIGHT

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

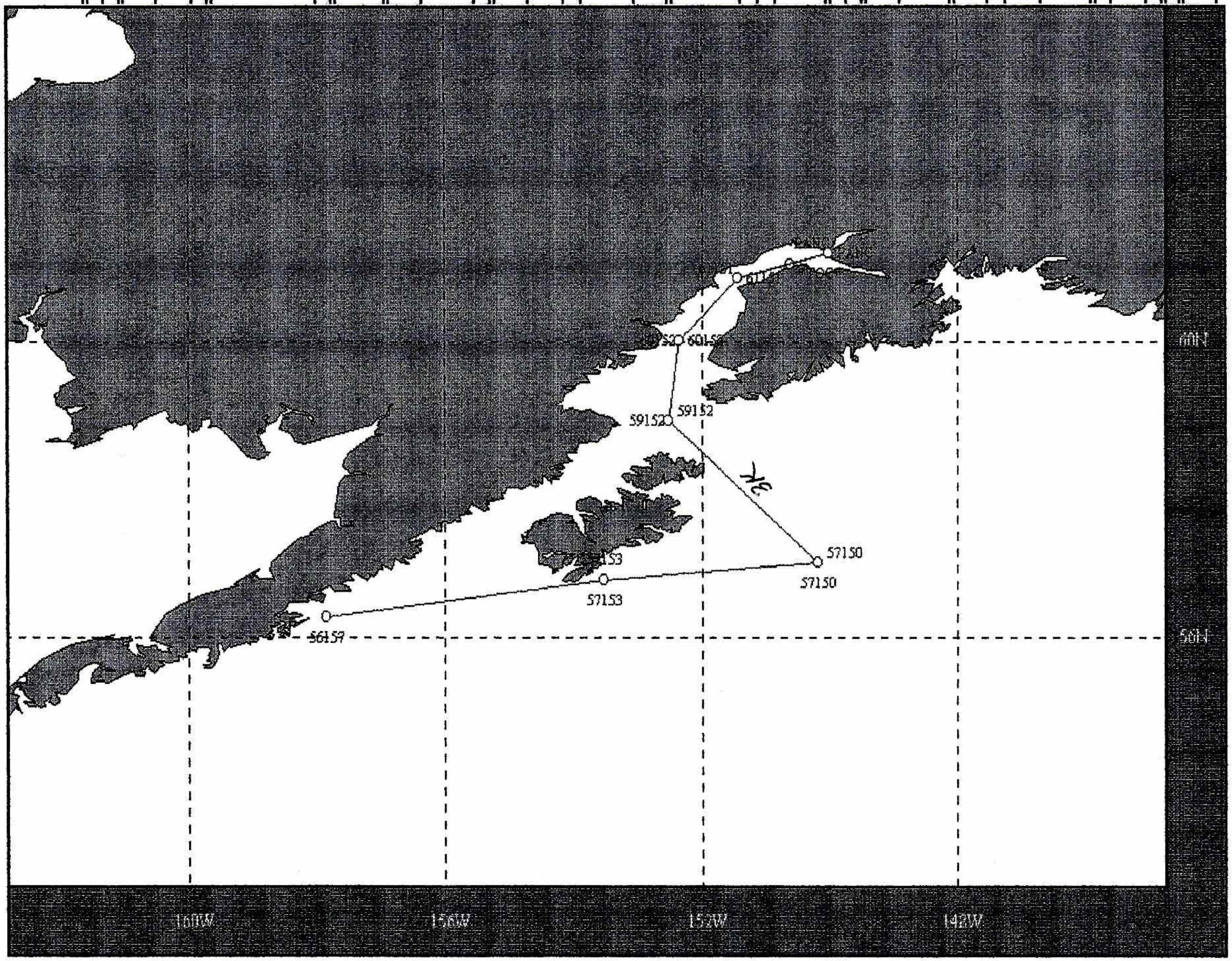
NOAA • AOC • SED

N42RF AVAPS DROP LOG

Project : AROBEX '00 Mission : #5 Flight ID : 000308H

Take Off : _____ Landing : _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Winds Time	Operator	Comments
1	984 715 240	1	0	0229	17	Duc	Good Drop
2	993 645 122	2	0	0258	14		Good Drop
3	993 655 054	1	0	0249			No Launch detect
4	993 655 140	2	0	0249	17		Good Drop
5	993 655 144	1	0	0259	17		
6	993 645 128	2	0	0331	24		
7	993 655 041	1	0	0340	18		
8	993 655 025	2	0	0354	15		
9	993 645 165	1	0	0400	16		
10	993 645 012	2	0	0406	18		
11	993 645 127	1	0	0415	20		
12	993 915 113	2	0	0425	10		
13	993 655 026	1	0	0445	34		
14	993 215 078	2	0	0456	44		
15	993 645 162	1	0	0505	10		
16	993 645 168	2	0	0515	38		
17	993 645 123	1	0	0526	24		
18	993 655 018	2	0	0539	24		
19	984 715 078	1	0	0612	20		
20	985 035 301	2	0	0622	19		
	~~984 715 244~~	~~1~~	~~.8~~				


60N
56N
160W
156W
152W
142W
60152
59152
59152
59152
3K
57150
57150
57153
57153
56157