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# NOAA P-3 N43RF CBLAST- HURRICANE ISABEL INVESTIGATION FLIGHT 3



## Flight ID: 030914I

8	
Sensor or system	Number or Name
INE	2
Accelerometer	2
Temperature Probe	1
Dew Point Probe	1 (General Eastern)
Altitude (for vertical wind)	Radar Altimeter 159
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage 1281
Time Source	Micro 99
Constants File	CO3033.CON

### Notes:

### MISSION WAS ABORTED AT 2021 DUE TO PROBLEMS WITH ENGINE 3.

There were several time/data gaps during this flight which occurred during the times 212411-212420, 212931-212940, 213241-213250, 213341-213350, 213411-213420, 213441-213450, 213511-213520, 213541-213550, 213611-213620, and 213641-213650.

RA-232 was substituted for RA-159 from 145201-145747 (take-off), 171246-173036, and 220238-221900 (landing) due to spiking. Due to a large PQAF (Dynamic Attack Pressure) - PQF1 (Dynamic Pressure) separation caused by low-level flying, PQF1 was substituted into PQAF with an offset of 2.1 to minimize this difference from 173211-202154.

All other instruments worked optimally during the flight. However, several times during the flight, the dewpoint temperature exceeded the ambient temperature resulting in a RH >> 100%. This was likely due to heavy rain (as reflected in the J-W Liquid Water Sensor data), a wet-bulb effect on the total temperature sensor, and/or an artificial warming of the dewpoint sensor as it tried to remove excess moisture. No corrections were made during these events.

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.

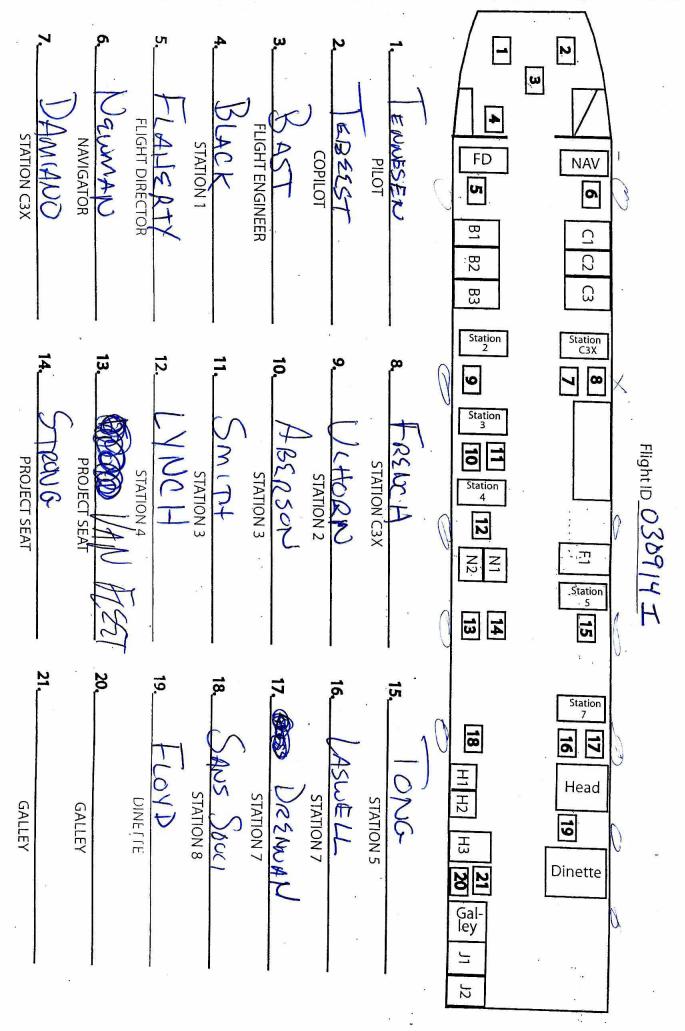
	Takeoff	Landing
Aircraft Static Pressure	1013.1 mb	1010.2 mb
Corrected Tower Pressure	1012.2 mb	1009.8 mb

