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

FLT ID:	20130915N1	From:	KMCF	To:	KMCF
FLT #:		Blk In:	2008 Z	Lnd Time:	1959 Z
ETD:	1300 Z	Blk Out:	1246 Z	T/O Time:	1256 Z
ETE:		Total Blk:	7.4	Total Flt:	7.1
Sponsoring Org:	PHX	Program:	HRD	Purpose:	TDR Research

AOC Flight Crew

Aircraft Commander:	TWINING	SSA:	DEFEO
Co-Pilot:	MANSOUR / MACINTYRE	AVAPS:	DELGADO / MILLER
Navigator:	/	Scientists:	
Flight Eng:	/	Scientists	
Flt Director:	MORGAN / DAMIANO	Scientists	
SEB:	GOLDSTEIN / /	Scientists:	

Crew Chief: Visitors: / /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	1014.8mb	30.01 1016.2mb	1014.1mb	29.98 1015.2mb

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	24	Good: 21	Bad: 3	Sent: 24
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): AL102013
(ie: AL072012)

TCPOD/WSPOD Mission ID: NOAA9 WX10A INGRID
(ie: NOAA2 2418A SANDY)

Remarks:

NOAA • AOC • SED

N49RF AVAPS DROP LOG Lead Tech: Gabe Defeo

Project : Hurricane 2013 Mission : Hurr. Ingrid Flight ID : 20130915N1

Take Off : _____ Landing : _____ Flt Dir : Morgan Launcher S/N: _____

Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge $$ To	Comments	Good ?
1	103 855 175	1	-0.6	1439	jed	PHX	—	✓
2	112 115118	2	-0.5	1452	↑	↑	weak Telemetry	NO
3	112 54 5108	3	—	1507			end at 100 m?	✓
4	112 54 15349	4	-0.4	1522				✓
5	112 54 5109	1	0.2	1534				✓
6	112 115322	2	-0.2	1544				✓
7	112 515046	3	-0.2	1555				✓
8	114 335009	4	—	1607				✓
9	114 335021	1	—	1619				✓
10	112 545097	2	-0.2	1628				✓
11	114 335014	3	-0.4	1638				✓
12	114 335011	4	—	1648				✓
13	114 335003	1	-0.5	1656				✓
14	114 335006	2	-0.3	1702				✓
15	114 335020	3	—	1711				✓
16	114 325234	4	-0.1	1720				✓
17	114 335001	1	—	1730				✓
18	114 338012	2	-0.3	1736				✓
19	114 335013	3	-0.5	1741				✓
20	114 325184	4	-0.1	1746			lost Telemetry at end	NO
21	112 545095	1	—	1754				✓
22	112 115147	2	-0.7	1801				✓
23	112 545076	3	—	1806	↓	↓	fast fall	NO
24	114 325245	4	—	1809	jed	PHX	—	✓
25								
26								
27								
28								
29			PTU only failed @ 900 mB					
30								
31								
32								
33								
34								

N49RF AOC GPS Dropwindsonde Log

Flight ID 20130915N1 Flight Director MORGAN/DAMIANO Page 1 of 2

Mission ID WX10A Storm INGRID

Drop#	Sonde ID#	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Prs mb	WX Cond.	Comments SFC WND (m/s)	OB #	SatComm Failure	Send Time (UTC)
1	103855175	143931	24.02	94.29	1009.4	CLD/LGT TURB	129/13.5	1		1503
2	112115118	145204	22.64	93.72	NA	CLD/LGT TURB	Bad telemetry	2	Bad GPS 730 mb	1521
3	112545108	150749	20.94	94.10	1007.4	CLD/LGT TURB	145/13.3	3		1531
4	112115349	152212	20.75	95.91	1006.9	CLR/OVC BLW	NO SFC WND	4		1546
5	112545109	153422	21.66	97.06	1007.0	CLR/BKN CLD BLW	296/9.7	5		1556
6	112115322	154403	22.72	97.51	1007.5	CLR/BKN CLD BLW	338/11.6	6		1605
7	112515046	155538	24.11	97.37	1009.0	CLR/BKN CLD BLW	054/6.4	7		1617
8	114335009	160725	24.65	95.90	1009.5	CLR/BKN CLD	108/8.6	8		1632
9	114335021	161912	23.74	94.74	1008.6	CLD	129/15.6	9		1644
10	112545097	162852	22.68	94.31	1007.8	CLD	148/12.8	10		1656
11	114335014	163819	21.64	94.79	1007.1	CLD	170/14.6	11		1700
12	114335011	164840	21.32	96.02	1006.3	CLR/CLD BLW	249/13.7	12		1710
13	114335003	165625	22.02	96.67	1004.7	CLR/CLD BLW	NA	13		1721
14	114335006	170243	22.70	96.98	1006.2	CLR/CLD BLW	013/8.3	14		1726
15	114335020	171159	23.78	96.96	1007.9	CLR/OVC BLW	065/9.3	15		1736
16	114325234	172045	24.14	95.89	1008.7	CLD	103/10.5	16		1747
17	114325001	173010	23.33	95.18	1007.0	CLD	119/14.7	17		1758
18	114335012	173632	22.59	95.15	1003.8	CLD (RH)	108/22.2	18		1808
19	114335013	174111	22.06	95.29	1004.6	CLD	188/16.2	19		1817
20	114325184	174616	21.78	95.86	NA	CLD	Quit at 897.5	20	BAD	1825
21	112545095	175402	22.59	96.29	1002.6	CLD	357/11.0	21		1829
22	112115147	180108	23.38	96.58	1006.3	CLD	070/12.3	22		1836
23	112545076	180658	23.70	95.90	1006.6	CLD	FF	23	FF	1841

RS/LS Ch. 2

[redacted]

HGTS 20-30 m too high

N49RF AOC GPS Dropwindsonde Log

Flight ID 20130915N1 Flight Director MORGAN / DAMIANO Page 2 of 2

Mission ID WX10A Storm INGRID

Drop#	Sonde ID#	Time (UTC)	Lat (°N)	Lon (°W)	Sfc Prs mb	WX Cond.	Comments	OB #	SatComm Failure	Send Time (UTC)
24	114325245	180944	23.75	95.54	1007.5	CLD	114/13.7	24	LAST	1855