

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

FLT ID: 26110719II	From: KMCF	To: KMCF
Flt No: 11 - 050	In: 1411 Z	On: 1404 Z
ETD: 1100 Z	Out: 1037 Z	Off: 1048 Z
ETE: 3 + 00	Blk Time: 3 ¹³⁴ (3.6) Hrs	Flt Time: 3 ¹⁶ + (3.3) Hrs
Sponsoring Org: AOC	Program: Hurr checkout	Purpose: SFR cal

AOC Flight Crew

Aircraft Commander: Halverson	Data System: Naether
Co-Pilot: Kibbey /	AVAPS: Mascaro
Navigator: Kidder /	System Engineer: Hill
Flight Eng: Floyd / Darby	AA: Miller
Flight Director: Damiano / Williams	AA: Newman
Avionics: Warnecke	Crew Chief:

Participating Scientists / Visitors

(13)

Name (Last, First)	Activity on Aircraft	Affiliation

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

Storm Name: _____

Mission ID: _____

A43rP1

no SFR not working RAMS

(See reverse for additional remarks)

Drop

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FLT ID: 20110719I1	TIME OFF: 1.048 Z	TIME ON: 1404 Z
	A/C - Takeoff	WX Station - Takeoff
Pressure	1011.5 PSF.1	
ATIS - Takeoff	0955 05003 UNL SICL 22/21 A29.97	
ATIS - Land	1355 calm UNL 29/22 A30.00	

Data Source	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / Cds		
Video Tapes/DVDs		
Dropsondes	2	Good: 1 Bad: 1 1 sent db3 lost rtf
AXBT	1	Good
AXCP		
AXCTD		
SONOBUOY		

REMARKS:

See AHPA in Ft?

ON screen 800 - PSF.2 blank

TPM2 off

FD log works - NO HPR

Station temp 22
 TA = 23.8

500 ✓

2,000 ✓✓ → 110-1200 8kts W-E

5,000 ✓✓ PSF 1015.7 240-066

10,000 ✓

15 ✓✓

20

config stg internal to CFMA not set
 correctly Alan needs to supply these settings

BT Data in Volts on screen

remote AVAPS ✓ R+A ✓✓

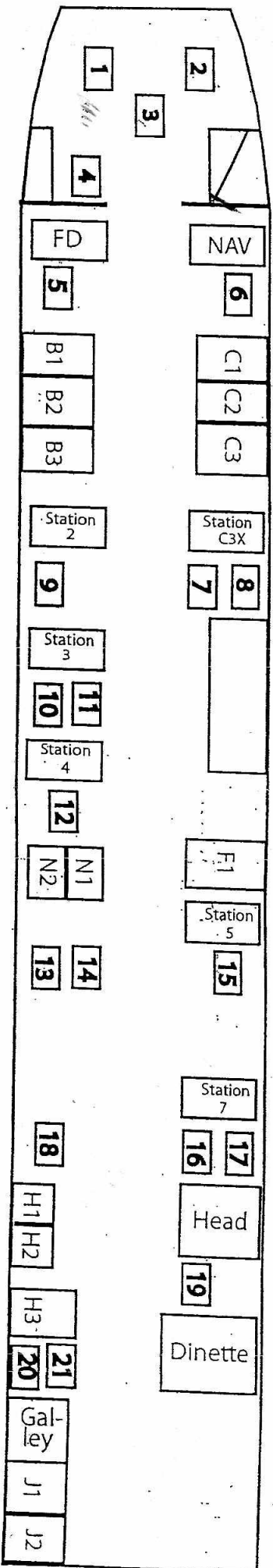
FD Log ✓

missing headers, date columns screwy

1055Z 09005 23/22
 29.97
 29.92

NOAA AIRCRAFT OPERATIONS CENTER

FlightID 20110719T1



- | | | |
|---------------------------------------|-----------------------------------|----------------------------------|
| 1. <u>Halverson</u>
PILOT | 8. _____
STATION C3X | 15. <u>Mascaro</u>
STATION 5 |
| 2. <u>Kibbey</u>
COPILOT | 9. _____
STATION 2 | 16. _____
STATION 7 |
| 3. <u>Darby</u>
FLIGHT ENGINEER | 10. <u>Mittler</u>
STATION 3 | 17. <u>Warnecke</u>
STATION 7 |
| 4. <u>Floyd</u>
STATION 1 | 11. <u>Hill</u>
STATION 3 | 18. <u>Newman</u>
STATION 8 |
| 5. <u>Williams</u>
FLIGHT DIRECTOR | 12. <u>Nabher</u>
STATION 4 | 19. _____
DINETTE |
| 6. <u>Kidder</u>
NAVIGATOR | 13. <u>Miller</u>
PROJECT SEAT | 20. _____
GALLEY |
| 7. <u>Damiano</u>
STATION C3X | 14. _____
PROJECT SEAT | 21. _____
GALLEY |

