## 19850815 HI-LPS

E. 1 Lead Project Scientist (On-Board)

The on-board lead project scientist is responsible for carrying out the scientific mission of his assigned aircraft. (Check off and initial when completed.)

## E.1.1 Preflight

$\qquad$ 1. Participate in general mission briefing.
2. Determine specific mission and flight patterns) for his aircraft.

3. Determine from CARCAH or field program director whether aircraft has operational fix responsibility and discuss with RFC flight director/meteorologist and CARCAH, unless briefed otherwise by field program director.
4. Contact NHRL members of crew to:
a. Assure availability for mission.
b. Arrange ground transportation schedule when deployed.
c. Determine equipment status.

5. Meet with RFC flight crew 90 minutes before takeoff, provide copies of flight plans and give a formal briefing to the flight director, navigator, and pilots.
6. Report status of aircraft, systems and crews to appropriate NHRL operations center.
E.1.2 In-Flight

1. Confirm from RFC flight director/meteorologist that satellite data link is operative (information).
2. Confirm camera mode of operation.

1 Hz 3. Confirm data recording rate.
4. Discuss flight pattern and possible changes to the flight pattern directly with the flight director. Proper in-fight coordination between the lead project scientist, the flight director, the pilots and the navigator, may permit the lead project scientist to specify in flight the end of one pattern leg and the beginning of the next leg.
$\qquad$ 5. Accomplish the true airspeed calibration pattern en route to or from the storm.
6. Complete all form E-1 checklists.

## E.1.3 Postflight

1. Debrief crew.
2. Gather completed forms for mission and turn in at the operations center.
$\qquad$ 3. Contact the local NHRL ground operations center before leaving the aircraft area, if possible. Report landing time, aircraft, crew and mission status to NHRL operations center. Transmit any important messages to all NHRL participants.
3. Determine next mission status, if any, and brief crews as necessary.
4. Notify operations center as to where you can be contacted.

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On-board Lead Project Scientist Checklist

## DATE L5AUE85 AIRCRAFT NH IVF FLT 850815 H

A. Participants

B. Past and Forecast Storm Position

C. Mission Briefing FLY. ROTATING FOUR PATTERNS.

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D. Equipment Status


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Form E-1
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E. Proposed and Actual Flight Patterns

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hurricane recco plotting chart
true at $25^{\circ}$ Latitude, in degrees and minutes of $\phi$ and $\lambda$


NOTE: Labei full degrees according to location of flight area

Form E-1
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*Log times of all significant altitude changes, turns, and eye fixes **lew altitude, heading, center position, etc.

