

Flt ID: 010801I	From: KMCF	To: MMBT
Flt No: 01-045	Blk In: 2051Z	ATA: 2046Z
ETD: 15Z	Blk Out: 1637Z	ATD: 1646Z
ETE: 19Z	Blk Time: 4:14 4.2	Flt Time: 4:00 4.0
Sponsor Org: NOAA	Program: EPIC	Purpose: FERRY TO HUNTJLCO

AOC Personnel

AC: KENVL, P +	Sys Eng: GOLDSTEIN, A +
CP: HARVEYSON, H + / TEEBEST, R +	Data Sys: SMITH, J +
Nav: ADLER, J +	Radar: BARR, J +
FE: WADE, S +	GPS/BT:
FD: C2727K, J +	Cld Phys:
Avionics: SANS SOURCE, D +	CURRY, J + / FLOYD, D -

Participating Scientists / Visitors / AOC

Name (Last, First)	Activity on Aircraft	Affiliation
PRADOAS, C +		AOC

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

15 46 96 12
RADAR ALT PROBS 1909-1915

Flt ID: 010901I	Time Off: 1646Z	Time On: 2046Z
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AVC (Take Off)	Wx Station (Take Off)	AVC (Land)	Wx Station (Land)
1016.1	30.04	994.1	28.91

	Number	Data Disposition / Date / Quality
Flt Lvl Tapes		
Radar Tapes		
Cloud Physics Tapes		
Video Tapes		
AXBT		
AXCP		
AXCTD		
Dropsondes		

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

Remarks

KENAV

Flight ID:

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

Form 413-50

[illegible]



NOAA P-3 N43RF EPIC Ferry to Huatulco



Flight ID: 010901I

<u>Sensor or system</u>	<u>Number or Name</u>
INE	1
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
Time Source	Micro 99
Constants File	CO2015.CON

Notes:

Static Pressure (PSF) had an offset error just prior to takeoff (1646:05-1646:20) that was removed and patched.

Dewpoint temperature (DW1) was replaced by DW2 between 2021:17-2048:30 due to a small oscillation.

Radar altimeter (RA-159) had a spike prior to takeoff and was replaced by RA-232 from 1643:01-1647:15. The RA-159 was not operating properly and was replaced by RA-232 with an offset of +50 from 1908:35-1915:37. The RA-159 had a spike at landing and was replaced by RA-232 from 2045:52-2048:30.

There was no King Liquid Water operating during this mission.

Other unedited problems:

There were spikes in PITCH2 and ROLL2 (1643:00-1644:00, 1645:00-1646:00 (2), 1648:30-1649:00, 1649:30-1650:30, 1652:00-1653:00 and 1659:30-1700:30)

GPS x-axis groundspeed (GX_GPS) had spikes occurred 1738:00-1739:00, 1744:00-1745:00, 1832:00-1833:00, 1858:00-1858:30, 1922:00-1923:00, 1958:30-1959:00 and 2022:00-2023:00.

GPS y-axis groundspeed (GY_GPS) had spikes occurred 1744:00-1745:00, 1818:30-1819:00, 1832:00-1833:00, 1840:00-1841:00, 1958:30-1959:00 and 2022:00-2023:00.

LAT_GPS and LON_GPS spikes occurred 1648:30-1649:00 (2), 1709:00-1710:00 (3), 1721:00-1722:00 (2), 1728:30-1729:30 (2), 1842:30-1843:30 (3), 1858:00-1900:30 (5), 1910:30-1911:30 (3), 1927:00-1927:30 (2), 1931:30-1932:00 (2), 2006:00-2007:00 (3), 2012:30-2013:00 (2), 2022:00-2023:00 (3), 2036:30-2037:30 (3) and 2043:00-2044:00 (3). Additional spikes occurred

in LON_GPS at 1947:00-1948:00 (4).

PA_GPS spikes occurred 1648:30-1649:00 (2), 1832:00-1833:00, 1900:30-1901:30, 1922:00-1923:00, 1958:30-1959:00, 2020:00-2021:00, 2036:30-2037:30 (3) and 2043:00-2044:00 (3).

Radar altimeter (RA-232) had a dropout between 1700:30-1701:00. RA-232 also was noisy/spikey between 1701:30-1857:00 and 1910:00-2009:00.

A few spikes occurred in the various static and dynamic pressures during rolls.

