

1992082241-LPS

E.2 Lead Project Scientist (On-Board)

E.2.1 Preflight

- _____ 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 operations center (FGOC or MGOC) as to where you can be contacted and arrange for any further coordination required.

On-Board Lead Project Scientist Check List

Date 22 August 1992 Aircraft NOAA 42 Flight ID 920822H

A. Participants

HRD		OAO	
Function	Participant	Function	Participant
Lead Proj. Sci.	<u>Burpee</u>	Flight Director	<u>Parrish</u>
Cloud Physics		Pilots	<u>McKim / Ployer</u>
Radar	<u>M. Black M. Brister</u>	Navigator	<u>Strong</u>
Workstation	<u>T. Griffin</u>	Sys. Engr.	<u>S. Leva</u>
Photographer		Data Tech.	<u>D. Leno</u>
Omegasonde	<u>Franklin</u>	El. Tech.	<u>Raines</u>
AXBT/AXCP		Other	

Take-Off 1732Z Location Miami Landing 0351Z Location Miami

B. Past and Forecast Storm Locations

Date/Time	Latitude	Longitude	MSLP	Max. Wind

C. Mission Briefing

Synoptic flow experiment - see attached map

D. Equipment Status

<u>Equipment</u>	<u>Pre-Flight</u>	<u>In-Flight</u>	<u>Post-Flight</u>
Aircraft	✓	✓	✓
Radar/LF	✓	OK until 2137Z	✓
Radar/TA (Doppler)	✓	not working properly	✓
Cloud physics	✓	✓	✓
Data system	✓	see below	✓
Omegasondes	✓	✓	✓
AXBT/AXCP	NA	NA	NA
Workstation	✓	✓	✓
Photography	✓	✓	✓

First flight with new data system

REMARKS:

Data system crash 2137Z
Flight-level system down until 2140Z
Radar data system down 2137Z - never
successfully restarted

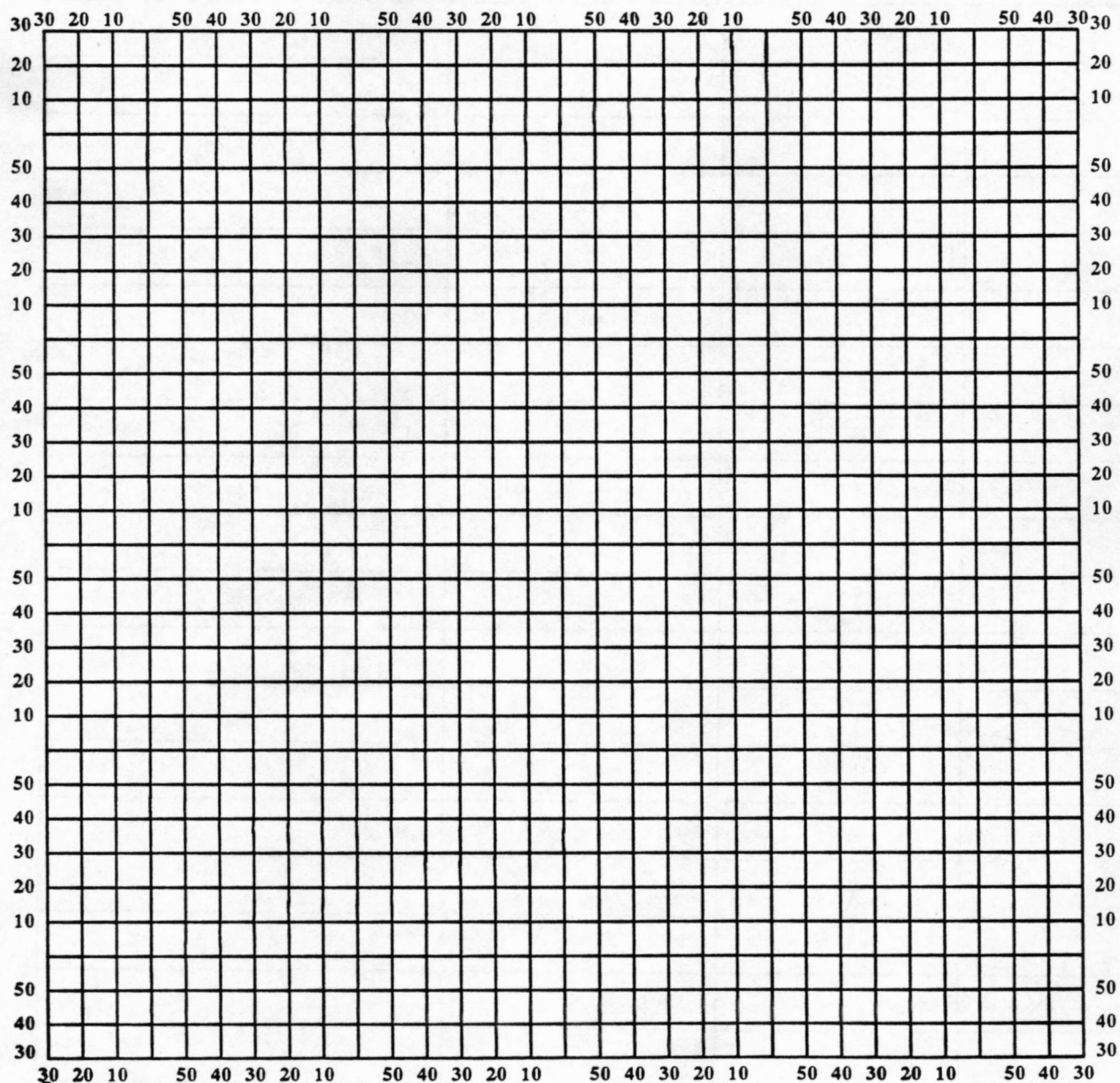
E. I. Proposed Flight Pattern (sketch or designate by number)