~~WX~~ NOAA3 0104~~E~~DO RA

message issues

when satcom was down HDOBS (7+8)
Never made it all the way out (AAMPS)

F7p transfer temp drop

HDOBS 01 1155Z + 1340Z, ob #'s not reset
right away:

recco ✓ (RAMS)

vortex ✓

FD log ✓ (AAMPS + RAMS) but missing headers

Remote Aamps ✓ (AAMPS + RAMS)

ASOL LOG (RAMS) ✓

Advance Link ✓

Screen 800 ✓ (AAMPS)

Screen 800 ETA ✓ (AAMPS)

- on screen 800 PSF.2 blank (should be PSW.1)

- ON H/O TA = 23.8 but TA Station Meter was 22

- BT data still in Volts (AAMPS)

on NetCDF 1hz also

5

10405Z 1015.2/ station for elev ^{aircraft} + sensor location

1014.7 PSF

1015.4 PSW

275 = 1mm

6
6
6

- Nowel is in + looks good
on ground NUL most accurate @ 7m vs
10-13m
GPS I-GPS

- AITB CADDU steps @ 11172 12202

- AITRA.1 + 2 are same?

PS - 1011.2 vs. 1014.4

TTM w/cur 0.5°

TA 23.3 ~~Station 23.8~~
Station 23 112 TO 10782

TD 1 = 20.6 Station Depth = 22
TD 3 = 20.1

TD #2 1116-1124 Drops at several times

TD #1 1216-1233 -40 Should be ~ -10
1259-1319 @ 10 kPa ~ 20 kPa ~ 45 ft

TD 3 ~ N + at (-25)

10 kPa - at 100

20 kPa #3 10 best

10 kPa 4.8

@ 15 kPa + 11 150k
+ 5,000 ft

TA 20

1257

also

10 + 20

1-9
7, 8 msg
AD 11, 12, 13
I came in again

1142
1342

recol =
vt =
drop

182

HOOB -
reco -
vortex -

152

28.8
86.0

11552 2998

Joanla TRNG
FTR

1011.8
1014.7

20110713I1

1122-1211Z

- slip & goes crazy on ground → fine after t/o
- PSF + PSW raw 2-2.5 mb ↓ then AVAPS PS
↳ w/ AAMPS. when we switch to ~~PS~~ reading
PAMS see if same problem
- SFMR Pro + 23kts @ 1200Z
- PD log not working
- fix Java display app on CBx
- TIM.3 not on screen display
- PSURF data looked reasonable
- TDM.1 + .2 looked good, .3 (TOL) was ok @ first
then off by a few °'s

PSF 1, 2 off by 2-2.5 mb!

TT.2 is not noisy anymore
1, 2 0.5C apart

IT 1/2 spike up to 10 right @ landings

Alt GPS.3 - no Model

Alt ref is now Alt I-GPS.1

Alt PA.1

Alt PA.2 (?) what is?

POA.R.1 - (-)
POA.F.1 - (+)

TA ok

Tdm.1 is noisier than
(sometimes)

GAP in ^{24, 25, 26} ~~All~~ 1 hr data right b/y t/o 110923-110928
↳ check .FST file

TASW.1 - empty

1108993mb - look @ decrpts

1502 Td3 ~ -7°

5.4 3.9 vs -1 to 2

20110501.T 1

PAFA = 434 ft / 132 m

PSF.1 + PSW.1 are 7mb apart

998 ~~PSF~~ t/o

land PS.1 = 995.9

PS.1 = 998.5

PSF.1 = 997.1

PSF.1 = 999.7

00-012 299 6/294 = 998.4

PAFA @ 178, 182 = 1000.7

Alt GPS.3 = bad → look @ 1st file → not in 1st file

Alt GPS.1/2 - what is this? same 1/2

Alt I - GPS.1/2.5 - same

Alt GPSref =

→ Alt PA ADDU.1

→ Alt PA.1

→ Alt PA.2

Alt PAref

Alt ref

0211

PS.1, PSF.1 = 991.5

station = 991.4

3 Td = -1

PSW.1 = 990.1

182 16003 10sm flew 080 50000 03/NOV 2974
29006 07/02 2967

Land 987.4
987.1

PAFA
989.0

Temp = 7

defaults

pub/h. 2hr

2 OK ft off
from w. 2hr

↑ 40K ft

noon
tomorrow aft
3 sets
stand down

$PS_1 \xrightarrow{\text{corrected}} PS_{F.1}$ 918 PS_{ref}
 $PS_2?$ $PS_{W.1}$ $PS_{Wref}?$ $PS_{Fref}?$ } do we need?
 $PS_{ref} = PS_1$

$PS_{F.1} \xrightarrow{\text{cor}} PS_1$

$PS_{W.1} \xrightarrow{\text{cor}} (PS_2)?$

PS_{ref} , PS_{Wref} , PS_{Fref} - do we need?

