

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

Flt ID: <b>N040812N</b>	From: <b>KMCF</b>	To: <b>KGPT</b>
Flt. No: <b>082 - 04</b>	Blk In: <b>1349 z</b>	Time On: <b>1344 z</b>
ETD: <b>0530 z</b>	Blk Out: <b>0524 z</b>	Time Off: <b>0535 z</b>
ETE: <b>8 + 30</b>	Blk Time: <b>8 + 25 (8.4) Hrs</b>	Flt Time: <b>8 + 09 (8.2) Hrs</b>
Sponsoring Org: <b>DHC</b>	Program: <b>Surveillance</b>	Purpose: <b>A. Charley 12Z mission</b>

**AOC Flight Crew**

Aircraft Commander: <b>McCann</b>	Data System: <b>Hill ✓</b>
Co-Pilot: <b>Maxson</b> , <b>Finn</b>	AVAPS: <b>Boles ✓</b>
Navigator: <b>/</b>	System Eng: <b>Barr ✓</b>
Flight Eng: <b>Rotteneel</b> , <b>/</b>	A A: <b>/</b>
Flight Director: <b>Parrish ✓</b> , <b>/</b>	A A: <b>/</b>
Avionics: <b>/</b>	Crew Chief: <b>/</b>

**Participating Scientists / Visitors**

Name (Last, First)	Activity on Aircraft	Affiliation
<b>Landsea, Chris ✓</b>	<b>HAPS Operator</b>	<b>HRD</b>

<b>Remarks (Storm Name, Mission ID, Recco Times, Fix Times)</b>	<u>Recco Times</u>	<u>Fix #</u> <u>Fix Time</u>
Storm Name: _____	~10Z - GPS display died.	H.D. mission
Mission ID: _____	~12Z - Double reg, today & tomorrow.	
Penetration number and time	1230Z - Proposed pt 27, for gas.	

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Flight ID: **N040812N**

Time Off: **0535** Z

Time On: **1344** Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
<b>Pressure</b>	<b>1016.6</b> mb	<b>29.99</b> mb	<b>1010.5</b> mb	<b>29.88</b> mb

ATIS	Time	Observation			
Takeoff	0500 Z	160/6	26/22	1016.6 mb	
Land	1253 Z	340/6	3M	Mist	23/22 29.88

	Number	Data Disposition / Date / Quality
Flight Level Tapes		
Radar Tapes		
Cloud Physics Tapes / CDs		
Video Tapes		
Dropsondes		Good:      Bad:
AXBT		
AXCP		
AXCTD		