E. II. Actual Flight Pattern

Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date _____ Aircraft _____ Observer _____



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

Lead Project Scientist Event Log

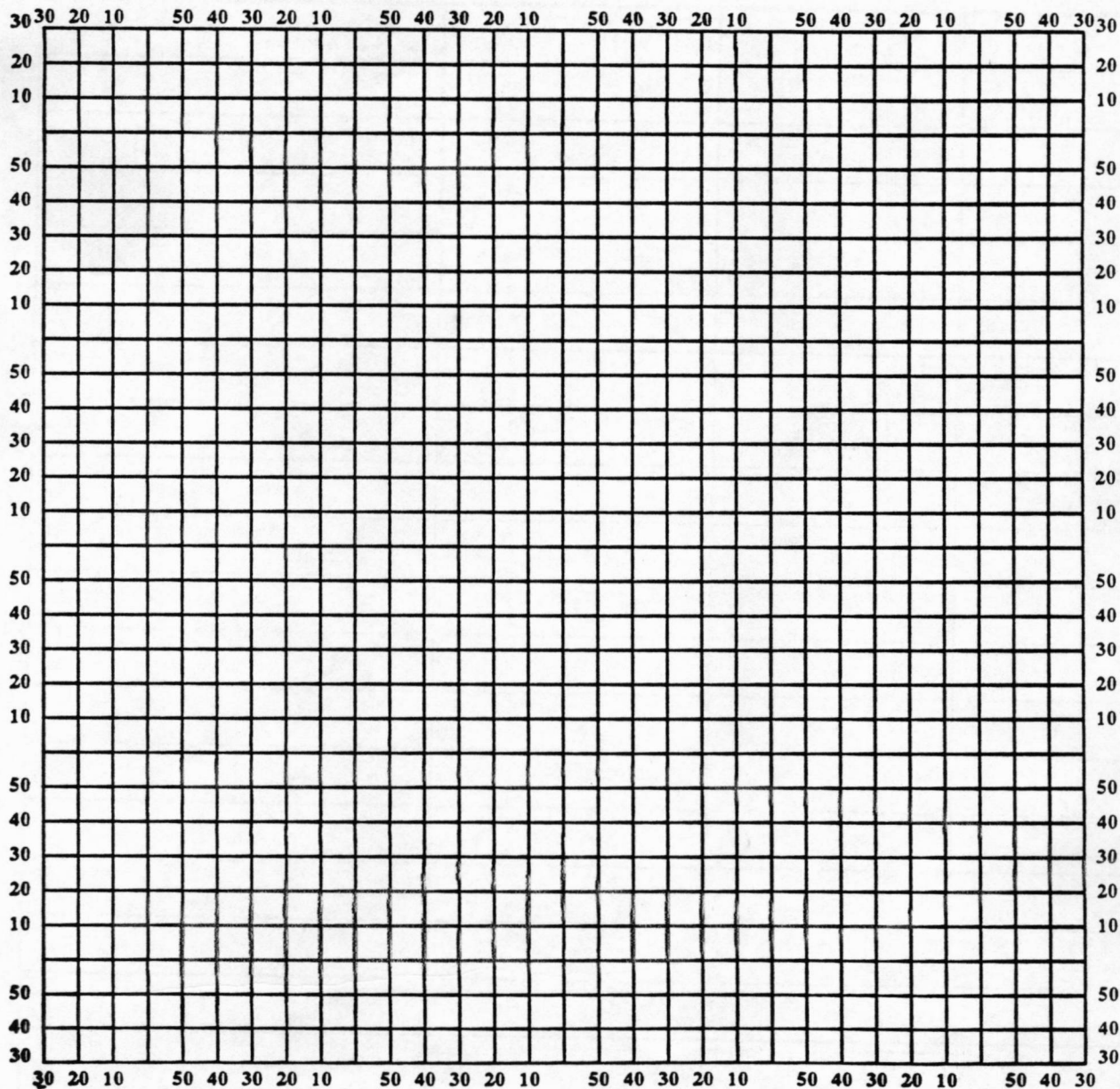
Date _____ Flight _____ LPS _____

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Hurricane Recco Plotting Chart

