

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

FLT ID: 970904N	FM: KMCF	TO: KOPF
FLT NO: 97-071	BLK IN: 1544/0252	ATA: 1540/0246
ETD: 1100/1730	BLK OUT: 1448/1711	ATD: 1457/1724
ETE: +45/9+00	BLK TIME: 1.0/9.6	FLT TIME: 0.7/9.4
SPONSOR ORG: NWS	PROGRAM: NHC	PURPOSE: Surveillance

OAO PERSONNEL

AC PLAYER, G ✓	SYS ENG JCPB ✓
CP FINKEL, M / MAXSON, B ✓	DATA SYS HICC, J ✓
NAV	RADAR
FE	GPS GOLDSTEIN, A ✓
RADIO	CLD PHYS
FD WHITES ✓	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
FRANKLIN, J ✓	HRD / HAPS	HRD
ROPLAN, J ✓	↓	↓

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

"E" 060/4 7,500 CN 27/25 29.89

"K" 1450 280/7 10V M3 BHN 29.91 27R KOPF 1330/5-4

"L" 1550 250/5 10V SCT 3k 10k 29.92 27R 1 180/4 29.89

✓ 6k TISX 29.93

✓ 4k Vis TISX 29.94

U.S. DEPT. COMM./NOAA/OAD - DATA SECTION WORK FORM NO.2 OROWF2 F11

FLT ID: 970904N

TIME OFF: 1724

TIME ON: 0246

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE		1013.2		1013.9

NO DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	4	
FAST FLT LVL TAPES		
RADAR TAPES		
DOPPLER TAPES		
DDW CASSETTES		
HARD COPIES		
AXBT		
AXCP		
DDW GPS		30 dropped/30 xtruit

