

AROBEX

Mission #2

Flight #2 000224H

<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)	RA-159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO2002.CON

Notes:

Takeoff: 0202Z

Land: 0519Z

Dewpoint (DW1) had a spike removed and patched from 0405:45 to 0407:15. Dewpoint exceeded ambient temperature four other times during flight as aircraft flew through saturated conditions.

Radar altitude (RA-159) was replaced by RA-232 prior to and during takeoff due to spikes (0158:51-0203:16). RA-159 had eighteen spikes that were removed and patched (0228:00-0228:30, 0231:30-0232:00, 0240:00-0241:00, 0243:00-0244:00, 0248:30-0249:30, 0253:00-0253:30, 0256:30-0257:00, 0302:30-0303:00, 0312:30-0313:00, 0314:30-0315:00, 0316:00-0316:30, 0322:00-0322:30, 0325:00-0325:30, 0327:30-0328:00, 0330:15-0330:45, 0340:00-0340:30, 0342:00-0342:30, 0414:30-0415:00). The RA-159 was replaced by RA-232 (RA-159 placed in standby mode for communication reasons) from 0447:29 to 0504:16. The RA-159 was replaced by the RA-232 prior to and during landing due to spikes (0512:45-0522:00), and the RA-159 was set to zero from 0519:03 to 0522:00.

	<u>Takeoff</u>	<u>Landing</u>
Aircraft static pressure	990.2 mb	990.0 mb
Corrected tower pressure	994.2 mb	994.2 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: 000224H	From: PANC	To: PANC
Flt No: 00-26	Blk In: 0526Z	ATA: 0519Z
ETD: 0200	Blk Out: 0152Z	ATD: 0202Z
ETE: 0500Z	Blk Time: 3:34 3.6	Flt Time: 3:17 3.3
Sponsor Org: NESDIS	Program: AROBEX	Purpose: RADARSAT OVERPASS

AOC Personnel

AC: KENAL, P ✓	Sys Eng: M ^g MILLAN, S ✓
CP: TAGGART, B. ✓	Data Sys: HORNBYROOK, C ✓
Nav: NEWMAN, C ✓	Radar:
FE: MOORE, B ✓	GPS/BT: CARPENTAR, D. ✓
Avionics: ROGERS, M ✓	Cld Phys:
FD: CZYZYK, S ✓ / SIEPHERD, T ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
CHANG, P. ✓	PI	NESDIS
CARSWELL, J ✓	Sci.	UMASS
CONNER, L ✓	Sci.	UCAR/NESDIS
CASTELS, A. ✓	Sci.	UMASS
SENKOWSKY, S. ✓	Sci Science writer	ANCHORAGE Daily News
HEN, Joan ✓	observer	STAFF, SEN. MARKOWSKI
WELER, Patricia ✓	observer	STAFF, SEN. MARKOWSKI

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

IP, MIDDLETON Is (MDO) → 5830N, 15145W → MDO → PANC. Coordinated flight with RADARSAT overpass @ 0334Z

425 -	-4.0 - 13.1	46	6.4
850 -	-9.1 - 12.7	151	10.8
700 -	-20.6 - 22.6	134	24.6

TWIL DOWN 03:11:29

VENT. WIND OUT OF WACK ~0350

RS-159 STANDBY 0449-0503

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

AOCWF2

Flt ID: 000224H		Time Off: 0202Z		Time On: 0519Z							
A/C (Take Off)		Wx Stn (Take Off)		A/C (Land)		Wx Stn (Land)					
Pressure		990.2		29.36		990.0		29.36			
		Number		Data Disposition/Date/Quality							
Slow/Fast Flt Lvl Tapes		2									
Radar Tapes		2									
Cloud Physics Tapes											
Video Tapes		1									
Flt Lvl Data Printout		2		Gave Paul 1 copy							
AXBT											
AXCP											
AXCTD											
GPS		4									
								Video			
		Forward		Left Side		Right Side		Down		Remarks	
Time On											
Time Off											
Rate											
Remarks											

Form 413-50

[illegible]

