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

FLT ID: 20L00SF1	From: KMCF	To: KMCF
FLT #: 14-2	Blk In: 1330 Z	Lnd Time: 13 24 Z
ETD: Z	Blk Out: 0524 Z	T/O Time: 0533 Z
ETE:	Total Blk: ~~0529~~ 8.1	Total Flt: 7.8
Sponsoring Org: EMC	Program: HFIP	Purpose: TS KAREN

AOC Flight Crew

Aircraft Commander: KIBBEY	SSA: NAEHER
Co-Pilot: MARTIN / DIDIER	AVAPS: SMITH / NEONATM
Navigator: GALLAGHER /	Scientists: BUCCI USA
Flight Eng: DARBY / HEYSTEK	Scientists CIONE - JOE
Flt Director: SEARS /	Scientists WOLFE, DAN
SEB: PEEK / /	Scientists: SAPP, JOE
Crew Chief:	Visitors: / /

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure				

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	17	Good: 17	Bad: 0	Sent: 17	
AXBT	9	Good: 9	Bad: 0	Sent: 9	

List other data sources in Remarks section

Remarks (Storm VDM Identifier, Mission ID, Fix Times)

Storm Number Identifier (VDM): AL122013
(ie: AL072012)

TCPOD/WSPOD Mission ID: NOAA3 1112A KAREN
(ie: NOAA2 2418A SANDY)

Remarks:

Fix #	VDM Ob Num	Fix Time / SLP
1		0545
2		~~07~~ 09
3		758
4		850
		913
		923
		1010
		1038
		1126
		1151

N42RF ERROR SUMMARY
TS KAREN 2013
04 October 2013

Flight ID: 20131004I1

Sensor or system	Number or Name
Static Pressure Probe	PSM.2
Dynamic Pressure Probe	PQM.2
Total Temperature Probe	TTM.1
Dewpoint Temp. Probe	TDM.2X
Vertical Accelerometer	AccZI.1
Altimeter	AltIGPS.3
INE Selection	INE 1
Flight Directory	acdata/MET/2013/20131004I1

Local Met Data:	Takeoff (0555Z)	Landing (1344Z)
Aircraft Static Pressure	1016.9mb	1018.4mb
Tower Pressure (corrected)	1017.0mb	1018.7mb

Notes:
There were no data gaps.

The measured Dewpoint Temperature from the EdgeTech sensor (TDM.2) recorded erroneous values during the following timeframes.
120000Z – 120010Z
120711Z – 120719Z

The values from TDM.2 were replaced with values from the measured Dewpoint Temperature from the Buck sensor (TDM.1).

During the flight there were instances during heavy precipitation where the calculated ambient dewpoint temperature exceeded the calculated ambient temperature resulting in relative humidity values greater than 100%.

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.

Flight Director: *Ian Sears*
Phone #: *(813) 828-3310 ext. 3039*

NOAA • AOC • SED N43RF AVAPS DROP LOG Lead Tech: Dana Naeher

Project: Hurricane 2013 Mission: AL132013 TS Karen Flight ID: 20131005I1

Take Off : 0533 Z Landing: _____ Flt Dir : Sears

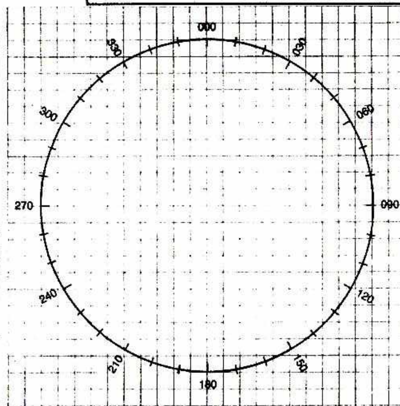
	Drop #	Sonde Serial #	Rcvr #	Press Offset	Launch Time	Operator	Charge $$ To	Comments	Good ?
BT	1	104 055 038	1	Ø	070909	JKV	[illegible]	IP	✓
	2	104 055 060	2	Ø	072126		HFIP	Midpoint	✓
BT	3	104 055 019	3	Ø	073305		NHC	Center	✓
	4	112 445 134	4	Ø	074549		HFIP	Midpoint	✓
BT	5	112 445 154	5	Ø	075756		HFIP	Endpoint	✓
BT	6	112 515 124	6	Ø	080015		HFIP	Endpoint	✓
	7	104 055 027	7	Ø	085525		NHC	Center	✓
BT	8	112 515 126	8	Ø	091210		HFIP	Endpoint	✓
BT	9	112 455 148	1	Ø	092335		HFIP	Endpoint	✓
	10	112 515 025	2	-.5	094476		NHC	Center	✓
	11	103 755 056	3	Ø	095613		HFIP	Midpoint	✓
BT	12	112 535 055	4	Ø	101010		HFIP	Endpoint	✓
BT	13	111 945 360	5	Ø	104008		HFIP	Endpoint	✓
	14	112 515 096	6	Ø	104730		HFIP	Midpoint	✓
	15	112 535 083	7	Ø	105517		NHC	Center	✓
	16	112 535 053	8	Ø	111124		HFIP	Midpoint	✓
BT	17	112 515 049	1	-.5	112450	JKV	HFIP	Endpoint	
	18	104 055 041	2	Ø					
	19								
	20								
	21								
	22								
	23								
	24								
	25								
	26								
	27								
	28								
	29								
	30								
	31								
	32								
	33								
	34								

