Lead Project Scientist

	roject ALYY Experiment name GENESIS (NAC INVEST
	2016082811 Mission ID NOAA3 OF EEA INVEST
Preflight	
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.
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-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.	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 re	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.
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 AL 99 Experiment name GENESIS (NHC INVEST)

Flight ID 2016 0828 I 1 Mission ID NOAA3 05 EEA INVEST

A. Participants:

HRD		AOC	
Function	Participant	Function	Participant
Lead Project Scientist	Zawislak	Flight Director	SEARS / WILLIAMS
Radar/Workstation	ANNANE .	Pilots	3-
			KERNS / ABITEL
2 May 1 and		Navigator	GALLAGHER
Cloud Physics	rich band a grass, r	Systems Engineer	LYNCH
in a Charlespan State	To respond to the	Data Technician	MASCARO
Dropwindsonde	ZAWISLAK	Electronics Technician	
AXBT/AXCP		Other	
Photographer/Observer			
s/Guests			HEREITY-WE-F

B. Take-off and Landing Times and Locations:

Take-Off: 1703 UTC Location: MACPILL

Landing: 0038 UTC Location: MAC DILL

Number of Eye Penetrations: _____

C. Past and Forecast Storm Locations:

ASCAT PASS E CLEAR LOW-LEVEL CIRCULATION. K NHC FORECAST POSITION VDM

Date/Time	Latitude	Longitude	MSLP	Maximum Wind
28 /02512	23.2	-79.5	N/A	NIA
28/18002	24.0	-81.9	NA	N/A
28/19452	23.8	- 81.8	The same	
28 /21422	23.5	-81.9	1009	464 (SEMP HERVY
	N. O. I. S. V. S.			

280/607

D. Mission Briefing:

INITIALLY NHC TASKED INVEST MISSION TO CLOSE OFF ANY LOW-LEVEL CACUTTION ASSOCIATED W/ ALGO. FL WKL BE 1500 FT. THE PERMITTION AFTER RELEASE FROM WHC, 2 OPTIONS, AND/OR, IF PRECIP, THEN FICY AT 10 KET; ALSO IF NO PRECIP, OR TIME PERMITTIO, CLUBS TO AS LICH AS POSSIBLE FOR LAUNMANIER GOS WEST OF WAVE TROUGH TO SAMPLE SHEAR AND ORK AIR.

SHENZ (SHIPS, 00): 18KT/3310

Storm or ProjectAL99	Experiment name GENESIS (NUC INV	EST)
Flight ID _2016082814	Mission ID NOAA3 OS EEA INVEST	

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

Equipment	Pre-Flight	In-Flight	Post-Flight	# DATs / CDs /Expendables/ Printouts
Radar/LF	= 1= 10 1 100 TO	1. 42.44	In '5 sa	
Doppler Radar/TA	+	1	2.16	
Cloud Physics	MARIA	T. THEW WHEN A DE	No. 2 3 50	
Data System	1	1	New ar	
GPS sondes	1	1	aluni I au	
AXBT/AXCP	N/A	N/A		
Ozone instrument	N/A	N/A		
Workstation	1	1		
Cameras	1	1		

REMARKS:

Lead Project Scientist Event Log

Date 20160 928 I1 Flight ID LPS ZAWISGE

4. (0.16)	ed av Alesiden ne i	er James James James	uddmengatpTR	
Time	Event	Position	Comments	
17037	T/O.	Produced	lasensmad	
17502	IP/DELTA	2503'50"/82056'9"	IP FIRST OF EVE LEG	
1832 7	PT 2/ DEUTA	250005/802452	PT 2, TURN SW DWARPS CTR	1500 FT
19422			CONVECTION EAST OF CTE, EUEN OVER CTE, SSICET	
19002	Conter a mused west	230 54'30 / 31" 59'0"	WEAR FOST POS. LICHT NE WINDS	1000 FT
1917 Z	PT 3 / PEUTA	23°26' 25" / 82° 58' 0"	THENHE EAST ALONG CUBA ADIZ	
P1342	PT4/DELTA		ECHO TOPS VIOLENTA TO SOUTH	
	4	23°3('57/81047'	THEN HELD TOWARD CIPY LEGIT WEST	NINES NINES
	PT5	Alt .	Gum RETURNS IN TA TO	
19422	ETR	230 551 / 810 31	SOUTHERLY NOW WEST	TO MAKE NW
19522	TURN AT PT 5/DECTO	24021/82081	GOING TOWARDS SW FOR CTR PAIR	Toje
	CTR	230441 /810421	MANEUVIEINS TO CENTER	23.7/81.70
20102	PTG/PEUTB	230341 / 81071	THE MATH TO SOME WEEK	H.
20232	PT7/DECTA	240 251/910 91	WEN BOCK FOR NE +3W PASS	BELIG 1000
2039 2	CTR	23°43' / 91° 47'	NER CENTE	
2055 2	PT & 10EUSP	230271 / 820121	NEWED TO GOST	-
21172		23°57'/81°49'	decising to chare brother ne-in	
21322		240/820	INSTEM NW TO SE	
21402	CTR	270 361/810 56	CAK - NO TO SE CONVECTO	
2150 2			GONG EAST IN SEQUAD NURTH	
51235			COMING ABOUT FOR END POST	
22132			LIBROING TOWARD, PREMICH CON.	
		\		
22542	Sanor 1	· 24 N/84W	LEGI - WEST-EAST	
23062	Sonoe 2	241 / 83W	LEGI - WEST - EST	
2316 7	SONDE 3	24N/82W	LEG L - WEST - EAST	1
2328	SONOR 4	25 N/92W	LEG 2 - EAST - WEST	

