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RFC-1 WORK FORM (7-76)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FACILITIES CENTER MIAMI, FLORIDA		AIRCRAFT N43RF	
				FLIGHT NO. 43-83	
				FLIGHT ID 830823I	
				DATE AUG. 23, 83	
TAKE OFF (City or airport) MIA		LAND (City or airport) MIA		ALTITUDE SK	
PURPOSE: HRD. RESEARCH - PRE - TS BARRY					
PROPOSED TAKEOFF TIME: 1100Z		PROPOSED FLIGHT DURATION: 9 HRS			
TIME IN: 2105Z		TIME ON: 2059Z			
TIME OUT: 1100Z		TIME OFF: 1113Z			
BLK. TIME: 10:05 HRS		FLIGHT TIME: 9:46 HRS			
FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
TURNER	NUNN	DAVIS		JORGENSEN	FEINBERG
NOBLE		GOLDSTEIN		FRANKLIN	WILLIS
NEEDON		STONE		CHENG	
FLEURY				LORD	
PROPOSED MISSION 		3 PATTERNS - ROTATED 20° AFTER EACH EXECUTION. LEGS 200M AT POINT 3, PT 2 EXTENDED 3 1/2, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 6			

RFC/SIG FLIGHT PERFORMANCE LOG

FLIGHT TECH: ASG/11HSFLIGHT I.D.: 830823IAIRCRAFT: N43RFMISSION: RECCO / RESEARCHTIME: (Pre-Flt) 0920Z(Take-Off) 1112Z(Land) 2059Z

SYSTEM				PRE-FLIGHT	INFLIGHT	POST-FLIGHT		
		ALIGN PI	AID			LAT	LON	GS
N A V	INE1	1	Y	✓		-0.8	-1.6	1
	INE2	3	Y	✓		-1.4	+0.2	2
	ONE			✓				
	DOPLR			✓				
R	INTEGRATION(PRI'S)							
A	NOSE			✓				
D	L/F			✓				
A	TAIL			✓				
R	DATA SYSTEM			✓				#TAPES:
RAMS DATA SYSTEM				(1) ON 1056	(3)(4)(5)			
TEMP		CAL HI	CAL LO	AMBIENT		CAL HI	CAL LO	
TEMP #1		+30.5	-30.1	26.4		+30.4	-30.1	
TEMP #2		+31.0	-30.1	27.4		+30.9	-30.1	
DEW POINT (CLEANED:Y/N) N				22.0				
ATTACK ANGLE				✓				
SLIP ANGLE				✓				
ABSOLUTE PRESSURE				✓				
DIFFERENTIAL PRESSURE				✓				
RDR ALTM. S/N: SN-1				✓				
J&W				✓				
P M S	OAP 2D-C			✓	(2)			
	OAP 2D-P			✓				
	FSSP-100			✓				
	DATA SYSTEM			✓				#TAPES:
FOIL IMPACTOR				NI				#INCHES:
ICE RATE DETECTOR				NI				
CO2 RADIOMETER				NI				
MICROWAVE RADIOMETER				NI				
SURFACE RADIOMETER				✓				
SEEDER				NI				
GUST PROBE				NI				
ASDL				✓				#MESSAGES: 19
TAPE HEADS CLEANED				✓				
ROSEMT WING TIP XNCERS				✓				
DOPPLER				✓				
NOISE RADAR RECORDER				INOP				
P		RATE	(COUNTS)			(COUNTS)		
H	FORWARD	1	N/I					
O	VERTICAL		N/I					
T	RIGHT SIDE	1/5	66 1130Z		6832	2100Z		
O	LEFT SIDE	1/5	66 1130Z		6839	2100Z		
AXBT SYSTEM				NU				
ODW SYSTEM								
AXBT EXPENDABLES: #ON BOARD: 0				#DROPPED:		#GOOD:		
DROPSONDES: #ON BOARD: 4				#DROPPED: 0		#GOOD: —		
CUMMULATIVE ACCEL. (MELC)				#1 (2G)	#2 (2.5G)	#3 (3G)	#4 (3.5G)	
(LOG AT END OF FLIGHT)				8062	6679	5966	2892	

CODE: ✓ - OPERATIONAL; X(#) (TIME) - FAILURE (NOTE);

NI - NOT INSTALLED; NU - NOT USED

USE REVERSE SIDE FOR NOTES.