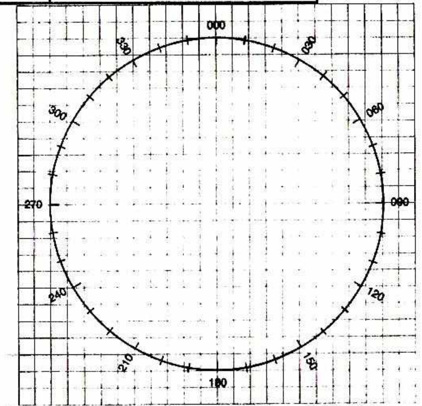
2644 07115 0641 335/59 0832 9116 2735 08740

MISSION LOG

PAGE ___ OF ___

CLEARANCES			
FREQ	ALT	HDG	OTHER
135.5	1600	RWY	AS FILED
1935	12K, 110	RT 030	KG 135.98





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

MAYDAY, MAYDAY, MAYDAY
THIS IS NOAA ______, NOAA ______, NOAA ______

- 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	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST	TIME	ETA	REMARKS
0522 / 0524	ENG / TAXI																				
0530 / 0531	BLK / TAKE																				
0535	△	27-47.2 082-28.1	27-47.2 082-28.0	— +.1	27-47.2 082-27.9	— +.2	284	5W	279	2L	277	252	016	10	12K	242	PENNY	136	+37	0612	
0635	△	27-50.7 087-25.9	27-52.1 087-26.3	-1.4 -.4	27-50.6 087-28.6	+.1 -3.6	279	2W	277	1L	276	251	160	4	12K	248	IP	100	+25	0700	
0723	EYE	26-55 091-10																			
0735	△	26-38.4 091-34.2	26-40.7 091-35.3	-2.3 -1.1	26-37.4 091-39.2	+1.0 -5.0	225	1E	226	2L	224	236	272	5	7000	237	SW	90	+23	0750	
0835	△	26-55.5 090-59.3	26-51.5 090-58.6	-4.0 +.7	26-58.0 090-59.1	-2.5 +.2	315	—	315	1L	316	246	220	10	7K	242	KAREN	45	+11	0846	
0855	KAREN	27-09 091-46																			
0935	△	27-12.6 092-15.7	27-17.6 092-16.1	-5.0 -.4	27-14.2 092-22.9	-1.6 -7.2	090	1E	091	—	091	251	320	9	7K	241	KAREN	13	+03	0938	
0945	KAREN	27-38 091-42	28-30.8 091-41.9		28-36.8		304	1E	305		305	234	115	10	7K	233	N	15	+03	1038	
1035	△	28-30.8 091-41.9	28-36.8 091-42.4	-6.0 -.5	28-37.9 091-50.8	-7.1 -8.9	304	1E	305	—	305	234	115	10	7K	233	N	11	+03	1038	
1058	KAREN	27-35 091-20															SNOWN	279			
1135	△	26-36.1 090-39.1	26-43.2 090-35.6	-7.1 +3.5	26-39.7 090-33.8	-3.6 +5.3	029	—	029	—	029	279	215	16	7K	260	SNOWN	279	1+03	1238	
1235	△	27-33.3 086-29.5	27-41.9 086-20.0	-8.6 +9.5	27-40.9 086-22.6	-7.6 +1.9	095	2W	093	1L	092	306	126	6	7K	307	CYGNL	87	+17	1252	
1324	LAND																				
1331	BLK																				

2853 09141