19950827I1-FDIR

T. S. IRIS Cyclogensis

FLIGHT #02 I950827

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 99
Constants file	CO3958.CON

Notes:

There was one time/data gap: 190641Z - 190710Z

Dewpoint temperature #1, DW1, appeared to be overcome by precip during the following time frames:

1716Z - 1724Z
2018Z - 2023Z
2316Z - 2326Z

The erroneous values generated from this activity were removed and and patched over.

Downward spikes in radar altimeter output are a result of overflying land.

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. It is recommended that these values be used for vertical wind analysis.

	Takeoff	Landing
Aircraft static pressure	1006.5mb	1006.5mb
Corrected tower pressure	1006.0mb	1006.0mb

Flight Meteorologist: A. Barry Damiano, (813) 828-3310 ext. 3073

FLT ID: F950827	FM: TBPB	TO: TBPB
FLT NO: 95-059	BLK IN: 0039Z	ATA: 0036
ETD: 1600Z	BLK OUT: 1554Z	ATD: 1603Z
ETE:	BLK TIME: 8:45	FLT TIME: 8:33
SPONSOR ORG: HRD	PROGRAM: HRCN RESEARCH	PURPOSE: T.S. IRIS

ORD PERSONNEL

AC KENNEDY	SYS ENG
CP PLAYER	DATA SYS LYNCH
NAV KOZAK	RADAR PRADAS-BERNES
FE BAST	BT/ODW McMILLAN
RADIO SANS SOUCI	CLD PHYS
FD D'AMIANO	DOPPLER

PARTICIPATING SCIENTIST/VISITORS/ORD

LAST, FIRST NAME	ACTIVITY ON A/C	AFFILIATION
WILLOUGHBY	PI	HRD
MARKS	OBS	
FRANKLIN	OBS	
GRIFFIN	WORKSTATION	
LEIGHTON	RADAR	

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

1706Z 9
16°48'
61°48'
at 570 mb

1724Z
DWI froze up
1759Z
1954Z → TT2 COLDER
192546 SYSTEM CRASH

N42RF had 700mb center 1715Z
1645, 998mb
61°49'
17°23' 2133Z
61°49' 995mb

AF fix 1741Z
16°56' 2347Z
61°47' 17°39'
995mb 61°59'
From 5K ft 993mb from 5K

2020 BAC DPT

2048Z 9
17°20'
61°40'
at 570 mb

2319Z 9
17°34'
62°03'
at 570 mb

U.S. DEPT. COMM./NOAA/OAO - DATA SECTION WORK FORM NO.2 OAOWF2 FILE

FLT ID: I950827 TIME OFF: 1603Z TIME ON: 0036Z

	A/C T/O	WX STN	A/C LAND	WX STN
PRESSURE	1006.5	1006.0	1006.5	

	NO	DATA DISPOSITION/DATE/QUALITY
1/SEC FLT LVL TAPES	1	
FAST FLT LVL TAPES		
RADAR TAPES	2	
DOPPLER TAPES		
ODW CASSETTES	4	
HARD COPIES		
~~ODW~~ PMS	2	
AXBT		
AXCP		
ODW	5	

PHOTOGRAPHY

	FWD	LS	RS	VERT	
ON					
OFF					
RATE					

REMARKS

NOAA FORM 59-4
(2-72)