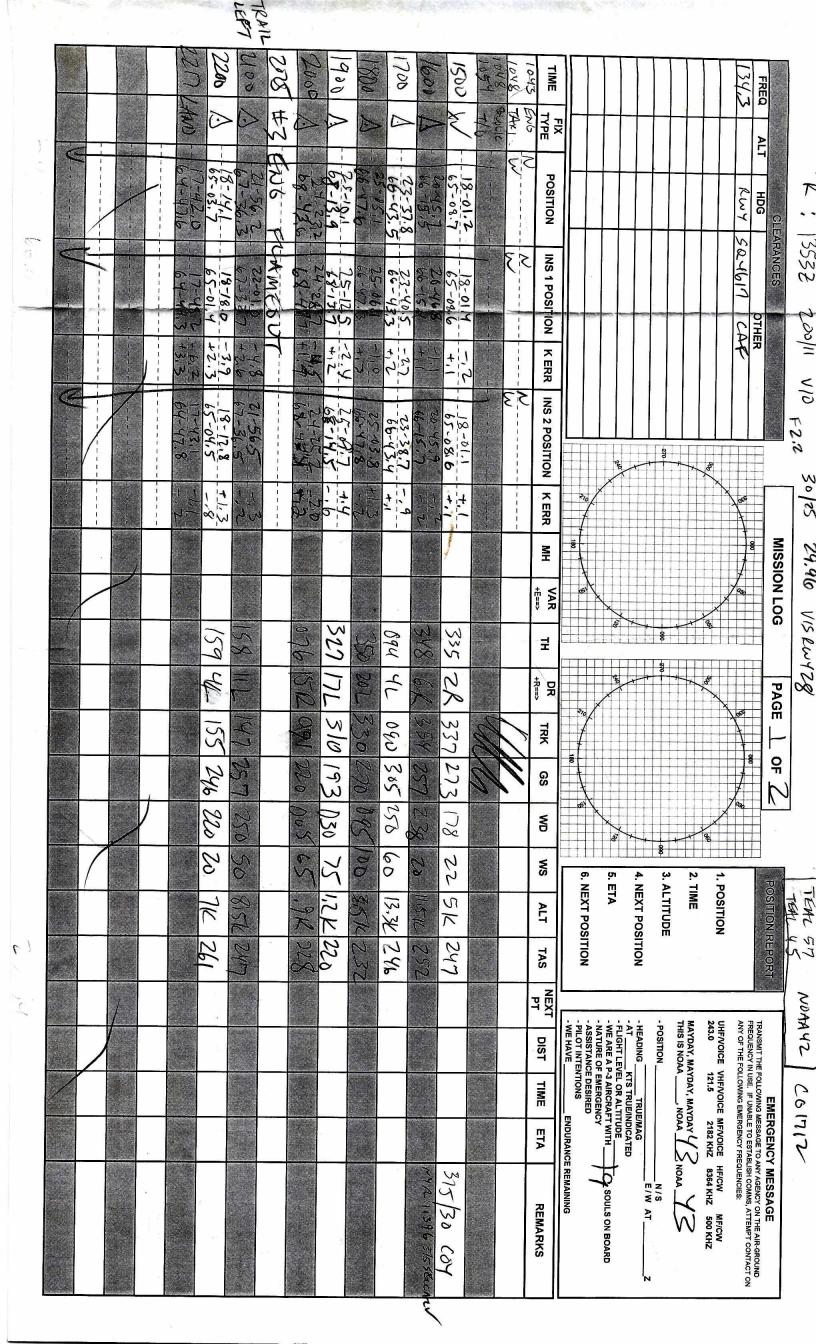
Flight Director: Paul Flaherty (813) 828-3310 ext. 3094