True at 25° Latitude, in Degrees and Minutes

Date _____ Aircraft _____ Observer _____

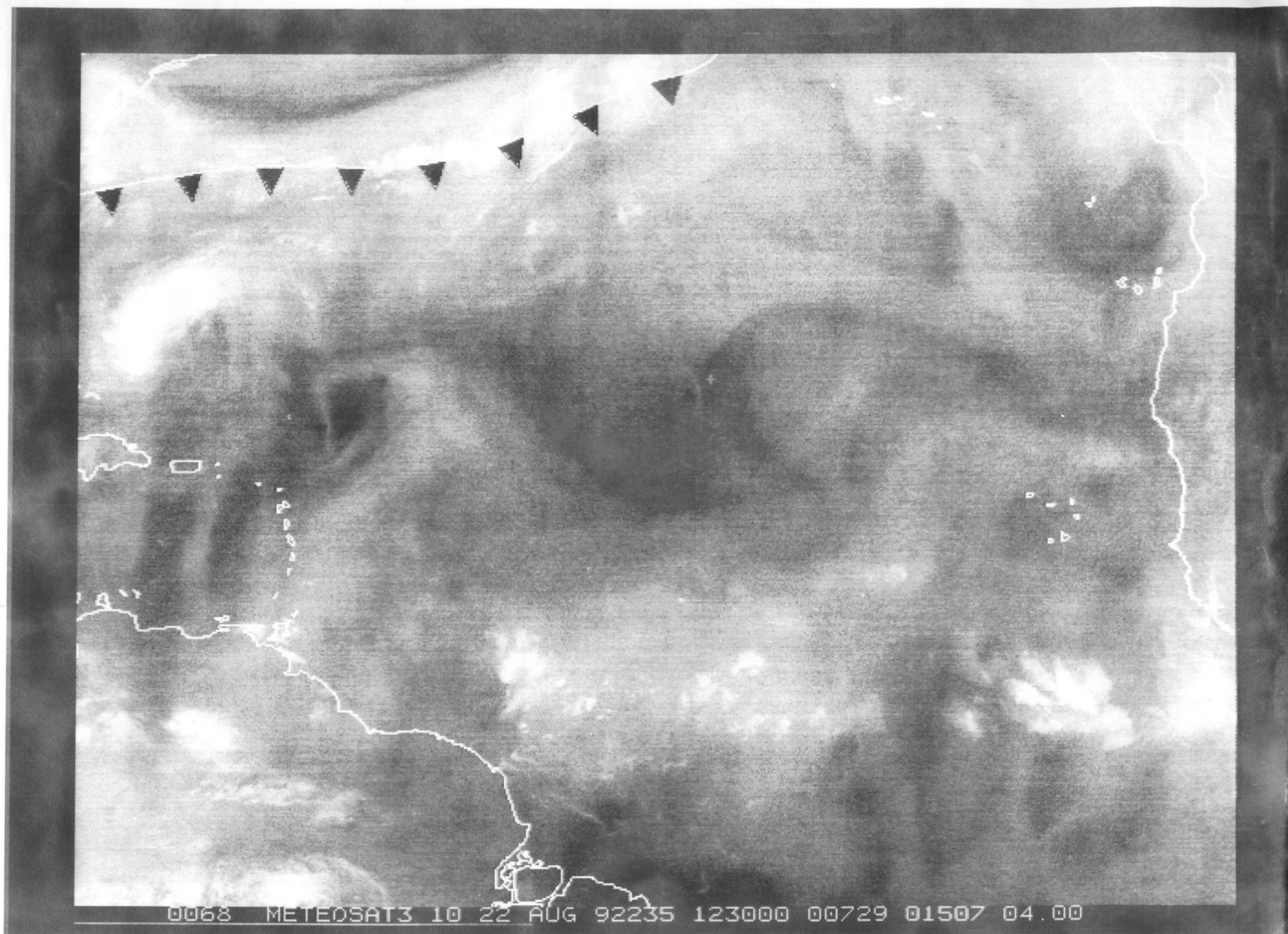


Note: Label full degrees according to location of flight area.

