

19751028FI. FDR

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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 751028F	
FLIGHT SUMMARY				AIRCRAFT N6541C	
				FLIGHT NO. 53-76	
				DATE OCT 27, 75	
TAKE OFF (CITY OR AIRPORT) MIA		LAND (CITY OR AIRPORT) MIA		ALTITUDE(S) 1500', 12K	
PURPOSE RESEARCH - NHEML - H6					
PROPOSED TAKEOFF TIME: 1630Z			PROPOSED FLIGHT DURATION: 5-6 HRS		
TIME OUT: 1635Z		TIME IN: 2105Z		BLOCK TIME: 4:30 HRS	
TIME OFF: 1639Z		TIME ON: 2056Z		FLIGHT TIME: 4:17 HRS	
PROPOSED PATTERN SEE ATTACHED PLWS 39C + 41C INTERCOMPARE AT 1200' 39C LEAD FOR 3MIN + 41C LEAD 3MIN AT 39C LEAD FOR 2MIN + 41C LEAD 3MIN 3 WIND BOXES					
ACTUAL PATTERN AS PLANNED					
FLIGHT PERSONNEL					
OPERATIONS CREW		SCIENTIFIC CREW		VISITORS	
GUNNOE	NETTERVILLE	DAVIS			(NOA) WILLIS
WIERLEY		CONNOR			(NOA) KNIGHT
SCHISSEL		MCFADDEN			(NOAA) GINN
CICIRELLI		SCHRIKKE			
REMARKS:					

☐ USE REVERSE SIDE FOR ADDITIONAL REMARKS AS NECESSARY.

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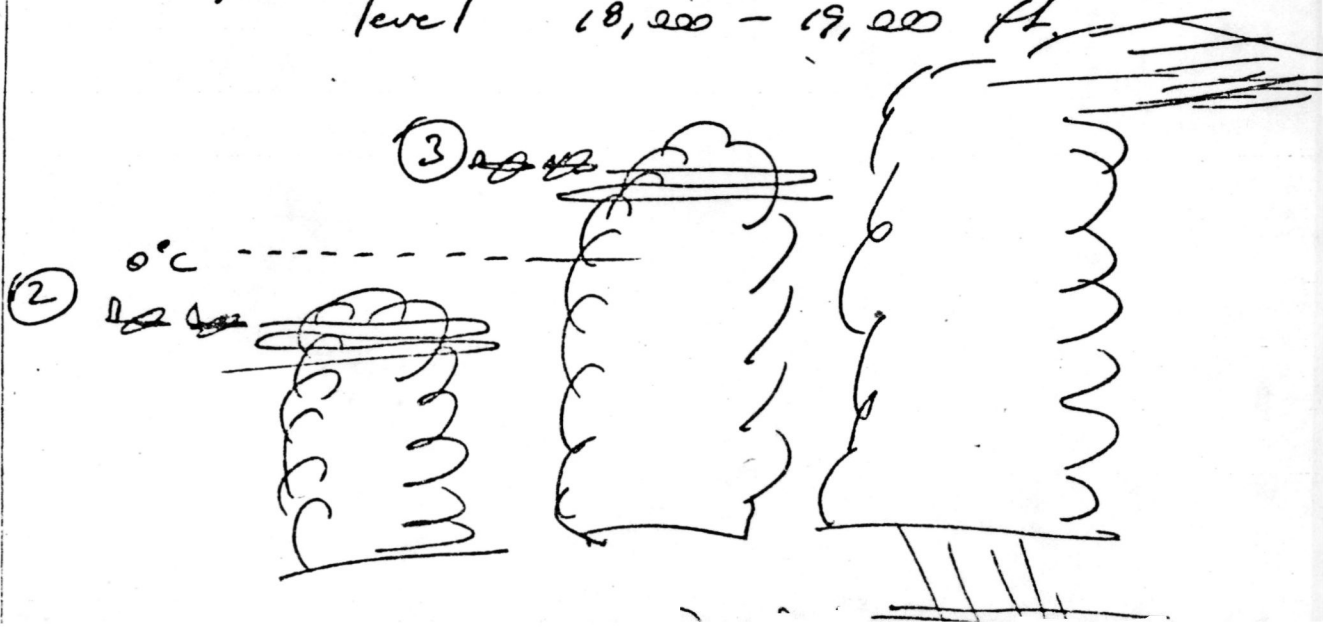
C-130, DC-6 Cloud Physics Intercomparison Flights

A. Purpose: To compare cloud physics readings in as nearly the same environment as possible in order to assess the effects of the C-130 exposures. Also to quantify the IPC performance in a large drop environment.

