

050722I

Lead Project Scientist

Preflight

- MB 1. Participate in general mission briefing.
- MB 2. Determine specific mission and flight requirements for assigned aircraft.
- MB 3. Determine from field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist unless briefed otherwise by field program director.
- MB 4. Contact HRD members of crew to:
 - a. Assure availability for mission.
 - b. Review field program safety checklist
 - c. Arrange ground transportation schedule when deployed.
 - d. Determine equipment status.
- ✓ 5. Meet with AOC flight director and navigator at least ^{2.5} 3 hours before take-off for initial briefing.
- ✓ 5. Meet with AOC flight crew at least 2 hours before take-off for crew briefing. Provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
- ✓ 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami).
- ✓ 7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
- ✓ 7. Make sure each HRD flight crew members have life vests
- ✓ 7. Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
- ✓ 8. Collect "mess" fee (\$2.00) from all on-board HRD flight crew members.

In-Flight

- ✓ 1. Confirm from AOC flight director that satellite data link is operative (information).
- ✓ 2. Confirm camera mode of operation.
- ✓ 3. Confirm data recording rate.
- ✓ 4. Complete Lead Project Scientist Form.
- ✓ 5. Check in with the flight director to make sure the mission is going as planned (i.e. turns are made when they are supposed to be made).

Post flight

- ___ 1. Debrief scientific crew.
- ___ 2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
- ___ 3. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
- ___ 4. Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
- ___ 5. Obtain a copy of the radar DAT tapes. Turn in with completed forms.
- ___ 6. Obtain a copy of the all VHS videos from aircraft cameras (3-4 approx.). Turn in with completed forms.
- ___ 7. Obtain a copy of CD with all flight data. Turn in with completed forms.
- ___ 8. Determine next mission status, if any, and brief crews as necessary.
- ___ 9. Notify MGOC as to where you can be contacted and arrange for any further coordination required.
- ___ 10. Prepare written mission summary using Mission Summary form (due to Field Program Director a week after the flight).

Lead Project Scientist Check List

Storm or Project Pre TD-7? Experiment name IFEX/Genesis
 Date 7/2/05 Aircraft 43RF Flight ID 050722I

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>Marty Maynard</u>
Radar	<u>M. Black</u>	Pilots	<u>Tom Shepherd</u>
Workstation	<u>Krystal Valde</u>		<u>Phil Kennedy</u>
Cloud Physics	<u>Aaron Bansaw</u>		<u>Bunny Choy</u>
Photographer/Observer	<u>—</u>	Navigator	<u>Mark Nelson</u>
/Guests			<u>Pete Siegel</u>
Dropwindsonde	<u>Krystal Valde</u>	Systems Engineer	<u>Terry Lynch</u>
AXBT/AXCP	<u>Aaron Bansaw</u>	Data Technician	<u>Damon S. Savel</u>
		Electronics Technician	<u>Olney</u>
		Other	<u>—</u>

B. Take-off and Landing Times and Locations:

Take-Off: 0003 UTC Location: MacDill
 Landing: 0820 UTC Location: MacDill

Number of Eye Penetrations: 0

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

D. Mission Briefing:

Pre TD-7? Genesis mission
no Mexican clearance, will fly at 12,000 ft
around Yucatan, E, N, some on W side. ~20
sondes, 3 AXBTs. See attached flight plan.

E. —Equipment Status (Up ↑, Down ↓, Not Available —, Not Used O)

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / Cds /Expendables/ Printouts
Radar/LF	✓	✓		
Doppler Radar/TA	✓	✓		
Cloud Physics	✓	✓		
Data System	Some Problems	✓		
GPS sondes		✓		
AXBT/AXCP	✓	✓		
Ozone instrument	—	—		
Workstation	✓	✓		
Videography	No nose	✓		

REMARKS:

00R(2)

Lead Project Scientist Event Log

Date 7/22/05 Flight 050722I LPS M. Black

Time	Event	Position	Comments
015047	ATIP Prop #1	21°45' 85°56'	Yucatan Channel
	WD - 120 -	31 kts	
015211	Descend to	12,000 ft	
020220	Prop #2		
021244	In E-W oriented ribbon		
021722	Prop #3	20°N 86°31'4"	
	WD 1500	20 kts	
023243	Prop #4	19° 86.83°	Between bands
	WD SE 15 kts		
0245	Prop #5	In ribbon 18° 87° W	
	WD E @ 15 kts		
0246	Radar Power		
0254	In vigorous convection		
025600	Prop #6	South west 17° 23° 87°	
0300	Putting short SE point to catch up		
	W/ER2		
031008	Prop #7	0310 1754 86°24'	Between bands
032000	Turn to north		
032300			
032457	Prop #8	14°30' 85°42'	
	Turn to NW to intercept		
0329	ER2 just heaving up	~65 miles	
0339	19°30' 86°19'	Prop #9 - No wind	
034130	gt Sigma	1941 86°21'	
034301	Prop #9b	1945 86°26'	
0350	Prop #10	2030 86°13°	
0356	Continuous - 9 miles	Ted	

