

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

FLT ID: 20131004H1	From: KMCF	To: KMCF
FLT #:	Blk In: 0219 z	Lnd Time: 0211 z
ETD: 1800 z	Blk Out: 1754 z	T/O Time: 1809 z
ETE:	Total Blk: 8.4	Total Flt: 8.0
Sponsoring Org: NHC	Program: PRX	Purpose: TDR GKAREN

AOC Flight Crew

Aircraft Commander: NELSON	SSA: BOSKO
Co-Pilot: SWEENEY PRICE	AVAPS: ROLES
Navigator: SIEGEL	Scientists: (HRD) Rob ROGERS
Flight Eng: KLIPPEL, LALONDE	Scientists (HRD) Kathryn SELWOOD
Flt Director: HENNING/DAMIANO	Scientists (FSU) Andy HAZLETON
SEB: Terry LYNCH Charles L	Scientists: (FSU) Nikki PERRINI
Crew Chief:	Visitors: OBS Kerryn Schneider (DC) Sean Davis

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure		30.05		0158z 30.05

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	20	Good: 20	Bad: 0	Sent: 20
AXBT	9	Good: 8	Bad: 1	Sent: 8

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): AL122013 (ie: AL072012)			
TCPOD/WSPOD Mission ID: NOAA2 0912A KAREN (ie: NOAA2 2418A SANDY)			

Remarks:

pcab 1017.0 1658z 30.07
 +/-
 SLP 1018.6 1658z land 30.06
 1017.9 1758z

IP 2714 8900
 E 2604 9019



N42RF ERROR SUMMARY TS KAREN MISSION #2



Flight ID: 20131004H1

<u>Sensor or system</u>	<u>Number or Name</u>
INE (for wind derivation)	INE1
Accelerometer	AccZfilterI-GPS.1
Temperature Probe	TTM.1
Dew Point Probe	TDM.1X
Static Pressure	PSM.2
Dynamic Pressure	PQM.2
Vert. Wind	ALTGPS.3 (NOVATEL)
Project Directory	/acdata/2013/MET/20131004H1

Notes:

There were no data gaps.

During the time periods 201316Z – 201336Z, 212909Z – 213041Z, 224313Z – 224324Z, 224950Z – 225031Z, 225339Z – 225454Z, 231114Z – 231233Z, 235737Z – 001124Z and 001419Z – 001440Z the measured Buck (TDM.1) dewpoint temperature displayed erroneous values that were removed and replaced with TDM.2 (EdgeTech) output by direct substitution.

TDM.1 = TDM.2

Also during the time frames 201426Z – 201434Z, 222242Z – 222250Z and 015540Z - 020320Z the measured Buck (TDM.1) dewpoint temperature displayed erroneous values that were manually removed and replaced with TDM.2 (EdgeTEch) dewpoint values using statistical techniques with a patch values of 0.10, 0.50 and 0.53, respectively .

During the flight there were instances where dewpoint temperature values exceeded derived ambient temperature values resulting in humidity values above 100%. These situations occurred during precipitation events.

The Novatel GPS (AltGPS.3) altimeter output had a 1-second dropout at 211723Z causing vertical wind and extrapolated sea level pressure outputs to be missing.

All other instrumentation worked optimally.

SPECIAL NOTE!!! The variable names DPJ_GSZ, DPJ_ASZ and DPJ_WSZ 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.

Dropsondes deployed: 20; 20 good; 20 Tempdrop messages sent
AXBTs deployed: 9; 8 good; 8 WMO messages sent

	Takeoff(1809Z)	Landing(0211Z)
Aircraft Static Pressure	1016.9mb	1016.7mb
Corrected Tower Pressure	1016.7mb	1017.1mb
Flight Director:	A. Barry Damiano	(813) 828-3310 ext. 3073
	Richard Henning	(813) 828-3310 ext. 3086

