	U.S. Dep't.	of Commerce / NMAO / I	NOAA / Airc	raft Operations Ce	nter	
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ETD: 080	90 z	Blk Out: 074	8 z	T/O Time:	075	5 ż
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		AOC Fligh	nt Crew			,
Aircraft Commander:	GIRIMO	NTE	Data Syst	em: BOS	KO	
Co-Pilot: KIBB	EY/ 1	MARTIN	Avaps:	RICHAR	DS SI	MITH
Navigator: SL	OAN		System Er	ngineer: C L	YNC	$\vdash$
Flight Eng: HEY	STEKI	DARBY	AA: 1h	IRAP : C	HAN	G
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0.00	355	2/0/2			

## **NOAA WP-3D N42RF ERROR SUMMARY HURRICANE LESLIE 2012** 8 Sept 2012 0412A LESLIE HRD (PHX) KFLL →KFLL

Flight ID: 20120908H1

Sensor or system		Number or Name
Altitude		AltGPS.1 (RINU)
Accelerometer		AccZfilterI-GPS.1
Dew Point Probe		TDM.2
Dynamic Pressure		PQM.2
Inertial Selected	2	INE1
Static Pressure	18	PSM.2
Temperature Probe		TTM.2
Constants File	r.	AAMPSConfig/core/n43.xml
Flight Directory	×	acdata/2012/MET/20120908H1
Local Met Data	Takeoff (0755z)	Landing (1614z)
Aircraft Static Pressure	1013.8 mb	1014.7 mb
Tower Pressure (corrected)	1012.1 mb	1014.5 mb
Notes		

Notes:

The storm was flown at 8,000 feet absolute altitude (to better accommodate the IWRAP).

The Maycomm (TDM.3) dew point sensor repeatedly spiked in areas of heavy precipitation. TDM.2 (the Edgetech) is the reference.

Vertical Winds during the storm portion of the flight from 11:00z to 13:26z showed a mean UWZ of +0.01 m/s. 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.

Beginning at 15:35:29z and continuing until 15:41:43z, 1-second data gaps were observed in several derived parameter values (those with the .d extension). These occurrences were very infrequent and greatly varied among the list of derived parameter values. In other words, wind direction (WD.d) may show a 1-second gap once during the flight but no other derived parameter values would exhibit a data gap for that same time. Likewise after a period of time elapsed a different derived parameter's value, say true airspeed (TAS.d), would be missing but other derived parameter outputs would be present.

Since it would be tedious and time consuming to list all the individual derived parameters values missing for a specific time, it was decided to provide the customer the beginning and end times for the time period when these data gaps occurred.

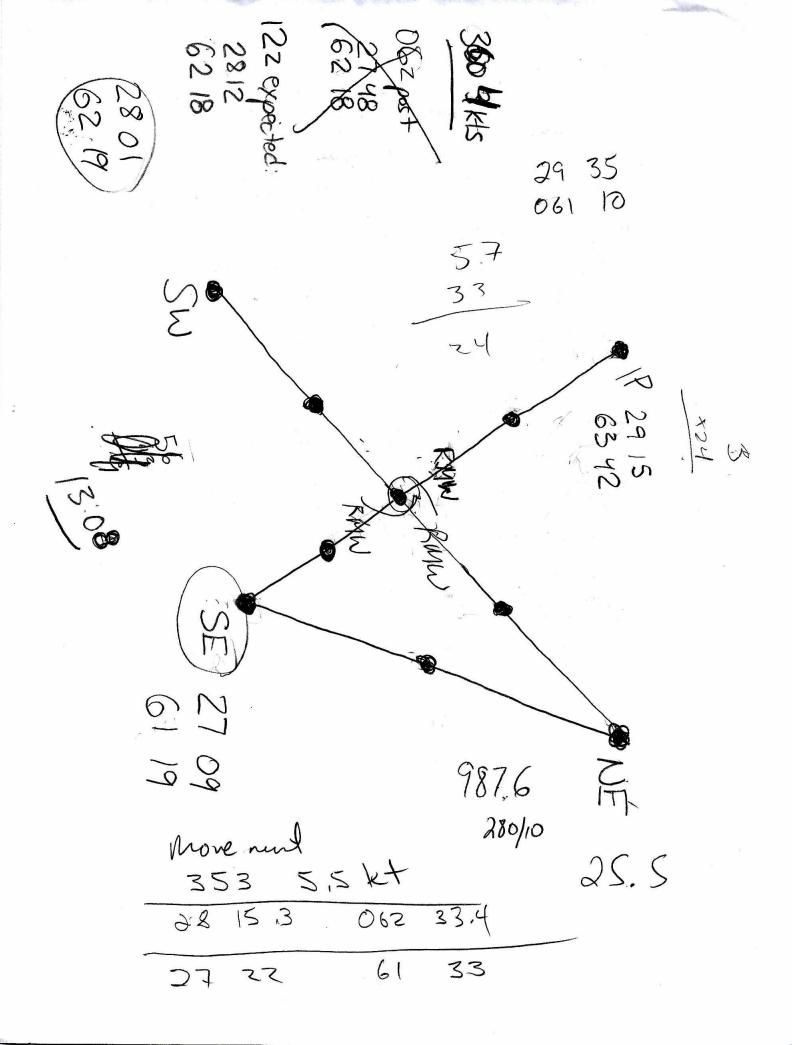
All other flight level instruments worked optimally during the flight.