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

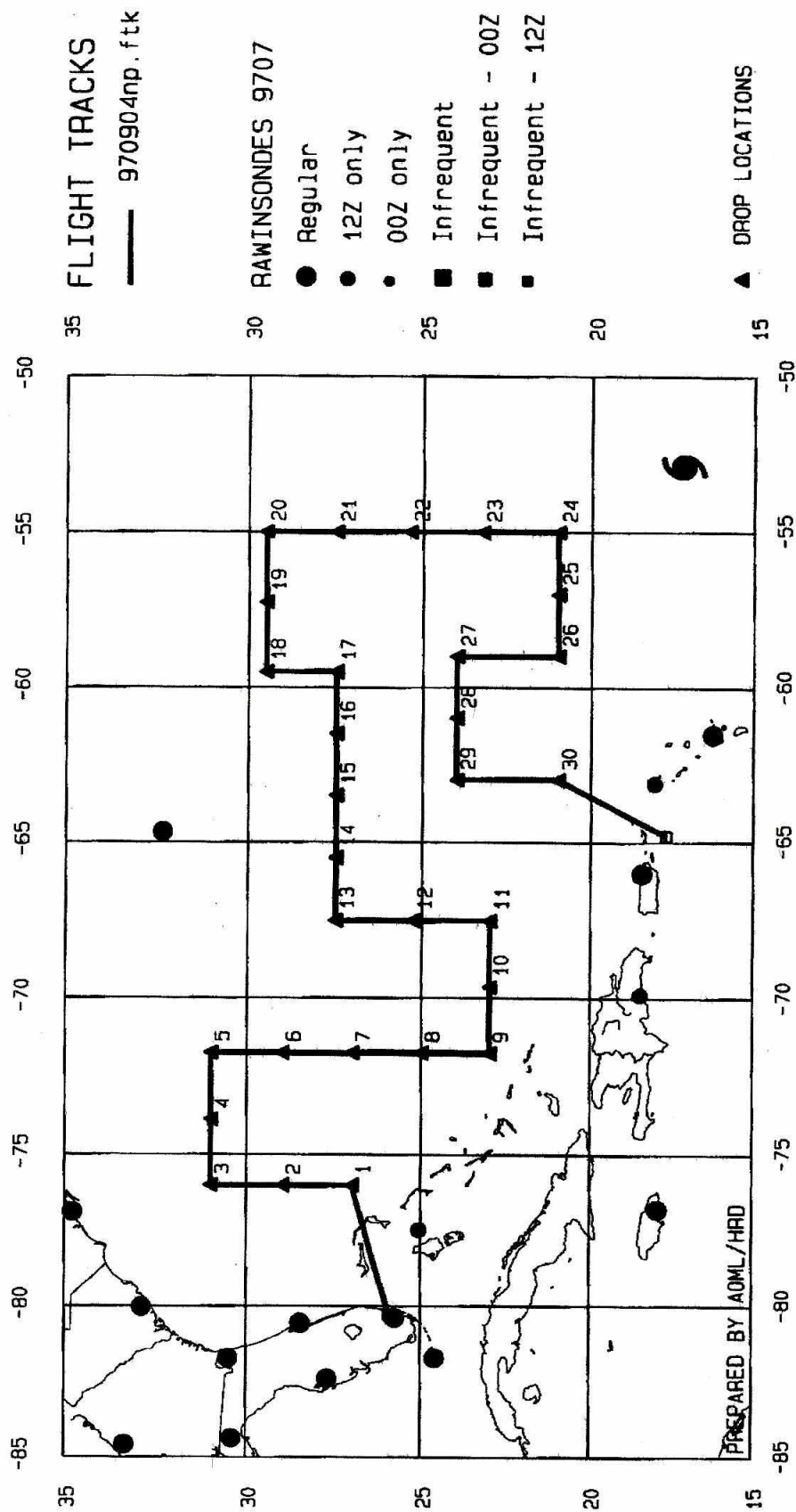
970904N

Time	LAT	CON	HOG	TAS	TR	GS	WD	WS	AT	DA	PA	PS	QC	PA
1441	2750.7	8227.5		ENG										
1448				TAXI										
1452				TOFF										
1503			Balance both	DP	L/R				27.2	27.2	22.9	1012.2	0.0	8.88
1517			Calibrate	WINDS						1508				
1540			CAND											
1544			STOP											
1711	2554.6	8016.4		ENG										
1716				TAXI										
1724				TOFF										
1746														
1752														
180300	2713.7	7559.9	356	227	359	229	256	9.5	-59.9	-53.4	41177	176.0	86.1	12570
Transmit	Drop #1													
181200	2701.2	7600	354	225	359.8	242.4	270	21.4	-59.9	-56.4	41172	176.07	88.2	12549
→ OK	Drop #2													
182400	3100	736.4	92.3	209	89.1	254.0	231	20.3	-55.6	-56.8	41157	176.2	82.5	12544
→ OK	Drop #3													
184510	3101.8	7352.1	94.6	215	90.0	248.6	220	31.4	-60.1	-57.2	41160	176.1	88.4	12545
→ OK	Drop #4													
190010	3045	7144	82.2	230.0	79.5	204.0	216.8	31.4	-59.8	-57.1	41204	175.7	88.5	12559
→ OK	Drop #5													
191610	2852	7145	181.0	229.4	180.0	229.4	268	20.5	-60	-57	41184	175.9	88.2	12553
	Drop #6													
193300	2656.4	7140	179.9	228.7	180	224	228.5	6.5	-59.8	-57.4	41189	175.9	87.5	12554
	Drop #7													
194930	2458.7	7145	179.4	228.7	179.9	222	142.3	2.9	-60.6	-57.9	41177	176.0	87.9	12550
	Drop #8													
200800	2500	7124	88.4	227.5	89.2	217.0	100	11.0	-60.2	-58.1	41177	176.0	87.3	12570
	Drop #9													
202200	2300	693.9	88.4	229.6	90.3	216.8	80.1	13.0	-60.2	-58.5	41165	176.1	88.8	12542
	Drop #10													
2028	JCRB	staggered												
204000	2314	6727.9	080	227.8	359.2	220.3	050	11.5	-60.2	-52.0	41160	176.1	86.9	12545
	Drop #11													
205800	2522	6230.0	360	226.1	360	218	045	10.0	-65.6	-59.3	43104	159.5	77.8	13138
	Drop #12													
211805	2720.6	6702	084.7	224.6	88.3	21.0	019	9.2	-64.8	-59.9	43126	159.4	78.1	13144
	Drop #13													
213000	2732.5	6532.4	85.0	227.5	89.5	220.7	025	14.5	-64.7	-60.0	43110	159.5	82.2	13140
	Drop #14													
214500	2733.4	6336.3	68.5	225.3	090.5	217	022	16	-65.1	-61.0	43059	157.6	77.9	13136
	Drop #15													
220000	2732.5	6131.1	85.8	226.5	91.1	217	029	17	-65.2	-61.2	43059	159.6	77.9	13136
	Drop #16													
221700	2746.4	5929.9	358	226.4	359.9	205.3	001	020	-65.4	-61.8	43290	158.0	79.1	13195
	Drop #17													
2235	2730.4	5704.2	84	225	85	221	015	12.4	-62.2	-63.1	43005	144.6	73.3	13712
	Drop #18													
2248:30	2731.1	5713.3	86	225	90	218	035	10.4	-62.5	-62.1	44973	145.1	72.6	13605
	Drop #19													
2308:00	2701.2	5459.9	128	224	180	222	037	5.3	-67.3	-62.1	45062	144.5	71.9	13716
	Drop #20													
2320:00	2734.1	5300	178	225	180	226	067	3.2	-68	-61	44947	145	72.8	13700
	Drop #21													