$PQ_{F.1} \rightarrow PQ_{ref}$
 $PQ_{F.2} \rightarrow PQ_{ref}$
 $PQ_{F.1} \rightarrow PQ_{ref}$

$PQR_1 \rightarrow \text{radome}$

$PQW_1 \rightarrow PS_{wingtip} \rightarrow PQ_{Wref}$

$PQ_{AlphaF.1} \rightarrow PQ_{Aref}$

$PQ_{BetaF.1} \rightarrow PQ_{Bref}$

⊗

TTM_2 bad - osc of 2°

$TTM_3 = \text{nothing}$

$TT_{ref} = 1$

TM_1 looks ok

TM_2 ok until

TM_2 bad

18262 - 23472 (freezes)?

3 Sources

GPS 1,2

Blended 1,2

Inertial 1,2

GS - earth ref

VCC - ac ref

PAPA 1733 22008 SC001 SC008 BLW055 BLW100 ac/or

5.8C

TASAddy

TASAddu needs to be m/s " it is way high?

TASW needs to be m/s (in knots) " TASW

- should SA be #1 or 2 based on position of A/C?
change + view ws

- TTM.3 osc ON G-14? $\rightarrow$ TT3 is ref
of 0.6°C $\rightarrow$ TA.3 until 1930z

TD.1 out from $\rightarrow$ responds slower
on 2nd flight as around 0°C 2012z-2016z

- PS cor effects PA.

ATTA spikes

left rws don't effect wind as much - PERUN w/ AA.2 see if reverse

red - nt

changing int to 1 fixes

- June 29 381⁰³ www. vray

Yaw @ 70
Pitch @ 45

MEMORANDUM FOR: N43RF Flight Crew

FROM: A. Barry Damiano / Jessica Williams

SUBJECT: N43RF Checkout Flight

A hurricane checkout/SFMR calibration flight for N43RF has been scheduled for Tuesday 19 July 2011. This is a weather dependent flight since we are looking for surface winds less than 12 knots near the buoy and VFR sky conditions.

NOAA43 will take off at 0700 (7:00 am local time) and fly at various altitudes over open water over/near buoy 42036 (28.50 N 84.52 W [28°30'0" N 84°31'0" W]).

The aircraft will fly only **one** 5 minute straight and level leg over the buoy at 500ft Radar Altitude.

The aircraft will fly **two** 5 minute straight and level legs centered over the buoy, at each of the following altitudes:
2,000ft, 5,000ft, and 10,000ft Radar Altitude, 15,000ft and 20,000ft Pressure Altitude.

Climbs at the end of a leg will maintain current heading until the next altitude is attained before heading back to the buoy.

During the first 15,000ft leg a dropsonde will be deployed over/near the buoy. During the first 5,000ft leg an AXBT will be internally deployed, with the aircraft depressurized, over/near the buoy to check the AXBT receivers.

After completion of the last leg NOAA43 will climb to ferry altitude and return to KMCF.

If any problems occur during the flight, they will be dealt with accordingly.

Total flight time will be approximately 3.0 hours.

A handwritten signature in black ink, consisting of a stylized, cursive 'D' followed by a horizontal stroke.

Sond 1253

GPS AL4

~~PS~~ Sonde 500ft 11232

FL

~~157m (500ft)~~

GPS ALT

157m

155 ↔ 160

PS

995.5

PSF

PS cor

996.0

995.5

TA

26.75

TA.1

TA.2

27.1

27.4

Rel Hum

69%

70%

WD / WS

094 / 3.5m/s

120 / 4.3m/s

ALT GA

177m

164m

PS cor

1014.9

1014.1

GPS ALT
PS

2,000 ft

614 PM

945.8

TA

22.4

Rel Hum

86%

WD / WS

101 / 3.2m/s

ALT GA

629 M

1014.9

616M

PSF

PS cor

946.2

945.7

TA(2)

TA(1)

23.1

22.9

85%

110 / 3.5m/s

616m

1014.25