- 12 dropsondes deployed, all good and transmitted

- 12 externally loaded AXBT were deployed (2 were bad)

Flight Director: Richard Henning (813) 828-3310 ext. 3086 and Ian Sears

	lateoge	Slow open	19275	The state of the s
	KWBC# 071135 071136 071158 071213	071286 071300 071312 071312 071338 071350	081134	
	SatComm failures		EAND P	
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Opwindsonde Log ARKE TE HENNING LESUIE	Comments (5.3.5/4.7 (0.3.0)/5.3 (4.5/1.5) (8.0/3.6) (4.5/1.4)	160 // 38 120 / 43 120 / 43 185 / 04 296 / 39 395 / 31	11/25/25/25/25/25/25/25/25/25/25/25/25/25/	
S.L.R.	Last Wind Alt Wind Alt CO STOCK STOC	ス	关系	
HENNING LESLIE		995.4 993.6 992.2 000.5	7627	
	L5/R57 <sup>6</sup>	20		
NHZ NEW SEARS DISpuindsonde  Flight Director: SEARS HENNIN  Storm/Track: O212A' LESLIE	WX Cond. IL BKN BLW EKN	NW. Carmer Max W. ad Co tabbinal NE SW. Ext T	NW Corner MIND A Corner MAN Corner MAN P (FM)	
Flight Director:	Lon (°E) 60 5 5 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6 6	63.2.2 63.3.7 63.3.7 63.3.7 7	62.5 62.5 62.5 62.5 63.0 63.0 63.0 63.0 63.0 63.0 63.0 63.0	
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Mission ID:	H 2 7 # 19 00 00 00 00 00 00 00 00 00 00 00 00 00	8 8 10 10 14 14 14 14 14 14 14 14 14 14 14 14 14	16 17 17 18 19 20 21 22 24 22 24 25 26 26 27 28 29 30	
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## WMM fixes needed Prioritized by urgency

1.

2.

3.

