## Lead Project Scientist

Storn	n or P	roject TS Por Experiment name TPR
		20 KONGHI Mission ID
Prefli	ight	
6	1.	Participate in general mission briefing.
	2.	Determine specific mission and flight requirements for assigned aircraft.
	3.	Determine from AOC flight director/meteorologist whether aircraft has operational fix responsibility and the mission designation.
-	4.	<ul> <li>Contact HRD members of crew to:</li> <li>a. Assure availability for mission.</li> <li>b. Review field program safety checklist</li> <li>c. Arrange ground transportation schedule when deployed.</li> <li>d. Determine equipment status.</li> </ul>
~	5.	Meet with AOC flight director and navigator at least 3 hours before take-off for initial briefing.
_/_	6.	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.
	7.	Report status of aircraft, systems, necessary on-board supplies and crews to MGOC in Miami.
	8.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.
	9.	Make sure each HRD flight crew member has a life vest.
	10.	Perform a headset operation check with all HRD flight crew members. Make sure everyone can hear and speak using the headset.
In-Fli	ght	
<u> </u>	1.	Confirm from AOC flight director that satellite data link is operative (information).
	2.	Confirm camera mode of operation.
	3.	Confirm data recording rate.
1	4.	Complete Lead Project Scientist Form.
<u> </u>	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 f	light	
~	1.	Debrief scientific crew.
	2.	Gather completed forms for mission and turn in to data manager at HRD.
	3.	Obtain a copy of the 10-s flight listing from the AOC flight director. Turn in with completed forms.
	4.	Obtain a copy of the radar DAT tapes. Turn in with completed forms.
	5.	Obtain a copy of serial flight data on thumb drive. Turn in with completed forms.
[Note: all	data rem	noved from the aircraft by HRD personnel should be cleared with the AOC flight director.]
	6.	Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to MGOC.
1	7.	Determine next mission status, if any, and brief crews as necessary.
V/	8.	Notify MGOC as to where you can be contacted and arrange for any further coordination required.
<u></u>	9.	Prepare written mission summary using Mission Summary form.



Lead Project Scientist Check List

Storm or Project TSDon	Experiment name
Flight ID	Mission ID 0304 ADON

**A. Participants:** 

HRI	0	AOC	
Function	Participant	Function	Participant
Lead Project Scientist	Rogers	Flight Director	Sears
Radar/Workstation		Pilots	
antipital inter any Bey Plan			Neuman Martin
e febre. Preste orașe el fi	Gamache	Navigator	kidder
Cloud Physics		Systems Engineer	Bosto
Photographer/Observer		Data Technician	<u></u>
/Guests			Olver
Dropwindsonde	Prags	<b>Electronics</b> Technician	
AXBT/AXCP		Other	

**B.** Take-off and Landing Times and Locations:

Take-Off: 1955 UTC Location: FMcF 21 Landing: \_\_\_\_\_UTC Location: \_\_\_\_

Number of Eye Penetrations: \_\_\_\_

## **C. Past and Forecast Storm Locations:**

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
	terrare) no bee	al mericina di successi di successi	ber side ber ingester erfaktion	
	in inportant days	el - marce nel	it periods for the state of	
		ele el come cerus el el el		
			an indiana antara	
		el Transie de Carlos de Ca	This grades goat mean of	

D. Mission Briefing: Fly TDF mission into TS Ary. 105 nm leg lengths, 8000 Ft. pressure Drops at allerd and midprints, phis at fund on 12 and 30 pass. Also curtir drops on first and third pass. Drop BT is at end, mid-, and fully points on Erstand third Pass. IP is 105 hm at 60° azimuth. If present, drop souths across are dougl. Also if possibles Aug wellited convertie burst would be near cuch a By stem. Fly 2-4 passes within 5 nm form convertice system, leg length ~ 30 km.

## Lead Project Scientist Event Log

Date \_\_\_\_\_ Flight ID \_\_\_\_\_ LPS \_\_\_\_\_

Time	Event	Position	Comments
2121	Autern	At 1P, 25.568	1,43 transford
2147	obs		g PL winds about 20 6F,
		forit	SF about 4010t
2153	obs	24.2191,41	lightung, world carts TA radar ison dawn for
2224	status	past SW point	TA radar been dawn for
	and the second second		whole leg, commestin
			AVAPS & WIS down but
			ANAPS working
0159	land	(chcf	land at Mac Dill

212 24.9 91.3

## **Mission Summary** Storm name YYMMDDA# Aircraft 4\_RF

Scientific Crew (4 RF)
Lead Project Scientist Kyers
Radar Scientist Gamade
Cloud Physics Scientist
Dropwindsonde Scientist_Rogers
Boundary-Layer Scientist
Workstation Scientist_ Rogers (Gamache
Observers

Mission Briefing: (include sketch of proposed flight track or page #)

Bee previous

Mission Synopsis: (include plot of actual flight track) Plew first legrand with of se and kg. System was still experiencing shear, and writer don't slowed tilt, store convection with much lighting at outer and south of contract PL), store is intensifing infortunately TOK menter worked except for first part of first leg, with prospect for kepur TOK menter warked except for first part of first leg, with prospect for kepur before west flight marking missions were analled and this mission before west flight marking missions were analled and this mission before west flight marking missions were analled and this mission before west flight marking missions were analled and this mission

Because of TOR failure mission was not accomplished. Props worked reasonably well (9/12), BT's mostly worked well.

Problems: (list all problems) TO Fout, communication blu Asther station out until end of Right, so had to be anypensated by using flash drives

Expendables used in mission:

GPS sondes :	12
AXBTs :	12
Sonobuoys:	