

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO. 1 OAOWF1 FILE

FLT ID: 990913N	FM: KMIA	TO: Savannah, GA
FLT NO: 99-52	BLK IN: 0211	ATA: 0205
ETD: 1730Z	DLK OUT: 1720	RTD: 1726
ETE: 8.5+	BLK TIME: 8:51 (8.8)	FLT TIME: 8:39 (8.6)
SPONSOR ORG: OAC	PROGRAM: Surveillance	PURPOSE: H. Floyal

OAO PERSONNEL

AC Maxson ✓	SYS ENG Goldstein ✓
CP McCann, Yates ✓	DATA SYS Hornbrook ✓
NAV White ✓	RADAR Smith ✓
FE Kitson	BT/ODW
RADIO	CLD PHYS
FD Parrish ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Goldenberg, S. ✓	HAPS	
Kaplan, J. ✓	V	
Fernald, D. ✓	WTUS	
Massa, J. ✓	SAX	
	"	

47
 PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #) KSAU
 NOAA9 1708A FLOYD
 31/24 .16362 29 SONDES, 25 good, 2 fast falls.
 1008.6 050/10 ATIS
 64/11 31/24 080/4 30.02
 29.83
 TIO, ATIS 65/6
 24/-7
 1014.9
 31 08 81 12

990913D 14 FLOOD SURVEILLANCE

Time	Lat	Lon	TL	WD	WS	GA	RA	TA	TD	PS			
1720	25 48	80 17.5					28	36.5	28.8	1009	Block		
173245	25 32	80 02	79	22	13	2229	2186	15	21	776			
175450	25 34	77 30	31	344	11.5	9783	9349	-30	-44	291	Drop 1		
180844	27 15	77 00	14	161	11.5	12430	11888	-51	-51	195	Drop 2		
182245	28 55	76 20	2	150	23	13135	12577	-57	-58	175	Drop 3		
184259	28 00	74 00		122	25						Drop 4		
190612	27 12	71 12	2	146	11	13160	12570	-58	-53	176	Drop 5	NO WINDS	
191139	27 46	71 36	320	188	21	13166	12563	-58	-54	175	Drop 5A		
192410	29 10	72 32	325	199	24	13153	12566	-58.9	-55.9	175.5	Drop 6		
194114	31 00	73 55	2	223	20.6	13138	12563	-58.3	-56	175.5	Drop 7		
195712	32 25	72 00	2	240	16	13147	12558	-58	-59	175.8	Drop 8		
200220	30 00	70 10	147	193	11	13170	12550	-58.9	-57.6	176	Drop 9	NO WINDS	
202305	29 49	70 00	147	188	11.7	13177	12551	-58.9	-57.1	176	Drop 9A		
204552	27 30	68 20	145	232	11	13743	13131	-63.5	-59	159.7	Drop 10		
210111	25 00	66 30	168	290	8.7	13749	13130	-63.8	-61.1	159.7	Drop 11		
212357	23 15	66 29	180	333	7.6	13745	13128	-63	-61	159.8	Drop 12		
213710	21 33	66 26	2	27	20	13735	13133	-63.9	-61	159.7	Drop 13		
215618	21 34	64 02	2	2	23	13719	13129	-65	-62	159.9	Drop 14		
221604	23 45	64 00	1	327	21	13741	13130	-65	-61.5	159.8	Drop 15		
223610	26 00	64 01	2	307	28	13743	13137	-63.7	-61.7	159.7	Drop 16		
225810	28 00	65 30	326	295	22	13759	13135	-63.5	-63	159.7	Drop 17		
231949	30 00	67 00	327	304	24.7	14334	13710	-68	-66	144.7	Drop 18		
234333	32 00	68 30	329	279	35	14334	13715	-68.7	-65.9	144	Drop 19	NO WINDS	
234248	32 07	68 35	275	33.9	33.9	14328	13714	-68.5	-65.8	144	Drop 19A		
000415	34 00	70 00	328	258	28	14328	13714	-66	-66	145	Drop 20		
00225	35 56	71 33	2	208	15	14307	13717	-65.4	-67.7	145	Drop 21		
003856	34 45	73 15	230	218	25	14310	13710	-67	-69	145	Drop 22		
005733	33 30	75 00	230	218	39	14300	13709	-67.8	-68.6	145	Drop 23		
011634	32 15	76 45	2296	209	39	14300	13709	-68	-66	144.8	Drop 24		
013442	31 03	78 30	2	203	36.8	14320	13709	-67	-66	144.8	Drop 25	FIRST FAL	
013612	31 04	78 40	297	208	36.5	14316	13709	-67	-66	144.8	Drop 25A		
0211	32 06.9	81 11.8					-15	25	-1	1015	Block IN		

