19830726I_LPS

830726I, INUST

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

__X__ 1. Participate in general mission briefing.

__X__ 2. Determine specific mission and flight pattern(s) for his aircraft.

__X__ 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.

__X__ 4. Contact HRD members of crew to:

a. Assure availability for mission.

b. Arrange ground transportation schedule when deployed.

c. Determine equipment status.

__X__ 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.

__X__ 6. Report status of aircraft, systems and crews to appropriate HRD operations center.

E.1.2 In-Flight

__X__ 1. Confirm from RFC flight director/meteorologist that satellite data link is operative (information).

__X__ 2. Confirm camera mode of operation.

__X__ 3. Confirm data recording rate. 1 FRAME / MIN

__X__ 4. Complete form E-1.

E.1.3 Postflight

_____ 1. Debrief crew.

_____ 2. Report landing time, aircraft, crew and mission status to HRD operations center.

_____ 3. Gather completed forms for mission and turn in at the operations center.

_____ 4. Determine next mission status, if any, and brief crews as necessary.

_____ 5. Notify operations center as to where you can be contacted.

Form E-1
Page 1 of 5

On-board Lead Project Scientist Checklist

DATE 26 JULY 83 AIRCRAFT 43 RF FLT 830726 INVEST

A. Participants

Function	Participant	Function	Participant
Lead Proj. Sci.	WILLOUGHBY	Gust Probe	
Cloud Physics	R. BLACK	Omegasonde	
AXBT	—	Sys Eng	
Hot Film	—	Data Tech	
Radar	JORGENSEN	El Tech	
Flt Dir/Met	DAVIS	Other(TRANEE)	BOGERT DARBY