17.02
+ 35
67

20131004 H1

T/O 1889

LWD 0211

KMEF T/O 30.04
1016.67

$\overline{PSM1} = 1013.23$

$\overline{PSM2} = 1016.92$

ALT ref GPS.3

IWE1

KMEF LWD 30.06
1017.13

$\overline{PSM1} = 1015.11$

$\overline{PSM2} = 1016.68$

W2

212108

211723
GPS.3
disput

TDM.1 fix

201300 - 201400 201316 - 201336

201430, 201426 - 201434 Patch.10

~~205214 - 205235~~

~~205214 - 205235~~

212909 - 213041

~~222200 - 222400 - 222242 - 222250 patch.50~~
224313 - 224324

224960 - 225100 → 224950 - 225031

~~225330 - 225438~~ = 231114 - 231238

235737 - ²⁴001124

225339 - 225454 ✓

~~0014 - 0015~~ 001330 - 001530

→ 001419 - 001440

~~0155 - 020315~~

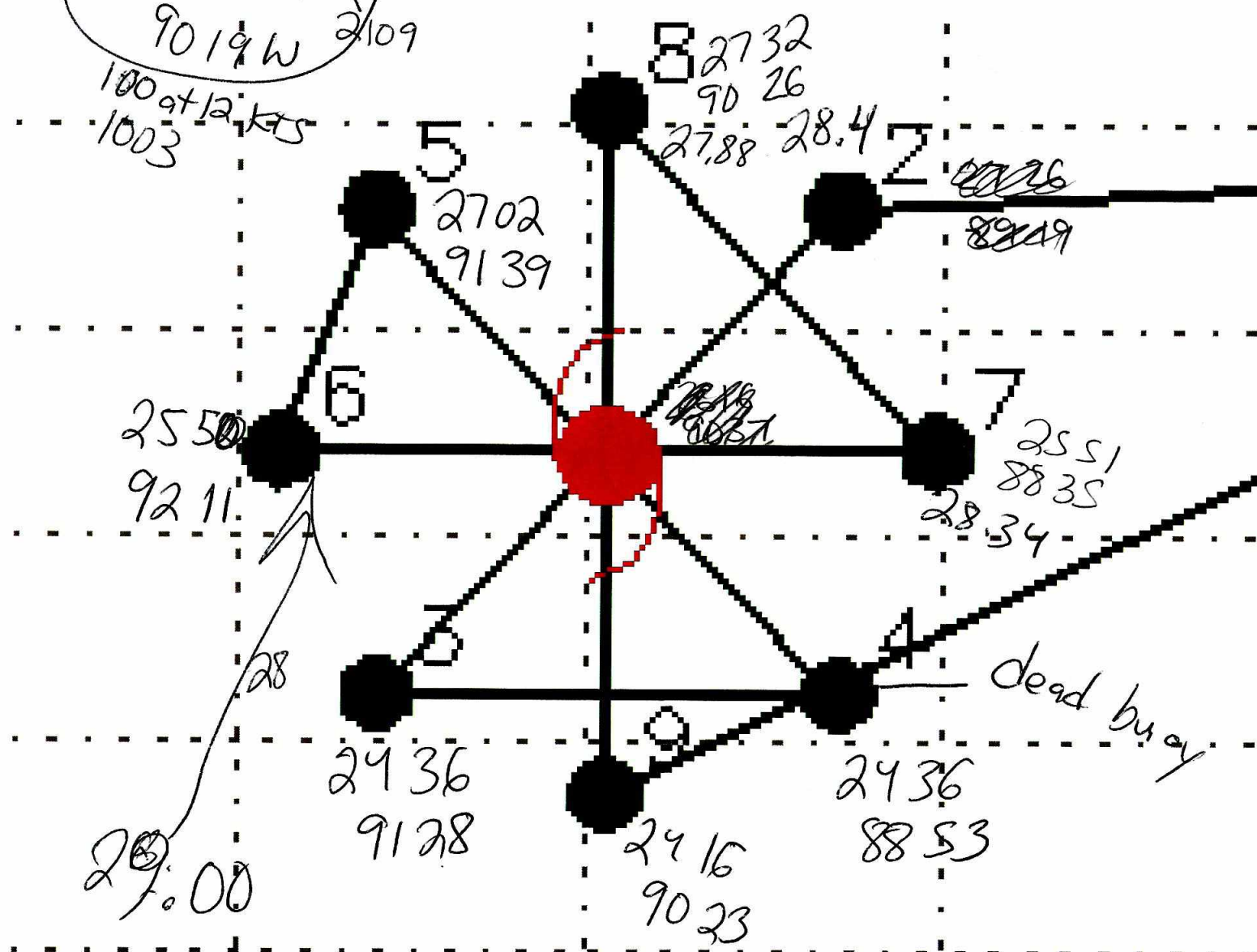
015540 - 020320 patch.53

28.7
 MKD
 1006 mb
 1957z
 2547
 9010
 1944 →

Dry
 Vertex
 NE
 QUD

Extrap 100
 212738
 2551N
 9019W
 2109
 100 at 12.45
 1003

080/50

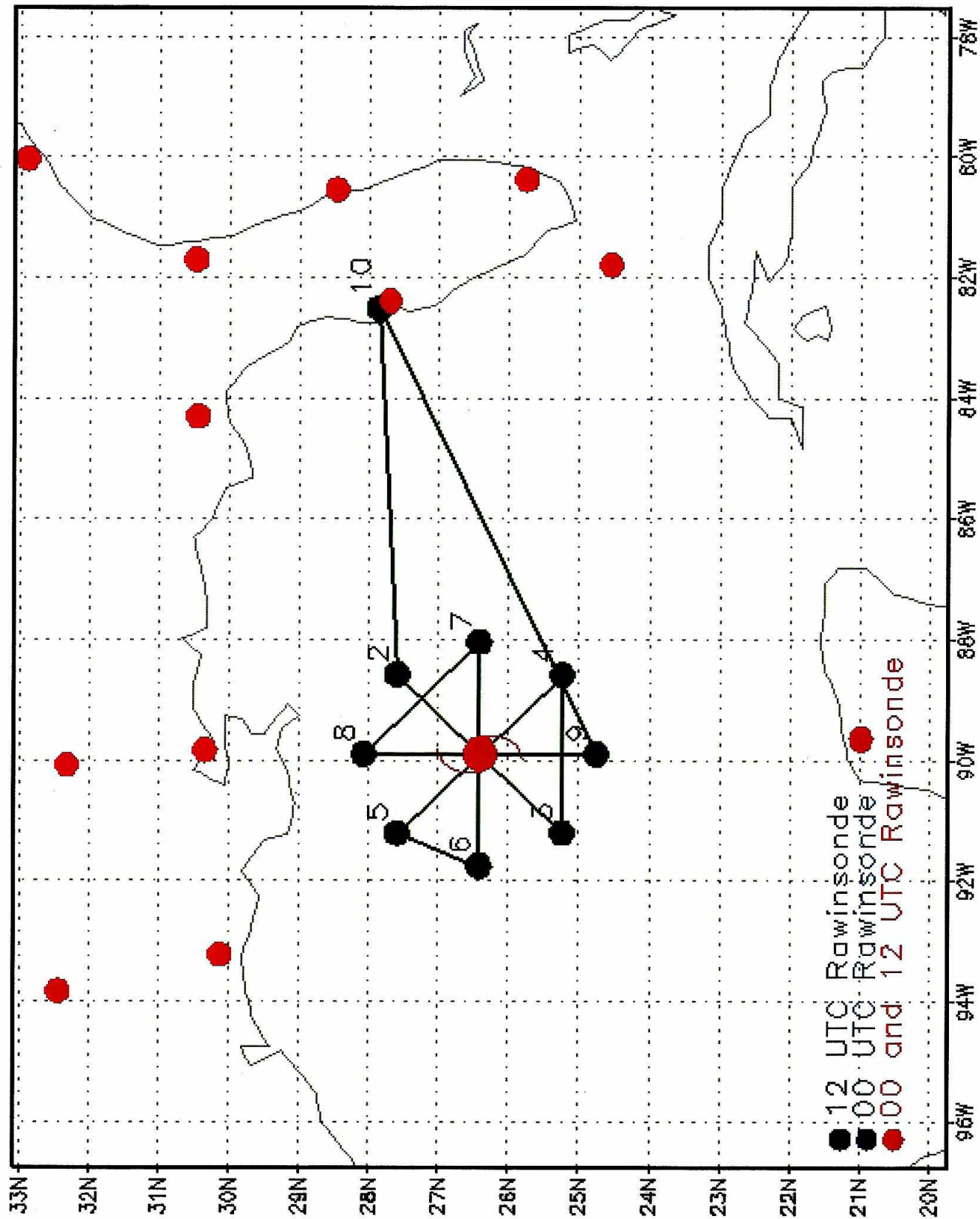


29.00

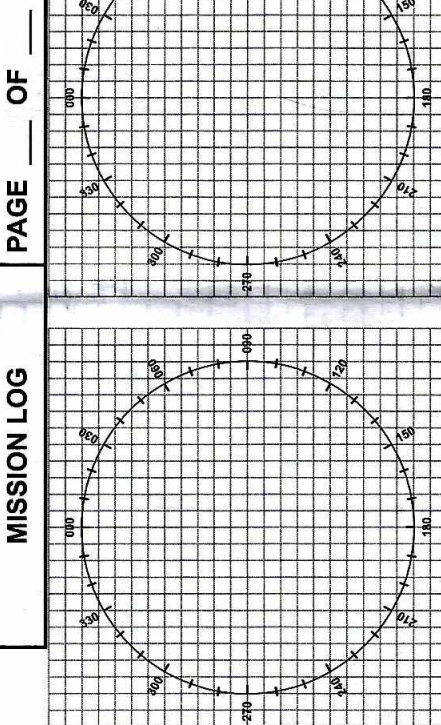
223509z
 2550
 9026

1005 mb
 325/17