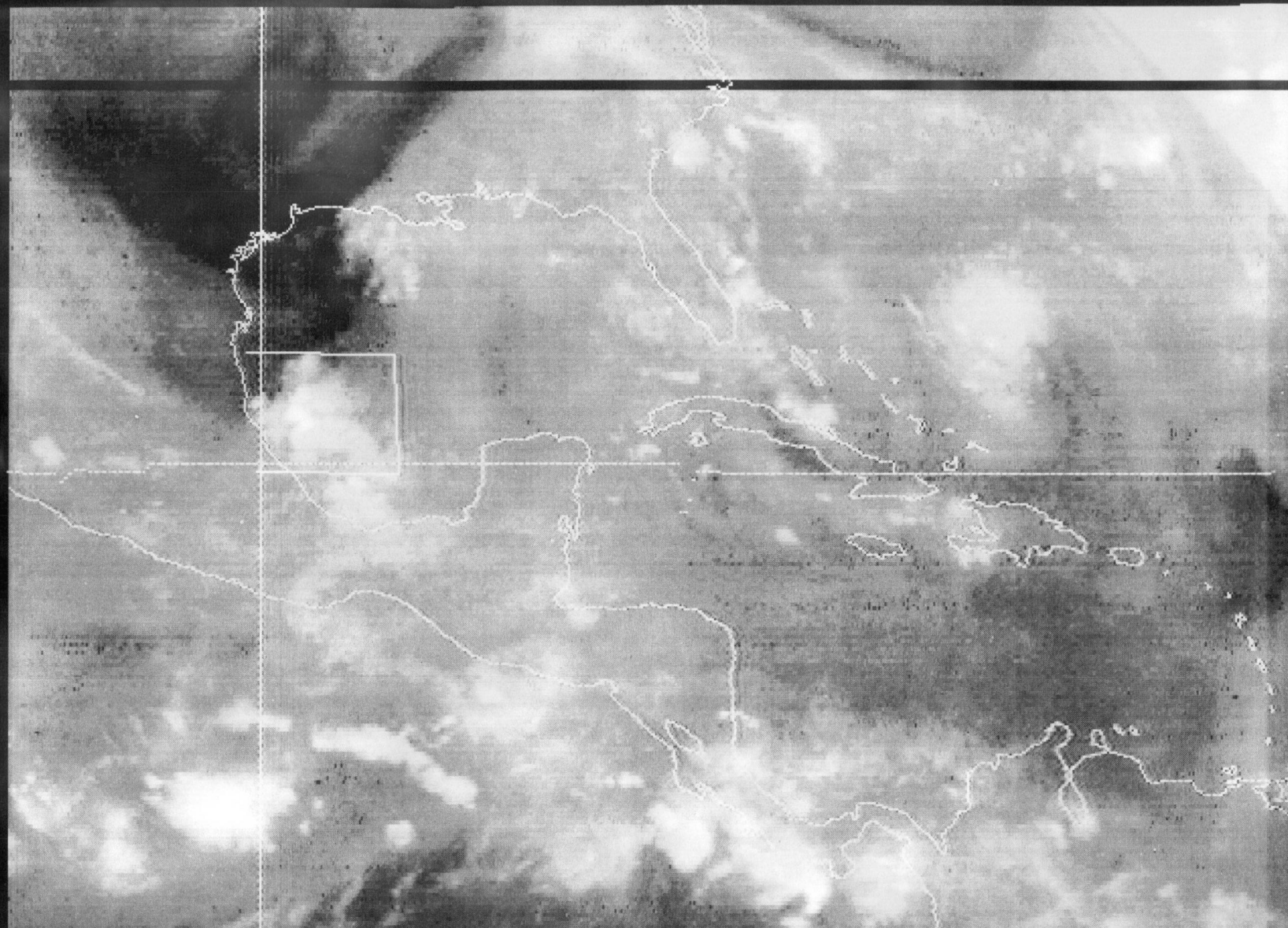
Lead Project Scientist Event Log

