

19750916F1-FDIR

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RFF - 1 WORK FORM (8 - 72)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA		FLIGHT ID 750916F	
FLIGHT SUMMARY				AIRCRAFT N6541C	
				FLIGHT NO. 42-76	
				DATE SEP 16, 75	
TAKE OFF (CITY OR AIRPORT) MIA		LAND (CITY OR AIRPORT) NRK		ALTITUDE(S)	
PURPOSE RESEARCH - NHEAL - HG - ELOISE					
PROPOSED TAKEOFF TIME: 1300Z		PROPOSED FLIGHT DURATION: 8 HRS			
TIME OUT: 1415Z		TIME IN: 2240Z		BLOCK TIME: 8:25 HRS	
TIME OFF: 1432 1630Z		TIME ON: 2235Z		FLIGHT TIME: 8:03 HRS	
PROPOSED PATTERN PATTERN "A" ATTACHED 41C HAS 18Z FIX - 39C LATE T/O DUE TO LATE ARRIVAL OF PASSENGER & FIX SHIFTED					
ACTUAL PATTERN 1 PATTERN "A" AT 23-24K & 1 AT 20K 1740Z FIX 1931N 6815W 1003MB HIGHEST WIND W QUAD 45KTS, EAST QUAD 7KTS. FIX ALT 1500'					
FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
GUNNOE	RICCI	DAVIS	WADSWORTH		(H40) QUESTER
TICKNOR	NETTERVILLE	DARBY	CONWAY		(H40) WILLIS
SCHISSEL	NUNN	CONNOR	MANTAN		(H40) DASTON
CICINELLI	HERBERT	DANIELS			(H40) KNIGHT
REMARKS:					

