



**NOAA P-3 N43RF
Hurricane Research
TS ISIDORE POST STORM SURVEY**



Flight ID: I020923

<u>Sensor or system</u>	<u>Number or Name</u>
INE	1
Accelerometer	1
Temperature Probe	1
Dew Point Probe	3 (Buck Research)
Altitude (for vertical wind)	Radar Altitude (RA-159)
Static Pressure	Rosemount Fuselage
Dynamic Pressure	Rosemount Fuselage
Time Source	Micro 99
Constants File	CO3022.CON

Notes:

There was one time/data gaps: 170901Z - 170910Z.

The fuselage static pressure sensor, PSF, had spikes during the following time frames: 1804Z - 1807Z and 1810Z - 1813Z. These spikes were removed and patched over using the wingtip static pressure sensor, PSW, as a reference.

The Buck Research dewpoint sensor, DW3, had a spike between 2349Z - 2352Z. The spike was removed and patched over using the EdgeTech dewpoint sensor, DW2, as a reference.

The King liquid water probe was not operating for the entire mission.

All other instruments worked optimally during the flight.

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.
It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
Aircraft Static Pressure	1010.8 mb	1012.2 mb
Corrected Tower Pressure	1011.0 mb	1012.3 mb
Flight Director:	A. Barry Damiano	(813) 828-3310 ext. 3073

Flt ID: <i>T020923</i>	From: <i>KMCF</i>	To: <i>KMCF</i>
Flt No.: <i>02-36</i>	Blk In: <i>0140Z</i>	ATA: <i>0131Z</i>
ETD: <i>1700Z</i>	Blk Out: <i>1651Z</i>	ATD: <i>1703Z</i>
ETE:	Blk Time: <i>8:49 (8.8)</i>	Flt Time: <i>8:28 (8.5)</i>
Sponsor Org: <i>HRD</i>	Program: <i>HURRICANE RESEARCH</i>	Purpose: <i>POST STORM SURVEY TS ISIDORE</i>

AOC Personnel

AC: <i>TENNESEN</i> ✓	Sys Eng: <i>SMITH</i> ✓
CP: <i>HALVERSON / SILAH</i>	Data Sys: <i>LYNCH</i> ✓
Nav: <i>NEWMAN</i> ✓	Radar:
FE: <i>FLOYD</i> / <i>SMITH</i>	GPS/BT: <i>TONG</i> ✓
Avionics: <i>SANS SOULT</i> ✓	Cld Phys:
FD: <i>DAMIANO</i> ✓	

Participating Scientists/Visitors/AOC

Name (Last, First)	Activity on Aircraft	Affiliation
<i>BLACK, P.</i> ✓	<i>PI</i>	<i>HRD</i>
<i>SHAY, L. (NICK)</i> ✓	<i>PI</i>	<i>RSMA</i>
<i>COOK, T.</i> ✓	<i>AXBT</i>	<i>✓</i>
<i>GUTHEN, S.</i> ✓	<i>AXBT</i>	<i>✓</i>
<i>WALSH, E.</i> ✓	<i>SAR</i>	<i>NASA</i>
<i>ZIPSER, E.</i> ✓	<i>RADAR</i>	<i>U of UTAH</i>

Proposed/Actual Mission/Remarks (Recco, Fixes, Storm, PENET, NHOP #)

9:30am day started *NO KLU*

Radardown

18095

20 AXBT

45 internal

2 boxes sonde

U.S. Dept. of Commerce/NOAA/Aircraft Operations Center

AOCWF2

Flt ID: <u>1020923</u>	Time Off: <u>1634Z 1703Z</u>	Time On: <u>0131Z</u>		
	A/C (Take Off)	Wx Stn (Take Off)	A/C (Land)	Wx Stn (Land)
Pressure	<u>1010.8</u> 1011.0	<u>29.87</u> / <u>1011.0</u>	<u>1012.2</u>	<u>29.92</u> / <u>1012.3</u>

	Number	Data Disposition/Date/Quality
Slow/Fast Flt Lvl Tapes		
Radar Tapes	<u>1</u>	
Cloud Physics Tapes		
Video Tapes	<u>3</u>	
AXBT	<u>19</u>	<u>1 in tube</u>
AXCP	<u>28</u>	
AXCTD	<u>18</u>	
Dropsondes	<u>12</u>	