END OF NHC TOOKING ~2230Z

Lead Project Scientist Event Log

Date	Flight ID Zac 0978 IL	LPS ZAWISCAK
------	-----------------------	--------------

Time	Event	Position	Comments
2338	SUNDE 5	25 N / 83W	LEG 2 - ENT TO WEY
2348	SONOE 6	25 1 844	LEG 7- WEST TO BOST
2359	SUNDE 7	26N/89W	LEG 7- WENT TO EAST
0010	SONOR 8	20 H/83W	LEG 3- WEST TO EAST
T. E.			
- T - T -			
	V - 1		
		The state of the s	
171			
,^			
	1-		

2-5 250 m²

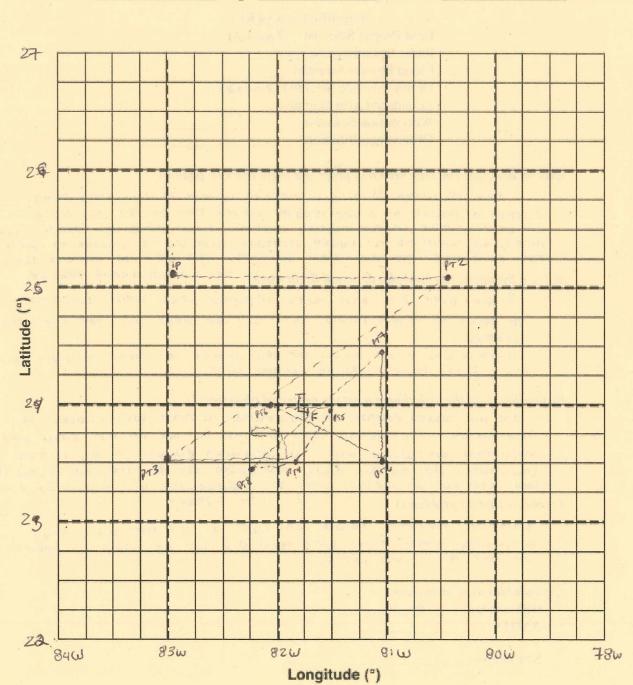
1 N

04/24

92/24

Observer's Flight Track Worksheet

Date _____ Flight ____ Observer



Mission Summary Storm name

YYMMDDA# Aircraft 43RF

160828

Sonobuoys: _

0 .			(ADD)
Scient	titic	(rew	(4RF)

Scientific Crew (+1d)
Lead Project Scientist Zawiscak
Radar Scientist ANNANE
Cloud Physics Scientist
Dropwindsonde Scientist Zawiscak
Boundary-Layer Scientist
Workstation Scientist
Observers (affiliation)
Mission Briefing: (include sketch of proposed flight track or page #)
THIS WAS INTRICT ON NHC TASKED INVEST MISRUM INTO ALQQ.
A SERIES OF PASIES AT ~1000-1500 FT CLOSED THE CENTER AND PROJOED A 217
FIX OF NOW TO 9 IN THE FURIND STRUTTS. ONCE PEUENSED FROM TASKING
THE ENLICHMENT TO THE WEST OF TO 9. THIS WAST TO SAMPLE BOTH THE
THE CANDIDATION OF THE STATE OF THE TOTAL THE
Mission Synopsis: (include plot of actual flight track) DRY AIR AND SHEAR PROFICE.
8 ORUNI OVER 25 EAST - WEST ORIENTED LECS WERE EXCLUSED WI ORIES
AT TURNS AND MIDDLE POINTS. WE GUT ONE DRUP JUST WIRTH OF THE CENTER.
MUMITINE WAS DECENT THROUGH THE TROPOSONERS TO SOUND, THEN OR ABOVE.
Evaluation: (did the experiment meet the proposed objectives?)
THE NHC TASKED PORTON WAS SUCCESSFUL IN THAT WE CLOSED THE
CIRCULATION. OUR PORTION WAS A BONUS AS WE PIP NOT KNOW HOW
MUCH TIME WE WOUN HAVE. WE DELGANDED PLONNED A FIG. 4 THEN
LOWINDWER, BUT THE TIC. 4 WAS ABONDONED RUE TO TIME AND GIVEN HOW MICH
WORK COVERNIE WE AIRESON HAD THE LOWNHOWER WAS FLOWN SUCCESIFICH
Problems:(list all problems)
NO MAJOR PROBLEMS. POWER WAS LOST ON THE ALC ON LONDING
SWITCHOVER, WHICH MEDNS DATO TECH DID NOT GET DAYS OFF ARPLINE. WILL HAVE TO DO THAT LATER.
Expendables used in mission: GPS sondes:
AXBTs:
Sanahuaya