Lead Project Scientist

801-455-3202

Storn	or P	roject Skar Experiment name DR ISRA				
Fligh	t ID	00916H1 Mission ID WX13A Kar 17				
Prefli	ght	NATURE OF STREET				
0	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.	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 3 hours before take-off for initial briefing.				
V	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.				
V	7.	Report status of aircraft, systems, necessary on-board supplies and crews to MGOC in Miami.				
7	8.	Before take-off, brief the on-board GPS dropsonde operator on times and positions of drop times.				
0	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					
/	1.	Confirm from AOC flight director that satellite data link is operative (information).				
	2.	Confirm camera mode of operation.				
1	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 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: al	l data rei	moved 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.				
~	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.				
-/	9.	Prepare written mission summary using Mission Summary form.				

Lead Project Scientist Check List

Storm or Project Karl	Experiment name PI/TOR		
Flight ID 100916H1	Mission ID WY (3 & Karl 7)		

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	Rogers	Flight Director	Sears/Plakerty/willia
Radar/Workstation		Pilots	Newman / Kibby
	Corsolo	Navigator	Bralos b
Cloud Physics	Carry and the col Market	Systems Engineer	Bosko
Photographer/Observer /Guests		Data Technician	
Dropwindsonde	Marillo	Electronics Technician	
AXBT/AXCP		Other	

B. Take-off and Landing Times and Locations:

Take-Off: 1537 UTC Location: Mac Dill

Number of Eye Penetrations: 3

C. Past and Forecast Storm Locations:

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
	A Section of the Committee of the Commit	over the Table TAG selection	Led Douglas considers	
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	Marie 1975) and all objects	1888 A		Market Street
	normal area years supre-	and the state of t	estal guilland treats.	
er de examina	Walter or as in	es band have yet W sastely as	imales treas goaggestalls	

D. Mission Briefing: Fly a BI/TOR mission, its Hurr. rane Karl, which has emerged from the Yucatam peninsula after having refained its inver core and in fact strengthening its core. Ply butterfly pattern, 100 nm lgs, IP on NE side end up on E side. Oraps on turn prints, mid points, eyewall, and 1st and 3th center passes. System is rapidly setting better organized, possibility for RI over next Zuh. Mission will be coordinated vitu DC-8, plobal Hawk, and WB-57. C-1V is also flying a star pattern.

Lead Project Scientist Event Log

Date 9/16/10

Flight ID 100916H LPS Rogers

Time	Event	Position	Comments
1537	taleg Ff	Mec Diy	+60
1710	065	constal Gulf,	passing near several
		24.63, 88.41	isolated cores of
		Self-App Contact of Self-App App App App App App App App App App	deep anvicetion, associ
ggamene nen-nencanhennenan	dos circi par considerativa del casa e en escala del casa con considera del casa del considera del casa del cas	vith ow	ter spiral bound ofter 1
1917	pattern	eP,N	mais 8 studies 1-
1818	dropl	100 AM NE storm	FOURION PTG
827	obs	So nm NEctr	high ref on UF, ~50+ ds
829	drop 2	50 MM NE	ir american enosO [24, 25, 25]
8 40	drop 3	NEeyewall	peak Fligold, SF68
842	dropy	center	Azat 19°40'93°19' at 1843
845	drop 5	5 w eyerall	pak FL 60kg SF 55
350	drop 6	And pt of outours	2277430398
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857	pattern	outhound leg My	outbrund by cut to
	V	65 nu from chr	70 nm, next mbound on
			SE side is 61 nm
904	drop 7	SW torupt, ~	
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917	drap 8	at SE two point	
922	055	inbound 5 £ kg	notion from Af \$74
			+ N844 1845 EX
			289/8
924	drop 9	and print of sEleg	
979	dragio	Feywall Aw eyewall	peak FL 64, SF 65 let
934	drapil	An exemal	peak FL 85, SF 68 let Structifor on sweld on Nu
940	065	40 mm NW Str	Structifor my sweld on Nu

Mission Summary Storm name YYMMDDA# Aircraft 4ZRF

Scientific Crew (47RF)

