

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

Flt ID: 040914n-b	From: kmcf	To: kmcf
Flt. No: 04-112	Blk In: 0142 z	Time On: 0135 z
ETD: 1730 z	Blk Out: 1717 z	Time Off: 1727 z
ETE: +	Blk Time: 8+25 (8.4) Hrs	Fit Time: 8+08 (8.1) Hrs
Sponsoring Org: NHC	Program: Hurricane Surveillance	Purpose: IVAN

**AOC Flight Crew**

Aircraft Commander: Finke, m	Data System: Rolis, J
Co-Pilot: Hagen, J, Poston, R	AVAPS: Goldstein, A
Navigator: /	System Eng:
Flight Eng: /	A A:
Flight Director: Mayeaud, m	A A:
Avionics: Carpenter, O	Crew Chief:

**Participating Scientists / Visitors**

Name (Last, First)	Activity on Aircraft	Affiliation
Kuyler, K	035	NWS
Bennett, S	035	NWS
Evans, Jenni	035	<del>NWS</del> Penn State
Landsaer, C	035	NRO

<b>Remarks (Storm Name, Mission ID, Recco Times, Fix Times)</b>	<b>Recco Times</b>	<b>Fix # Fix Time</b>
Storm Name: Ivan	System freezeup around 21z	19Z 16°41' 63°39'
Mission ID: 3509A Ivan		17Z 23°38' 86°28'
<b>Penetration number and time</b>		
N0009 3509A IVAN		
N00042 -		
N00043 - Leave 19Z for 2100z fix		
T00099 - 11000ft + J model.		
T00154 - leaving 1730z		

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

Flight ID: **040914A**      Time Off: **1727**      Z      Time On: **0135**      Z

	A/C - Takeoff	Wx Station - Takeoff	A/C - Land	Wx Station - Land
Pressure	<b>10131</b> mb	<b>2993 (10135)</b> mb	<b>1011.7</b> mb	<b>2990</b> <b>1012.5</b> mb

ATIS	Time	Observation
------	------	-------------

Takeoff	1700Z	A 2993
---------	-------	--------

Land	0055Z	09016KT 75m FEW030 SGT700 DVLOW 27/24 H7990
------	-------	---

Number	Data Disposition / Date / Quality
--------	-----------------------------------

Flight Level Tapes	
--------------------	--

Radar Tapes	
-------------	--

Cloud Physics Tapes / CDs	
---------------------------	--

Video Tapes	
-------------	--

--	--

Drosondes	31	Good: 27    Bad: 5
-----------	----	--------------------

--	--

AXBT	
------	--

AXCP	
------	--

AXCTD	
-------	--

**Remarks:**

TKZ spiked during Takeoff 1727-1732Z  
 CWD0-813-833-3254  
 Data System failure 2105-2107Z