FLIGHT PLAN - A

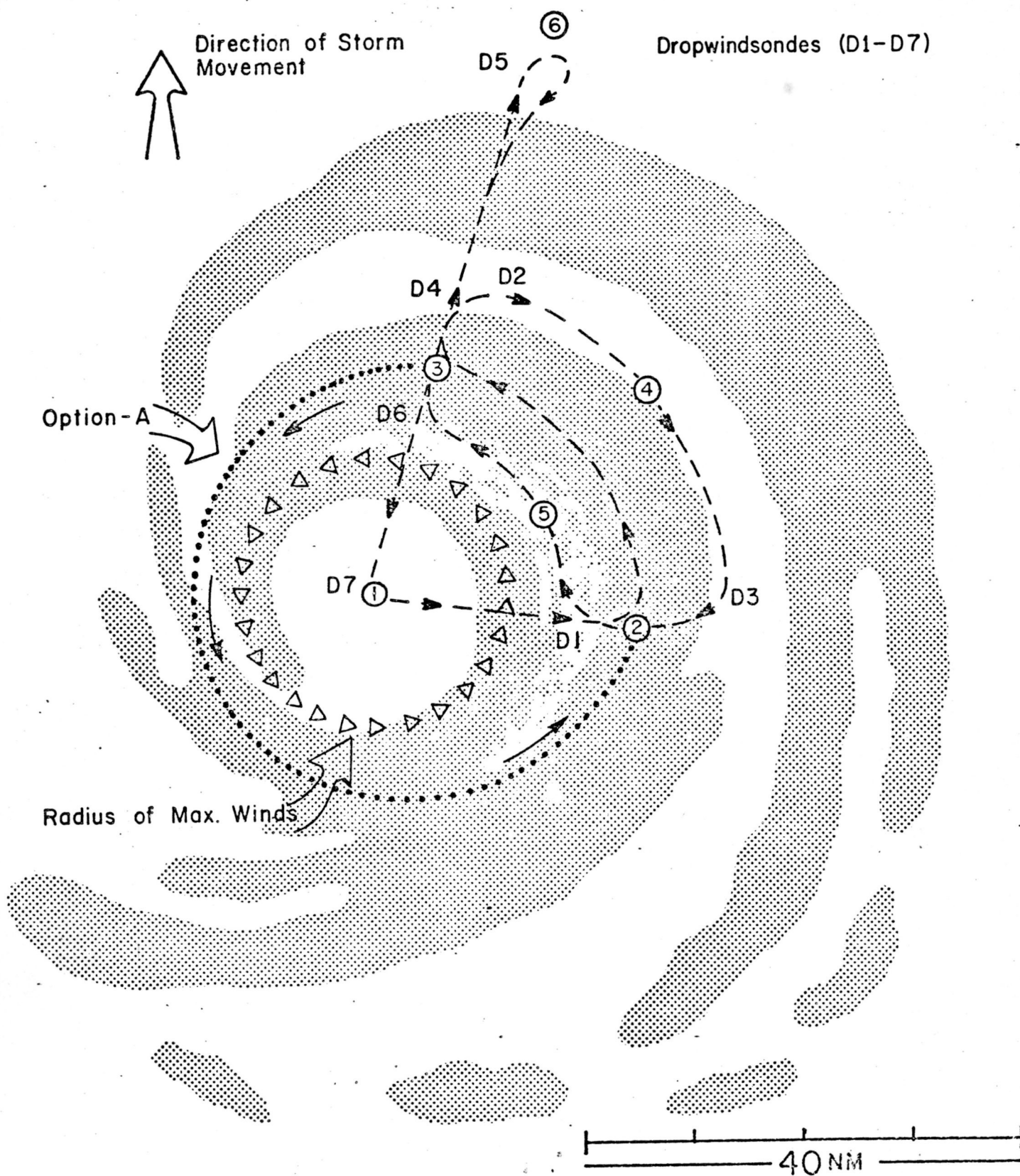


Figure 1. Flight pattern for seeding-seedability-cloud physics studies. The flight pattern sequence is listed in table 1.

RFF - 2 WORK FORM (8 - 72)						FLIGHT ID 750916F	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA						DATE SEP 16, 75	
FLIGHT DIRECTOR'S INFLIGHT DATA LOG							

T.A.S. SET.	G.S. SET.	D.A. SET.	I.R.H. DRY PT. (T/O)	I.R.H. TEMP. (T/O)	TIME	I.R.H. TEMP. (LAND)	TIME

A/C	T/O	TIME	PRESSURE	TEMPERATURE	DEW POINT	WIND
		16 2023Z	1020.2	20.5	19.0	083/10
WX	STN.					
A/C	LAND	203507Z	1011.3	22.9	19.3	233/04
WX	STN.					

HOURLY INFLIGHT DIGITAL DATA STATUS													
ITEM	HOUR	1500	1600	1700	1800	1900	2000	2100	2200	9	10	11	12
TIME (CHECK)		OK	OK	OK	OK	OK	OK	OK	OK				
AMBIENT PRESSURE		✓	✓	✓	✓	✓	✓	✓	✓				
RADAR ALTITUDE		✓	✓	✓	✓	✓	✓	✓	✓				
TRUE AIR SPEED		✓	✓	✓	✓	✓	✓	✓	✓				
MAG. HEADING		✓	✓	✓	✓	✓	✓	✓	✓				
DIC-65		✓	✓	✓	✓	✓	✓	✓	✓				
DRIFT ANGLE		✓	✓	✓	✓	✓	✓	✓	✓				
WIND		✓	✓	✓	✓	✓	✓	✓	✓				
TEMPERATURE (VORTEX) NT OK		✓	✓	✓	✓	✓	✓	✓	✓				
LONGITUDE		✓	✓	✓	✓	✓	✓	✓	✓				
LATITUDE		✓	✓	✓	✓	✓	✓	✓	✓				
I.R.H.		✓	✓	✓	✓	✓	✓	✓	✓				
DIFFERENTIAL PRESSURE		✓	✓	✓	✓	✓	✓	✓	✓				
J.W. LIQUID WATER Y W		✓	✓	✓	✓	✓	✓	✓	✓				
VARIATION		✓	✓	✓	✓	✓	✓	✓	✓				
TEMPERATURE (RSMNT.)		✓	✓	✓	✓	✓	✓	✓	✓				
C.S.I. DEWPOINT		✓	✓	✓	✓	✓	✓	✓	✓				
I.R. SFC. TEMP.		✓	✓	✓	✓	✓	✓	✓	✓				
TK, AD		✓	✓	✓	✓	✓	✓	✓	✓				
AA, SA		✓	✓	✓	✓	✓	✓	✓	✓				

✓ - System O.K. X - System Output. In Error C - Corrective Measures Initiative O - System Inoperative NA - Not Applicable