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hurricane 00 Project No. H400 Flight No. 5 Flight ID: 000913N
 SED Crew: SMITH, HILL, PRADAS, DAMIANO Mission: BLOB
 Pre-Flight: 1635 Z Take-Off: 1735 Z Landing: 0208 Z

SYSTEM				Pre-Flight Check	In-Flight	Post-Flight Check	
N A V	IRS #1			✓ JAS			
	IRS #2			✓ JAS			
	IRS #3			✓ JAS			
	GPS Honeywell #1			✓ JAS			
	GPS Honeywell #2			✓ JAS			
	GPS Collins			✓ JAS ①		Off? ☒	
Nose Radar - Collins						Off? ☒	
T E M P		Time	Temp °C			Time	Temp °C
	Temp #1	1647	41.6	✓ JAS			
	Temp #2		35.7	✓ JAS			
	Temp #3		36.5	✓ JAS			
	Temp #4		36.6	✓ JAS			
	DP Left		21.4	✓ JAS	Cal. Time:		
P	DP Right		22.4	✓ JAS	Cal. Time:		
P R E S S	Attack Angle (ADCAOA)			✓ JAS			
	Slip Angle (BPx/DxPx)			✓ JAS			
	Differential (PQ1/PQ2)			✓ JAS			
	Absolute (PS1/PS2)			✓ JAS			
	Check Radome Press. Lines ☐			Date: 9/12/00			
S Y S T E M	DOWN PRT-5 ⇒ Open? ☐			Not installed		Closed? ☒	
	MADS (WINDS/DISCWIN)			✓ JAS		# DATs: 1	
	MADS Printer ⇒ Paper? ☒			JAS		Printer Power off? ☐	
	MADS Cal. Date: —			QC time: 1650 JAS		QC time: 021040 JCPB	
	WINDS ⇒ NET BCAST ☐			Not		# Msg.: # Fail:	
M S	HAPS System / Time set? ☒			JAS			
	AVAPS System			JAS			
	K2 Printer ⇒ Paper? ☒			JAS		Printer Power off? ☐	
	Exterior Walk Around ☒			JCPB			
	Inspect DropSonde Chute Bolts			✓ JAS			
M I S C	Satcom (Flight Phone) ☒			JCPB		Off CB? ☐	
	Call COMSAT? ☒ (*292#)			JCPB			
	FCU/UPS/CB			CB's Checked? ☒		UPS off? ☐	
	AVAPS Sondes ②			# On Board: 44	# Dropped: 22	# Good: 20	
	AXBT			# On Board: —	# Dropped: —	# Good: —	
	APN-232 Altimeter			✓ JAS			
	Modem Power On? ☒			✓ JCPB			

1	DAT Tape #1	On: 1645	Type: V60	Off: 0217
Comments: Balanced DPH/DDR @ 1815 ① GPS FAILURE 2214 - STD OFF FREQ CP6137954002 RCVR A3A3 FAILURE SW DOJIO4NOY - Replace RCVR W/5N 113 - system checks o.k.				

01/12/00 JCPB

Please Note Any Discrepancies

[illegible]

N49RF AVAPS DropSonde Log

N49RF Project: Hornbrook, Smith, Goldstein Flight ID 990913N

Mission: Floyd Flight #: 14 System Status: O.K.

