

19940910H1-FDIA

T.S.DEBBY / GENISIS

940910H (Low Plane on GENISIS exp.)

TYPE OF DATA

SENSOR OR OPTION

INE	1
Accelerometer	1
Temperature probe	1
Altitude change option (for vertical winds)	RA159
Static pressure	Rosemount fuselage
Dynamic pressure	Rosemount fuselage
Time source	Micro 29
Constants file	CO2941.CON

Notes:

There were no time/data gaps.

INE#2 failed in flight at 231430Z and was switched off and then back on in "ATTITUDE" only for the remainder of the flight.

As always, in very moist conditions wetbulbing occurs, as it did on this flight.

The primary dewpointer (DW1) was found to be behaving strange so DW2 was utilized... After the fact, the dewpointer head was found to be cracked and was changed prior to flight 940911H, the Ferry back to Miami...

The aircraft INE positions were renavigated with respect to GPS.

SPECIAL NOTE!!! Locations 80, 81 and 82 of record five on the standard tape contain vertical ground, vertical air and vertical speeds, respectively, computed using Dave Jorgensen's vertical wind algorithm.

	Takeoff -----	Landing -----
Aircraft static pressure	1015.2mb	1007.9mb
Corrected tower pressure	1014.0mb	1015.0mb

Flight Meteorologist: Philip D. Bogert (813) 828-3310 ext. 3072

FLIGHT PLAN

1947

1942

SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	ΔT (2)(1)	TERMINAL ERRORS		
				ELAPSE ALIGN POST TIME					LAT	LONG	GS
INS 1	1733Z				5	1826	0528	11400	+11.5	-1.9	8
INS 2 IMU	✓				0	✓	✓	✓			

OTHER REMARKS:

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A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
P411	STRONG	N42RF	94-60	1942	TBPB	10 SEP 94	T.S. Debbie

TIME OF ENTRY	POSITION	TYPE INE USED	INE #1 POSITION	LAT LON COR'S	INE #2 POSITION	LAT LON COR'S	ALT GS	TH TK	REMARKS
1930	13-04.6 59-29.4	4 1	13-04.2 59-29.3	+4 +1	13-05.0 59-29.4	-4 0			CHOCKS
2003	14-16.5 59-53.0	6PS 1	14-15.9 59-52.5	+6 +5	14-18.0 59-53.0	-1.5 0	100 282	343 339	Fm1
2050	17-44.2 61-24.4	6PS 1	17-43.2 61-22.7	+1.0 +1.7	17-48.2 61-24.1	-4.0 +3	10.0 278	344 338	Fm1
2127	18-33.2 64-13.2	6PS 1	18-31.0 64-12.8	+2.2 +4	18-39.4 64-14.9	-6.2 +1.7	10.0 296	244 248	Fm1
2211	18-57.3 67-50.2	6PS 1	18-54.4 67-48.9	+2.9 +1.1	19-05.9 67-50.7	-8.6 -5	10.0 273	213 217	Fm1
2304	17-09.4 66-48.5	6PS 1	17-02.3 66-48.6	+7.1 -1	17-21.2 66-48.9	-11.8 -4	10.0 225	112 114	Fm1
2318	17-00.1 65-56.0	6PS 1	16-53.4 65-55.7	+6.7 +3	INE DOWN			101 101	Fm1
0022	16-04.8 62-16.2	6PS 1	15-54.8 62-17.0	+10.0 -8			10.0 244	186 190	Fm1
0111	15-32.8 65-20.2	6PS 1	15-23.1 65-20.0	+9.9 +2			10.0 279	214 274	Fm1
0142	15-51.2 67-40.0	6PS 1	15-40.5 67-41.7	+10.3 -1.7			10.0 274	282 278	Fm1
0213	15-18.1 69-19.2	6PS 1	15-07.9 69-19.4	+10.2 -2			10.0 267	172 175	Fm1
0306	14-12.4 66-19.9	6PS 1	13-58.3 66-22.7	+14.1 -2.8			10.0 271	098 096	Fm1

ATC CLEARANCE: ~~DD~~ 18-00N 061304W FPR

→ 10.0X

L

7242

ENROUTE CLEARANCES:

080/12

V10 km

SLAT

2KS

7KB

26

00-24

V5000

TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER - INERTIAL
(8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL

FLT ID: 040910N	FM: TBRB	TO: TBRB
FLT NO: 94-60	BLK IN: 0524Z	ATA: 11/0520Z
ETD: 1930Z	BLK OUT: 1933Z	ATD: 1942Z
ETE: 9+30	BLK TIME: 9+51 (9.9)	FLT TIME: 9+38 (9.6)
SPONSOR ORG: HRD	PROGRAM: H-Res	PURPOSE: T.S. Debby

OAO PERSONNEL

AC: PHILLIPSBORN	SYS ENG: FARR
CP: Kennedy	DATA SYS: McNameara
NAV: STRONG	RADAR: Peadas
FE: Moore	BT/ODW:
RADIO: ARNASON	CLD PHYS:
FD: BOGERT	DOPPLER:

PARTICIPATING SCIENTIST/VISITORS/OAO

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
BLACK, P.	P.I.	HRK
DORST, W	RADAR	"
Willis	PMS	"
POPSTEFANITA	SMRI/GSCAT	"
	13 S.O.B.	

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

ALT - 2996/1014mb
 PS - 1015.2
 SP - 1016mb

ALT - 2997/1015mb
 PSP - 1010.5
 EPS - 1007.9

INE #2 ↓ 100H @ 2315Z.
 D.P. (TWI) OCCURRING/SUSPECT
 DURING this fight.

CAL RUN 008NM E. of
 EAST POINT START @ 045430Z
 END RUN @ 050830Z.

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 DROWF2 FILE

FLT ID: 940910H

TIME OFF: 1942Z

TIME ON: 0520Z

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

NO

DATA DISPOSITION/DATE/QUALITY

1/SEC FLT LVL TAPES	1	
FAST FLT LVL TAPES	0	
RADAR TAPES	0	
DOPPLER TAPES	0	
ODW CASSETTES	0	
HARD COPIES		
PMS	1	
AXBT	0	
AXCP	0	
ODW	0	

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

940910N

Time	LAT		LONG		TRK	WD	WS	PA	GA	Ta	Td	Sp	Ps	
2056	18	01	61	40	281	111	40	3060	3265	8.0	3.8	180	695.6	NR ¹
2206	18	55	67	24	278	088	35	3050	3256	9.1	7.2	166	696.8	
2247	17	15	67	55	095	070	23	3049	3240	9.4	6.5	145	696.7	
2347	16	44	64	00	⁰⁹⁷ 102	101	24	3062	3258	7.8	5.8	172	695.5	
11/0048	15	24	63	34	272	127	25	3060	3257	9.5	4.6	143	695.7	
0201	16	00	69	10	275	067	24	3067	3269	10.5	7.8	140	695.1	NRPT6
0441	13	07	60	03	095	089	26	3053	3251	8.8	-2.8	174	696.3	

To

TBPB