Date _____ Flight _____ LPS _____

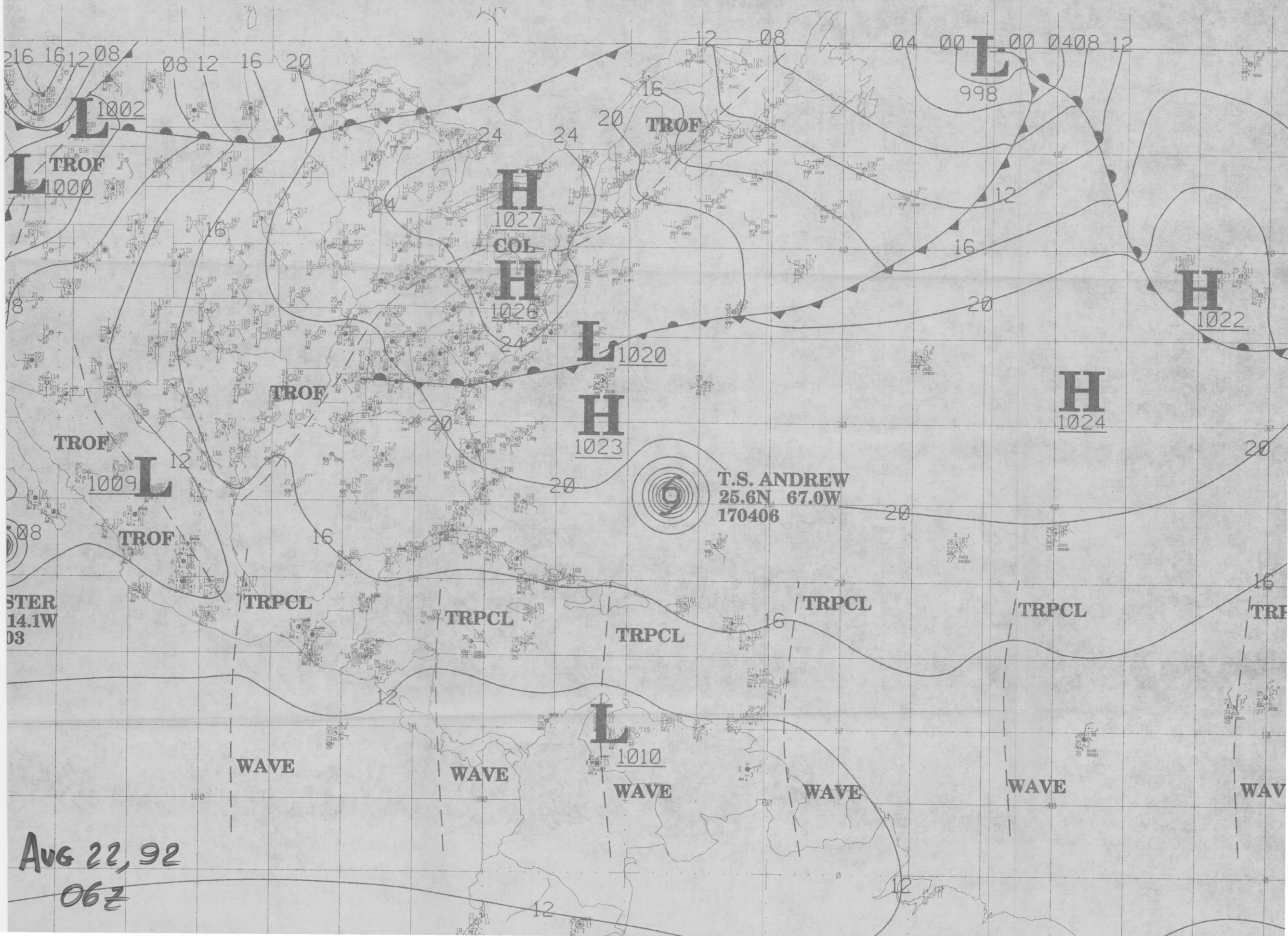