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status/ Failure Reason	GOOD ☒ / B
1	991 515 151	1/5	1755	.5	40	ph		✓
2	990 845 150	2/6	1808	0	40	ph		✓
3	990 845 154	1/5	1822	.4	16	ph		✓
4	990 838 036	1/5	1843	0	21	ph	slow fall pendulum type prop	✓
5	990 845 190	1/5	1906	0	24	ph	int. winds	B
6	990 415 074	2	1911	.7	39	ph		✓
7	990 415 070	3	1924	.6	23	ph		✓
8	990 148 004	1/5	1941	.6	16	ph		✓
9	990 415 044	2/6	1957	.7	33			✓
10	990 415 075	1/5	2021	.8	197		LATE winds	B
11	983 620 540	2	2023	1.1	17			✓
12	985 145 015	1	2045	.4	18	ASG		✓
13	985 145 011	1	2110	.4	23	ASG		✓
14	984325 030	2	2123	.4	43	ASG		✓
15	984325 458	1	2137	.6	34	ASG		✓
16	983620 720	1	2156	.6	34	ASG		✓
17	985145 014	1	2216	.4	48	ASG		✓
18	985145 004	1	2236	.6	24	ASG		✓
19	990 415 120	1	2258	.7	36	ASG	DATA DROP OUT 350-550	B
20	985145 013	1	2319	.4	16	JAS		✓
21	984325 523	1	2341	.4	—	JAS	FAST FALL *NO WINDS	B
22	990 845 006	2	2342	.6	25	JAS		✓
23	990 415 071	1	0003	1	75	JAS	LATE *WINDS poor telem	✓
24	984325 269	1	0022	.5	52	JAS		✓
25	990 415 062	2	0038	.6	33	JAS		✓
26	984715 093	1	0057	0	28	JAS		✓
27	984325 155	1	0116	.4	25	JAS		✓
28	983 410 119	1	0134	.4	—	JAS	FAST FALL - NO WINDS	B
29	990 415 056	2	0136		30	JAS		
30								
31								
32								
33								

PI DATA FOR ALL CHAN 1 DROPS

* SUSPECT CHUTE DEPARTED SONDE

** BOGUS DATA IN ELAPSED TIME FIELD

FROM :

