## 19930828HI_LPS

## E. 2 Lead Project Scientist (On-Board)

## E.2.1 Preflight

$\qquad$ 1. Participate in general mission briefing.
2. Determine specific mission and flight requirements for assigned aircraft.
3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with AOC flight director/meteorologist and CARCAH unless briefed otherwise by field program director.
4. Contact HRD members of crew to:
a. Assure availability for mission.
b. Arrange ground transportation schedule when deployed.
c. Determine equipment status.
5. Meet with AOC flight crew at least 90 minutes before takeoff, provide copies of flight requirements and provide a formal briefing for the flight director, navigator, and pilots.
6. Report status of aircraft, systems, necessary on-board supplies and crews to appropriate HRD operations center (MGOC in Miami or FGOC at remote recovery location).

## E.2.2 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 Form E-2.

## E.2.3 Postflight

1. Debrief scientific crew.
2. Report landing time, aircraft, crew, and mission status along with supplies (tapes, etc.) remaining aboard the aircraft to the appropriate HRD operations center (MGOC or FGOC).
3. Gather completed forms for mission and turn in at the appropriate operations center. [Note: all data removed from the aircraft by HRD personnel should be cleared with the AOC flight director.]
4. Obtain a copy of the 10 -s flight listing from the AOC flight director. Turn in with completed forms.
5. Determine next mission status, if any, and brief crews as necessary.
6. Notify the appropriate opert tions center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

Form E-2
Page 1 of 5
On-Board Lead Project Scientist Check List
Date Aug 28,1993 Aircraft $\frac{930828 \mathrm{HI}}{42 R_{1}=}$ Flight ID $\qquad$
A. Participants

B. Past and Forecast Storm Locations

| $\frac{\text { Date/Time }}{28 / 152}$ | $\frac{\text { Latitude }}{276}$ | $\frac{\text { Longitude }}{675}$ | $\frac{675}{981}$ | $\frac{\text { MSLP }}{70 / 12}$ |
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| $\frac{29 / 2}{30 / 0 z}$ | $\frac{28.8}{31 / 12}$ | $\frac{28.5}{31.0}$ | $\frac{70.3}{72.1}$ | - |

C. Mission Briefing

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Form E-2
Page 2 of 5
D. Equipment Status


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Form E-2
Page 3 of 5
E. I. Proposed Flight Pattern (sketch or designate by number)

## E. II. Actual Flight Pattern

## Hurricane Recco Plotting Chart

True at $25^{\circ}$ Latitude, in Degrees and Minutes


Note: Label full degrees according to location of flight area.

Form E-2
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Lead Project Scientist Event Log

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## Lead Project Scientist Event Log

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Form E-2
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## Lead Project Scientist Event Log

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Form E-2
Page 4 of 5
Hurricane Recco Plotting Chart
True at $25^{\circ}$ Latitude, in Degrees and Minutes


Nete: Label full degrees according to location of flight area.

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Form E-2
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Page 4 of 5

## Hurricane Recco Plotting Chart

True at $25^{\circ}$ Latitude, in Degrees and Minutes


Note: Label full degrees according to location of flight area.

Lead Project Scientist Event Log
Date Aug 28,1993

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Lead Project Scientist Event Log

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Form E-2
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Lead Project Scientist Event Log

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- COORDINATION POINTS WITH HIGHER A/C

Fig. 28. Secondary (lower) flight pattern.
True airspeed calibration is required.
Lower aircraft will drop no ODWs. Unless there is a conflict with USAF reconnaissance aircraft, the lower plane will operate at FL 100.

Radial legs are 40 nmi long.
All turns are initiated upwind.
The pattern may be entered at any compass heading, but entry azimuth will always be $90^{\circ}$ upwind of entry azimuth of the primary (upper) aircraft. Refer to note 3, Fig. 27, for operating level(s) of upper aircraft.

Point 1 must be reached at the same time the upper aircraft reaches its point 2 (Fig. 27). Point 9 must be reached at the same time the upper aircraft reaches its point 8 . Point 17 must be reached at the same time the upper aircraft reaches its point 14.

Set airborne Doppler radar to continuously scan perpendicular to the track on radial penetrations and, F/AST on downwind legs.