I950827

TIME	LAT	LON	TRK	HD	WD	WS	PA	GA	TA	TD	SP	PS			PQ
160500	1303	5934	260	256	200	25	523	593	23.3	20.4	1014.8	931.2	CLDS		63.8
161400	1331	5958	321	316	214	25	3882	3574	6.6	7.1	1011.0	650.0	RW		59.7
162300	1359	6021	321	316	216	24	4546	4806	.8	.1	1008.4	572.0	CLD		56.
163800	1451	6106	321	317	242	26	4603	4839	.3	1.6	1006.8	570.3	RW		68.
165100	1544	6130	345	338	246	37	4589	4815	.8	.7	1004.6	570.3	CLD		71.1
170300	1635	6144	345	341	255	25	4603	4785	1.6	.9	998.5	569.7	CLD		72.
171900	1646	6054	108	116	190	37	4595	4807	1.0	>	598.5	570	RW-		74.
173900	1649	5921	90	98	171	28	4595	4838	.2	-1.5	1008.4	570.1	RW-		69.4
174800	1649	5839	92	100	164	29	4593	4840	.8	-1.8	1007.5	570.3	CLD		71.1
180600	1644	5719	93	97	159	11	4593	4849	.8	2.3	1008.0	570.5	RW-		76.
181810	1641	5633	229	227	168	18	4591	4854	1.2	-1.9	1008.7	570.4	Good	(ODW)	70.
182700	1613	5700	223	220	170	20	4593	4851	.4	-4.7	1009.0	570.5	RW		71.1
184800	1504	5806	216	214	165	17	4597	4848	1.8	-8.3	1007.2	570.0	CLR		72.
185900	1430	5839	222	220	179	20	4597	4852	2.3	-9.3	1006.5	569.9	CLR		74.
190922	1358	5909	221	219	183	24	4599	4849	.5	-3.0	1008.8	570.0	Good	(ODW)	76.
192100	1327	5948	241	238	202	26	4595	4847	1.2	-2.6	1007.5	570.0	CLD		78.
193200	1304	6030	241	239	190	20	4596	4850	.6	-3.1	1008.5	570.1	CLD		77.
194824	1236	6131	3	2	201	22	4595	4847	.1	-2.8	1009.3	570.1	Good	(ODW)	69.
200700	1404	6131	0	358	233	18	4603	4842	-.1	-2.4	1008.4	569.5	RW		72.9
201900	1500	6131	0	357	250	23	4604	4840	.5	-4.6	1006.2	569.5	CLD ABV		78.5
203400	1610	6130	0	355	254	30	4594	4801	1.7	-.4	1001.6	570.3	GUABLOPE		71.4
204400	1656	6131	351	345	231	40	4591	4780	1.2	.7	1000.1	570.4	CLDS		72.
210400	1832	6131	3	8	133	22	4588	4810	.4	1.9	1005.2	570.4	RW+		73.3
212100	1948	6130	2	6	47	16	4595	4831	2.7	-5.6	1005.1	570.7	BTN CLD		70.6
213100	2032	6129	1	7	72	25	4585	4833	.5	-2.3	1009.1	570.8	BTN CLD		72.8
214532	2129	6134	219	218	97	12	4587	4838	1.8	-16.1	1007.6	570.8	Good	(ODW)	71.4
215400	2100	6200	220	220	102	9	4886	4836	.6	-5.7	1008.6	570.7	CLD ABV		74.
220500	2019	6236	219	220	56	11	4585	4832	.7	-4.1	1008.6	570.7	BTN CLD		75.2
222400	1909	6340	220	221	32	17	4586	4829	1.7	-3.7	1005.9	570.8	CLD BLW		77.
223700	1821	6425	220	221	34	14	4586	4830	1.7	-4.5	1006.1	570.6	CLD		76.
224818	1741	6430	96	94	44	19	4587	4828	.9	-.7	1006.7	570.8	Good	(ODW)	74.
225900	1732	6340	96	91	26	28	4907	5166	-.6	-5.0	1005.5	547.0	CLD		80.1
230700	1733	6303	90	85	3	30	4585	4813	2.4	-5.0	1002.8	570.0	DARK		79.
233000	1657	6135	152	162	246	38	4604	4830	1.5	.8	1003.3	569.3	—		67.8
000600	1440	6024	153	158	200	23	4599	4865	.4	-2.3	1010.8	569.8	—		69.6
001900	1350	5457	152	155	185	20	4600	4870	1.0	-3.1	1009.7	569.8	—		73.4

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PREFLIGHT LOG

MISSION	NAVIGATOR	AIRCRAFT COMMANDER	FLIGHT DIRECTOR	SCHEDULED / ACTUAL TAKEOFF Z	DATE OF TAKEOFF
95 059	Lozak	Kennedy	Dominoo	1600Z	8-27-95

MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	LEG / TOT DIST	LEG / TOT TIME	PROP ETA	ETA	ATA	REMARKS
					275			15K	270	270 270					
	18E									317 587		1815			
N		465								420 1047					
		621	600							621 1668					
		420	426							426 2094					
		326	326							317 2411					
		263	263							270 2681					
		495	161		✓			↓	↓						

INS PERFORMANCE

	INS 1	INS 2
BEGIN ALIGN TIME	1410	1410
ALIGN STATUS (0-5)	5	∅
END NAV TIME	0042	0042
START NAV TIME	1548	1548
DELTA T	9404	9404