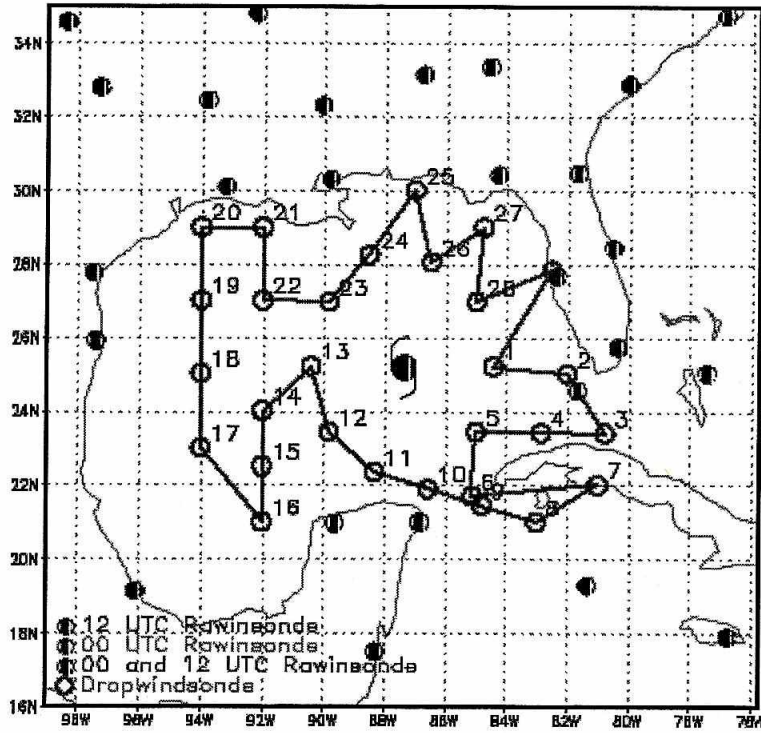
### N49RF AVAPS DropSonde Log

N49RF Project: Hurricane '04 Flight ID 040914NB

Mission: Ivan Flight #: 25 Launcher S/N: 02 Status: Sys 1 OK Sys 2 OK

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD <input type="checkbox"/>
1	034 955 117	1	180117	0	30	JR	1805	<input checked="" type="checkbox"/>
2	034 615 179	2	181842	0	750	JR	1819 really late winds	<input type="checkbox"/>
3	034 745 029	3	182030	0	800	JR	really late winds	<input type="checkbox"/>
4	034 745 031	1	183400	0	20	JR	183430	<input checked="" type="checkbox"/>
5	040 925 157	2	184927	0	86	JR	1849	<input checked="" type="checkbox"/>
6	034 718 041	1	190510	0	25	JR	1905	<input checked="" type="checkbox"/>
7	034 718 058	1	193054	0	44	JR	1930	<input checked="" type="checkbox"/>
8	034 325 017	2	194920	0	22	JR	1949	<input checked="" type="checkbox"/>
9	034 718 063	1	200554	0	18	JR	2005	<input checked="" type="checkbox"/>
10	034 718 051	2	201954	0	10	JR	2020 really 034718057	<input checked="" type="checkbox"/>
11	034 718 064	1	203415	0	36	JR	2033 Resent to HRD	<input checked="" type="checkbox"/>
12	034 745 026	2	204910	0	39	JR	2049	<input checked="" type="checkbox"/>
13	034 745 012	3	210416	0	25	JR	2104 MMS Data sys off at 2046	<input checked="" type="checkbox"/>
14	034 615 180	1	211909	.4	23	JR	2119 MMS up at 2107	<input checked="" type="checkbox"/>
15	034 615 194	2	213330	?	33	JR	2133	<input checked="" type="checkbox"/>
16	034 925 108	1	214609	.8	24	JR	2146 Drop point 15	<input type="checkbox"/>
17	034 925 119	2	215744	0	33	JR	2158 16	<input type="checkbox"/>
18	034 925 117	1	221914	0	40	JR	2218 17	<input checked="" type="checkbox"/>
19	034 718 026	2	223534	0	18	JR	2235 18	<input checked="" type="checkbox"/>
20	034 615 182	1	225152	0	—	JR	2251 NO WINDS Fast Fall	<input type="checkbox"/>
21	034 615 181	3	225335	0	29	JR	backup Drop 19	<input checked="" type="checkbox"/>
22	034 615 173	1	230748	0	190	JR	Late winds Prop 20	<input type="checkbox"/>
23	040 925 163	2	230921	0	43	JR	backup Drop 20	<input checked="" type="checkbox"/>
24	034 745 030	3	232117	0	51	JR	21	<input checked="" type="checkbox"/>
25	034 615 175	1	233738	0	67	JR	2337 22	<input checked="" type="checkbox"/>
26	034 745 023	2	235330	0	64	JR	2353 23	<input checked="" type="checkbox"/>
27	034 925 109	1	000710	.4	34	JR	000730 24	<input checked="" type="checkbox"/>
28	034 918 046	2	0023	0	34	JR/MSA	002430 25	<input checked="" type="checkbox"/>
29	040 925 162	1	003856	0	28	JR	0039 26	<input checked="" type="checkbox"/>
30	034 615 215	2	005128	0	51	JR	0052 27	<input checked="" type="checkbox"/>
31	<del>034 615 036</del>						High Offset	
32	034 718 032	1	010542	0	51	JR	28	<input checked="" type="checkbox"/>
33								

- P.I.S  
 - W  
 - IF  
 error



DATE: COLA/BES

2004-08-13-11:48

12

=====  
 HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: IVAN

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 14/1730Z  
=====

## DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
<del>1</del>	25 12	84 24		0:36
<del>2</del>	25 00	82 00		0:53
<del>3</del>	23 24	80 45		1:09
<del>4</del>	23 25	82 52		1:25
<del>5</del>	23 26	84 58		1:41
<del>6</del>	21 42	85 06		1:55 <i>83°30'</i>
<del>7</del>	22 00	81 00		2:26
<del>8</del>	21 00	83 00		2:44
<del>9</del>	21 27	84 47		2:58
<del>10</del>	21 54	86 33		3:12 <i>23.9 i</i>
<del>11</del>	22 21	88 20		3:26
<del>12</del>	23 26	89 50		3:40
<del>13</del>	25 12	90 24		3:55
<del>14</del>	24 00	92 00		4:10
<del>15</del>	22 30	92 00		4:23
<del>16</del>	21 00	92 00		4:35
<del>17</del>	23 00	94 00		4:57
<del>18</del>	25 00	94 00		5:13
<del>19</del>	27 00	94 00		5:30
<del>20</del>	29 00	94 00		5:46
<del>21</del>	29 00	92 00		6:00
<del>22</del>	27 00	92 00		6:17
<del>23</del>	26 58	89 50		6:32
<del>24</del>	28 15	88 30		6:47
<del>25</del>	30 00	87 00		7:04
<del>26</del>	28 03	86 28		7:21
27	29 00	84 45		7:35
28	26 58	84 58		7:52

---



---

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: IVAN

Prepared by the Hurricane Research Division File: current1.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 14/1730Z

---



---

## TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MACDILL			0.	0.	0:00
1	25 12	84 24		189.	189.	0:36
2	25 00	82 00		131.	320.	0:53
3	23 24	80 45		118.	438.	1:09
4	23 26	84 58		233.	671.	1:41
5	22 00	85 06		87.	758.	1:53
6	21 42	85 06		18.	776.	1:55
7	22 00	81 00		229.	1005.	2:26
8	21 00	83 00		127.	1132.	2:44
9	22 21	88 20		308.	1440.	3:26
10	23 26	89 50		106.	1546.	3:40
11	25 12	90 24		111.	1657.	3:55
12	24 00	92 00		113.	1770.	4:10
13	21 00	92 00		180.	1950.	4:35
14	23 00	94 00		164.	2114.	4:57
15	25 00	94 00		120.	2235.	5:13
16	29 00	94 00		240.	2475.	5:46
17	29 00	92 00		105.	2580.	6:00
18	27 00	92 00		120.	2700.	6:17
19	26 58	89 50		116.	2817.	6:32
20	28 15	88 30		105.	2922.	6:47
21	30 00	87 00		131.	3053.	7:04
22	28 03	86 28		120.	3173.	7:21
23	29 00	84 45		107.	3281.	7:35
24	26 58	84 58		123.	3404.	7:52
25	MACDILL			141.	3545.	8:21