REMARKS

RFF - 4 WORK FROM (8-72)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA		FLIGHT ID 750916F	
		DIGITAL STATION		DATE SEP 16, 75	
INSTRUCTIONS: Make all entries in pencil. At Flight Termination, give completed form to the Flight Director.					
DIGITAL SYSTEM	TIME ON: 1417Z	Z	TIME OFF: 2035	Z	NO. OF TAPES: 2
				RATE:	111
INFLIGHT LOG					
TIME RESET	TIME STANDARD USED FOR RESET		REMARKS		
Z					
Z					
Z					
Z					
Z					
Z					
Z					
Z					
Z					
REMARKS: (MALFUNCTIONS, RATE CHANGES, ETC.)					
RECORDER OFF 1441Z TO 1500Z - NO DATA TIL 150110Z - CHANGING INSTRUCTIONS IN AIRS - DOPPLER DRIFT OUT, INS DRIFT IN					

RFF - 5A WORK FORM (8 - 72) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA PHOTO - OPTICAL STATION					FLIGHT ID 750916 F	
					DATE Sept. 16 75	
INSTRUCTIONS: Make all entries in pencil. At Flight Termination, give completed form to the Flight Director. Mark all film cans with Flight ID, Type, and Number. All Times GMT (Z).						
CAMERA	ON	OFF	ON	OFF	RATE	FILM USED (FT.)
FOREWARD						
RIGHT SIDE	1420	2215			45	356'
LEFT SIDE	1420	2215			45	356'
PHOTO PANEL						
VERTICAL						
ELAPSED TIME COUNTERS		TIME ON: 143000 Z		TIME OFF: 221000 Z		FINAL COUNT: 27600
APN 59 WP-101 CAMERA		TIME ON 1505 Z		TIME OFF 2110 Z		LENS SETTING f/5.6
		APN 59 WP-101 INFLIGHT CHANGES				
RATE	DIAL	14				
	TIME	1505				
RANGE	DIAL	variable				
	TIME	1505	1015			
TIME MAGAZINE CHANGED						
APS - 20 CAMERA		TIME ON Z		TIME OFF Z		LEN SETTING f/
APS - 20 INFLIGHT CHANGES						
RATE	DIAL					
	TIME					
RANGE	DIAL					
	TIME					
FTC	DIAL					
	TIME					
TIME MAGAZINE CHANGED						
RDR - 1 CAMERA		TIME ON Z		TIME OFF Z		LENS SETTING f/
RDR - 1 INFLIGHT CHANGES						
RATE	DIAL					
	TIME					
RANGE	DIAL					
	TIME					
RECEIVER GAIN	DIAL					
	TIME					
TIME MAGAZINE CHANGED						