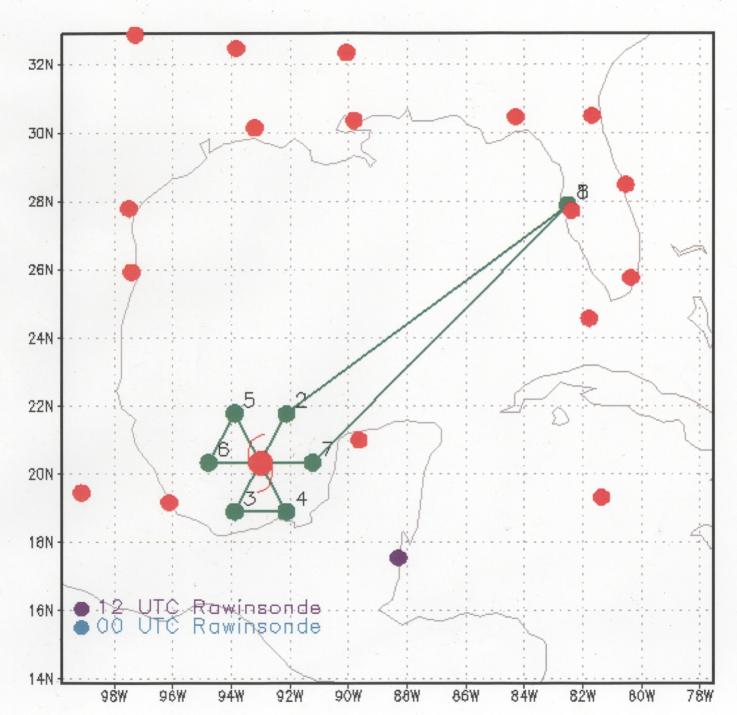
Radar Scientist Lorsols

Dropwindsonde Scientist Murillo

Cloud Physics Scientist_

	Boundary-Layer Scientist Workstation Scientist Observers
Mission Briefin	ng: (include sketch of proposed flight track or page #)
Se	e previous
Mission Synops	sis: (include plot of actual flight track)
while we were out the were 85 to on NW s Evaluation: (di Experiment old andyses performed, all undyses were able to capt	s: <u>20</u>

WKIBA Karl7



12 mile stand off



Local forecast by "City, St" or "ZIP"

tornoto vorcione

Alternate versions Text-only | PDA | Cell

Get Storm Info
Satellite | Radar
Aircraft Recon
Advisory Archive
Experimental
Mobile Products
E-mail Updates
Audio/Podcasts
GIS Data | RSS

Marine Forecasts
Atlantic and E Pacific
Analysis Tools
Gridded Marine
Help with Marine

Help with Advisories

Hurricane Awareness
Be Prepared | Learn
Storm Surge
Frequent Questions
Research
Hurricane Hunters
Saffir-Simpson Scale
Forecasting Models
Glossary/Acronyms
Storm Names
Breakpoints

Hurricane History
Seasons Archive
Forecast Accuracy
Climatology
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Page last modified: Thursday, 16-Sep-2010 12:25:04 GMT

WTNT43 KNHC 161224

TCDAT3

TROPICAL STORM KARL SPECIAL DISCUSSION NUMBER 8
NWS TPC/NATIONAL HURRICANE CENTER MIAMI FL AL132010
730 AM CDT THU SEP 16 2010

AN AIR FORCE RESERVE HURRICANE HUNTER AIRCRAFT FOUND THAT KARL WAS SOUTH OF THE PREVIOUS FORECAST TRACK BY ABOUT 30 N MI. THE PLANE MEASURED A CENTRAL PRESSURE OF 987 MB...WITH FLIGHT-LEVEL AND SFMR WINDS SUPPORTING AN INITIAL INTENSITY OF 55 KT. THIS SPECIAL ADVISORY IS BEING ISSUED TO SHIFT THE FIRST 36-48 HR OF THE FORECAST TRACK SOUTHWARD AND TO SIGNIFICANTLY INCREASE THE INTENSITY FORECAST.

FORECAST POSITIONS AND MAX WINDS

INITIAL		19.7N 92.2W		
12HR VT	16/1800Z			
24HR VT	17/0600Z	20.5N 94.5W	W 75 KT	
36HR VT		20.8N 96.8W		
48HR VT	18/0600Z	21.0N 98.5W	W 75 KTINLAND	
72HR VT	19/0600Z	21.0N 101.0W	W 25 KTINLAND	
96HR VT	20/0600Z	21.0N 103.5W	W 20 KTPOST-TROP/REMNT LOW	
120HR VT	21/0600Z	DISSIPATED	D	

\$\$

FORECASTER BEVEN

290/9-0

270/10