



NOAA P-3 N42RF Atmospheric Rivers Ferry KRNO-KMCF



Flight ID: 050411H

Sensor or system

Number or Name

INE

2

Accelerometer

2

Temperature Probe

1

Dew Point Probe

1 (General Eastern)

Altitude (for vertical wind)

Pressure Altitude

Static Pressure

Rosemount Fuselage

Dynamic Pressure

Rosemount Fuselage 1281

Time Source

Micro 99

Constants File

CO2052.CON

Notes:

There was one time/data gap during this flight from 235801Z-235810Z.

Dewpoint sensor number two exhibited rhythmic oscillations throughout the flight along with erroneous data at high altitudes.

The accelerometer data from inertial number one is missing from 215901Z-221300Z.

The dynamic attack pressure from the nose radome (PDAR) data values are erroneous from 181820Z-221300Z due to moisture freezing in the tubes.

There were numerous times during the flight where the dewpoint temperature exceeded ambient temperature resulting in an RH>100%. This was likely due to rain, a wet-bulb effect on the total temperature sensor, and/or an artificial warming of the dewpoint sensor as it tried to burn off excess moisture. Edits were made to remove spikes from dewpoint sensor number one in order to lower the humidity values to reasonable measures. These spikes were removed at 204709Z, 202000Z, 232100Z, and 232400Z.

The King Liquid Water sensor was inoperative throughout the flight.

The aircraft INE positions were re-navigated 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.

Takeoff

Landing

Aircraft Static Pressure

867.0 mb

1013.0 mb

Corrected Tower Pressure

865.9 mb

1013.2 mb

Flight Director:

Martin Mayeaux (813) 828-3310 ext. 3086

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

Flt ID: 050411H	From: KRNO	To: KMEF
Flt. No: 08-024	Blk In: 0046 Z	Time On: 0036 Z
ETD: 1700 Z	Blk Out: 1651 Z	Time Off: 1701 Z
ETE: 7+30	Blk Time: 7+55 (7.9) Hrs	Flt Time: 7+35 (7.6) Hrs
Sponsoring Org: NSSZ	Program: Atmospheric Rivers	Purpose: Ferry KRNO KMEF

AOC Flight Crew

Aircraft Commander: Strong	Data System: Delgado
Co-Pilot: Choy	AVAPS: Tong
Navigator: Gallagher	System Eng:
Flight Eng: Floyd, Wade	A A:
Flight Director: Mayeaux	A A:
Avionics: Rogers	Crew Chief: Torrey

Participating Scientists / Visitors

Name (Last, First)	Activity on Aircraft	Affiliation

Remarks (Storm Name, Mission ID, Recco Times, Fix Times)

Storm Name: Mod Turbulance 23000 ft at 2045-2055Z

Mission ID: Knez is way out by end of flight

Penetration number and time

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

Flight ID: 056411H		Time Off: 1701 Z		Time On: 0036 Z	
A/C - Takeoff		Wx Station - Takeoff		A/C - Land	
Pressure: 867.0 mb		3008 (1018.6) mb		1013.0 mb	
A/C - Land		Wx Station - Land			
ATIS		Time		Observation	
Takeoff		1656 Z		00000KT 105~ SCT 070 12/MOD A3008	
Land		2255 Z		14004KT CL- 27/16 A2992	
		Number		Data Disposition / Date / Quality	
Flight Level Tapes					
Radar Tapes					
Cloud Physics Tapes / CDs					
Video Tapes					
Dropsondes		Good: Bad:			
AXBT					
AXCP					
AXCTD					

Remarks:

NAVIGATOR

AIRCRAFT COMMANDER

FLIGHT DIRECTOR

SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
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INS PERFORMANCE	
INS 1	INS 2
BEGIN ALIGN TIME	15-35
ALIGN STATUS (0-5)	0
END NAV TIME	15-50
START NAV TIME	16-40
DELTA T	8+10

TERMINAL ERRORS

TERMINAL ERRORS	
INS 1	INS 2
-6.6	+7.3

DELTA LON	
+ 6	-13.6

RCS	2	0
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RADIAL ERROR	7	15
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REMARKS

Yes 10-3
Faint 4
Faint 5