***these are just WMM bug fixes and do not include preferences or other AAMPS issues***  ****  ****  ***  ***  ***  ***	,
Save whether tasked or untasked like	(+
WMM App Overall:	missign)
a. At 00Z WMM stops working: Data stops scrolling, you cannot "grab", load or send data. WMM app GUI needs to be restarted. WMM	
server seems to be fine. If this happens on an inbound leg while the vortex algorithm is running, you lose all your data!	zres .
b. No Alert messages popped up after an aamps restart or when netman needed to be restarted afterwards, despite our tests on mockup. Obs were not being sent until netman was restarted also. Also, Do not re-start the wmm app if netman is restarted while doing	Starte !
an inbound leg, you lose everything	J.51. 47
HDOB bugs	
a. Bug in Wind Direction calculation: Appears to only happen when heading is East, happened a lot on inbound fix legs from the West.	- 1
From Mike Black on x-chat ".less- watch out for bad HDobs on 270 deg legs - lan's flight this morning had same problems with winds as	
you did last night, suspect a problem with math angles in the new code". These Wind Direction Spikes do not occur in the 1 hz data or	
the vprinter, so they do appear to be only a WMM coding error at first glance. Will look at data further. See example from 20120827H2:	
232300 2649N 08827W 6966 03096 9971 +098 /// 013051 053 055 038 01	- 1
232330 2647N 08828W 6961 03103 9968 +103 /// 013050 052 057 032 01	
232400 2644N 08830W 6939 03129 9975 +095 /// 238054 059 051 032 01	
232430 2642N 08831W 6951 03118 9974 +096 /// 280053 055 048 026 01	
232500 2640N 08832W 6944 03127 9973 +098 /// 343053 056 051 019 05	
b. Date on HDOB header after 00Z on same mission needs to be start date: "The issue occurs when the observations in the HDOBS	
message extend from one day to the next. According to the Hurricane Operations Plan, Appendix G, Table G-4 the YYYYMMDD: entry on both the WMO header and the mission identifier should be associated with the first HD/HA observation." Ex:	
URNT15 KWBC 222358  NOAA2 0409A ISAAC HDOB 24 20120822	
234900 1556N 06112W 6946 03158 9996 +116 +059 083036 037 /// /// 03	
URNT15 KWBC 230008  NOAA2 0409A ISAAC HDOB 25 20120823 (should stay 22)	
235900 1525N 06143W 6958 03151 0011 +104 /// 159012 014 /// /// 05	
everything else. See AF HDOB: AF307 0209A ISAAC HDOB 37 20120822	
091900 1524N 05757W 8443 01520 //// +166 //// 022011 013 036 008 01	
091930 1523N 05759W 8426 01539 //// +158 //// 040016 020 036 014 01	
d. /// For SFMR data on G4 - Until Alan computes algorithm for better SFMR data or science section gives ok?	
e. Issue with Obs not being sent after 00Z only on some flights, not sure if a netman issue, or WMM issue, because a new folder with the next date would be created on ftp site (which remained empty for at least 2 hours on our last mission, 20120828H2 when our holds were	
not getting to the ground, but still in the "sent" tab), when ideally they should continue to go in that mission id folder.	
Vortex Bugs	
a. Item B needs one extra space before longitude: Vortex messages from Isaac were not getting into models because of this until the	
last mission when someone pointed this out, so we manually added the extra space before sending.	1
B. 26 deg 47 min N	
086 deg 27 min W - wrong B, 28 deg 56 min N	
8. 26 deg 32 min W - right	
b. Need 3 digit Wind degrees for Items E. F and G. Ex: I deg 51nm but should read 360 deg 51nm. 20 deg should be 020 deg	
<ul> <li>Sometimes, a few parameters were not calculated (ESLP, Temperature). However, when "find center" was hit again, these would</li> </ul>	
usually come in. Just something to look into.	
d. Standard Level for item C and 2 <sup>nd</sup> part of N. Should be NA unless 1500 feet from standard level (700mb, 850mb). When we flew at 8,000ft the vortex would tell us 700mb, had to change item C and N Manually to NA.	
e. You cannot do a corrected vortex when conducting an inbound leg.	
C. Total calling and a controlled forth miles of the mile	
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## AXBT/AXCTD/AXCP Log

Mission LESLIE Flight ID 20120908hI 

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NOAA・AOC・SED N42RF AVAPS DROP LOG ricane 2012 Mission: ビミンに Flight II 755 Landing: \_\_\_\_\_Flt Dir: 共enn

Project: Hurricane 2012
Take Off: 0755

Flt Dir: Henning

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**EMERGENCY MESSAGE** 

TRANSMIT THE FOLLOWING MESSAGE TO ANY AGENCY ON THE AIR-GROUND FREQUENCY IN USE. IF UNABLE TO ESTABLISH COMMS, ATTEMPT CONTACT ON ANY OF THE FOLLOWING EMERGENCY FREQUENCIES:

NOAA MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA

UHF/VOICE VHF/VOICE MF/VOICE HF/CW MF/CW 243.0 121.5 2182 KHZ 8364 KHZ 500 KHZ

- POSITION

N/S E/W AT

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