235623
 2556
 9022
 Sonda
 1006
 215/21H.



CLEARANCES			
FREQ	ALT	HDG	OTHER
135.9Z	01000		CAF R 080 71600 16KT10
135.77	01000		119.9 1446SR
134.9	01000	backstop	



POSITION REPORT	
1. POSITION	
2. TIME	
3. ALTITUDE	
4. NEXT POSITION	
5. ETA	
6. NEXT POSITION	

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:
 UHF/VOICE 121.5 2182 KHZ HF/CW 8364 KHZ MF/CW 500 KHZ
 MAYDAY, MAYDAY, MAYDAY
 THIS IS NOAA 42, NOAA 42, NOAA 42
 - POSITION _____ N/S _____ E/W AT _____ Z
 - HEADING _____ TRUE/MAG _____
 - AT _____ KTS TRUE/INDICATED _____
 - FLIGHT LEVEL OR ALTITUDE _____
 - WE ARE A P-3 AIRCRAFT WITH _____ SOULS ON BOARD
 - NATURE OF EMERGENCY _____
 - ASSISTANCE DESIRED _____
 - PILOT INTENTIONS _____
 - WE HAVE _____ ENDURANCE REMAINING _____

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	VAR +E=>	TH	DR +R=>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS	
1748	START																				
1753	TAXI																				
