

U.S. Dep't. of Commerce / OMAO / NOAA / Aircraft Operations Center

FLT ID: 20140502H1	From: KMCF	To: KMCF
FLT #:	Blk In: 1942 Z	Lnd Time: 1902 Z
ETD: 1500 Z	Blk Out: 1717 Z	T/O Time: 1725 Z
ETE:	Total Blk: 2.25 (2.4)	Total Flt: 1.37 (1.6)
Sponsoring Org: AOC	Program:	Purpose: WATER INGESTION FOR 3.5 ENG TEST

AOC Flight Crew

Aircraft Commander: SWEENEY	SSA: BOSKO
Co-Pilot: DIDIER /	AVAPS: /
Navigator: /	Scientists: RICHARDS SHAW (LM)
Flight Eng: HEYSTEK / LALONDE	Scientists: SMUCKER (LM)
Flt Director: DAMIANO	Scientists:
SEB: RICHARDS /	Scientists:
Crew Chief:	Visitors: /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1014.50	29.94 / 1013.04	1013.70	29.93 / 1012.36
AS REQUIRED BY ORM		YES / NO	REMARKS	
VOLCANIC ASH		☒	☒	
SCIENCE MISSION WITHIN BOUNDARY LAYER		☒	☒	
LACK OF PRECIPITATION		☒	☒	
RELATIVE HUMIDITY AT OR ABOVE 80%		☒	☒	
LARGE AIR-SEA TEMPERATURE GRADIENT		☒	☒	
HIGH SURFACE WINDS		☒	☒	
LONG FETCH AND/OR DURATION OF SFC WIND		☒	☒	
SEA SALT ACCRETION FORECAST		☒	☒	
SEA SALT ACCRETION OBSERVED		☒	☒	

Dropsondes	Good:	Bad:	Sent:
AXBT	Good:	Bad:	Sent:

List other data sources in Remarks section

Remarks (Storm VDM Identifier, Mission ID, Fix Times)	Fix #	VDM Ob Num	Fix Time / SLP
Storm Number Identifier (VDM): PCAB LND 1012.17			
(ie: AL072012)			
1909 near ramp 194433Z			
TCPOD/WSPOD Mission ID:			
(ie: NOAA2 2418A SANDY)			

Remarks:

PCAB 1013.36 PIC 1 173720 2008Z 7182410 2008Z

1708Z PIC 2 170700Z 7182800

PIC 3 17490400Z

181500 4008Z 182930 2008Z

182100 183400

180400 4008Z

1810

AW 1/2 T/O



N42RF ERROR SUMMARY

Water Ingestion 3.5

Engine Test



Flight ID: 20140502H1

<u>Sensor or system</u>	<u>Number or Name</u>
Inertial Selected (for wind derivation)	INE 1
Accelerometer	AccZfilterI-GPS.1
Temperature Probe	TTM.1
Dew Point Probe	TDM.2
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Altitude (for vertical wind)	AltGPS.3 (Novatel GPS)
Flight Directory	acdata/MET/2014/20140502H1
Constants File	AAMPSCconfig/core/n42.xml

Notes:

There were no data gaps. No edits/modifications were made parameter values.

SPECIAL NOTE: The variable names GSZ_DPJ, ASZ_DPJ and WSZ_DPJ in the netCDF file represent vertical ground speeds vertical air speeds and vertical wind speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm. It is recommended that these values be used for vertical wind analysis.

All AOC instruments worked optimally. No expendables were deployed.

	<u>Takeoff (1725Z)</u>	<u>Landing (1902Z)</u>
Aircraft Static Pressure	1014.6 mb	1013.9 mb
Tower Pressure (corrected)	1013.0 mb	1012.4 mb

Flight Director: A. Barry Damiano
(813) 828-3310 ext. 3073

2014 0502 H1
N42 Water ingest

Ure TOMC2

TTM.1

T/O

PSM.1 1011.76

KMCF

$$29.94 = 1013.38$$

1013.04

PCAB

1013.26 1708002

PSM.2 1014.60

LND

KMCF

$$29.92 = 1012.71$$

1012.36

PCAB

~~PCAB~~

1944332

1012.17

PSM.1 = 1010.97

PSM.2 1013.95

$$29.91 = 1012.37$$

KMCF 1012.07

SLP 1 plot = 5200ft

PSUR 1014.89 - RA

PSUR 1014.63 - GPS.3

SLP 2 plot = 4200ft

PSUR 1014.39 - RA

PSUR 1014.24 - GPS.3

1734

1831

1846-185330

20140421H1 (Eng test)

KMCF

18582 24/17 30.03 SLP 1017.2

19382 24/17 30.02

19582 24/17 30.02 SLP 1016.9

KMCF

18735

1942

T/O Runway 4

3 mb diff PSM.2 - PSM.1
on ground

T/O

PSM.1

1014.73

PSM.2

1017.89

KMCF

1016.65 ± .35

1016.30

SLP 1017.2

and in flt

on ground after landing

land

PSM.1

1013.49

PSM.2

1016.47

KMCF

1016.31 ± .35

1015.96

SLP

1016.9

1015.96

DPTS not turned on