

U.S. DEPT. COMM./NOAA/DAO - DATA SECTION WORK FORM NO.1 DAOWF1 FILE

FLT ID: 990915N	FM: TISX	TO: TBPB
FLT NO: 99-54	BLK IN: 0152	ATA: 0146
ETD: 1730	DLK OUT: 1722	RTD: 1729
ETE: 8.5	BLK TIME: 8:30 (8.5)	FLT TIME: 8:17 (8.3)
SPONSOR ORG: DHC	PROGRAM: Surveillance	PURPOSE: H. Gert

DAO 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/DAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
Goldenberg, S. ✓	HAAPS	HRD
Kaplan, J. ✓	↓	↓
Murray, M. ✓		German TV network
Schiffner, C. ✓		German TV network

47 PROPOSED/ACTUAL MISSION/REMARKS (RECCO, FIXES, STORM, PENET, NHOP #)

0109A	GEAT	Dropped 27, 26 good. 26 messages. Flew SW, SE of Gert.
1647	LAND	
32/24	35/6.5	
29.92	29/23	
110/12	1005.7	

25438
62

A full-page view of a blank sheet of white graph paper. The grid consists of thin black horizontal and vertical lines forming small squares. There are approximately 20 columns and 25 rows visible. A faint diagonal line is drawn across the bottom-left corner, starting from the left edge and extending towards the center.