Video

	Forward	Left Side	Right Side	Down	Remarks
Time On					
Time Off					
Rate					

Remarks

Called NHC at 1720Z

U.S. Department of Commerce/NOAA/Aircraft Operations Center															Form
Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _s	Press. AL	Geo. AL	Slc Press.	Press. Slc	Dyn. Press	Remarks	
172300	2719	8311	213	211	173	19	11.5	10.5	263.0	2755	1010.5	734.7	86.3	RW -	
173300	2643	8637	212	209	138	23	12.7	6.4	2628	2748	1008.9	735.0	84.8	BTN CLD	
174817	2557	8415							1693	1747	1008.9			SONDE/CTD	
175506	2537	8437			134	25								CP	
180124	2524	8459			131	27					1007.8			CTD	
180759	2510	8521			128	26					1006.9			CP	
181404	2456	8541			126	24					1006.0			SONDE/CTD	
182034	2444	8604			130	27								CP	
182712	2430	8626			136	32								CTD	
183337	2417	8647			141	29								CP	
184004	2404	8709			131	31								CTD	
184659	2348	8731			127	29					1002.7			CP/SONDE	
185749	2332	8736												RT 14	
185816	2311	8743			151	39					1006.7			RT 12	
190525	2249	8749			144	43					1000.7			BT 14 / SONDE	
191111	2240	8733			147	45								RT 16	
191719	2231	8716			144	50								BT 12	
192314	2222	8659			150	37								RT 12	
192902	2213	8642			140	45								CP 14	
193455	2204	8626			153	42								CP 16	
194109	2154	8608			161	45								CP 12	
194648	2146	8552			165	40								CP 14	
195222	2137	8535			166	35								CP 16	
195800	2127	8518			166	32								CTD 14	
200334	2119	8502			170	36								CP 12	
200905	2110	8445			171	34								CTD 16	
201425	2100	8438			169	33								SONDE/CP	
202020	2050	8454			170	39					1002.7			BT 12	
202719	2041	8518												RT 14	
203428	2030	8542			154	37								RT 12	
204109	2021	8606			160	42								RT 14	
204758	2016	8621			166	44					1001.0			SONDE/CP	
205106	2029	8622			163	45								CTD	
205523	2048	8624			155	46								CP 16	
205944	2107	8627			156	43								CTD 14	
210424	2128	8630			155	43								CP 12	
210823	2145	8630			158	44								CP 14	
211254	2205	8630			174	46					1000.2			CP 12	

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Page 2 of 2

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Form

Time	Lat	Long	Trk	Hdg	Wind Dir	Wind Spd	T _a	T _s	Press. Alt.	Geo. Alt.	Slc Press.	Press. Slc	Dyn. Press	Remarks
211708	2224	8631			159	45								CP 16
212129	2243	8631			153	41					1002.5			CTD 14
212557	2302	8631			153	42					1002.7			CP 12
213028	2321	8631												CTD 14
213406	2340	8630												CP 12
214012	2400	8628			149	34					1003.8			SONDE / RT
215510	2359	8530			147	28								BT 12
221033	2359	8430			162	31								BT 12
222658	2400	8333			155	20					1007.4			SONDE / CTD
223350	2343	8353			162	30								CP 16
224130	2327	8416			154	35					1006.5			CTD 14
224856	2311	8438			150	43								CP 12
225627	2254	8501			157	36								CTD 14
230350	2239	8523			159	46								CP 16
231120	2223	8546			158	42								CTD 14
231848	2206	8607			158	43								CP / BT 14
232420	2157	8626			154	55		Line of Vx			1003.0			SONDE / RT 14
232840	2258	8643			144	55								BT 12
233327	2226	8646			166	48								CP 14
234705	2252	8707			151	41		in CB						CTD / SONDE
235328	2259	8648			126	34								CP 12
000021	2313	8626			136	30								BT 16
000718	2326	8602			144	32								CP 14
001337	2339	8540			154	40					1005.6			CTD 16.5
002031	2352	8517			156	36					1006.0			CP 12
002657	2405	8455			156	45								CTD 14
003336	2418	8432			156	37								BT 14
003935	2431	8409			155	30					1508.7			BT 14 / SONDE
010600	2625	8311	24	28	141	20	7.7	57	3347	5523	1010.4	670.7	3016	RCW