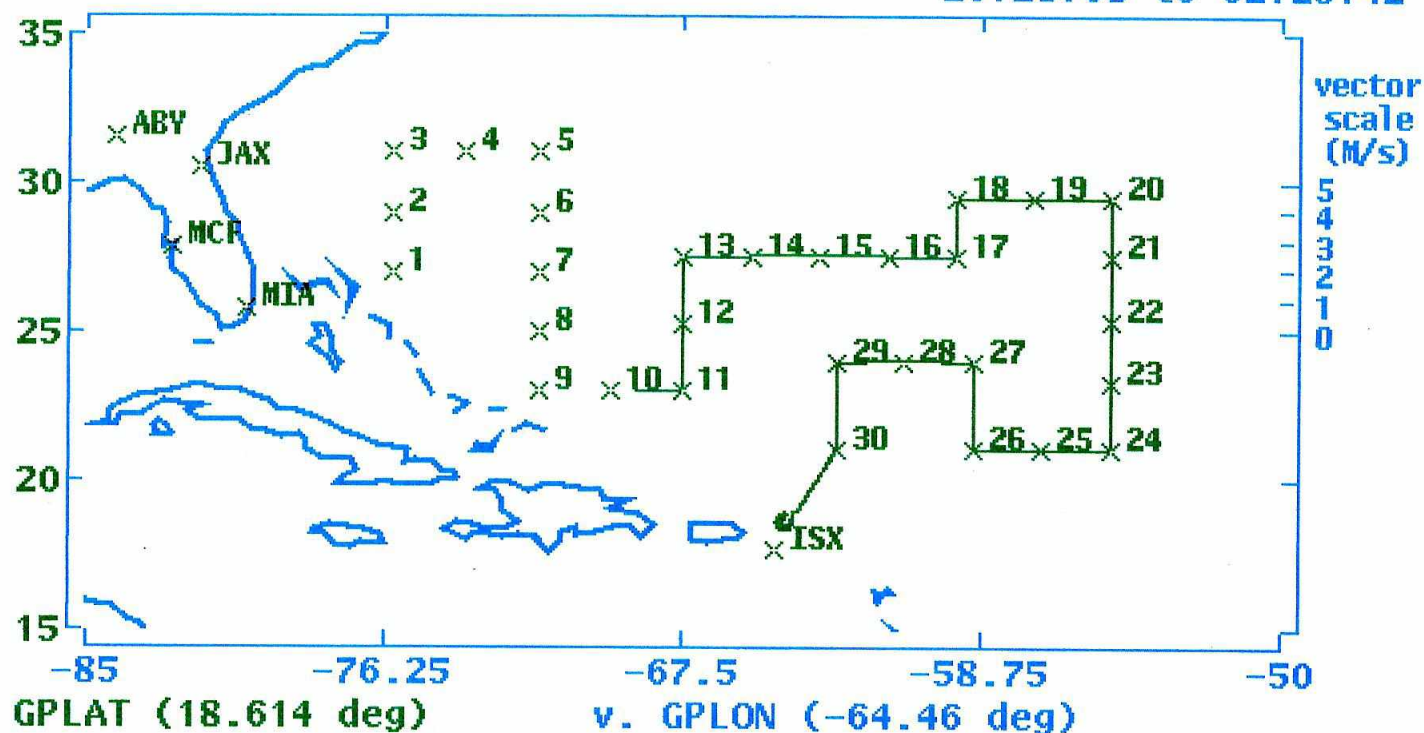
970904N

Sheet 2 of 2

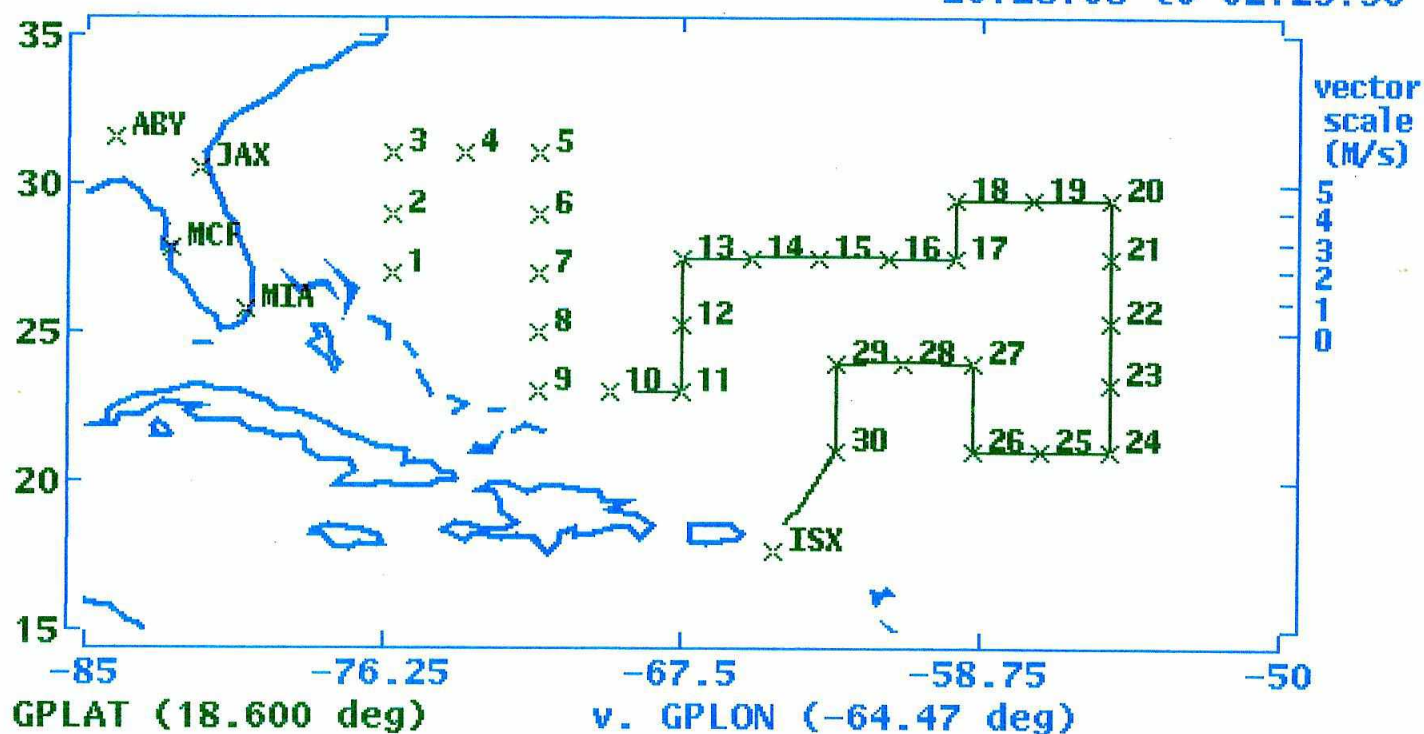
Time	LAT	CON	HDE	THS	TH	GJ	WD	WS	AT	DP	PA	PS	QC	PA
2338:30	2521.1	5500	179	226	179	219	208	8.0	-69.1	-62.3	44882	144.9	73.5	13684
	Drop #22			Good										
2339:30	641600			DPL										
2352:00	2310	5500	180	227	177	208	210	21.1	-67.9	-61.7	44885	145.2	74.2	13683
	Drop #23			Good										
0020:00	2100	5526	263	223	270	208	214	24.0	-69.2	-62.9	44893	145.4	72.1	13683
	Drop #24			Good										
0033	2100	5500	264	225	269	217	204	16	-68	-62.7	44892	145.3	73.2	13686
	Drop #25			Good										
0057:00	2121.8	5900	358	224	360	220	007	3.9	-67.6	-61.3	44890	145.4	72.7	13682
	Drop #26			Good										
0114:00	2100	5914	269	224	270	219	299	8.1	-68.7	-62.1	44882	145.5	73.1	13680
	Drop #27													
0128:00	2400	5100	269	225	269	224	353	4.5	-68.7	-62.8	44885	145.5	73.5	13680
	Drop #28													
0145:00	2339	6259	176	224	180	226.6	076	9.1	-68.8	-62.6	44890	145.4	73.1	13682
	Drop #29													
0206:00	1046	6300	177	225	180	223	099	9.9	-67.1	-62.9	44876	145.5	72.7	13678
	Drop #30													
0246	END													
0252	STOP													