1808	T/O	N 27 45.7 W 82 30.5	27 45.7 82 30.5	0 0	27 45.7 82 30.5	0 0	SW	265	4L	261	244	010	16	720	242					180/6	
1815	XV																				
1915	△	27 19.4 87 48.5	27 19.4 87 48.5	+1.1 -1.3	27 19.4 87 48.5	+1.1 -1.3	ZW	260	0	261	313	091	16	100	206						
2020	△	24 43.0 91 20.7	24 42.9 91 20.7	+1.1 0	24 43.0 91 20.8	+1.1 -1.1	IE	228	3L	225	241	305	13	080	213						
2115	△	25 22.5 89 34.4	25 22.5 89 34.5	-1.7 +1.8	25 24.0 89 32.5	-1.5 +1.9	0	300	3L	300	239	049	14	080	234						
2215	△	25 50.5 91 53.9	25 52.1 91 53.9	-1.6 0	25 53.3 91 51.2	-2.8 +2.7	IE	081	2R	083	228	011	9	080	239						
2315	△	26 34.5 89 22.7	26 37.6 89 22.8	-3.1 +1.4	26 39.1 89 22.8	-1.6 -1.1	0	300	1R	315	271	147	25	080	247						
0015	△	24 41.2 90 22.4	24 44.6 90 20.8	-3.4 +1.6	24 45.9 90 19.6	-4.7 +2.8	0	182	2L	180	240	276	14	080	239						
0115	△	25 51.2 86 27.1	25 50.1 86 25.1	-1.1 +2.0	25 57.3 86 22.2	-7.2 +7.1	ZW	067	1R	068	268	297	7	720	267						
0210	LAND	16MCF																			
0219	BLOCK																				

JAX
400
1120