B. Operational Plan: To complete cloud penetrations with both aircraft as close together as ~~possible~~ as flight safety permits. Aircraft should alternate leads through the cloud.

Required in this order:

- 1) 4 passes through rain shafts
1500 ft
- 2) 6 passes through vigorous clouds that have not yet been above 0°C at 1000 ft below freezing level
 $\approx 19,000$ ft.
- 3) 4 passes through clouds at -12°C level 18,000 - 19,000 ft.



RFF - 2 WORK FORM (8 - 72)						FLIGHT ID 751028 F	
U.S. DEPARTMENT OF COMMERCE NATIONAL OCEANIC AND ATMOSPHERIC ADMINISTRATION RESEARCH FLIGHT FACILITY MIAMI, FLORIDA						DATE OCT 22, 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
		163850Z	1019.2	26.7	19.2	102/16
WX	STN.	1645Z	1018.3	28.9	22.8	190/14
A/C	LAND	205600Z	1015.7	27.6	19.5	094/04
WX	STN.	2057Z	1015.2	28.3	22.8	110/13

HOURLY INFLIGHT DIGITAL DATA STATUS													
ITEM	HOUR	1700	1800	1900	2000	5	6	7	8	9	10	11	12
TIME (CHECK)		OK	OK	OK	OK								
AMBIENT PRESSURE													
RADAR ALTITUDE													
TRUE AIR SPEED													
MAG. HEADING													
DRIFT GS													
DRIFT ANGLE													
WIND													
TEMPERATURE (VORTEX) HT, DY													
LONGITUDE													
LATITUDE													
I.R.H.													
DIFFERENTIAL PRESSURE													
J.W. LIQUID WATER													
VARIATION VW													
TEMPERATURE (RSMNT.)													
C.S.I. DEWPOINT													
I.R. SFC. TEMP.		NG											
TK, AD													
SA, AA													

✓ - 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 DIGITAL STATION		FLIGHT ID 751028 F	
				DATE OCT 28, 75	
INSTRUCTIONS: Make all entries in pencil. At Flight Termination, give completed form to the Flight Director.					
DIGITAL SYSTEM	TIME ON: 1638	Z	TIME OFF: 2056	Z	NO. OF TAPES: 1
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.)					

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

751028F

DATE

OCT 28, 1975

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	N/A				—	
RIGHT SIDE	164500	210200			1/5	
LEFT SIDE	164500	2100300			1/5	
PHOTO PANEL	N/A				—	
VERTICAL	N/A				—	

ELAPSED TIME COUNTERS

TIME ON:

165000

Z

TIME OFF:

204000

Z

FINAL COUNT:

