

19731005F1. FDR

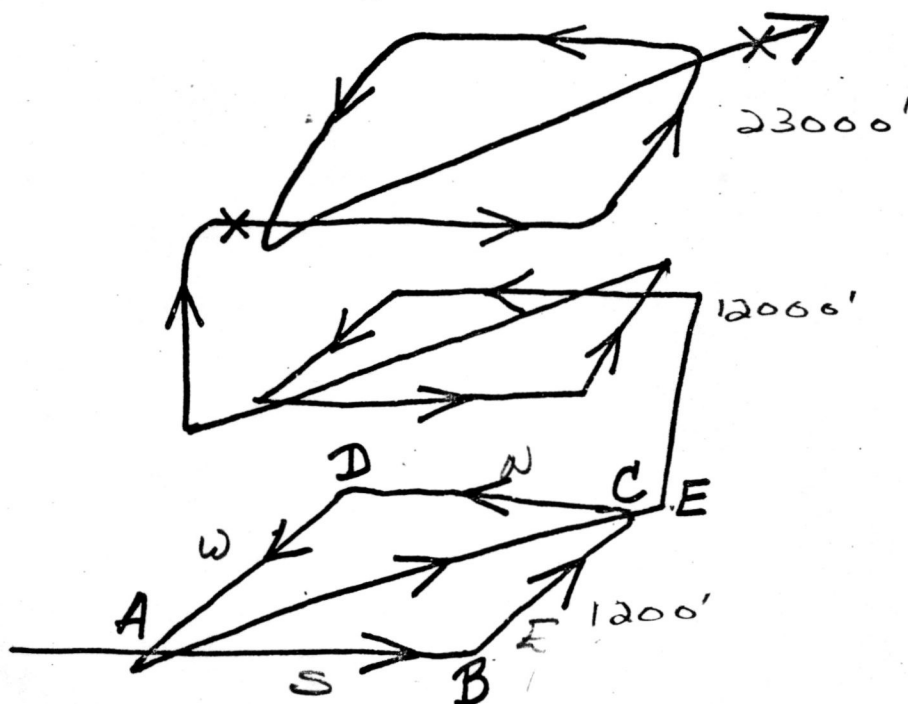
1

RFF - 1 WORK FORM (8-72)		U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA		FLIGHT ID 731005F	
				AIRCRAFT N6541C	
				FLIGHT NO. 37-74	
				DATE OCT. 5, 73	
FLIGHT SUMMARY					
TAKE OFF (CITY OR AIRPORT) MIA		LAND (CITY OR AIRPORT)		ALTITUDE(S) 1200', 12000', 23000'	
PURPOSE NASA & NNRL - RESEARCH					
PROPOSED TAKEOFF TIME: 1400Z			PROPOSED FLIGHT DURATION: 5-7 HRS		
TIME OUT: 1340Z		TIME IN: 1815Z		BLOCK TIME: 4:35 HRS	
TIME OFF: 1349Z		TIME ON: 1812Z		FLIGHT TIME: 4:23 HRS	
PROPOSED PATTERN 1) AT 23K OVR WATER RUNS FOR NASA COLOR SENSOR 2) AT 12K WARM CLOUD PENETRATION FOR NNRL CLOUD PHYSICS 3) AT 12K, 12K, 23K CLO BOX FOR NNRL (SEE ATTACHED)					
ACTUAL PATTERN 1), 2) COMPLETED 3) BOXED CLO GP AT 10K & 12K - UNABLE TO LOCATE SUITABLE CLO IN TIME REMAINING FOR 23K BOX.					
FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
WIERLEY	METERVILLE	DAVIS		(NNRL) SHEETS	(NNRL) LEWIS
GUNNOE		MICHELIE		(AGML) MALL	(NNRL) WILLIS
SCHISSEL		COUNNER		(NASA) BLAINE	(NNRL) SCHRIKER
CIGIRELLI		WHEELER			(NNRL) TRUE
REMARKS:					

12T, FL 13-14K
SPENET IN WARM CLD

and

Mission is to obtain data at three levels about a well developed cumulus ocean cloud.



$A \rightarrow B \rightarrow C \rightarrow D \rightarrow A \rightarrow E$.

The legs of each box is a minimum of 3.5 min. at TAS 280 kts or faster at pilots discretion. First box at cloud base at approximately 1200 ft. Second box at inversion level at approximately 12,000 ft. Third box at 23,000 ft. All altitudes P.A. Boxes must be closed.

Requirements: Digitized INS ground speed, True Heading, Drift or Track, Rosemount temperature, CSI dew point, Sea Surface temperature, doppler winds, ground speed and drift, Pitch and Roll.

Cloud cameras and Radar camera.

X Drop Sound.