Take Off 262117 Location SJU Landing 270234 Location SJU

B. Past and Forecast Storm Position

Date	Time	Latitude	Longitude	MSLP
26	222	13 N	57 W	~1016

C. Mission Briefing

FLY INVEST NEAR 13N 57W CONDUCT RADAR & OLDPHY TRAINING

D. Equipment Status

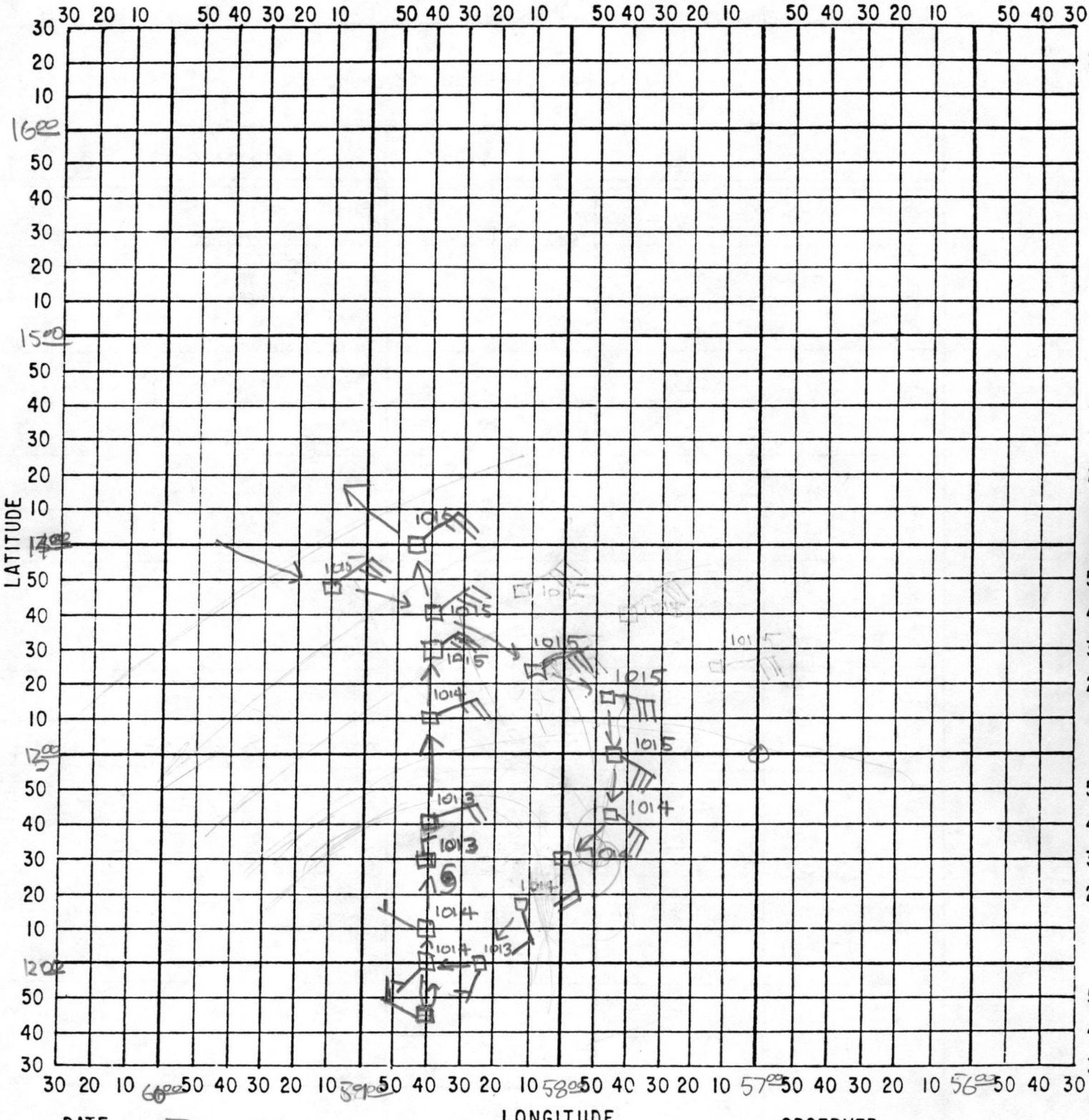
Equipment	Pre Flt	In Flt	Post Flt	Reports Collected
Aircraft	↑	↑	↑	
Radar	↑	↑	↑	
Cloud Physics	↓	↓	↓	
Data Sys	↑	↑	↑	
Omegasondes	NOS			
AXBT	NOS			
Gust Probe	NOS			
Hot Film	NOS			
Photography	↑	↑	↑	

REMARKS

E. Proposed and Actual Flight Patterns

HURRICANE RECCO PLOTTING CHART

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



DATE 26 JULY 83

072683I

OBSERVER WILLOUGHBY

NOTE: Label full degrees according to location of flight area

Form E-1
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DATE 26 JULY 83 FLIGHT 830726I LPS WILLOUGHBY

8-12 = 4/19

Lead Project Scientist Event Log

EVENT	TIME*	POSITION	COMMENTS**
OFF SJU	2147Z	18.43 N 66.01 W	SLP 1017 EXTRAP FROM 700 MB, WIND 050/14 m s^{-1}
	2134Z		KJY & ASDL NOT REACHING NHC, BUFFER OK, TROUBLE IN LANDLINES
WIND 075/9.0	2231Z	14.91 N 61.50 W	KJY: NHC TELEPHONE ↓ NO ASDL, PASS SIG WX VIA KJY
DESCENDING TO 1500'	2300	13.93 N 59.41 W	037/10 m/s
AT 1500'	2305Z	13.80 N 59.03 W	WIND 050/14 m s^{-1} SLP 1016
WIND SHIFT	2326	13.37 N 57.90 N	WIND 99/17.6
TRACK 180	2329	13.30 N 57.73	
GRADUAL LOOKS	HEADING CHANGES	LIKE CLOSED CIRCULATION	180 → 270
TRACK 180	0001	12.00 N 58.78 W	
TRACK 360	0006	11.72 N 58.73 W	WIND 300/5 SLP 1014
CENTER	0020	12.50 58.58	WIND < 1 m/s
E WIND	0021	12.68 58.68	WIND 049/9.3 m/s
TURN 284 RTB	0045	14.00 58.75	WIND 062/15 m/s
CLIMB	0100	14.37 60.04	→ 500 mb
LAND	270234	SJU	

*Log times of all significant altitude changes, turns, and eye fixes
**New altitude, heading, center position, etc.