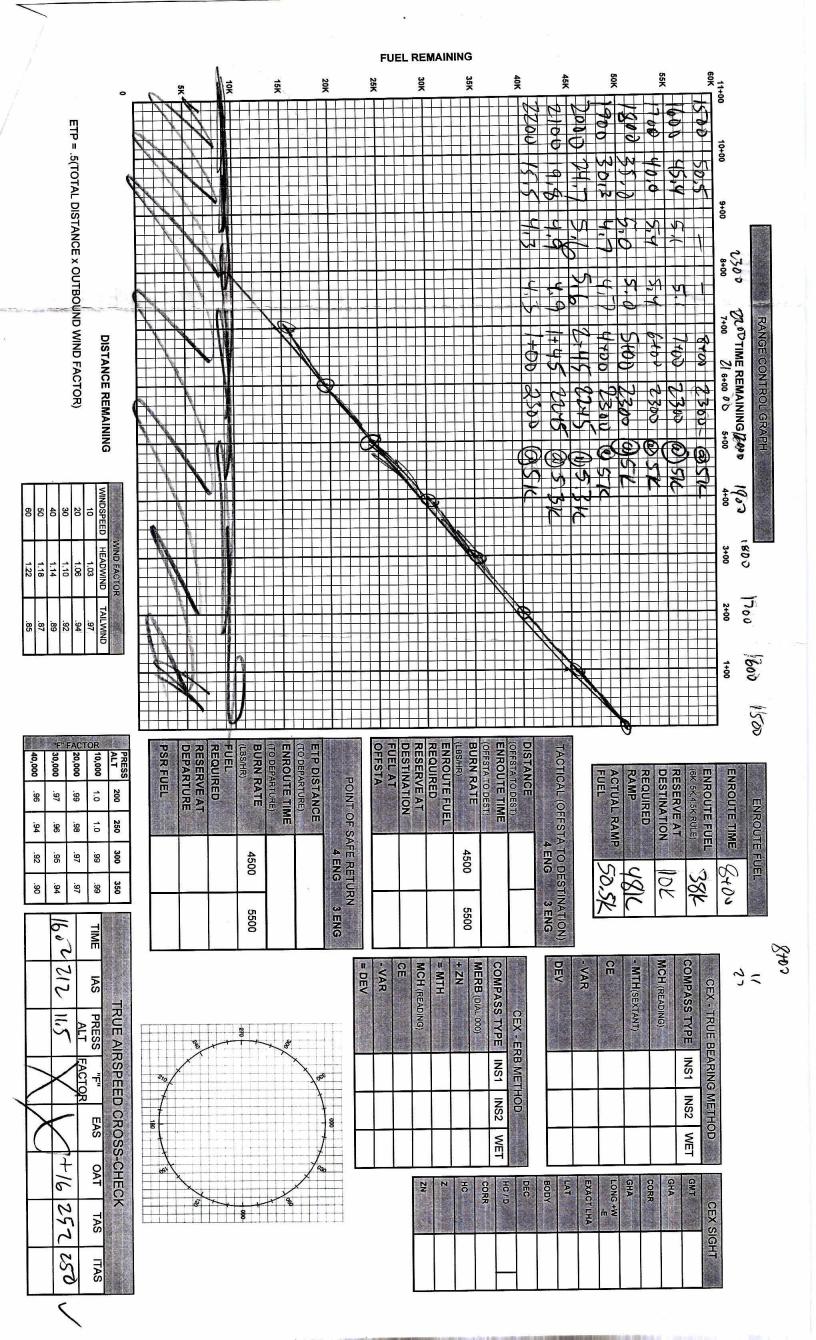
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F	252DEG 132	KT	MAXIMUM FLIGHT	LEVEL WIND NEAR CENTER										
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1.	6 c 13556		MAXIMUM FLIGHT LEVEL TEMP / PRESSURE ALTITUDE OUTSIDE EYE											
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K	7 (1	С	DEWPOINT TEMP / S	DEWPOINT TEMP / SEA SURFACE TEMP INSIDE EYE										
L	CLOSED WALL	_	EYE CHARACTER: Closed wall, poorly defined, open SW, etc.											
M	C45		EYE SHAPE/ORIENTATION/DIAMETER: Code eye shape as: C - Circular; CO - Concentric; E - Elliptical. Transmit orientation of the major axis in tens of degrees, i.e., 01-010 to 190; 17 - 170 to 350. Transmit diameter in nautical miles. <i>Examples</i> : C8= Circular eye 8 miles in diameter. E09/15/5=Elliptical eye, major axis 090-270, length of major axis 15 NM, length of minor axis 5 NM. CO8-14=Concentric eye, diameter inner eye 8 NM, outer eye 14 NM.											
N	12345/N/A	- 1	FIX DETERMINED BY / FIX LEVEL. FIX DETERMINED BY: 1-Penetration; 2-Radar; 3-Wind; 4-Pressure; 5-Temperature. FIX LEVEL (Indicate surface center if visible; indicate both surface and flight level centers ONLY when same): 0-Surface; 1-1500 ft; 9-925mb; 8-850mb; 7-700mb; 5-500mb; 4-400mb; 3-300mb; 2-200mb; NA-Other											
) )	. \ /   1	MM	NAVIGATION FIX ACCURACY / METEOROLOGIÇAL ACCURACY											
P REMARKS  MAX FL WIND 132 KT S QUAD 1637 Z														

NSTRUCTIONS: Items A thru G (and H when extrapolated) are transmitted from the aircraft immediately following the fix. The remainder of the message is transmitted as soon as available for scheduled fixes and at the Flight Director's discretion for unscheduled intermediate) fixes.

# NOAA AIRCRAFT OPERATIONS CENTER







VERMO 451 NOAA FORM 56-49 (2-95) ĕ 55 20-076 LAT/LON 50-39 26-43 MISSION PREFLIGHT LOG RTE 15AB & #3 ~43 ≤ I VAR 로 NAVIGATOR LT BRAIGS <sup>‡</sup> ₽ 360 22 TRK 2 GS Was rebess AIRCRAFT COMMANDER ₽ ¥s ALT Ruc FLIGHT DIRECTOR DAMIATO 250 TAS LEG/TOT LEG/TOT TIME 385 - 1230 785 SCHEDULED / ACTUAL TAKEOFF Z DATE OF TAKEOFF 1500 -PROP ETA ATA 50 B35 H -> VERMO -> EYE REMARKS RADIAL ERROR ALIGN STATUS (0-5) RGS START NAV TIME END NAV REMARKS DELTA LON DELTA LAT BEGIN ALIGN INS PERFORMANCE TERMINAL ERRORS 227 7,3 2220 1233 8× 8× 1430 1430 INS 1 INS 2 INS 1 INS 2 0 72 0

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