	Takeoff	Landing
Aircraft Static Pressure	1016.1 mb	994.1 mb
Corrected Tower Pressure	1017.3 mb	1012.9 mb

Flight Director:	Stan Czyzyk
E-mail:	<u>Stanley.Czyzyk@noaa.gov</u>
Phone #:	(813) 828-3310
FAX #:	(813) 828-5061
Address:	P.O. Box 6829
	MacDill AFB, FL 33608-0829

PSF SPIKE/DROPOUT 1637:30 - 1638:00
PQFI
PQFV
ALL PARAMS

START 1643:01
END 2048:30

RA-159 SPIKES PRIOR TO T/O 1638:01-1646:39
RA-232 SPIKES " " " 1638:01-1646:11
1646:05-1646:20 ✓

PSF SPIKE @ T/O 16
PITCH2 SPIKES 1645:00-1646(2), 1648:30-1649, 1649:30-1650:30, 1652-1653
1659:30-1700:30, 1643-1644,

PITCH1 SPIKE & LANDING 2048:30-2049
ROLL2 SPIKES 1645-1646, 1648-1649, 1649:30-1650:30, 1652-1653
1659:30-1700:30

ROLL1, 2 SPIKE & LANDING 2048:30-2049:00
LATGPS SPIKES 1648:30-1649:00 (2), 1709:00-1710 (3), 1721-1722 (2),
1728:30-1729:30 (2), 1842:30-1843:30 (3), 1858-1900:30 (5),
1910:30-1911:30 (3), 1927:00-1927:30 (2), 1931:30-1932 (2),
2006:00-2007:00 (3), 2012:30-2013:00 (2), 2022-2023 (3),
2036:30-2037:30 (3), 2043:00-2044:00 (3),

RA232 S DROPOUTS 1700:30-1701
~~RA232~~ NOISY/SPIKEY 1701:30-1857, 1910-2009,
LONGGPS SPIKES 1709-1710 (3), 1721:00-1722:00 (2), 1728:30-1729:30 (2),
1842:30-1843:30 (3), 1858:00-1859 (3), 1900:00-1900:30 (2),
1910:30-1911:30 (3), 1927:00-1927:30 (2), 1931:30-1932:00 (2),
1947:00-1948 (4), 2006:00-2007:00 (3), 2012:30-2013:00 (2),
2022:00-2023:00 (3), 2036:30-2037:30 (3), 2043:00-2044:00 (3)

RA-159 SPIKE DUE TO FLYING AERIAL 1856 - 2048:30
232

RA159 OFF/OUT 1908:30-1915:30 ✓
RA-159 @ LANDING 2045:52-2048:30

MSL6PS SPIKES 1648:30-1649:00 (2), 1832-1833, 1900,
1958:30-1959:00, 2020-2021, 2036:

DP6EF OSCILLATIONS 2027- LANDING
@ OOC

PRW Small SPIKE 1802:30-1803:30 (2), 1646-1646:30
1959-2002 (sev) Roll RELATED →

PAR 2004-2005, 2017-2018, 2021-2023, 2028:30-2030, 2031-2032
PSW SPIKE 1802:30-1803:00, 1942:30-1943:30, 1959-2005, 2016:30-2024:30
AZZ 2027:30-2032:00

DPBUCK / GEF CLOSE

GSINE1
LATINE1
PA INE1
PITCH1
TT1

DM GE 11.2788 - 11.9803
DM ET 300464 - 11.5572
DM BUCK 12.5 - 75.0

2021.17
REPLACE 1/2

CHECK PARAM #1 DIFF'S BETWEEN AP/DONNA

RENAV

171200, -0.1, -0.1	26 56.2	-84 4.3
175200, -0.6, -0.8	24 55.4	-86 39.0
184200, -0.6, -0.6	21 37.5	-89 11.1
193000, -0.4, -1.5	18 32.6	-91 59.7
201200, -0.4, -1.2	17 11.5	-94 55.3
204830, 0.1, -1.7	15 46.4	-96 15.5

PSF SPIKE @ TAKEOFF REMOVED + PATCHED 1646:01 - 1646:30 X

REPLACE DW1 W/DW2 AT 2021:17 - END DUE TO OSCILLATION X

REPLACE RA-159 W/ RA-232 1643:01 - 1647:15 DUE TO SPIKE PRIOR TO TAKEOFF +

REPLACE RA-159 W/ RA-232 1908:35 - 1915:37 " " RA-159 CRAPPING OUT X
+50 +50

REPLACE RA-159 W/ RA-232 2045:52 - 2048:30 DUE TO RA159 SPIKE & LANDING X