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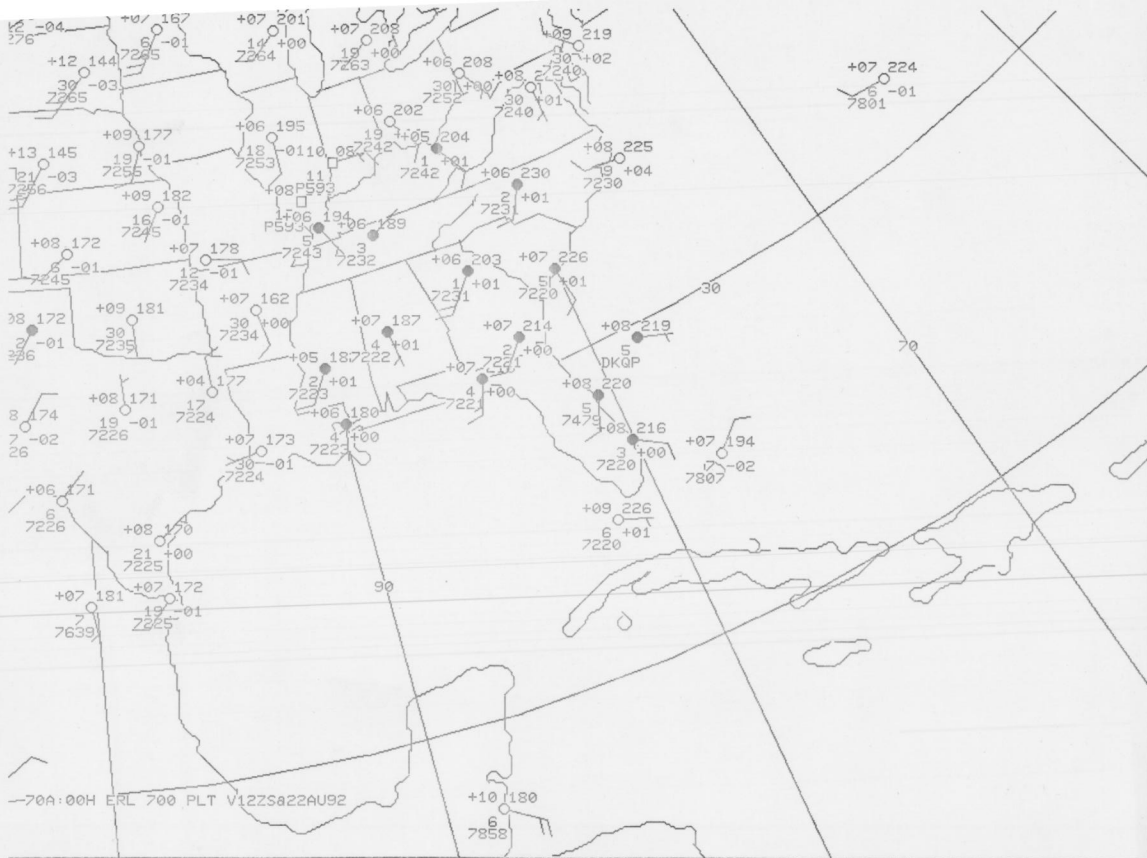
