

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

Function	Participant	Function	Participant
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

Date	Time	Latitude	Longitude	MSLP
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____
_____	_____	_____	_____	_____

C. Mission Briefing

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820924E

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

HURRICANE RECCO PLOTTING CHART

TRUE AT 25° LATITUDE, IN DEGREES AND MINUTES OF ϕ AND λ

[illegible]

NOTE: Label full degrees according to location of flight area

DATE 9-24-82

FLIGHT 820924 I

LPS Burpee/Adams

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	PS-mb HT	COMMENTS**
Drop #1	190534	30.65 N 117.69 W	568.7	Clear below FL 150
Drop #2	193008	28.97 N 117.88 W	523.7	~1000' cld layer at 10,000 ft. (below) FL 170
Drop 2a (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
Drop 4 (streamer)	202628	24.98 118.04	524.5	Same T: 2025 C/H to 327°T
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 FL 200
Drop 7	2125	22.00N 121.84W	461.7	Clear below w/scatt. cld. C/H 270 before drop
Drop 8	215008	22.00N 123.92W	425.9	T: 2134 FL 220
Drop 9	221700	21.99N 126.16W	426.1	Same on scuz below
Drop 10 (Bad One)	224345	22.02N 128.40W	426.4	Same blanket of clouds 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 C/H 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 FL 240 Scatt. cu below.
Drop 14	23	26.28 130.4	391.0	C/H 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 C/H 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 C/H to 099°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 C/H to 006°T
Drop 24	025938	30.72 117.66	391.9	Same LAST DROP
				T: 0313 To San Diego
				T: 0330 LAND

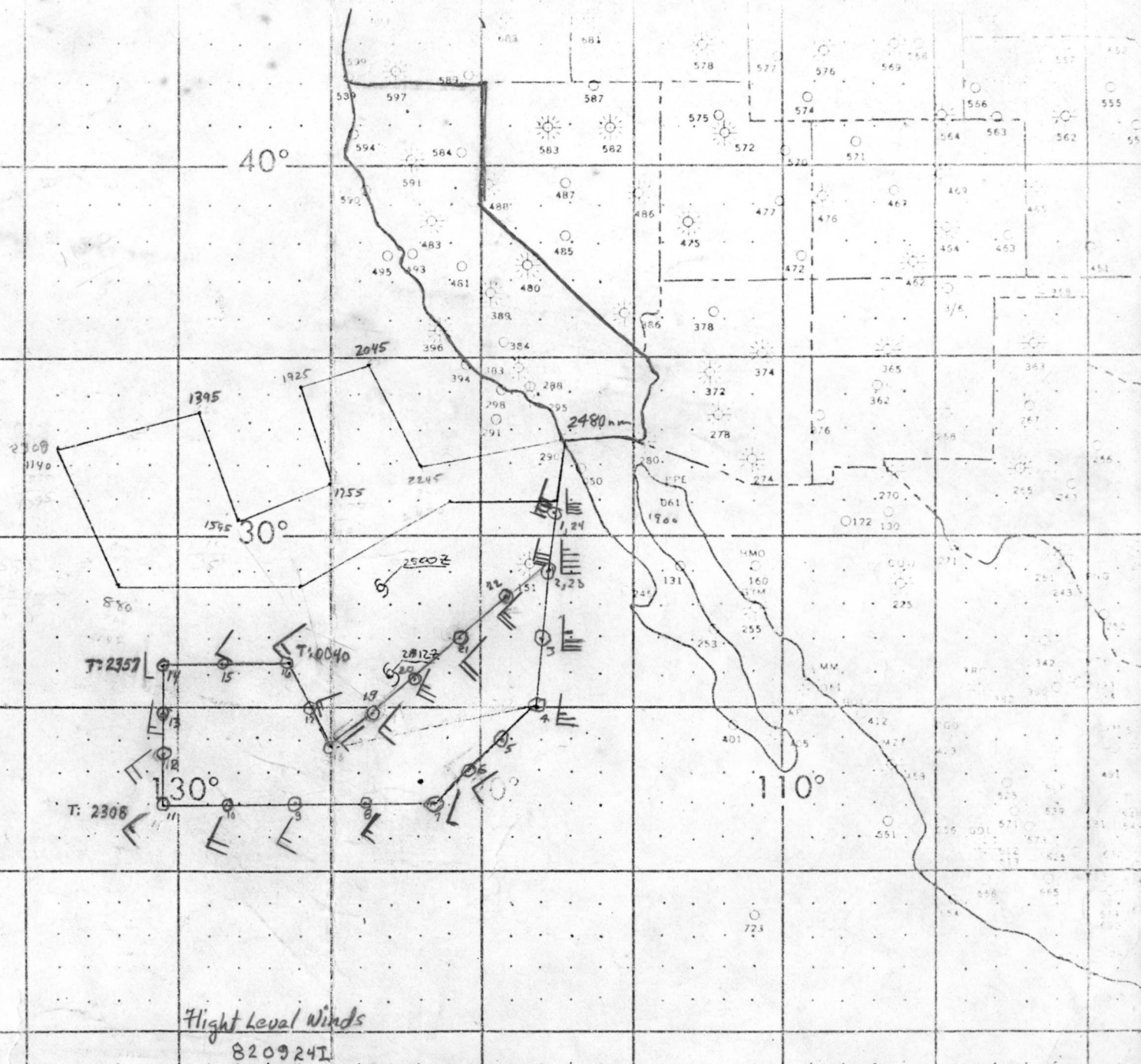
*Log times of all significant altitude changes, turns, and eye fixes

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

T+30

Planned Drop Points

1	30-40	117-42.0
2	29-00	117-53
3	27-00	117-57
4	25-00	118-00
5	24-00	119-16
6	23-00	120-53
7	22-00	121-45
8	22-00	123-54
9	22-00	126-08
10	22-00	128-24
11	22-00	130-30
12	23-24	130-30
13	24-50	130-30
14	26-15	130-30
15	26-15	128-30
16	26-15	126-30
17	25-00	125-43
18	23-50	125-00
19	24-53	123-38
20	25-57	122-12
21	27-02	120-46
22	28-05	119-16
23	29-00	117-53
24	30-40	117-42



T: OFF 1830

