NOAA G-IV N49RF ERROR SUMMARY HURRICANE 2010

3 Nov 2010 TS Tomas (NHC Surveillance (PHS)) KMCF>>TISX

Flight ID: 20101103N1

	Number or Name						
	ACINS						
	PALT						
	AKRD2						
	DPR						
	QC2M						
	GPGALT						
* ,	VEW, VNS						
	PS2M						
	SSRD1						
AT3/TT3							
	TAS2						
	49cal093						
	acdata/2010/MET						
Takeoff (0545z)	Landing (1402z)						
unavailable	1009.0 mb						
1016.1 mb	1011.2 mb						
	unavailable						

Notes:

The data system froze just after 6:09z (during climb to initial cruising altitude of 41K). System restored just after 6:20z. All Inertial 2 (PITR) and Honeywell 2 GPS (SG2) values spiked to zero at 12z. Inertial 1 is default.

DADC Pressure Altitude (ADCPALT) was approx 35 meters higher than NACA Pressure Altitude (PALT) during cruise at 41K and 40 meters higher at 45K.

The APN-232 Radar derived Geopotential Altitude (HGALT) was 120 meters or more lower than Collins GPS Geopotential Altitude (GPALT) during cruise.

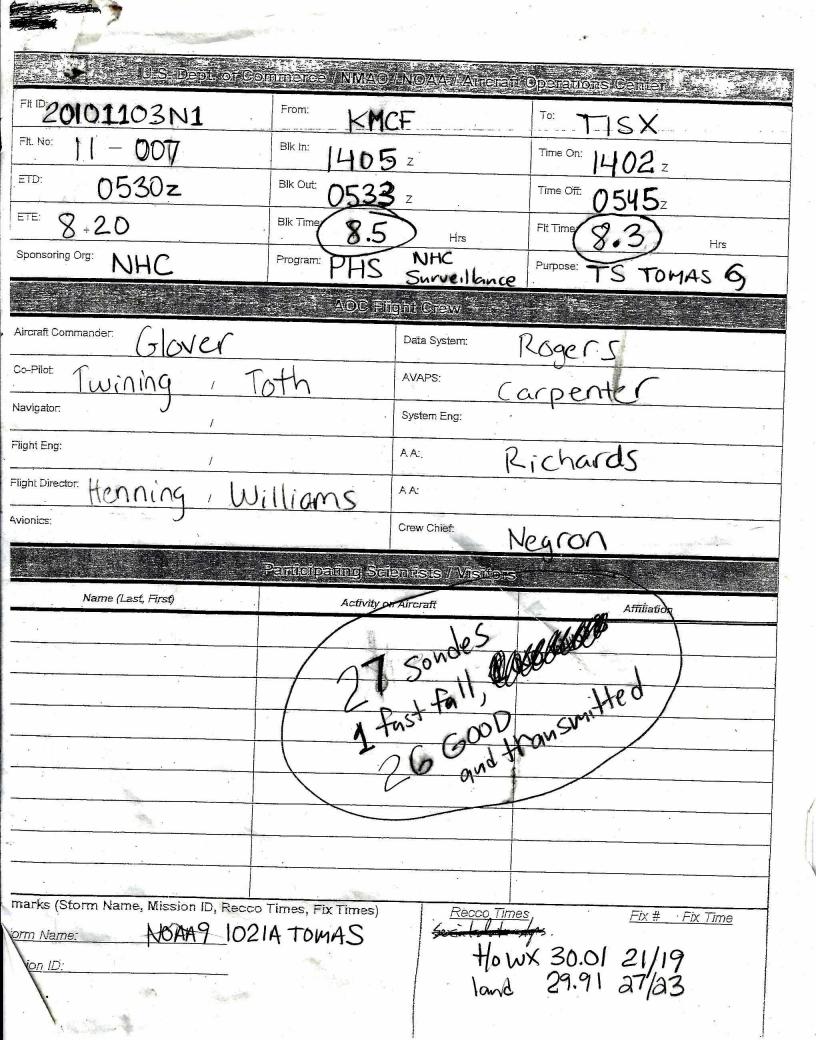
The Left Dew Point sensor (DPLC) again read far too high through the entire flight At times it read 10-15C or more higher than AT3, and 15-20C or more higher than DPRC (which compared more favorably to rawinsonde data). There were two intervals of significant supersaturation using DPRC (RH exceeding 100%) from 10:53z - 11:07z and 12:13-13:00z.

The Air Data Computer Attack Angle (ADCAOA) was again consistently 0.5 to 0.6 degrees higher than the Left and Right Attack Angle sensors (AKRD1 and AKRD2).

All other flight level instruments worked optimally during the flight.

- 26 Drop Points assigned by NHC
- 27 AVAPS II dropsondes deployed
- Of those 27 drops, 26 were good enough to send operational WMO message (there was one fast fall (Drop Pt #8 where backup was good), HOWEVER, 4 of the 26 showed problems (limiting their research value): #1 had no FL Data (so no heights or reliable surface pressure and winds), #10 and #24 lost data before reaching surface (so no heights or sfc data), #23 displayed PTU oscillation
- Of the 26 transmitted sondes, 22 coded surface winds. Drop #22 coded a "LAST WIND" remark of 31 meters. The other three were mentioned above.
- 26 sondes were transmitted for ingestion into the 03/1200z model runs.

Flight Directors: Richard Henning and Jessica Williams (813) 828-3310 ext. 3086



N49RF AOC GPS Dropwindsonde Log

Mission ID: NOARG 1021A Flight ID: 20/01/03/11 Storm/Track: TOM AS

Flight Director: Williams / Haming

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NOAA • AOC • SED

N49RF AVAPS DROP LOG Lead Tech: Gabe Defeo

Project : Hurricane '10

Mission : 10/103/

Flight ID: ____NYGRE

Take Off : 0/45 L

Landing :_____

Flt Dir : Mennine Launcher S/N:

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time ≥	Operator	Charge \$\$ To	Comments /	Good
1	094 645 044	1	0	06/37	TMR	PHS	400.70	+
2	095 035 168	2	(3	0636			401.70	+
3	100 145 036	3	•4	0658			402,7	+
4	094 120 162	4	6	0718		11	403.7	+
5	095035079	1	0	0741	۰		400.7	+
6	100 145-307	2	(9	0757			401.7	+
7	100 145 209	3	0	0819			402.7/ Stap	+
8	094 735 748	4	٥	0846			403.7/Scattered De	× -
9	095 035 1.96	1	٥	OF43			400.7	+
10	095 335 005	2	. ż	0851			401.7	+
11	095 035 101	3	· 2	0906			402.7	+
12	093 736 158	4	.6	0921			404.7/NOGES	_
13	094 645 118	1	6	0934			400.7	+
14	095 035 186	a	٥	1000			401.7	+
15	094 735 533	3	0	1017			400.7	+ +
16	095 035 242	4	-6	1028			403.7	
17	094 735 786	1	D	1039			404.7	
18	095035205	2	.7	1051			400.7	
19	094 735 540	3	٥	1103			402.7	
20	095 635 049	4	0	1114			403.7	
21	694 645 105	1	0	1125			404.7	
22	094 645 048	2	Ø	1136			400.7	
23	102 125 214	3	.8	1147			402.7	
24	102 125 216	4	.5	1157			40107	
25	095 035 170	1	0	129			2/04.7	
26	094 355 065	2	.8	1221			400.7	
27	095 035 163	3	a	1232	=		403.7	
28	102 135 187	4	.6	1241			402,7	
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30	4							
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11/03/2010, 06.20:15-14.05:22