13800

WP - 101 CAMERA

TIME ON

Z

TIME OFF

Z

LENS SETTING

f/

NO. OF ROLLS

WP - 101 INFLIGHT CHANGES

RATE	DIAL								
	TIME								
RANGE	DIAL								
	TIME								

TIME MAGAZINE
CHANGED

APS - 20 CAMERA

TIME ON

Z

TIME OFF

Z

LEN SETTING

f/

NO. OF ROLLS

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/

NO. OF ROLLS

RDR - 1 INFLIGHT CHANGES

RATE	DIAL								
	TIME								
RANGE	DIAL								
	TIME								
RECEIVER GAIN	DIAL								
	TIME								

TIME MAGAZINE
CHANGED

751A38F

165900-170200Z - INTERCOMPARE - 39C LEAD - PA 360M

171000-171300Z - INTERCOMPARE - 41C LEAD - PA 360M

TIME CHECK

41C = 170900Z 39C = 170908Z

171549-171629Z - RAIN SHEET PENETRATION - 41C LEAD

172118-172200Z - RAIN SHEET PENETRATION - 39C LEAD

172745-172830Z - RAIN SHEET PENETRATION - 39C LEAD

173136-173308Z - RAIN SHEET PENETRATION - 41C LEAD

} PA 450M

180558-180622Z - CLO PENET. - 41C LEAD - PA 3700 M

181225-181302Z - CLO PENET. - 39C LEAD - PA 3700 M

181645-181710Z - CLO PENET. - 41C LEAD - PA 3700 M

182546-182634Z - CLO PENET. - 39C LEAD - PA 3700 M

183056-183050Z - CLO PENET. - 41C LEAD - PA 3700 M

183737-183801Z - CLO PENET. - 39C LEAD - PA 3700 M

190607-190707Z - CLO PENET. - 39C LEAD

191048-191139Z - CLO PENET. - 41C LEAD

191857-191930Z - CLO PENET. - 41C LEAD

192606-192651Z - CLO PENET. - 39C LEAD

} PA 5500 M

193500-193800Z - INTERCOMPARE - 39C LEAD - PA 5500 M

194000-194300Z - INTERCOMPARE - 41C LEAD - PA 5500 M

WIND CALIB

1406

194620-194700Z

180

194830-194930Z

360

195030-195130Z

270

195300-195400Z

090

195500-195600Z

180

195750-195850Z

360

195950-200050Z

270

200250-200350Z

090

200410-200510Z

180

200630-200730Z

360

200820-200950Z

270

201030-201150Z

090

A/C COMMANDER	NAVIGATOR	A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
GRUNOZ	Schissel	411C	751028F		Miami	28 Oct 75	NKENC

TIME OF ENTRY	POSITION	TYPE	CONF. FACT.	INERTIAL POSITION	LAT. LON. COR'N	POSITION	LAT. LON. COR'N	REMARKS
1638	25-18.2	4		25-48.0				
02	80-17.6	10	1	80-17.1				
1659				26-19.3				
01		10	1	79-09.0				Begin Run
1702				26-23.4				
05		10	1	79-00.2				END Run
1701	26-35.0			26-33.3				
50	78-42.0	10	1	78-41.0				
1713				26-45.1				
05		10	1	78-36.7				
1715				26-43.8				
58		10	1	78-31.6				RAIN PASS#1 - SNARE
1727				26-40.7				
46		10	1	78-16.3				PASS#2
1731				26-39.7				
39		10	1	78-12.8				PASS#4
1805				26-08.3				
59		10	1	77-49.4				PASS#5
1812				26-08.2				
28		10	1	77-48.1				PASS#6
1816				26-09.6				
46		10	1	77-50.2				PASS#7
1825				26-05.4				
44		10	1	77-26.6				PASS#8
1829				26-08.9				
57		10	1	77-25.1				PASS#9
1837				26-07.3				
43		10	1	77-28.9				PASS#10

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)

A/C COMMANDER		NAVIGATOR		A/C NO.	MISSION NO.	TIME AIRBORNE	LOCATION	DATE	PROJ. NAME
TIME OF ENTRY	POSITION	TYPE	CONF. FACT.	INERTIAL POSITION		LAT. LON. COR'N	POSITION	LAT. LON. COR'N	REMARKS
1906 06		10	1	26-49.8 76-10.0					PASS#11
1910 48		10	1	26-52.6 76-04.6					PASS#12
1918 59		10	1	26-43.9 76-29.2					PASS#13
1926 06		10	1	26-47.0 76-30.4					PASS#14
1935 03		10	1	26-15.5 76-43.6					START INTERCOM
1940 02		10	1	25-57.3 76-47.1					START INTERCOM
2048 06	25-40.0 80-11.0	2/10	1	25-40.9 80-09.4		-9 +1.6	25-51.3 76-18.0		25-51.1 76-18.9
2059 35	25-48.2 80-17.6	4	1	25-41.7 80-16.7		-5 +9			G.S. 1.3

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)

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