RFF - 2 WORK FORM (8 - 72)						FLIGHT ID 731005 F	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA						DATE OCT 5, 73	
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
		134845Z				
WX	STN.					
A/C	LAND	181141Z				
WX	STN.	1800Z	1013.6	29.4	23.4	120/05

HOURLY INFLIGHT DIGITAL DATA STATUS													
ITEM	HOUR	1400	2	3	4	5	6	7	8	9	10	11	12
TIME (CHECK)	✓												
AMBIENT PRESSURE	✓												
RADAR ALTITUDE	✓												
TRUE AIR SPEED	✓												
MAG. HEADING	✓												
D.T.C. GS	✓												
DRIFT ANGLE	✓												
WIND	✓												
TEMPERATURE (WORTX) T ₁₀	✓												
LONGITUDE	✓												
LATITUDE	✓												
LAH													
DIFFERENTIAL PRESSURE	✓												
J.W. LIQUID WATER	✓												
VARIATION	✓												
TEMPERATURE (RSMNT.)	✓												
C.S.I. DEWPOINT	✓												
I.R. SFC. TEMP.													

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

REMARKS

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

RFF - 3A WORK FORM
(8 - 72)U.S. DEPARTMENT OF COMMERCE
NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION
RESEARCH FLIGHT FACILITY
MIAMI, FLORIDA

FLIGHT ID

031005F

DATE

OCT 5 1973

ELECTRONIC SYSTEMS STATUS

PRE - FLIGHT STATUS:

OK

INFLIGHT OUTAGES:

TIME NOTEDSYSTEMCORRECTIVE ACTION

None

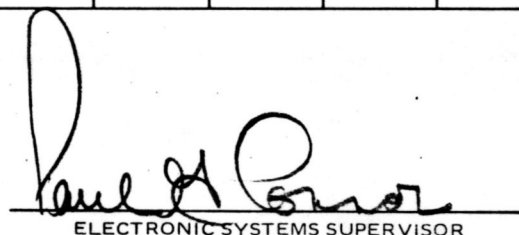
POST FLIGHT SUMMARY:

OK

APS - 20 RADAR INFLIGHT CHANGES

STC	DIAL											
	TIME											
150 ECHO	DIAL											
	TIME											
ANTENNA TILT	DIAL											
	TIME											
ANTENNA RPM	DIAL											
	TIME											
MAG CURRENT	DIAL											
	TIME											

REMARKS



ELECTRONIC SYSTEMS SUPERVISOR

RFF - 3B WORK FORM (8 - 72)												U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA												FLIGHT ID 031005F					
ELECTRONIC SYSTEMS INFLIGHT DATA LOG												DATE OCT 5 1973																	
INSTRUCTIONS: Make all entries in pencil. At Flight Termination, give completed form to the Flight Director. Initials of person checking equipment will be put in the columns if the equipment is operating normally. If the equipment is inoperative, put an x and elaborate on malfunction (i.e., time out, time restored, etc.) below. Check equipment every 30 minutes.																													
		00	13 30	14 00	14 30	15 00	15 30	16 00	16 30	17 00	17 30	18 00	18 30	00	30	00	30	00	30	00	30	00	30	00	30				
DIGITAL		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																
PRESSURES		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																
APN - 82		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																
APN - 80 APN 147		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																
WP - 101 APN - 59		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																
RDR - 1																													
RADAR ALT.		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																
TEMP. (VORTEX)																													
TEMP. (ROSEMNT)		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																
IRH																													
J.W. LIQ. WATER		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																
CSI DEWPOINT		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓																
OMEGA																													
REMARKS:																													

RFF - 4 WORK FROM (8 - 72) U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA DIGITAL STATION	FLIGHT ID
	DATE
	031005 F OCT 5, 1973

INSTRUCTIONS: Make all entries in pencil. At Flight Termination, give completed form to the Flight Director.

DIGITAL SYSTEM	TIME ON: 134600 Z	TIME OFF: Z	NO. OF TAPES:	RATE:
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INFLIGHT LOG

TIME RESET	TIME STANDARD USED FOR RESET	REMARKS
None Z		
Z		
Z		
Z		
Z		
Z		
Z		
Z		
Z		

REMARKS: (MALFUNCTIONS, RATE CHANGES, ETC.)

RFF - 5A WORK FORM (8 - 72)					FLIGHT ID 731005 F	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA					DATE 5 Oct. 1973	
PHOTO - OPTICAL STATION						
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	1355				1/2	4x50
RIGHT SIDE	1342	1800			1/5	193'
LEFT SIDE	1342	1800			1/5	193'
PHOTO PANEL	NA					
VERTICAL	NA					
ELAPSED TIME COUNTERS		TIME ON: 1.40000 Z		TIME OFF: 175500 Z		FINAL COUNT: 14100
APN WP-101 CAMERA	TIME ON 1356 Z		TIME OFF 175600 Z		LENS SETTING f/5.6	NO. OF ROLLS 1
APN54 WP-101 INFLIGHT CHANGES						
RATE	DIAL	24				
	TIME	1356				
RANGE	DIAL	30				
	TIME	1356				
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						

73100517

[illegible]