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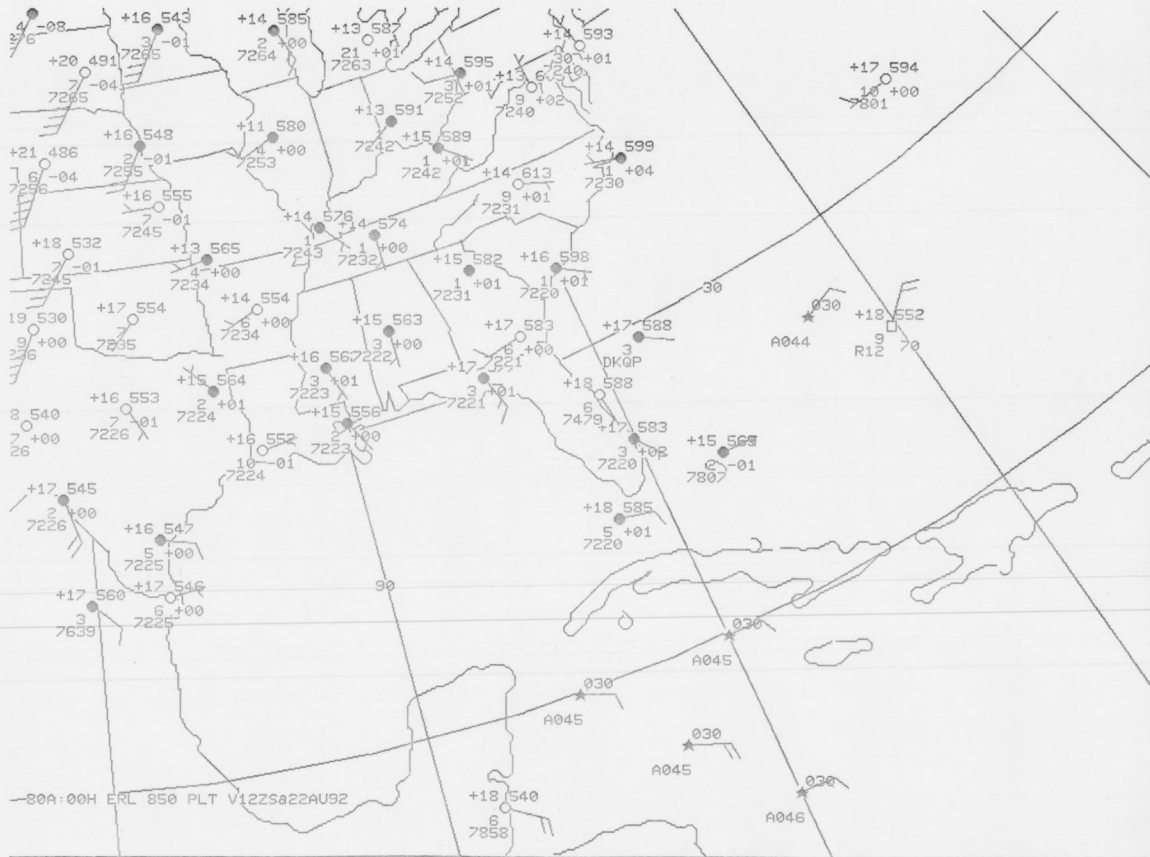