'hurricane-97' (winds@rainier) Proj. 410 Flt 6 Sep-05-97 02:29
20:28:08 to 02:29:42



'hurricane-97' (winds@rainier) Proj. 410 Flt 6 Sep-05-97 02:29
20:28:08 to 02:29:50



U.S. Department of Commerce
National Oceanic and Atmospheric Administration
(NOAA)
Aircraft Operations Center
MacDill AirForce Base,
Florida

The crew of the NOAA/AOC Gulfstream IV (G-IV), missing two names, is listed below. These names will be provided prior to our departure tomorrow.

Name	Crew Position
George Player III	Aircraft Commander
Bob Maxson	Pilot
Mark Finke	Pilot
Gordon Kitson	Crew Chief
Jim McFadden	Program Manager
Sean White	Project Manager
Carlos Pradas-Bergnes	SED
John Hill	SED
Alan Goldstein	SED
James Franklin	Principal Investigator
John Kaplan	HAPS Operator

Once again, we thank the Tamarind for their assistance and understanding when dealing with our unpredictable schedule.

Sean R. White
G-IV Project Manager

Conv back up, Int @ 50kts

12h Int w/ SHIPS

CDO form and expanding

L of the

15N 55W PP WNW

Have watch

Ant/St Mast/NE leeward

Track seems likely tomorrow

2115Z Signal Strength w/
SATCOM Operator

Telex are updating system do not
think that this is effect 64,
we (49) will call back later

25 45 N 80 17 W KOPF 100

17 42.1 N 64 47.9 TIX 101

DPT KOPF AT 04/1724

ETA 27N 76W 04/18 ~~06~~⁴.

305/229-4474

305/361-~~4400~~ Pete Black
4320

Pete B from James F 17.35z

edge of CDO

level of exp

slow intensity / end of day

calling SATCOM Operator

18.52z John H

put on hold / hung up

1916002	28.992155	28° 59' 31.7	GPS
	-71.750359	71° 45' 01.2	

1916:02	29.046515	29° 02' 47.4"	I/UE
	-71.725616	71° 43' 32.2"	