CLEARANCES			
FREQ	ALT	Hdg	OTHER
			M00 58 30 N 145 W
			M00 / YES KAT #

POSITION REPORT

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**

- HEADING TRUE/MAG

- AT KTS TRUE/INDICATED

- FLIGHT LEVEL OR ALTITUDE _____

- WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD _____

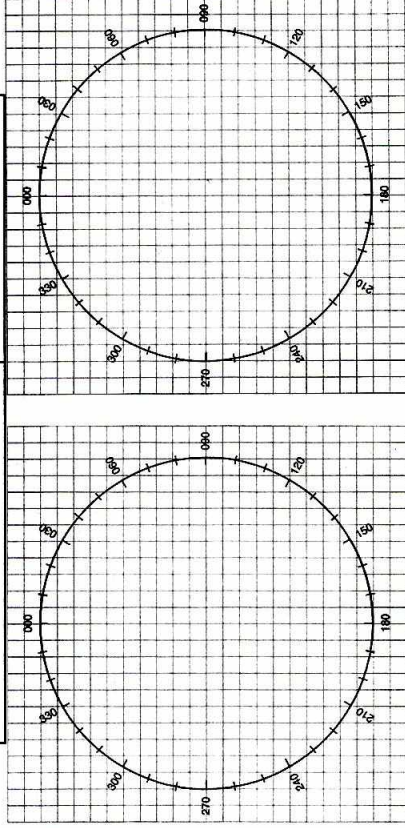
- NATURE OF EMERGENCY

- ASSISTANCE DESIRÉE
- BUT INTENTIONS

- PILOT INTENTIONS

- WE HAVE

ENDURANCE REMAINING

[illegible]

25
+ 24
+ 24

73

NOAA • AOC • SED

N42RF AVAPS DROP LOG

Project : AROBEX '00

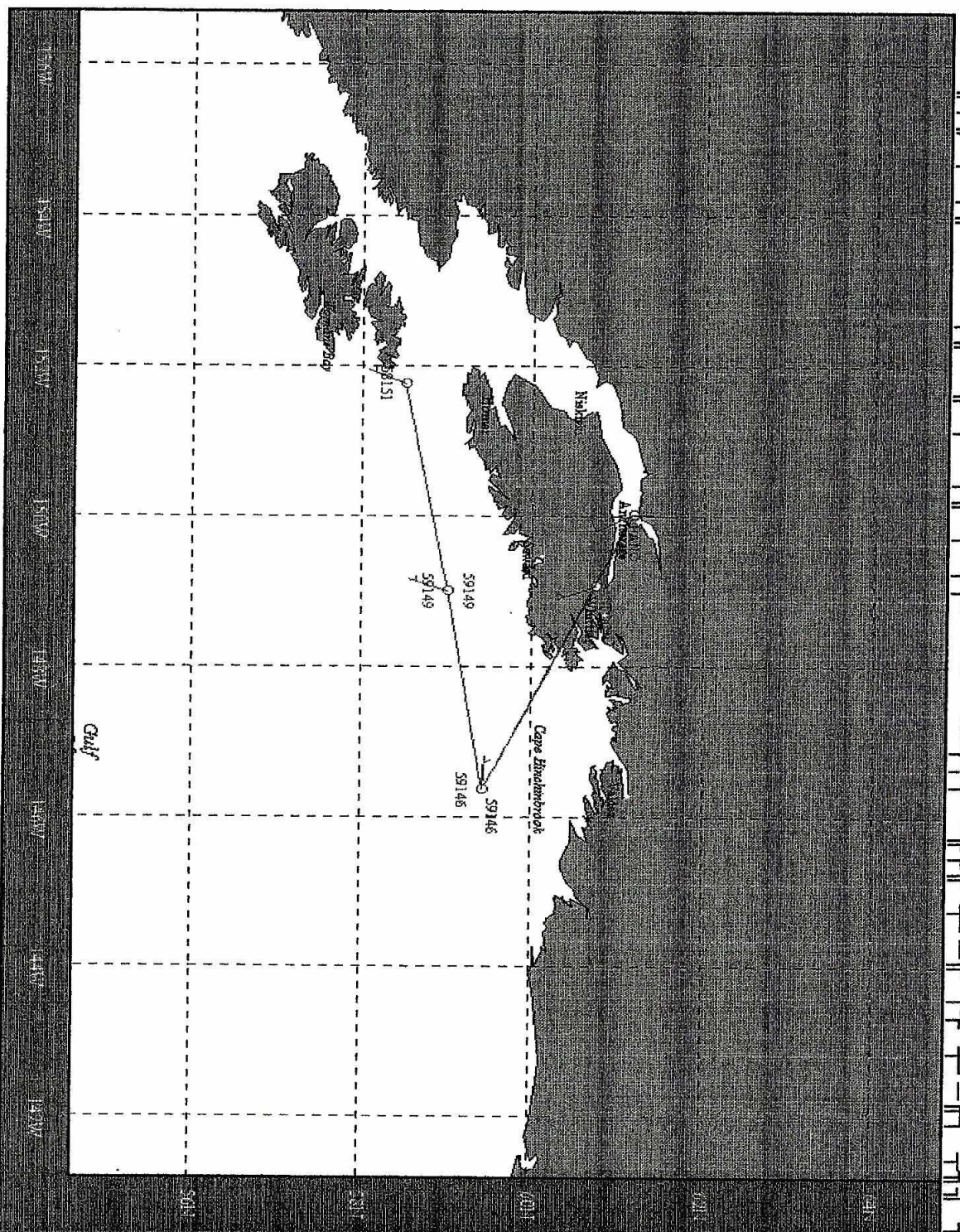
Mission : _____

Flight ID : 000223H

Take Off : _____

Landing : _____

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