FAX NO. : 3053614402

Sep. 12 1999 12:05PM P7

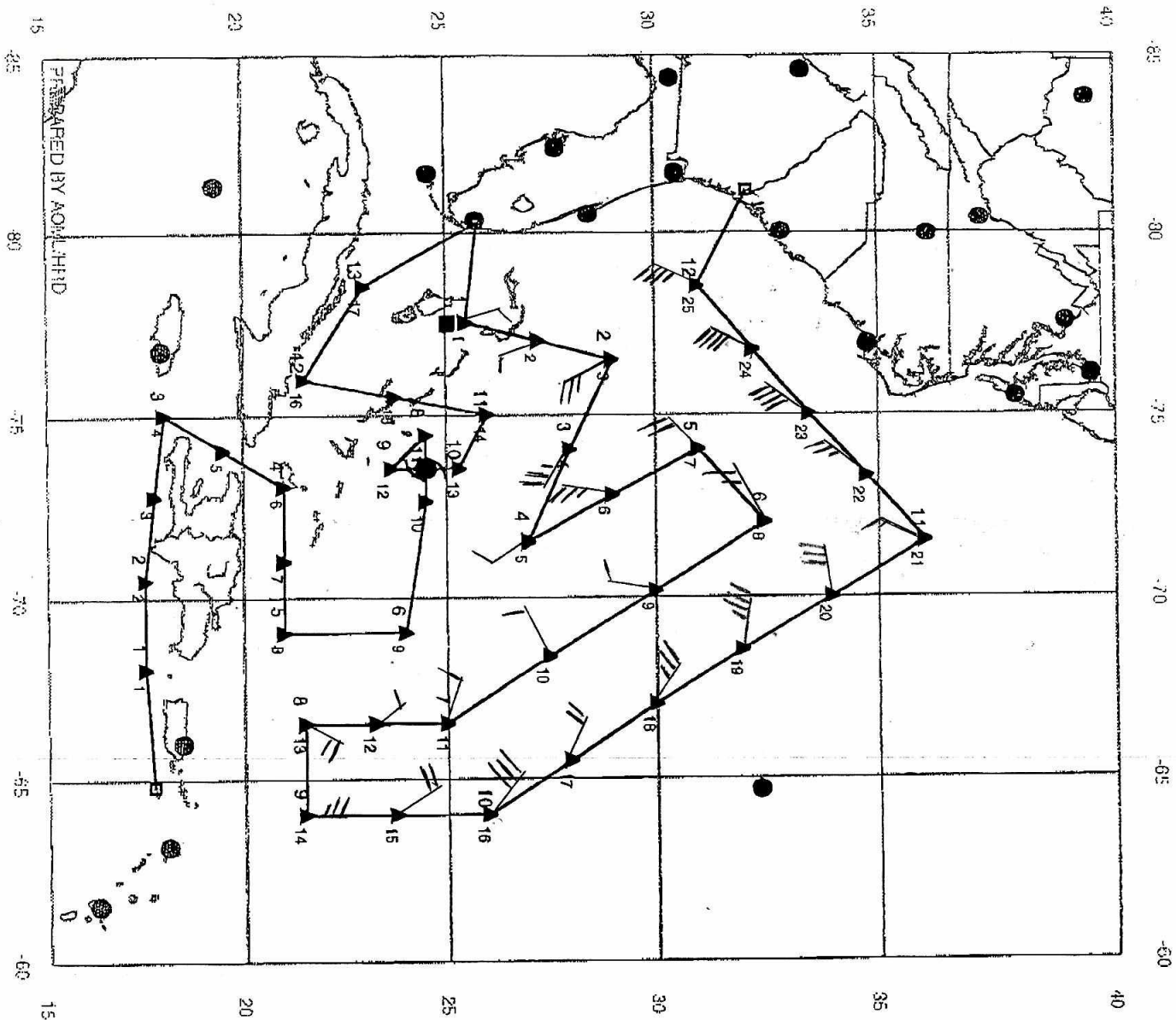
FLIGHT TRACKS FLOYD/SYNOPTIC

990913nalt.fhk
990913np.fhk

RAWINSONDES 9908

- Regular
- 12Z only
- 00Z only
- Infrequent
- Infrequent - 00Z
- Infrequent - 12Z

▲ DROP LOCATIONS



=====

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: FLOYD/SYNOPTIC

=====

Prepared by the Hurricane Research Division at 11:50:54 AM on 09/12/99.
File: 990913nalt.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 13/1730Z

=====

DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	25 30	77 30		0:31
2	27 15	77 00		0:45
3	29 00	76 30		1:00
4	28 00	74 00		1:20
5	27 00	71 30		1:40
6	29 00	72 45		1:58
7	31 00	74 00		2:17
8	32 30	72 00		2:35
9	30 00	70 10		2:59
10	27 30	68 20		3:24
11	25 00	66 30		3:48
12	23 15	66 30		4:02
13	21 30	66 30		4:17
14	21 30	64 00		4:36
15	23 45	64 00		4:54
16	26 00	64 00		5:12
17	28 00	65 30		5:32
18	30 00	67 00		5:52
19	32 00	68 30		6:11
20	34 00	70 00		6:30
21	36 00	71 30		6:49
22	34 45	73 15		7:05
23	33 30	75 00		7:20
24	32 15	76 45		7:36
25	31 00	78 30		7:52

TEAM 23 1730-002

24 05
72 55
1735Z
926 mb
111 KTS SE

110035

152 24.1 72.1

002 24.5 74.0

14/122 25.5 76.5

15/002 27.3 78.8

15/12 29.6 80.3

29 09.8
72 31.5

14202

24 09

73 12

923

113 KTS

130 KTS NE

JAM ADVISORY

13/21 24.2 73.7

14/06 24.6 75.9

14/18 26.2 78.3

15/06 28.4 79.9

15/18 30.9 80.5

16/18 37 79

2 15s

16

17 NO

2309

24 24N

73 53W

924

130 NE

2059

24 17

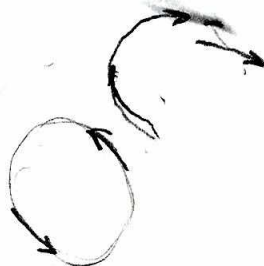
73 26

118 KTS

922

130

C25



=====

HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: FLOYD/SYNOPTIC

Prepared by the Hurricane Research Division at 11:50:54 AM on 09/12/99.
File: 990913nalt.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 13/1730Z