NOAA/AOC/SED Flight Performance log - N49RF

N49RF Project: Hurricane 97 Project No 410 Flight No. 6 Flight ID: 970904N

SED Crew: Hill, Pradas, Goldstein, White Mission: TS Erika

Pre-Flight: 1300 Z Take-Off: 1456 Z Landing: 0247 Z

SYSTEM			Pre-Flight	In-Flight	Post-Flight	
N A V	IRS #1	✓ JWH				
	IRS #2	✓ JWH				
	IRS #3	✓ JWH				
	GPS Honeywell #1	✓ JWH				
	GPS Honeywell #2	✓ JWH				
	GPS Collins	✓ JWH				
	Nose Radar Collins	✓ JWH			Off? ☒	
	Time	Temp °C		Time	Temp °C	
T	Temp #1	1420	29.6	JWH	0249	30.8
E	Temp #2		28.3	JWH		32.1
M	Temp #3		29.2	JWH		31.2
P	Temp #4		28.7	JWH		31.6
	DP Left		15.0	JWH	Cal. Time: 1504	0.0168 °C
	DP Right	✓	-2.0	JWH	Cal. Time: 1504	24.827
P	Attack Angle (ADCAOA)	✓ JWH				
R	Slip Angle (BP/DBP)	✓ JWH				
E	Differential (PQ1/PQ2)	✓ JWH				
S	Absolute (PS1/PS2)	✓ JWH	1012.3/1012.5			
S	Check Radome Press. Lines					
S	DOWN PRT-5 ⇌ Open? ☒	JWH			Closed? ☒	
Y	MADS (WINDS/DISCWIN)	✓ JWH			# DATs: 1	
S	MADS Printer ⇌ Paper? ☒	JCPB				
T	MADS Cal. Date: 090497	QC time: 1518			QC time: 0249	
E	WINDS ⇌ NET BCAST ☒	JWH				
M	HAPS System	✓ JCPB			# Msg.: 30 # Attempts: 60	
S	AVAPS System / Time set? ☒	JCPB				
	AVAPS Printer ⇌ Paper? ☒	JCPB				
	Exterior Walk Around	✓ JWH				
	Inspect DropSonde Chute Bolts	✓ JCPB				
	Satcom (Flight Phone)	✓ JWH SATCOM			Off CB? ☒	
M	FCU/UPS/CB	CB's Checked? ☒			UPS off? ☒	
I	AVAPS Sondes	#On Board: 124	#Dropped: 30	#Good: 30		
S	AXBT	#On Board: 0	#Dropped: —	#Good: —		
C	APN-232	✓				
	Modem Power On? ☒	JWH				

1	DAT Tape #1	On: 14:39:13	Off: 0253
2	DAT Tape #2	On:	Off:

Comments: DPR problem to be addressed in flight - re-balance
DPR returned better numbers after re-balance

2

N49RF N49RF

N49RF Hurricane 97 AVAPS DropSonde Log

N49RF Project: Hurricane 97

Flight ID: 970904N

Mission/Flight: T.S. ERIKA

System Status: OK

Drop #	Sonde Serial Number	Time (Z)	Chn #	Press. offset	Winds time	Operator Init.	Comments Drop Status	GOOD ☒
1	385400237	18:03	1	-0.1	42	all	Good drop - RH? BIAS	✓
2	625331305	18:17	2	-0.7	54	all	Good drop - RH BIAS?	✓
3	964910071	18:34	1	-1.0	102	all	Good drop - RH BIAS - LAST 1572 (WIND)	✓
4	385400236	18:45	2	0	62	all	RH BIAS?	✓
5	625331505	19:00	1	+0.4	62	all	RH BIAS?	✓
6	624233301	19:16	2	+0.1	40	all		✓
7	385400241	19:33	1	-0.1	48	all	11% RH BIAS	✓
8	632230804	19:49	2	+0.3	36	all	8% RH BIAS	✓
9	964910115	20:08	1	-0.3	25	all	RH BIAS	✓
10	607230506	20:22	2	-0.6	40	all	RH BIAS	✓
11	601330403	20:40	1	+1.2	40	all	RH BIAS	✓
12	632332501	20:58	2	+0.3	38	all		✓
13	964910161	21:18	1	-0.2	23	all	RH BIAS	✓
14	385400074	21:30	2	-0.1	26	all	RH BIAS	✓
15	964910008	21:45	1	-0.2	25	all	RH BIAS	✓
16	964910067	22:00	2	-0.5	40	JWH	RH BIAS	✓
17	632333003	22:17	1	-0.1	15	JWH	RH BIAS	✓
18	385400264	22:35	2	-0.2	24	JWH	RH BIAS	✓
19	385400178	22:48	1	-0.3	20	JWH	RH BIAS	✓
20	964910016	23:00	2	0.3	17	JWH	RH BIAS	✓
21	385400086	23:20	1	0.0	16	JCPB	RH BIAS	✓
22	385400267	23:38	2	0.21	34	JCPB	RH BIAS	✓
23	964910131	23:57	1	-0.6	35	JCPB	RH BIAS	✓
24	965040212	00:20	2	-0.8	36	JCPB	RH BIAS	✓
25	638130606	00:33	1	-0.2	38	JCPB	RH BIAS	✓
26	638130506	00:51	2	-0.5	20	JWH	RH BIAS	✓
27	632332601	01:14	1	-3.4	45	JWH		✓
28	632332403	01:28	2	-0.3	24	JWH	RH BIAS	✓
29	385400183	01:45	1	0.0	25	JWH	RH BIAS	✓
30	965120344	02:06	1	-0.2	34	JWH	RH BIAS	✓

@ 20:31z MADS PARAMETERS CHANGED FROM IRS LAT & LONG TO GPS/PPS 7/21/97