

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

- ✓ 1. Participate in general mission briefing.
- ✓ 2. Determine specific mission and flight pattern(s) for his aircraft.
- NA 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. Provide supplementary briefing to specific crew.
- ✓ 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).
- 5/sec 2. Confirm camera mode of operation.
- std 3. Confirm data recording rate.
- ✓ 4. Complete form E-1.

On-board Lead Project Scientist Checklist

DATE 9-24-82

AIRCRAFT N43RF

FLT 820924 I

A. Participants

<u>Function</u>	<u>Participant</u>	<u>Function</u>	<u>Participant</u>
Lead Proj. Sci.	<u>Burpee/Adams</u>	Gust Probe	<u>—</u>
Cloud Physics	<u>—</u>	Omegasonde	<u>Burpee/Franklin/Parrish</u>
AXBT	<u>—</u>	Sys Eng	<u>Goldstein</u>
Hot Film	<u>—</u>	Data Tech	<u>Paradis</u>
Radar	<u>Parrish</u>	EI Tech	<u>Schricker</u>
Flt Dir/Met	<u>Hayden</u>	Other	<u>Pandy</u>

Take Off 1830z Location NAS North Point San Diego CA Landing 0330 0225z Location NAS No. Pt. San Diego, CA

B. Past and Forecast Storm Position

<u>Date</u>	<u>Time</u>	<u>Latitude</u>	<u>Longitude</u>	<u>MSLP</u>
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

C. Mission Briefing

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D. Equipment Status

<u>Equipment</u>	<u>Pre Flt</u>	<u>In Flt</u>	<u>Post Flt</u>	<u>Reports Collected</u>
Aircraft	✓			
Radar	✓			
Cloud Physics	—			
Data Sys	✓			
Omegasondes	✓			
AXBT	—			
Gust Probe	—			
Hot Film	—			
Photography	5/sec			
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

REMARKS



DATE 9-24-82

FLIGHT 820924 I

LPS Burpee/Adams

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	PS-mb HT mp	COMMENTS**
Drop #1	190534	30.65 N 117.69 W	568.7	Clear below FL150
Drop #2	193008	28.97 N 117.88 W	523.7	~1000' cld layer at 10,000 ft. (below deck) FL170
Drop 2b (streamer)	195840	26.98 117.93	524.1	Cld deck below
Drop 2c (streamer)	200050	26.84 117.93	524.2	Same
Drop 3	200300	26.67 117.94	524.2	Same T: 2026 CH to 227°T
Drop 4 (streamer)	202628	24.98 118.04	524.5	Same
Drop 4b	202801	24.90 118.14	524.6	Same
Drop 5	204548	24.00 119.28	524.7	Clear below w/scattered clouds
Drop 6	2106	22.88 120.68	461.6	Clear below T: 2058 FL200
Drop 7	2125	22.00N 121.84W	461.7	Clear below w/scatt. clds. CH 270 before drop
Drop 8	215008	22.00N 123.92W	425.9	T: 2134 FL220
Drop 9	221700	21.99N 126.16W	426.1	same on scuz below same blanket of clouds below
Drop 10 (Bad One)	224345	22.02N 128.40W	426.4	Broken lines of cu below
Drop 10a	2253	22.00N ~129.9	426.4	Broken cu clusters below
Drop 11	2309	22.08 130.50	426.3	Clear below CH to 001°T
Drop 12	232411	23.41 130.47	426.4	Clear below w/widely scattered cu below
Drop 13	234036	24.85 130.50	390.9	T: 2332 FL240 Scatt. cu below
Drop 14	23	26.28 130.4	391.0	CH to 092°T Cloud deck below
Drop 15	0019	26.29 128.4	391.1	Broken cu below
Drop 16	003925	26.24 126.48	391.4	Continuous Cloud deck below CH 156°T
Drop 17	005626	25.02 125.70	391.3	Cloud deck below
Drop 18	011300	23.94 124.88	391.3	Cloud deck below CH to 049°T
Drop 19	013103	24.96 123.59	391.3	continuous cloud deck below
Drop 20	014945	26.04 122.15	391.3	Same
Drop 21 weak D	020810	27.08 120.69	391.4	Same
Drop 21a	021300	27.37 120.29	391.4	Same Heading 053°T
Drop 22	022610	28.11 119.23	391.3	Same (Twilight)
Drop 23	024304	29.14 117.86	391.8	Same CH to 006°T
Drop 24	025938	30.72 117.66	391.9	Same LAST DROP
				T: 0313 → To San Diego
				T: 0330 LAND

\*Log times of all significant altitude changes, turns, and eye fixes

\*\*New altitude, heading, center position, etc.