

m. Black

030819I CBLAST Test Flight

E.2 Lead Project Scientist

E.2.1 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 filed program safety checklist
 - c. Arrange ground transportation schedule when deployed.
 - d. Determine equipment status.
- MB 5. Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
- MB 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.
- MB 6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami).
- MB 7. Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
- MB 8. Perform a radio check with headsets. Make sure everyone's headsets is work properly.
9. Collect "mess" fee (\$2.00) from all on-board HRD flight crew members - *no food today*

E.2.2 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 Form E-2.
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).

E.2.3 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. Determine next mission status, if any, and brief crews as necessary.
6. Notify MGOC as to where you can be contacted and arrange for any further coordination required.
7. Prepare written mission summary using form E-2 p.3 (due to Field Program Director 1 week after the flight).

Lead Project Scientist Check List

Date 8/19/03 Aircraft 43 Flight ID 030819T

A. — Participants:

CBLAST Test Flight

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	<u>M. Black</u>	Flight Director	<u>Berry Deanland</u>
Cloud Physics	<u>None</u>	Pilots	<u>Tennessee, Repro Tebes</u>
Radar	<u>Rob Rogers</u>	Navigator	<u>Carl Newman, After After</u>
Workstation	<u>None</u>	Systems Engineer	<u>Dewey</u>
Photographer/Observer	<u>None</u>	Data Technician	<u>Jeff Smith</u>
Dropwindsonde	<u>Eric Vithorn</u>	Electronics Technician	<u>Terry Lynch</u>
AXBT/AXCP/Guest	<u>Rob Rogers</u>	Other	

Take-Off: 1509 Location: McDill Landing: 2020 Location: McDill

Number of Eye Penetrations: _____

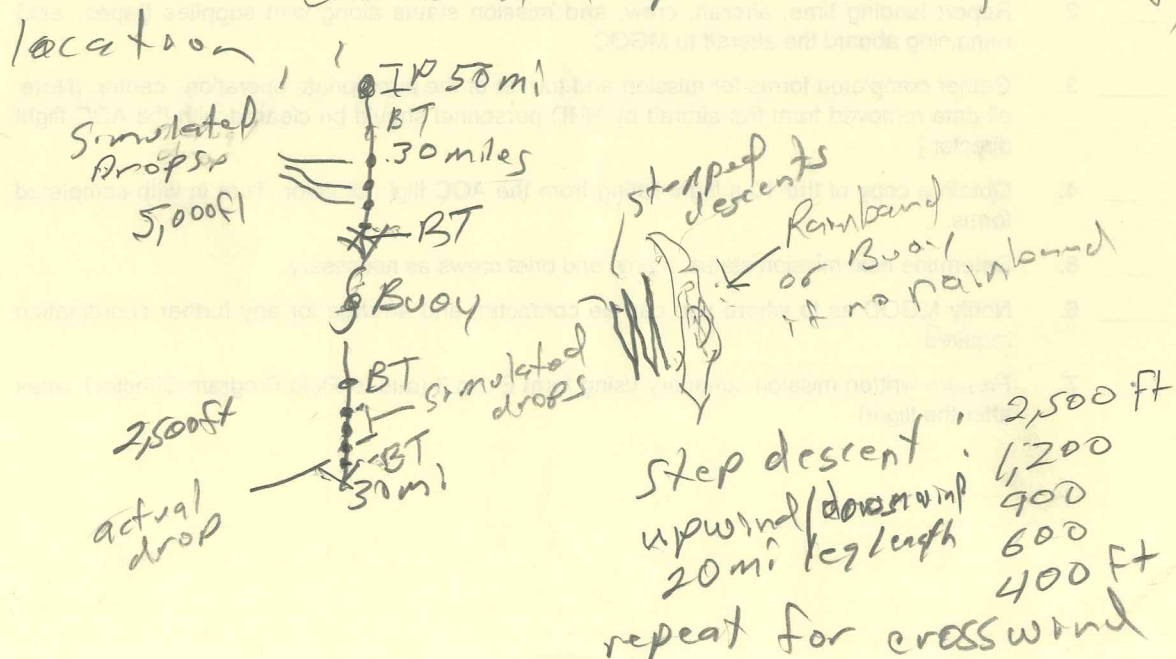
B. — Past and Forecast Storm Locations:

None, Buoy 43003

Date/Time	Latitude	Longitude	MSLP	Maximum Wind

C. — Mission Briefing:

Coordinated pass through Buoy



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

Equipment	Pre-Flight	In-Flight	Post-Flight	# of DATs or Expendables
Aircraft	✓	✓		
Radar/LF	✓ start 1518	Reflected ties ~ 15 dBZ low		
Radar/TA (Doppler)	✓			
Cloud Physics	—			
Data System	✓			
GPS sondes	✓			
AXBT/AXCP	✓			
Workstation	No			
Videography	✓			

REMARKS:

Lead Project Scientist Event Log

Date 8/19/03 Flight 030819I LPS M. Black

Time	Event	Position	Comments
155500	Descend to IP		
155700	right turn to IP		Coordinating w/42
160530	IP 50m N	26.97 85.94	5,000 ft
161048	AXBT	26.47 85.93	
161056	Sim. Sonde	" "	
161130	Sim Sonde		
161157	Sim Sonde		
161238	Regl Sonde	-late out	WS 5-7 Kts 270°
161309	AXBT #16		
161812	at Buoy	25.89 85.92	-42 2 1/2 minutes behind
162030	Begin circling in 11e911		
163051	at Buoy - begin Southbound leg		
163333	180° Track Southbound		
163523	AXBT	25.70 85.91°	
163553	Sonde	25.67 85.91°	G/2554
163620	Sim Sonde	25.64 85.91	Seq - SFC
163649	Sim Sonde	25.61 85.91	
163722	AXBT	25.58 85.91	-r
164900	Pickup cloud - SFC		
165659	descend to 2500'	25.6 85.07'	
170059	turn to left - downwind parallel band		
170130	downwind leg	25.8 84.88	-2500'
170320	Just above Cu cloud base - 42 1/2 miles		
170758	right turn descend to 1200'		
170957	level at 1200' below cloud base		
171223	Track 150° to avoid cell		
171453	Right turn descend to 900'		

1639
end →
ok
S. leg

42
ahead →
no
good

fit
level

25.45
84.50
50
↑
IP
inside
of small
rainband
for
stopped
descent

Lead Project Scientist Event Log

Date 08/19/03 Flight 030819I LPS M. Rick

Time	Event	Position	Comments
171625	900 ft downwind	25.28 84.91	level, slight chop
172136	end of leg - turn left		descend to 500'
172400	600' Run	140° hdg	WD 330° 2-3 kts
172900	right turn		descend to 400'
173100	600' level	25.69 85.05	downwind
17345	New IP for X-wind	125° 40' 85.15W	
	rain band changed orientation - adjusting		
173640	right turn		
1737	descend to 200 ft		
173900	begin leg	at 200 ft	WD 330° 2-3 kts
174413	Ascend		slight chop
		to 2500'	
174518	Turn to 270°	to IP #2	- crosswind
1748	2500' towards IP	WD 140°-190°	2-3 kts
1749	right turn		
175321	42 right above us	- track 040	- IP #2
175510	2500' X-wind	25° 79' 85.10	- 42 with u1
180250	end 1st X-wind	descend 1,200 ft	220° outbound
180500	1200 ft run	26.15 84.88	
180955	End 1200	descend to 900'	- 42 kts to meet
181200	begin 900' run		- slight chop
181200	end 900' run	left turn	descend to 600 ft
181900	begin 600' run	Trk 150°	WD 50°-70° 6 kts
182350	left turn to 400'	25.86 85.14	040° Trk
182550	400' leg		
1830500	reat turn	descend to 200'	
183320	200 ft hdg	26.11 84.91	-

WIP
110-120
4-5 kts
25° 45'
85.00
IP
For
Cross
Wind

X-wind

outbound
kts to meet
6 kts

end
cross
word

[illegible]