Lead Project Scientist

| Storm or P | roject HOY Experiment name DK |
|--------------------|--|
| Flight ID & | 10/40826II Mission ID /704A Cristoba |
| Preflight | |
| | Participate in general mission briefing. |
| | 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. |
| <u>√</u> 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 | |
| | Confirm from AOC flight director that satellite data link is operative (information). |
| 2. 3. 4. | 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. |
| | Determine next mission status, if any, and brief crews as necessary. |
| | 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 | <u> </u> | Experiment name | Plane mark |
|--|--------------------------|----------------------------------|---------------------------|
| Flight ID | M | lission ID | odul0s15 |
| A. Participants: | | | |
| HRI |) | A | OC |
| Function | Participant | Function | Participant |
| Lead Project Scientist Radar/Workstation | Sell Dood AWG | Flight Director Pilots Navigator | Mes/Scass Kibbey/Price |
| Cloud Physics | | Systems Engineer Data Technician | Kippel |
| Dropwindsonde AXBT/AXCP Photographer/Observer s/Guests | Hua Chen = Holbach | Electronics Technician Other | Greene / Sm |
| B. Take-off and Landin | g Times and Location | s: | |
| Take-Off:UTC | Location: | | |
| Landing:UTC | Location: | | |
| Number of Eye Penetration | ons: | | |

C. Past and Forecast Storm Locations:

| Date/Time | Latitude | Longitude | MSLP | Maximum Wind |
|-----------|----------|---------------------------|------|-----------------|
| 170220 | 2755 | 7/24 | 989 | 74 |
| 195654 | 2837 | 7127 | 986 | 75 |
| 2/1201 | 2907 | 7123 | 986 | 75 |
| 230044 | 2927 | 7131 | 983 | 85 |
| | | to the follows my finding | | |

D. Mission Briefing:

| Storm or Project | Experiment name | |
|------------------|-----------------|--|
| Flight ID | Mission ID | |

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 | | | 1243 | |
| Doppler Radar/TA | 2 x | | | |
| Cloud Physics | | | | |
| Data System | | | | |
| GPS sondes | | | | |
| AXBT/AXCP | | | | |
| Ozone instrument | | | | |
| Workstation | * | | | |
| Cameras | | | | |

REMARKS:

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unds near 45 m/s in SE 1/8 whis in that
grandrant. Did among very to cross remover
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sounde NE to SW from back towards NW
from antowards contor. Excentral 300 and
uso circles NW of lyre for him in admen

Lead Project Scientist Event Log

Date 8 26 14 Flight ID 204 189457 LPS School / Aberson

| Time | Event | Position | Comments |
|--------|--------------|-----------|--|
| 173947 | take off | | lasamonius II |
| 192627 | 1 P (drop) | | |
| 194129 | Mid (chrop) | | |
| 1954 | Rmw. | 2834 7139 | |
| 195625 | Center | 2837 7129 | |
| 201115 | mid | 1838 7019 | |
| 2029/6 | end. | 2837 6918 | |
| 264807 | turn | 3017 7018 | |
| 2049 | drap | 3015 7021 | |
| 2104 | ond (dap) | 2932 7131 | |
| 2/12 | Conto | 29.7/7/23 | |
| 2/25 | mid | 28187156 | |
| 213939 | turn | 27307927 | |
| 280648 | drip. | | |
| 220700 | two | 2747 7082 | |
| 222830 | RMW (DC) | 29,5 71.1 | test drops |
| 8238 | Rmv (Pc) | 294 7055 | might be a bit ext. |
| 2239 | RM.W (hrd) | 295 7053 | outside eyewall |
| 2255 | RMW (PO) | 29407110 | O |
| 2300 | Center | 2828 7131 | The state of the s |
| 2316 | Mid | 3022 7210 | |
| 2326 | ardes (drop) | 3100 7235 | |
| 2341 | end port | 3115 7285 | |
| 0131 | lander Ma | 011 | |
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Lead Project Scientist Event Log

| Date | Flight ID | LPS | |
|------|-----------|-----|--|
| 2000 | | | |

| Гіте | Event | Position | Comments |
|------|-------|--|----------|
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| | | | |
| | | gitude (*) | |
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Mission Summary Storm name YYMMDDA# Aircraft 4_RF

| Scientific Crew (4 RF) Lead Project Scientist Selvood (Abevs or Radar Scientist Abevs or Cloud Physics Scientist |
|--|
| Dropwindsonde Scientist Chec Boundary-Layer Scientist Workstation Scientist Observers (affiliation) |
| Mission Briefing: (include sketch of proposed flight track or page #) Mission Synopsis: (include plot of actual flight track) |
| compacted first foure 4 and sat date to Em on final les recommo detal Paul Cum à adolpt of Sinces across Rmw for thems dute in adolpt of PC Sinder, IR à mini Sinde with 13T prov to Rmm though BT lamber after PC manufer since 1st ful e Evaluation: (did the experiment meet the proposed objectives?) |
| 3 TOR analysis to Eve in real time for 182 and 02 agains, Him invadence test thermo sampung across enjoyed all successf |
| Problems: (list all problems) Wess commication more is somes I) H of had Persons on fright The plan for final less Expendables used in mission: GPS sondes: 19 17 hfip 2 resches I clime) |
| AXBTs: 2 (Joe Cione) 1 Coulcul usul bockup Sonobuoys: |