TERMINAL ERRORS

	INS 1	INS 2
DELTA LAT	+5,1	-2,2
DELTA LON	-2,2	-1,6
RGS	4	8
RADIAL ERROR	6	3

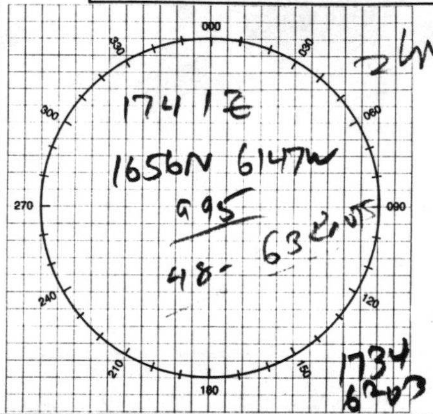
REMARKS

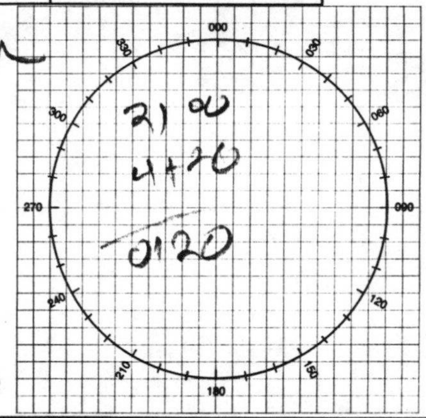
10U 510U -5U

CLEARANCES			
FREQ	ALT	HDG	OTHER
			1530N 6230W
			150 RT
			7223
			1715Z 1645N - 6149.0W
1720N	ʃ		998. 10K
6140W			
			1555Z 16.7N 61.8W
			997 mb 63 kts
			2014 1720 . 6140W

MISSION LOG

PAGE ___ OF ___





POSITION REPORT

1. POSITION
2. TIME
3. ALTITUDE
4. NEXT POSITION
5. ETA
6. NEXT POSITION

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UHF/VOICE
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- WE ARE A
- NATURE O
- ASSISTANC
- PILOT INTE
- WE HAVE

TIME	FIX TYPE	POSITION	INS 1 POSITION	K ERR	INS 2 POSITION	K ERR	MH	VAR +E==>	TH	DR +R==>	TRK	GS	WD	WS	ALT	TAS	NEXT PT	DIST
1548																		
1554																		
1607																		
1625		1405.7N 6026.9W	1405.6N 6026.7W	+.1 +.2	1405.8N 6026.6W	-.1 +.3			318	4R	322	282	267	23	15K	274		
1706	GPS	1648.4N 6148.1W	1648.5N 6148.3W	-.1 -.2	1648.4N 6145.5W	0 +2.6			350	0	350	270	0	0	15K	270		conv
1819	GPS	1639.6N 5634.5W	1638.1N 5634.6W	+1.5 -.1	1639.1N 5635.2W	+.5 -.7			221	3R	224	256	181	23	15K	273		
1914	GPS	1345.5N 5920.9W	1342.7N 5920.8W	+2.8 +.1	1343.5N 5920.8W	+2.0 +.1			218	2R	220	259	175	16	15K	274		
1946	GPS	1236.1N 6131.3W	1233.8N 6131.0W	+2.3 +.3	1235.1N 6131.8W	+1.0 -.5			359	1R	000	284	212	23	15K	265		
2053	GPS	1742.0N 6135.0W	1739.0N 6134.4W	+3.0 +.6	1741.6N 6135.4W	+.4 -.4			013	6L	007	281	120	25	15K	272		
2145	GPS	2129.7N 6133.9W	2125.9N 6134.8W	+3.8 -.9	2128.5N 6136.5W	+1.2 -2.6			218	1R	219	274	095	11	15K	268		
2248	GPS	1741.3N 6430.4W	1737.4N 6429.3W	+3.9 +1.1	1742.7N 6429.5W	-1.4 +.9			099	3R	102	261	030	17	15K	268		
2319	GPS	1733.0N 6202.2W	1729.0N 6206.9W	+4.0 -4.7	1735.2N 6204.4W	-2.2 -2.2			157	7L	150	272	243	35	15K	272		
0036																		
0040		1304.6N 5929.5W	1259.5N 5931.7W	+5.1 -2.2	1306.8N 5931.1W	-2.2 -1.6												

5K 2347 1739N 06159 993 6633 Antigua 6682 Adams St Croix