A/C COMMANDER		NAVIGATOR		A/C NO.		MISSION NO.		TIME AIRBORNE		LOCATION		DATE		PROJ. NAME	
WERLEY		SCHISSEL		41C		731005F		134900		Miami		5 OCT 73		AOMC NHRV	
TIME OF ENTRY	POSITION	CONF FACT	TYPE NO.	DOPPLER POSITION	LA LO CORR	STA OR REF POSN.	TRUE BEARING	RANGE OR READING	CORR	REMARKS					
1349 00	25-48.3 80-17.6	1	9	25-48.3 80-17.6											
14 1400	25-48 80-23	1	2	25 48 80 24		Port				25 - 46.9 80 - 23.3					
142452	25-46.9 80-14.9	1	9	25-49 80-16	-2 -1					START Run					
14 3130	25-41.1 79-46.1	1	9							END Run					
1440 03	25-40.8 79-45.5	1	9	25-44 79-52	-3 -6					START Run					
1446 35	25-46.9 80-13.2	1	9	25 49 80 18	-2 -5					END Run					
1454 40	25-38.3 80-07.0	1	9	25-41 80-10	-3 -3					START (East Run)					
1502 10	26-12.4 80-02.6	1	9	26-16 80-06	-4 -3					Mid Run					
1510 30	26-41.7 79-59.5	1	9	26-46 80-04	-4 -4					END Run					
1541 05	24-35.3 79-33.8	1	9	24-35 79-39	0 -5					C1A P1					
1544 23	24-37.7 79-32.2	1	9	24-35 79-39	+2 -6					C1A P2					
1548 23	24-35 79-32.4	1	9	24-35 79-39	0 -6					C1A P3					
1551 28	24-36.4 79-36.9	1	9	24-30 79-45	0 -8					CB P1					
1552 34	24-29.8 79-40.7			24 30 79 49	0 -8					CC P1					

TYPE OF FIX. (1) DR. (2) RADIO (3) CELESTRAL (4) VISUAL (5) LORAN (6) RADAR
(7) DOPPLER (8) OMEGA

CONFIDENCE FACTOR (Nautical Miles) (1-5,1) (6-10,2) (11-15,3) (16-UP,4)

A/C COMMANDER		NAVIGATOR		A/C NO.	MISSION NO.		TIME AIRBORNE		LOCATION	DATE	PROJ. NAME
TIME OF ENTRY	POSITION	CONF FACT	TYPE NO.	DOPPLER POSITION	LA LO CORR	STA OR REF. POSN.	TRUE BEARING	RANGE OR READING	CORR	REMARKS	
1556 01	24-28.4 79-43.2	1	9	24-29 79-50	0 -7					CD P ₁	
1556 34	24-29.2 79-41.5	1	9	24 30 79 48	-1 -6					CCP ₂	
1557 26	24 30.2 79 38.4	1	9	24 31 79 46	-.8 -7					CAP ₄	
1610 37	24-16.2 78-42	1	9	24-15.2 78-48	+57 -6					PTA	
1614 07	23-59.8 78-42.2	1	9	23-57 78-45						PTB	
1617 37	23-58.4 78-25.4	1	9	23-50 78-27						PTC	
1621 07	24-13.5 78-22.4	1	9	24-13 78-25						PDD	
1625 40	24-16.4 78-42.0	1	9	24-14 78-48	+2 -6					PTA	
1627 10	24-19.5 78-44	1	2				1632	89		24-20.4 78-43.8	
1628 10	24-19.7 78-40.2	1	9	24-15 78-45							
1633 44	24-01.8 78-29.1	1	9							PTC: PTD	
1640 31	24-00.7 78-26.3	1	9	23-58 78-33	+2 -7					PTC	
1644 01	24-16.4 78-26.4	1	9	24-15 78-34						PTB	
1647 40	24-21.1 78-42.5	1	9	24-19 78-51						PTA	

TYPE OF FIX. (1) DR. (2) RADIO (3) CELESTRAL (4) VISUAL (5) LORAN (6) RADAR
(7) DOPPLER (8) OMEGA

CONFIDENCE FACTOR (Nautical Miles) (1-5,1) (6-10,2) (11-15,3) (16-UP,4)

A/C COMMANDER		NAVIGATOR		A/C NO.	MISSION NO.	TIME AIRBORNE		LOCATION	DATE	PROJ. NAME
TIME OF ENTRY	POSITION	CONF FACT	TYPE NO.	DOPPLER POSITION	LA LO CORR	STA OR REF. POSN.	TRUE BEARING	RANGE OR READING	CORR	REMARKS
165110	24-08.1 78-45.1	1	9	24-05 78-53	+3 -7					PTB
165541	24-06.9 78-26.1	1	9	24-05 88-32	+2 -6					
170300	24-22.0 78-44.9	1	9	24-21 78-52	+1 -6					
172345	25-26.1 79-05.4	1	9	25-25 79-14	+1 -8					START Run
173202	26-05.9 78-52.9	1	9	25-58 79-06						TERMINATE
1744 18	26-12.2 78-51.3	1	9	26-02 79-08	+10 -17					START Run
1804 16	25-40 80-11	1	2	25-33 80-28	+7 -17	B S				25-42.8-2.8 80-11.4-.4
				FINAL						
				25-49.5 80-19.5						

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