40.1

-750916F

TIME	NOG	LA	LO	RA	PA	D	T	Td	NT	LD	FF				
1418	OFF	0114													
1500	120	2153	7753	2260	2125	1280	-147	-24.5	5917	140	20				
1515	120	2222	7653	2259	2123	1279	-141	-24.1	5917	139	14				
1530	120	2255	7554	2260	2124	1300	-13.9	-24.5	5922	152	10				
1545	119	2328	7448	2261	2123	1309	-13.0	-24.0	5922	116	09				
1600	117	2346	7348	2262	2125	1300	-12.9	-24.1	5918	106	13				
1615	116	2315	7245	2258	2123	1285	-12.2	-19.0	5911	074	13				
1630	117	2141	7138	2252	2123	1220	-11.5	-18.2	5829	067	10				
1645	120	2109	7040	2256	2123	1254	-10.7	-17.2	5896	049	07				
1702	114	2026	6931	1445	1402	24	22.9	17.7	10.7	066	31	0.5	0.30	1012	
1715	113	2006	6857	1373	1315	-3.0	22.0	14.5	8.2	061	36				
1720	114	1959	6846		1485	-7.5				066	35			100.8	
1725												0.6	45		
1730	120	1936	6826	1414	1565	-1.55	23.7	19.8	4.4	023	10				
1735	109	1931	6818	1424	1571	-1.50	23.2	19.5		252	06				
1736	109	1930	6818	1424	1571	-1.50	23.2	19.5	4.2	212	04				
1741	109	1927	6800	1380	1560	-1.83	24.4	19.0	3.9	258	02				
1748	103	1927	6788	1690	1780	-9.3	20.1	17.5	6.6	141	65				
1755		1927	6772							140	65				
1810	100	1927	6639	1416	1367	4.5	21.6	17.5	11.2	137	45				
1841	269	1929	6719	2447	2311	1288	-13.9	-16.5	5863	156	21				
1850	277	1931	6805	2454	2320	1252	-12.2	-23.9	5839	258	26				
1853	283	1932	6821	2455	2320	1271	-11.9	-25.6	5843	358	22				
1900	621	1932	6803	2458	2326	1242	-10.9	-28.4	5838	007	24				
1904	088	1929	6744				-12.2		5825	248	15				
1905	091	1929	6741				-14.1		5827	255	12				
1910	330	1920	6748				-11.7		5840	041	21	PT2			
1917	293	2014	6806				-12.2		5847	035	17	PT3			
1921	113	2011	6814				-12.3		5820	041	14				
1926	113	2001	6722				-11.3		5842	062	17				
1932	150	1949	6735				-12.2		5844	102	17				
1936	174	1933	6706				-13.5		5845	167	20	PT2			
1938	274	1928	6735				-14.2		5854	047	21				
1943	280	1930	6757				-16.9		5827	027	28				
1948	351	1953	6754				-15.0		5839	048	18	PT3			
1953	247	1946	6816				-14.5		5836	025	20				
2000	249	1934	6845				-14.7		5839	027	19	5			
2003	061	1936	6851				-14.5		5840	017	26				
2014	076	1935	6840				-14.1		5837	008	23				
			BE610	020000											
2019	083	1936	6814				-7.4		5847	353	13				
2023	028	1936	6757				-6.5		5840	079	17				
2027	342	1940	6754				-6.5		5840	167	10				
2029	332	1938	6801				-7.0		5852	142	11				
2035	001	2019	6823				-6.4		5852	055	12				
2040	282	2025	6847				-6.6		5853	045	20				
2044	103	2036	6845				-7.2		5858	065	19				
2049	112	2030	6825				-7.7		5854	096	22				
2055	122	2014	6804				-7.3		5854	122	19				
2100	153	1957	6754				-5.4		5850	100	21				
2104	172	1937	6751				-6.4		5849	082	23				
2107	272	1936	6804				-7.9		5822	355	08				
2112	340	1932	6820				-6.5		5847	077	25				
2119	290	2012	6838				-8.1		5856	069	12				
2122	276	2016	6854				-6.0		5853	027	14				
2130	180	1939	6857				-6.1		5850	010	18				
2139	085	1936	6818				-2.4		5827	324	21				
2142	281	1931	1826				-7.0		5855	229	21				

PATTERN
A

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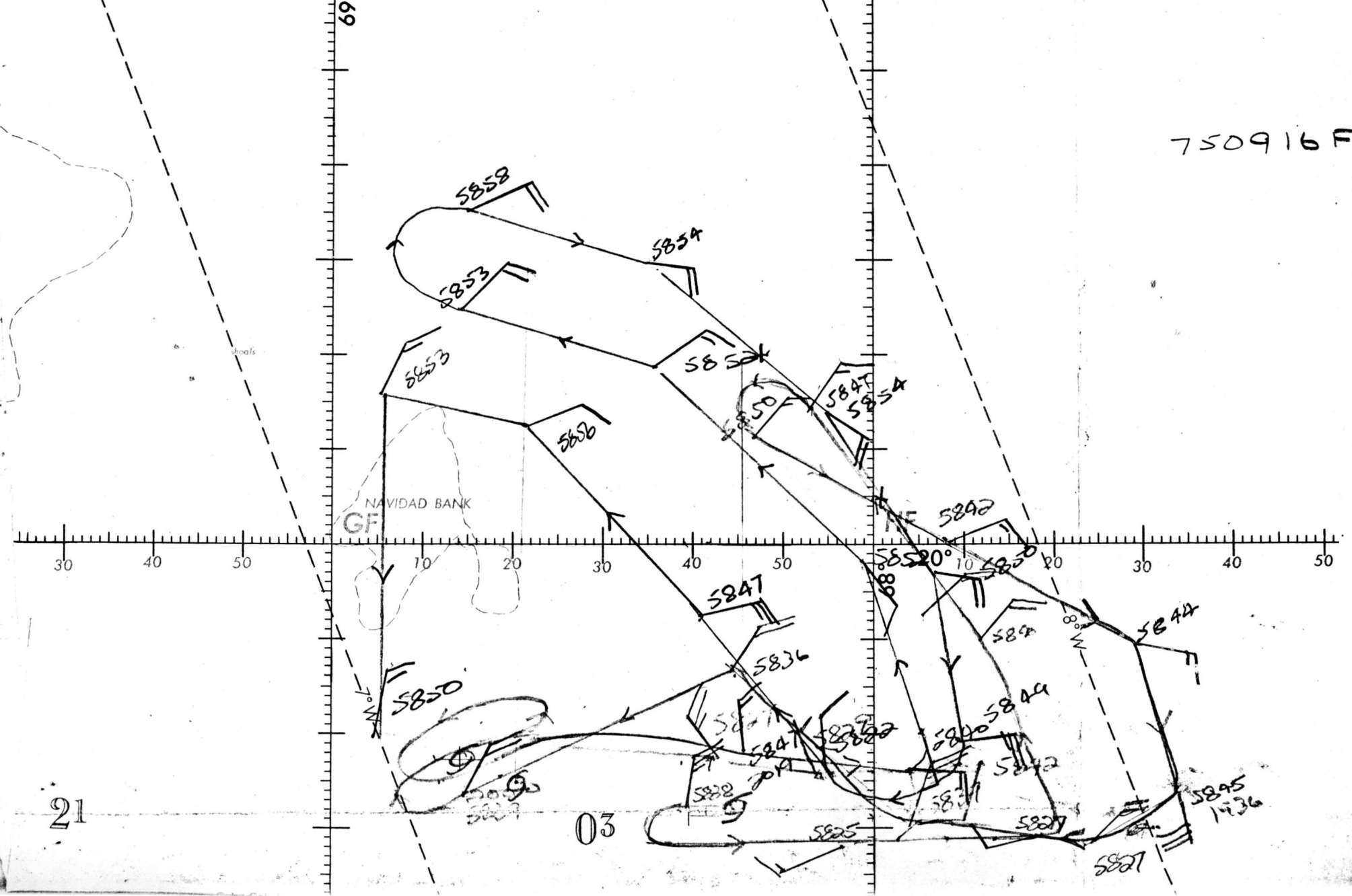
7