REPORT COMPLETION OF PRE-FLIGHT AND INSTRUMENT STATUS TO FLIGHT DIRECTOR

See over

- ① ADC#1 SOMETIMES MALF
- ② CLOUD PROBE, CLEAR AIR UPDATING. 1140Z
- ③ PAR ERROR @ $\approx 1220Z$
- ④ HLT 76 @ 1718 ; Reload - Restart OK
- ⑤ HALT @ 1956 , Reload - Restart OK

A/C COMMANDER		NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME			
Turner		Nels	NCAA 43	830823	1112.	N25 48.2 W080 17.6	23 Aug 83	Storm (H) Frascan			
TIME OF ENTRY	POSITION	TYPE	INERTIAL POSITION	LAT LON COR'S	POSITION	LAT LON COR'S	REMARKS				
1102	N25 48.2 W080 17.6	4	N 48.1 W Same		N Same W Same		B/K.				
1112	N25 48.0 W080 18.0	4	N 47.8 W 18.2		N 47.9 W 18.3		V/L 9L. 12.				
112709	N25 42.3 W079 17.7	2 4	N25 42.0 W079 17.6		N25 41.5 W079 17.7	Good 1nm.	ZBV OVER Only				
120706	N24 02.0 W077 10.0	4 10	N24 03.0 W077 10.6		N24 03.1 W077 10.2	Good Fix within 1nm.	Isle OVER				
124003		2 10	N25 41.8 W076 37.2		N25 42.2 W076 36.0	FAIR.	NASSAU 038/60 IS ON QF UNK				
134900		10	N27 25.8 W075 40.8		N27 26.9 W075 40.0		IS ON QF 02E				
1434	N24 37.7 W075 39.4	4 10	N24 38.2 W075 40.4		N24 37.1 W075 41.0	Excellent Fix 2nm	ARTHUR'S TWR A/P & OVER. IS ON QF 026 BETA				
150316		10	N24 30.7 W074 41.9		N24 31.2 W074 40.3		IS QF 026				
160658	N27 35.2 W076 56.9	2 10	N27 34.4 W076 54.4		N27 33.5 W076 54.5	FAIR Fix within 5nm	TREASURE CRY 030/4. IS ON 026 BETA				
161943	N26 30.7 W077 04.5	4 10	N26 31.0 W077 04.5		N26 30.3 W077 04.3	Excellent	MARSH HARBOR A/P & OVER. Treasure CRY IS ON QF 026 BETA				
1708		10	N26 41.4 W075 04.3		N26 41.6 W075 02.1		IS ON QF 026 B				
182320	N25 33.0 N W076 44.0	4 10	N25 33.8 W076 44.1		N25 33.8 W076 43.2	Good	IS ON QF 026 i				
SYS	BEGIN ALIGN TIME	NCS CONN	Ω AID	TIME OUT OF COARSE ELAPSE ALIGN POST TIME	ALIGN STS 0-5	(1) TIME INTO NAV.	(2) TIME OUT NAV.	Δ T (2)(1)	TERMINAL ERROR		
INS 1	1000	Y	Y 050		1	1035.	2104	10.7	-08	-1.6	
INS 2 or IMU	1000	Y	Y 050		3	1035	2104	10.7	-1.4	+0.2	
ALIGN REMARKS:											
OTHER REMARKS: Mission flown @ 5KRA											
TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR (7) DOPPLER (8) OMEGA (9) INERTIAL (10) OMEGA - INERTIAL											

[illegible]

79 0 78 0 77 0 76 0
16:14: 1 830823 RFC FTRK 20:43:55.0