Remarks:  
 Re 160/6      26/22 1016.6mb  
 170/8 7      25/22 29.98 -43







# 040812N H. Charley Surveillance

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

Form 4113-50

Time	LAT	LONG	TK	WD	WS	GA	PA	TA	TD	P <sub>s</sub>			
0824	27.50.9	82.29.6					-16	27	22	1016.1			Block Out
0837	27.53	82.24	103	165	11.7	1384	1310	19.6	13.6	817	↑		
0849	28.01	81.01	77	243	8.4	7521	7097	-16	-28	402	↑		
061007	27.55	78.03	~	228	9.4	12156	12487	-58.3	-62.2	177.9	Drop	1 ✓	
062606	26.00	78.00	180	241	2.2	13168	12495	-58.3	-61.9	177.6	Drop	2	? Winds above 3000'
064425	23.52	78.07	182	203	1.3	13168	12482	-59	-59	172.9	Drop	3	Winds below 3000'
070238	21.59	76.58	124	224	7.9	13314	12630	-60.3	-61.6	173.7	Drop	4	Short wind report
071657	21.15	75.15	115	299	7.2	13310	12638	-60.5	-62.8	173.4	Drop	5	Good
073125	20.23	73.38	~	322	11.5	13303	12631	-60	-62	173	Drop	6	Good
074639	19.00	74.57	~	8.4	5.3	13311	12629	-60.3	-64.8	173.6	Drop	7	Good
080225	17.00	75.00	180	1.0	7.2	13437	12763	-61	-66	169.8	Drop	8	Good
081744	15.03	75.04	~	351	6.9	13430	12764	-61.3	-66.5	169.9	Drop	9	Good
083311	77.00	15.00	269.8	359	10	13440	12767	-61.1	-64.9	169.9	Drop	10	Good
084650	15.04	78.57	~	327	5.3	13581	12903	-62.9	-64.1	166.0	Drop	11	Good
090448	16.56	79.04	~	8	7	13592	12909	-62.7	-64.7	165.9	Drop	12	Good
092006	17.00	81.00	270	37	3.2	13734	13045	-63.1	-66.5	162.1	Drop	13	Good
093531	17.02	82.58	~	123	7.1	13730	13042	-63.4	-63.4	162.1	Drop	14	Good
094945	18.30	84.01	302	204	4.5	13730	13049	-61.8	-66.4	162.1	Drop	15	Good
101356	19.55	86.78	~	23	14	13866	13192	-63.2	-63.9	158	Drop	16	Good
103615	20.06	84.08	~	147	16	14018	13334	-63.9	-64.4	154	Drop	17	Good
105302	21.97	85.06	~	160	6.4	14311	13612	-65.5	-69.5	147	Drop	18	Good
110755	22.04	87.01	~	8	13.9	14328	13620	-65.8	-70.1	146.9	Drop	19	Good
113038	23.98	88.77	~	11	4	14329	13618	-66.6	-70.2	147	Drop	20	Good
114417	24.00	86.99	90	356	7.4	14330	13617	-66.3	-69.9	147	Drop	21	Good
115919	24.06	85.05	~	64	11	14337	13621	-66.5	-69.6	147	Drop	22	Good
121545	25.96	85.11	~	292	2.8	14332	13625	-66.7	-67.5	146.9	Drop	23	Good, lake winds
123045	25.93	87.01	276	226	8.2	14337	13627	-66.8	-68.4	146.9	Drop	24	Good
124519	26.11	88.85	~	313	8.6	14328	13623	-64.8	-67.6	147	Drop	25	Good
130534	27.98	87.06	~	291	13.8	14299	13621	-66.6	-69.6	147.1	Drop	26	Good
134945	30.41	89.06						25.8	20.58	1010.7	23/0.2	14	

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: CHARLEY

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 12/0530Z

TRACK DISTANCE TABLE

*DATA 6-14 Turn Points*

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	28 00	78 00		240.	240.	0:43
2	24 00	78 00		240.	481.	1:15
3	22 00	77 00		132.	613.	1:33
4	20 30	73 30		216.	829.	2:03
5	19 00	75 00		124.	953.	2:19
6	15 00	75 00		240.	1193.	2:52
7	15 00	79 00		232.	1425.	3:23
8	17 00	79 00		120.	1545.	3:40
9	17 00	83 00		230.	1775.	4:11
10	18 30	84 00		107.	1882.	4:26
11	19 30	87 00		181.	2063.	4:50
12	20 00	84 00		172.	2235.	5:13
13	22 00	85 00		133.	2368.	5:31
14	22 00	87 00		111.	2479.	5:47
15	24 00	89 00		163.	2643.	6:09
16	24 00	85 00		220.	2862.	6:39
17	26 00	85 00		120.	2983.	6:55
18	26 00	87 00		108.	3091.	7:10
19	26 00	89 00		108.	3199.	7:24
20	28 00	87 00		161.	3360.	7:46
21	28 00	85 00		106.	3466.	8:01
22	MACDILL			132.	3598.	8:28



HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: CHARLEY

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Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 12/0530Z