750916 F.

69°

21°



750916 F

1418Z DPT MIA CLIMB TO 21K ENROUTE

1650Z BGN DESCENT

1701Z AT 15K

1740Z CENTER FIX 1931N 6815W LSLP1003

MAX WIND W QUAD 45KTS

" " E QUAD 70KTS

1810Z BEGIN CLIMB ~ 100NM E OF CENTER

1838Z AT 23K

1845Z AT CENTER

1900Z BGN PATTERN 'A' AT 23K

2000Z AT CENTER

2017Z DESCEND TO 20K AND BGN
PATTERN A

2130Z AT CENTER BGN LEG TO EAST

2203Z END LEG

2235Z LND NRR

19-35 68-40

160-102 50-7

19-30

68-00

A/C COMMANDER		NAVIGATOR		A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
Cannon		Schissel		91C	750916F	11/109	Miami	16 SEP 75	ELONE
TIME OF ENTRY	POSITION	TYPE	CONF. FACT.	INERTIAL POSITION		LAT. LON. COR'N	POSITION	LAT. LON. COR'N	REMARKS
1411 09	25-48.2 80-17.6	4	1	25-48.0 80-17.4					
1436 10	25-42.0 79-16.0	2	1	25-42.2 79-17.7					Bimini
1637 29	21-26.0 71-09.0	2	1	21-27.0 71-11.0		-1 -2			GR. TURT.
1735 01		9	1	19-30.9 68-11.1					2
1820 50		9	1	19-29.6 66-03.7					
1844 39		9	1	19-29.3 67-36.8					RAILROAD
1854 32		9	1	19-31.9 68-24.0					5
1905 08		9	1	19-29.4 67-40.3					
1919 43		9	1	20-13.4 68-17.5					3
2015 09		9	1	19-35.6 68-33.4					5
2023 21		9	1	19-36.1 67-54.9					PT 2
2042 08		9	1	20-31.2 68-50.3					
2104 12		9	1	19-38.8 67-51.1					
2121 57		9	1	20-16.1 68-53.8					

TYPE OF FIX: (1) DR (2) RADIO (3) CELESTIAL (4) VISUAL (5) LORAN (6) RADAR
 (7) DOPPLER (8) OMEGA (9) INERTIAL (10) OMEGA-INERTIAL
 CONFIDENCE FACTOR (Nautical Miles): (1-5, 1) (6-10, 2) (11-15, 3) (16-UP, 4)

<u>A/C COMMANDER</u>	<u>NAVIGATOR</u>	<u>A/C NO.</u>	<u>MISSION NO.</u>	<u>TIME AIRBORNE</u>	<u>LOCATION</u>	<u>DATE</u>	<u>PROJ. NAME</u>

[illegible]

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