Lead Project Scientist

| Storm | or F | Project HERMINE (ALOA) Experiment name RI /LANDEALL/INTENSE RAINBAND |
|------------|-----------|--|
| 0 | | 20160901 IL Mission ID WXWXA CYCLONE MODUE |
| Prefli | ght | |
| | 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-Fli | ght | |
| | 1. | Confirm from AOC flight director that satellite data link is operative (information). |
| | 2. | Confirm camera mode of operation. |
| | 3. | Confirm data recording rate. |
| . <u></u> | 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: all | l data re | emoved 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. |
| <u> </u> | 9. | Prepare written mission summary using Mission Summary form. |

Lead Project Scientist Check List

| Storm or Project HERMINE (A | LOG) Experiment name | RI/LANDFALL/INTENSE |
|-----------------------------|----------------------|---------------------|
| | | RAINBAJD |
| Flight ID 2016 0901 7 2 | Mission ID 📈 🗙 🛛 | A CYCLONE MODULE |

A. Participants:

| HRD | | AOC | | |
|------------------------|-------------|------------------------|---------------|--|
| Function | Participant | Function | Participant | |
| Lead Project Scientist | ZAWISLAK | Flight Director | WILLAMS | |
| Radar/Workstation | ANNANE . | Pilots | | |
| | | | KERNS/ABITBOL | |
| | | Navigator | GALLAGHER | |
| Cloud Physics | | Systems Engineer | Lyncy | |
| | | Data Technician | MASCARO | |
| Dropwindsonde | ZAWISLAK | Electronics Technician | | |
| AXBT/AXCP | | Other | | |
| Photographer/Observer | | | | |
| s/Guests | | | | |

B. Take-off and Landing Times and Locations:

| Take-Off: _ | 1402 | UTC | Location: | Mac Dice |
|-------------|------|-----|-----------|----------|
| Landing: _C | W22 | UTC | Location: | MACDIL |

Number of Eye Penetrations: <u>3</u>

C. Past and Forecast Storm Locations:

| Date/Time | Latitude | Longitude | MSLP | Maximum Wind | |
|-----------|----------|-----------|-------|-----------------|-------------|
| 1 /13002 | 27.8 | ୫୨.୦ | 989mb | " CO KT | NNE 12KT |
| | | | | | _ |
| | | | | | |

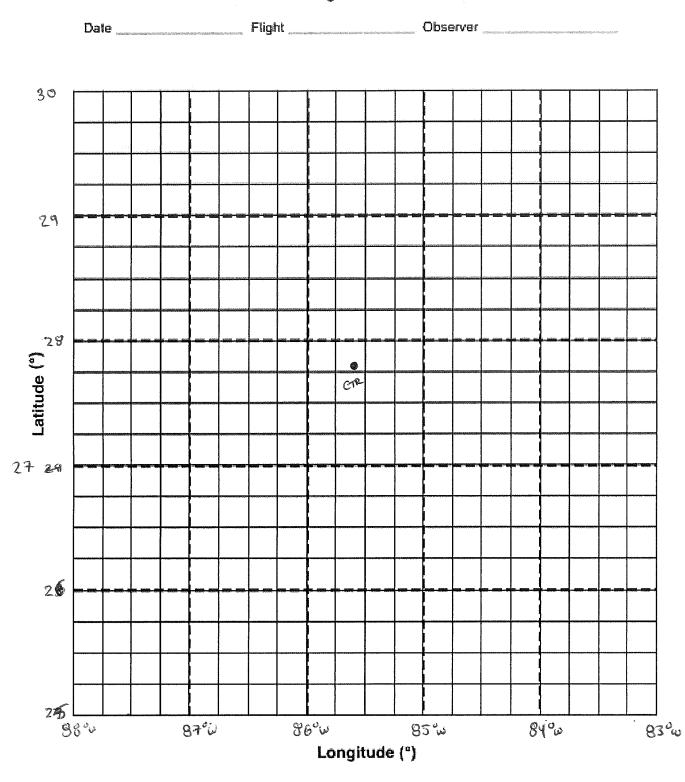
D. Mission Briefing:

TODAY WELL BE ATTEMPTING TO SAMPLE IN AND AROUD CONFERLING RAINBAND ASSOCIATED W/ HERMINE. THE STORM HAS BEEN STEADLY INTENTIFIENCE AND THES POSSIBLE THAT WE WILL BE OUT THERE AS A HURRILANE. OUR WITH RUN WILL PE TO PORTURE A ROLVATION TOWARDS THE NORTH PRINTING W/ TA a ZORMI AWAY RUN THE AXIS - DROD A SUMPE OF THE START, MID, AND END. THEN DO NAS, EAU FIC.Y ACROSS THE CENTER, THEN ON THE WAY HURE PERCEN END ACROSS THE CENTER AND FIND A PLACE TO DO A MODULE - INTENSE CONCECTURE RAINBAND MODULE. Storm or Project HERMINE (ALO9) Experiment name <u>RI/LONDFALL /INTENSE</u> RAINBAND MODULE Flight ID 2016 0901 T2 Mission ID WXWXA CYCLONE

E.—Equipment Status (Up \uparrow , Down \downarrow , Not Available N/A, Not Used **O**)

| Equipment | Pre-Flight | In-Flight | Post-Flight | # DATs / CDs /Expendables/ Printouts |
|------------------|------------|-----------|-------------|--|
| Radar/LF | | | | |
| Doppler Radar/TA | | | | |
| Cloud Physics | | | | |
| Data System | | | | |
| GPS sondes | | | | |
| AXBT/AXCP | | | | |
| Ozone instrument | | | | |
| Workstation | | | | |
| Cameras | | | | |

REMARKS:



Observer's Flight Track Worksheet

Lead Project Scientist Event Log

Date 9/1/16 Flight ID 2016 0901 IZ LPS ZAWISLAK

| Time | Event | Position | Comments |
|--------|--------------|-------------------|--|
| 1902 | τ/ο | | WE'LL BE HEADING SOUTH TO CHAB AND SET UP OUP IP |
| | | | \$ SET AT 25°24 / 83° 10' |
| | | | BOW TO PARALEL THE RAINBAND AND COAST FROM THERE. 3 DECOM |
| | | | NEAR END POWER IP AND CENTER |
| 19512 | | | TURNING EDITTOWARDS COAST |
| 19542 | Soure 1 | 28" 56" / 02" 10" | ni ang dipang sa sa |
| 20022 | SONDE Z | 29°29'/83°29' | - NEAR UF UT |
| 2015 2 | - dece | | NOTHING BUT STRATTFORM |
| 20252 | Soune 3 | | TULN SOUTH TOWARDS CENTER |
| 2030 2 | Soure 4 | | XA2 WINN |
| 20392 | SUNDE 5 | 28.61/85.18 | CTR |
| 2105 Z | Sonne G | 26.74/ 95.14 | MAY WIND |
| 21152 | | 26 571/820461 | NULL PORNIEUM BAN TO IF MONTO DISTORY |
| | | | TORI TO 1242 W BASA |
| 2136 | | | WENT DOWNIGH ADMILLEUM |
| 2143 | | | if comme drug of ther to WEST COLLE CADINE THE |
| 2146 | DROP 7 IN/AF | | PRE-SWURGHARENT UR THIS RAINBAND |
| 215 | | | PANER BORN BOND RECORNOL WEIS AND EDIT |
| 2209 | orop 3 | 230451/05 9 | GRA CENTER |
| 2219 | DQue 9 | | GETTUR THE MOINT UP DOLD |
| 2241 | SOWNE 10 | 28°54' / 84°53' | PROP AT CENTE. |
| | | | |
| | | | |