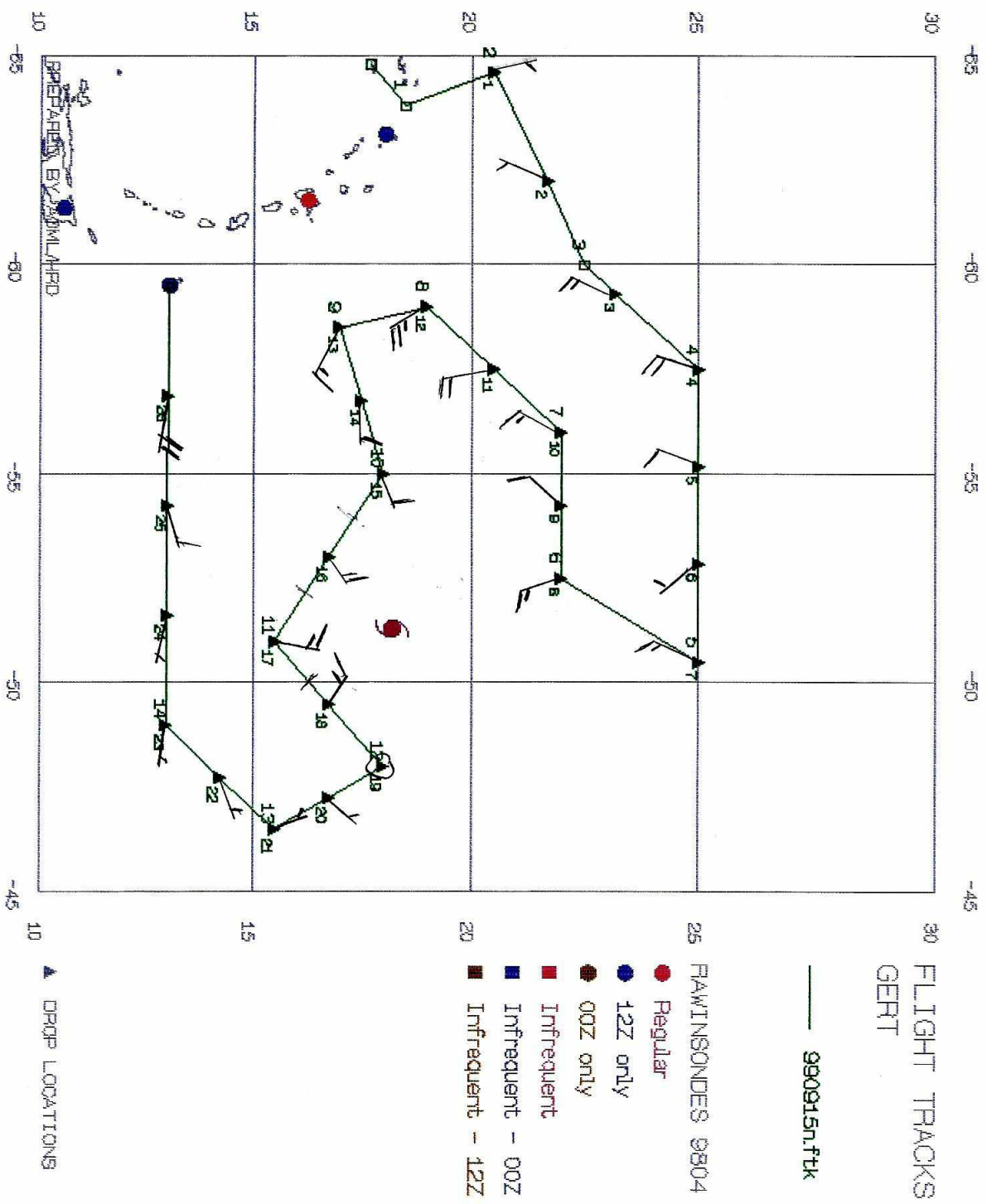
N49RF AVAPS DropSonde Log

N49RF Project: Hornbrook, Smith, Goldstein Flight ID 990915N

Mission: Gert. Flight #: 16 System Status: OK.

Drop #	Sonde Serial Number	Chn. #	Time (Zulu)	Press. offset	Winds time	Operator Initials	Comments / Drop Status / Failure Reason	GOOD ☒ / B
1	990 415 314	1/5	1759	.4	28	ph		✓
2	990 845 189	1/5	1819	0	30	ph		✓
3	990 415 218	1/5	1841	.6	27	ph		✓
4	992 455 332	1/5	1900	0	22	ph		✓
5	990 415 220	2/5	1917	.7	76	ph		✓
6	990 415 217	1/5	1934	.8	23	ph		✓
7	990 415 287	2/6	1950	0	28	ph		✓
8	992 455 314	1/5	2019	0	39	ph		✓
9	983 840 539	2/6	2032	1.0	23	ph		✓
10	983 720 859	1/5	2045	.9	36	JAS		✓
11	983 840 534	2/6	2104	.9	49	JAS		✓
12	983 620 562	1/5	2121	.4	13	JAS		✓
13	990 415 067	1/5	2139	.4	18	JAS		✓
14	990 415 305	2/6	2153	.4	30	JAS		✓
15	990 415 288	1/5	2208	.5	13	JAS		✓
16	984 325 371	1/5	2228	.4	27	JAS		✓
17	983 840 541	1/5	2246	1.1	29	JAS		✓
18	983 620 639	2/6	2303	.4	29	JAS		✓
19	990 415 313	1/5	2317	.6	27	ASG		✓
20	983 620 737	2/6	2328	.4	29	ASG		✓
21	983 440 022	1/5	2339	.6	37	ASG	D-FIL timefield bugs HAPS	✓
22	983 840 524	2/6	2354	.9	149	ASG	LATE WINDS	B
23	983 440 009	3	2355	.3	30	ASG		✓
24	990 415 289	1/5	0008	.8	32	ASG		✓
25	983 440 047	1/5	0029	.7	77	ASG	NO WINDS ≈ 400-520 mBar	✓
26	983 440 027	1/5	0049	.5	73	ASG		✓
27	983 620 723	1/5	0109	.4	42	ASG		✓
28								
29								
30								
31								
32								
33								

Revised



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HURRICANE SYNOPTIC SURVEILLANCE MISSION PLAN: GERT

Prepared by the Hurricane Research Division at 05:55:46 PM on 09/15/99.
File: 990915n.ftk

Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 15/1730Z

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TRACK DISTANCE TABLE

#	LAT (d m)	LON (d/m)	RAD/AZM (nm/dg)	LEG (nm)	TOTAL (nm)	TIME (h:mm)
0	ST CROIX			0.	0.	0:00
1	18 30	63 48		75.	75.	0:20
2	20 30	64 36		128.	203.	0:38
3	22 30	60 00		284.	487.	1:16
4	25 00	57 30		204.	691.	1:44
5	25 00	50 30		381.	1072.	2:36
6	22 00	52 30		211.	1283.	3:04
7	22 00	56 00		195.	1478.	3:31
8	19 00	59 00		247.	1726.	4:04
9	17 00	58 30		124.	1849.	4:21
10	18 00	55 00		209.	2059.	4:49
11	15 30	51 00		275.	2333.	5:27
12	18 00	48 00		229.	2562.	5:58
13	15 30	46 30		173.	2736.	6:21
14	13 00	49 00		209.	2945.	6:50
15	13 04	59 29		614.	3559.	8:23