DROP LOCATIONS

*Instrument Drop Locations*

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
<del>1</del>	<del>28 00</del>	<del>78 00</del>		<del>0:43</del>
<del>2</del>	<del>26 00</del>	<del>78 00</del>		<del>0:59</del>
<del>3</del>	<del>24 00</del>	<del>78 00</del>		<del>1:15</del>
<del>4</del>	<del>22 00</del>	<del>77 00</del>		<del>1:33</del>
<del>5</del>	<del>21 15</del>	<del>75 15</del>		<del>1:48</del>
<del>6</del>	<del>20 30</del>	<del>73 30</del>		<del>2:03</del>
<del>7</del>	<del>19 00</del>	<del>75 00</del>		<del>2:19</del>
<del>8</del>	<del>17 00</del>	<del>75 00</del>		<del>2:36</del>
<del>9</del>	<del>15 00</del>	<del>75 00</del>		<del>2:52</del>
<del>10</del>	<del>15 00</del>	<del>77 00</del>		<del>3:08</del>
<del>11</del>	<del>15 00</del>	<del>79 00</del>		<del>3:23</del>
<del>12</del>	<del>17 00</del>	<del>79 00</del>		<del>3:40</del>
<del>13</del>	<del>17 00</del>	<del>81 00</del>		<del>3:55</del>
<del>14</del>	<del>17 00</del>	<del>83 00</del>		<del>4:11</del>
<del>15</del>	<del>18 30</del>	<del>84 00</del>		<del>4:26</del>
<del>16</del>	<del>19 30</del>	<del>87 00</del>		<del>4:50</del>
<del>17</del>	<del>20 00</del>	<del>84 00</del>		<del>5:13</del>
<del>18</del>	<del>22 00</del>	<del>85 00</del>		<del>5:31</del>
<del>19</del>	<del>22 00</del>	<del>87 00</del>		<del>5:47</del>
<del>20</del>	<del>24 00</del>	<del>89 00</del>		<del>6:09</del>
<del>21</del>	<del>24 00</del>	<del>87 00</del>		<del>6:24</del>
<del>22</del>	<del>24 00</del>	<del>85 00</del>		<del>6:39</del>
<del>23</del>	<del>26 00</del>	<del>85 00</del>		<del>6:55</del>
<del>24</del>	<del>26 00</del>	<del>87 00</del>		<del>7:10</del>
<del>25</del>	<del>26 00</del>	<del>89 00</del>		<del>7:24</del>
26	28 00	87 00		7:46 <sup>1315</sup>
27	28 00	85 00		8:01 <sup>1330</sup>

*GLF  
30 24'  
89 28'  
3m*

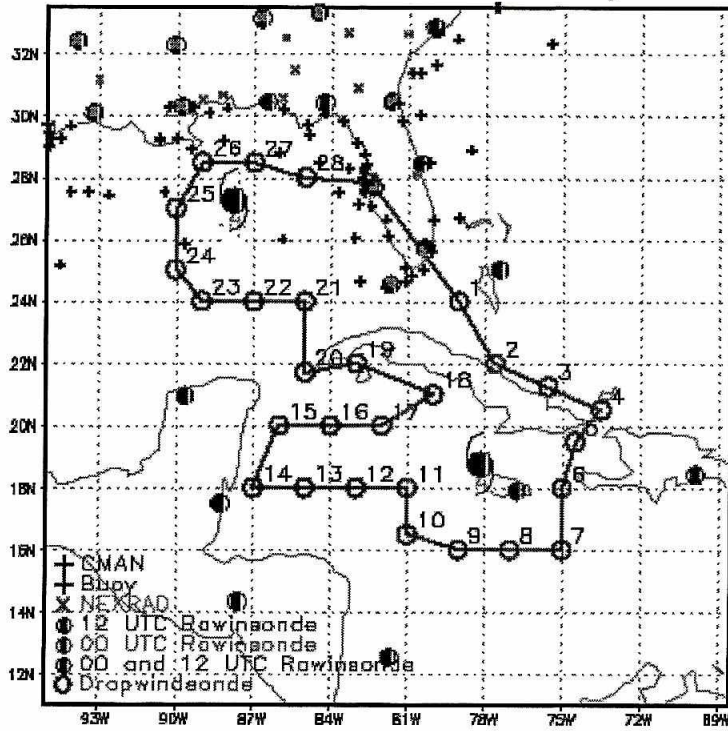
*ETA*

*Charley  
Bonnie*

*TEAL 07 966  
TEAL 29 09Z 28.0 87.8  
045/10*

*Av  
Center 228-863-2570  
1333Z  
462*

### 040811N Bonnie and Charley



GWDS: COLY16ES

2004-08-10-18:15