=====

TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	MIAMI			0.	0.	0:00
1	25 30	77 30		152.	152.	0:31
2	29 00	76 30		217.	369.	1:00
3	28 00	74 00		145.	514.	1:20
4	27 00	71 30		146.	661.	1:40
5	31 00	74 00		274.	935.	2:17
6	32 30	72 00		136.	1071.	2:35
7	25 00	66 30		536.	1607.	3:48
8	21 30	66 30		210.	1817.	4:17
9	21 30	64 00		140.	1957.	4:36
10	26 00	64 00		270.	2227.	5:12
11	36 00	71 30		714.	2941.	6:49
12	31 00	78 30		462.	3403.	7:52
13	SAVANNAH			154.	3557.	8:23

Deanne Phane WTLV JAP
Joseph Massa

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Harc 99 Project No. 430 Flight No. 14 Flight ID: 990913N
 SED Crew: Hornbrook, Goldstein, Smith Mission: Floyd
 Pre-Flight: 1622 Z Take-Off: 1725 Z Landing: 0204:45 Z

SYSTEM			Pre-Flight Check	In-Flight	Post-Flight Check		
NAV	IRS #1		<u>ch</u>				
	IRS #2		<u>ch</u>				
	IRS #3		<u>ch</u>				
	GPS Honeywell #1		<u>ch</u>				
	GPS Honeywell #2		<u>ch</u>				
	GPS Collins		<u>ch</u>		Off? ☒		
	Nose Radar -Collins				Off? ☒		
TEMP	Time	Temp °C			Time	Temp °C	
	Temp #1	<u>1630</u>	<u>39.3</u>	<u>ch</u>	<u>-41.4</u>	<u>0207</u>	<u>25.8</u>
	Temp #2		<u>35.6</u>	<u>ch</u>	<u>-39.4</u>		<u>25.4</u>
	Temp #3		<u>37.3</u>	<u>ch</u>	<u>-39.8</u>		<u>25.3</u>
	Temp #4		<u>37.8</u>	<u>ch</u>	<u>-40.3</u>		<u>25.9</u>
	DP Left		<u>23.9</u>	<u>ch</u>	Cal. Time:	<u>(1)</u>	<u>-1.092</u>
	DP Right	<u>↓</u>	<u>24.4</u>	<u>ch</u>	Cal. Time:		<u>16.7</u>
PRES	Attack Angle (ADCAOA)		<u>ch</u>	<u>4.2</u>			
	Slip Angle (BPx/DxPx)		<u>ch</u>				
	Differential (PQ1/PQ2)		<u>ch</u>				
	Absolute (PS1/PS2)		<u>ch</u>	<u>159.97/161.2</u>			
	Check Radome Press. Lines ☒	Date:	<u>9/8/99</u>				
SYSTEMS	DOWN PRT-5 ⇒ Open? ☐	Not USED			Closed? ☒	<u>NU</u>	
	MADS (WINDS/DISCWIN)		<u>ch</u>		# DATs: <u>1</u>		
	MADS Printer ⇒ Paper? ☒		<u>ch</u>		Printer Power off? ☒		
	MADS Cal. Date: <u>8/26/99</u>	QC time: <u>1635</u>			QC time: <u>0207</u>		
	WINDS ⇒ NET BCAST ☒		<u>ch</u>				
	HAPS System / Time set? ☒		<u>ch</u>		# Msg.: <u> </u>	# Fail: <u> </u>	
	AVAPS System		<u>ch</u>				
SYSTEMS	K2 Printer ⇒ Paper? ☒		<u>ch</u>		Printer Power off? ☒		
	Exterior Walk Around ☒		<u>JS</u>				
	Inspect DropSonde Chute Bolts		<u>JS</u>				
MISC	Satcom (Flight Phone) ☒				Off CB? ☐		
	Call COMSAT? ☒ (*292#)		<u>ch</u>				
	FCU/UPS/CB	CB's Checked? ☒	<u>ch</u>		UPS off? ☐		
	AVAPS Sondes	# On Board: <u>127</u>		# Dropped: <u>29</u>	# Good: <u>25</u>		
	AXBT	# On Board: <u>nu</u>		# Dropped: <u> </u>	# Good: <u> </u>		
	APN-232 Altimeter						
	Modem Power On? ☒		<u>ch</u>				

1	DAT Tape #1	On: <u>1716</u>	Type: <u>4mm 1260m</u>	Off: <u>0224</u>
2	DAT Tape #2	On: <u> </u>	Type: <u> </u>	Off: <u> </u>
Comments:				

Please Note Any Discrepancies

[illegible]