21Z 17.6 50.7
16/06 17.8 52.4
16/18 18.5 54.5

06Z
100
130 kt

Sep 15 17:55 1999 /home/hrd/flight_tracks/track01.log Page 2

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Aircraft: N49RF Altitude: FL410-450 Proposed takeoff: 15/1730Z

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DROP LOCATIONS

#	LAT (d m)	LON (d m)	RAD/AZM (nm/dg)	TIME (h:mm)
1	20 30	64 36		0:38
2	21 42	62 00		1:00
3	23 12	59 18		1:24
4	25 00	57 30		1:44
5	25 00	55 10		2:01
6	25 00	52 50		2:18
7	25 00	50 30		2:36
8	22 00	52 30		3:04
9	22 00	54 15		3:17
10	22 00	56 00		3:31
11	20 30	57 30		3:47
12	19 00	59 00		4:04
13	17 00	58 30		4:21
14	17 30	56 45		4:35
15	18 00	55 00		4:49
16	16 45	53 00		5:08
17	15 30	51 00		5:27
18	16 45	49 30		5:42
19	18 00	48 00		5:58
20	16 45	47 15		6:10
21	15 30	46 30		6:21
22	14 15	47 45		6:36
23	13 00	49 00		6:50
24	13 01	51 37		7:11
25	13 02	54 15		7:31
26	13 03	56 52		7:52

43 Evening
DOAA43 42 Lake

FLOYD GERT
1730Z
30 28
79 07
947
83KT
ETA
0140Z

Barbados Unicom

130.7

Revisy
Int A/C Manager
mst

2041
0029

NOAA/AOC/SED N49RF Flight Performance log

N49RF Project: Hurr 99 Project No. 430 Flight No. 16 Flight ID: 990915N
 SED Crew: Goldstein, Hornbrook, Smith Mission: Gert
 Pre-Flight: 1630 Z Take-Off: 1729 Z Landing: 0145 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 ✓		Off? ☒	
Nose Radar - Collins					Off? ☒	
T E M P	Time	Temp °C			Time	Temp °C
	Temp #1	1641	37.2	✓ JAS	0149	29.4
	Temp #2		33.9	✓		29.3
	Temp #3		33.5	✓		28.6
	Temp #4		34.4	✓		29.9
	DP Left	✓	21.5	✓	Cal. Time:	23.5
		21.8	✓	Cal. Time:	24.2	
P R E S S	Attack Angle (ADCAOA)		6.5 ✓ JAS			
	Slip Angle (BPx/DxPx)		✓ JAS			
	Differential (PQ1/PQ2) 24.1/2		✓ JAS			
	Absolute (PS1/PS2)		1012.6/1011.9 ✓ JAS			
	Check Radome Press. Lines ☒		Date: 9/8/99			
S Y S T E M	DOWN PRT-5 ⇨ Open? ☐		Not USED		Closed? ☐ 1/4	
	MADS (WINDS/DISCWIN)		✓ JAS		# DATs: 1	
	MADS Printer ⇨ Paper? ☒		JAS		Printer Power off? ☒	
	MADS Cal. Date: 8/26/99		QC time: 1657		QC time: 0150	
	WINDS ⇨ NET BCAST ☒		JAS			
	HAPS System / Time set? ☐				# Msg: 32 # Fail: 6	
S	AVAPS System		✓ CH			
	K2 Printer ⇨ Paper? ☒		JAS ✓		Printer Power off? ☒	
	Exterior Walk Around ☒		CH ✓			
	Inspect DropSonde Chute Bolts		CH ✓			
M I S C	Satcom (Flight Phone) ☒		JAS ✓		Off CB? ☒ cph	
	Call COMSAT? ☒ (*292#)		JAS ✓			
	FCU/UPS/CB		CB's Checked? ☒		UPS off? ☒	
	AVAPS Sondes		# On Board: 70	# Dropped: 27	# Good: 26	
	AXBT		# On Board:	# Dropped:	# Good:	
	APN-232 Altimeter					
	Modem Power On? ☐					

1	DAT Tape #1	On: 1652	Type: Vwb DL 60M	Off: 0152
2	DAT Tape #2	On:	Type:	Off:
Comments:				