Lead Project Scientist Event Log

Date 9/1/16 Flight ID 20160901 JZ LPS ZAWISCAK

| Time | Event | Position | Comments |
|----------|----------|------------------|--|
| 2222 | | | Somme on WEST SIDE |
| 2241 | | 29 ' 54' 84' 53' | CENTER FROM WEIL |
| 2249 | | | |
| 2248 | 0200 11 | 28.51/84.92 | MAN WIND TO SE |
| 2317 | DR09 12 | 29 73/83.55 | Desk AT 10 of resource |
| | | | BANA RICKER UP AS WE FLEW IT |
| | | 28.25 / 83, 69 | THE CROSSING WAS VIGURAN |
| 2327 | 02200 13 | 22131/84.08 | Gus MP OF JAMAD REWERDS |
| 237 2337 | drop 14 | 27.31/84.08 | E of UNW-10 of Rainbons module |
| 2343 | DR 30 15 | 27.60/83.76 | BT IP OF DOWNINP |
| 2350 | 020116 | 28.01/83,33 | AT MO OT DOUNDIND |
| 2357 | 0230 17 | 29.57/83.05 | AT EO OF DOWNWIND |
| | | | LOTS OF CONVERTING IN RAINDALD PAINTING IT WELL. |
| | | | SUNC STRAFERH. DEFINITELY KILLED AROUND IN LROSSING |
| | | | FROM WEST TO EDYS, UPWIND TO DOLLAWIND. |
| | | | + WE ALSO KIND OF SAMPLED |
| | | | THE WEST SIDE DOWNWIND W THE ENTERNUE TO THE 11 |
| | | | UF THE MODULE. |
| | | | So 3 6000 LENTER POISES SIME OF THE STRONGET UZ WAS |
| | | | GIN THE WAST STOPE. FL UP AS EN ON THE BUT. |
| | | | AND SOUTH SIDES. |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |
| | | | |

Mission Summary <u>Storm name</u> <u>YYMMDDA#</u> Aircraft 4<u>3</u>RF

Scientific Crew (4 RF)

| Lead Project Scientist ZAWISLAK |
|---------------------------------|
| Radar Scientist ANNANE |
| Cloud Physics Scientist |
| Dropwindsonde Scientist Zawasca |
| Boundary-Layer Scientist |
| Workstation Scientist |
| Observers (affiliation) |
| |

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

WE WILL BE FLYING BEHMO A LANDROUING RAINBAND IN THE BIG BEND REVION OF FLORDA, DOMING A COURCE OF SOLDED, ONE WEAR RECERSTOFF DEPLOYMENT PREA. WELL DE ~10 AM OUTSIDE, THEN DO NON S FLORE-4 WI CONTINUES THEN PROCEED TO BY AREA TO DO AN' INTENSE RAINBOND MODINE - BU A RAINBAND WI UPWIND/ OUWHWIND VERS

Mission Synopsis: (include plot of actual flight track)

SO WE GOT BELIND THE CANDENLING RAINBOND, BU IT WAD ALDEDOL OVER LAND SO WE GOT BELIND THE CONST - SOW MEANFINM DROAPED A CURLE OF JUDES, INCLUDING NEAR RELEASIONER DEPLOYMENT STORE. THE N PROCEEDED TO NUCL POWER DAS MODE A PASS, UNTING MORE WIND AND CENTER - WELL OUTBUIND TO SOUND, THEN DOWNWIND TO E POWT BUT W DOING SO FELOWING PARAMEL A ROMABING - DUT FOR OF IT THEY DID CROSS, WENT ON SOLAND AND COME BOOK, FRANCING MAX WAN TO SE, GI 90 TO DO

Evaluation: (did the experiment meet the proposed objectives?) SUBJECTIVE GOLT ~ ISOMI TO GUT WE GOT 3 PASSES OF THE CENTRES WY 3 OR OF IN THE MIDDLE, 2 MAY WUD. WE FLEW ALGAL A RAINDAND IN THE MODLE OF THE FULLET DOWNWARD FROM SWATH TO E SIDE. INFORMAT THOSEN WE WERE ADLE TO FLY WIN STUDENT OF THE COODILINE ANY FULLOW IT AS THE RAINDOWN WAI ONS HARE. THIS TO FLY IN THE SAME PRED AS THE UF TS - ALLO GOT A DOOD THERE SO WE DID THE INTENSE RONDARD MODULE

Problems:(list all problems)

NEAR TAMER ~ ADOUT GOTMAN OR SU. GUT A UST OF CONVECTION ON THAT, BUT ALSO STRATIFIEL GOLD MIN. SO VERY SUCCESSIFUL MODULE. STORM INTENSIFIED WILLE WE WERE OUT THERE AT WELL CENTER BECAME CLEAR

Expendables used in mission: GPS sondes : <u>17 (3 centres</u>) AXBTs :_____

WE MET PRUS WIED OBJECTIVED.

Sonobuoys: _____