Street Rm

0324

17.29
85.43

0340

0346 - Sigma

Lead Project Scientist Event Log

(2)

Date 7/22/05 Flight OS0722T LPS M. Black

Time	Event	Position	Comments
041139	Drop 11	W 5pt 21° 52'	
	Turn to W	86° 1.8"	
	WD 140°	31 Kt	
042233	Drop 12	21° 53' 87° 04'	120° 30 Kt
	All clear	North of Yucatan	
04416	Radar Down		
04424	Radar Up		
044322	Drop 13	21° 53' 88° W	110° 25 Kts
044631	Drop 14	21° 53' 89°	130° 25 Kts
04465	Radar Down		
045833	Drop 15		
05009			
051006	Drop 16	21° 49' 91° W	73° 31 Kts
052000	Drop 17	10° 50' 91° W	60° 15 Kts
053620	Drop 18	20° 92°	50° 15 Kts
	NE winds	10-15 Kts	W of Yucatan
055000	20° 91° W	Winds Now E. ESE at 10-15 Kts	
0554	Turn to north	near west coast of Yucatan	
055410	Drop 19	20° 40' 46'	120° 10 Kts
060708	Drop 20	21° 90' 22°	110° 15 Kts
0620	Landing	Maced.	

AFBT
 2304
 AFBT
 2000

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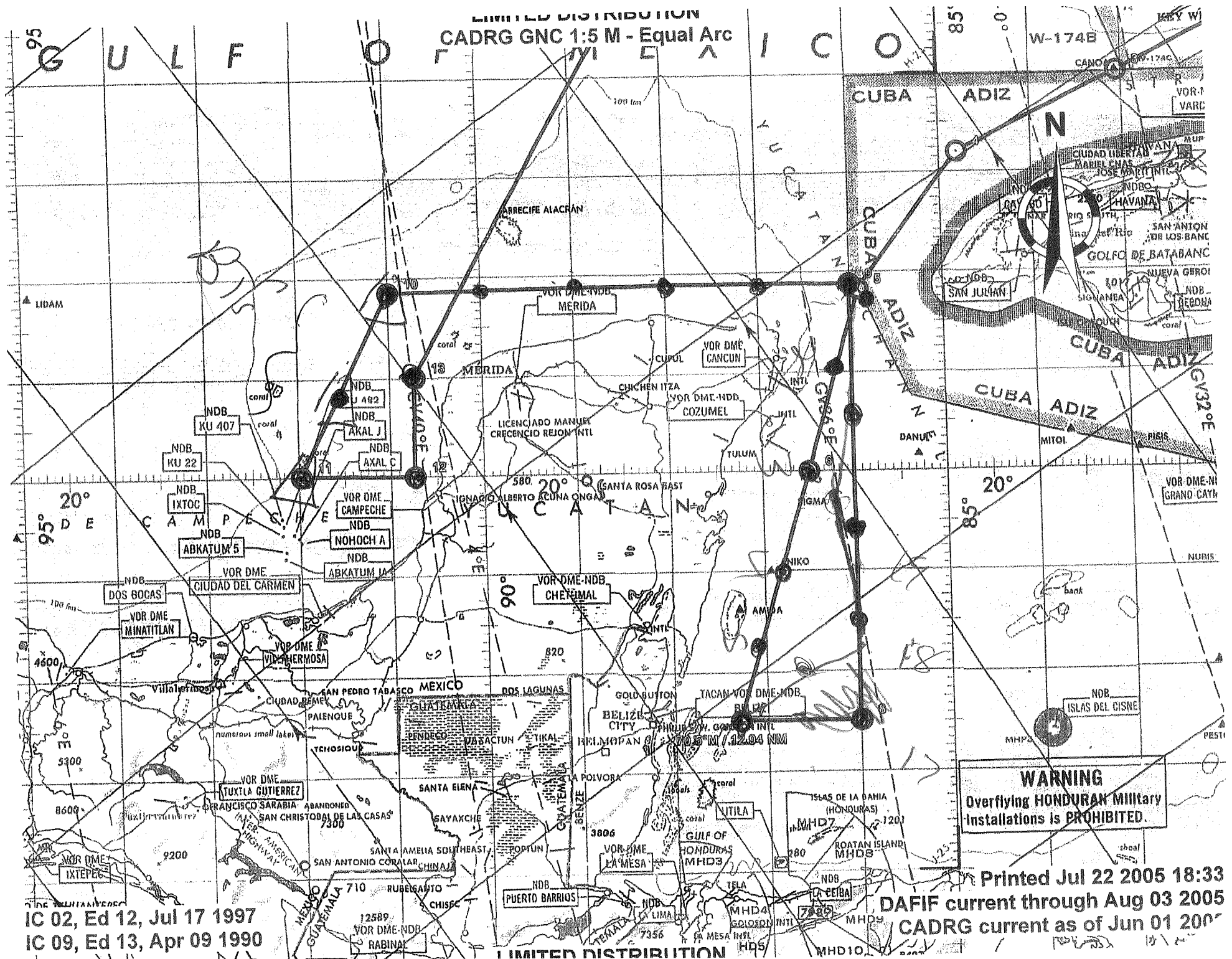


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