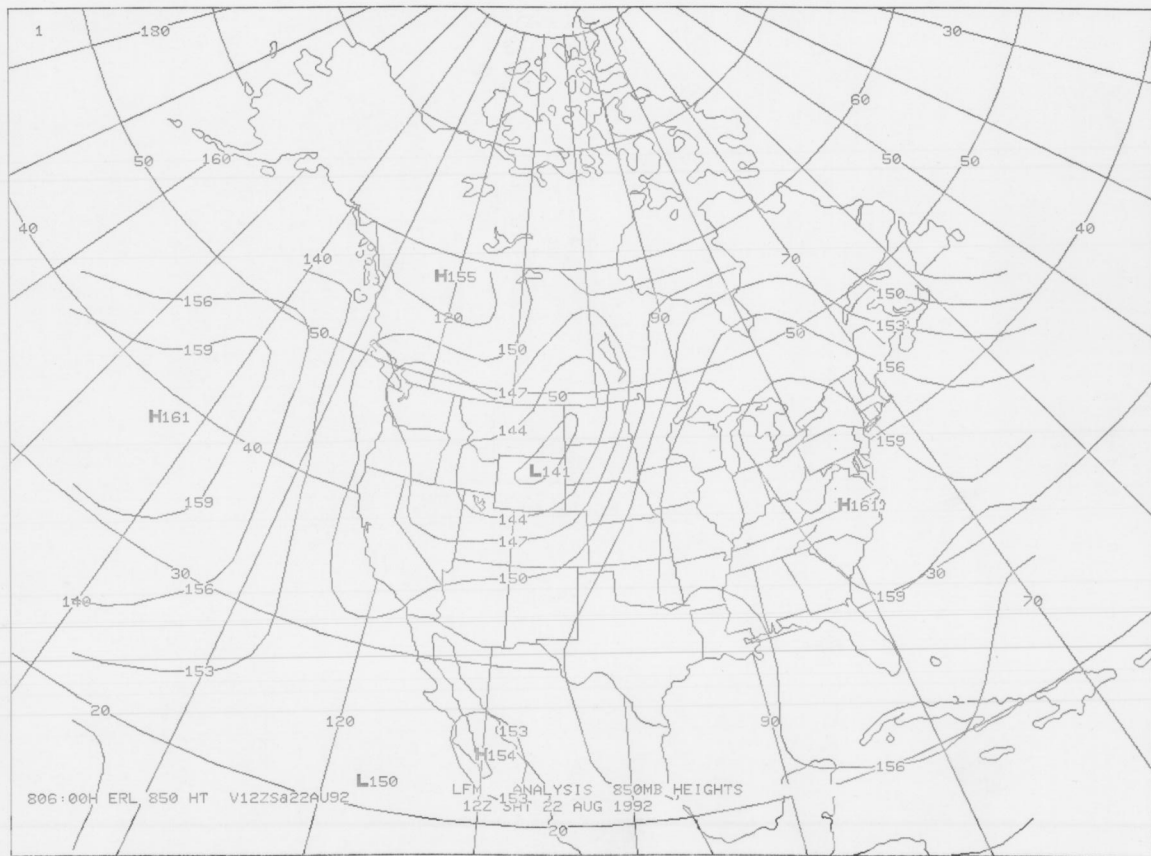
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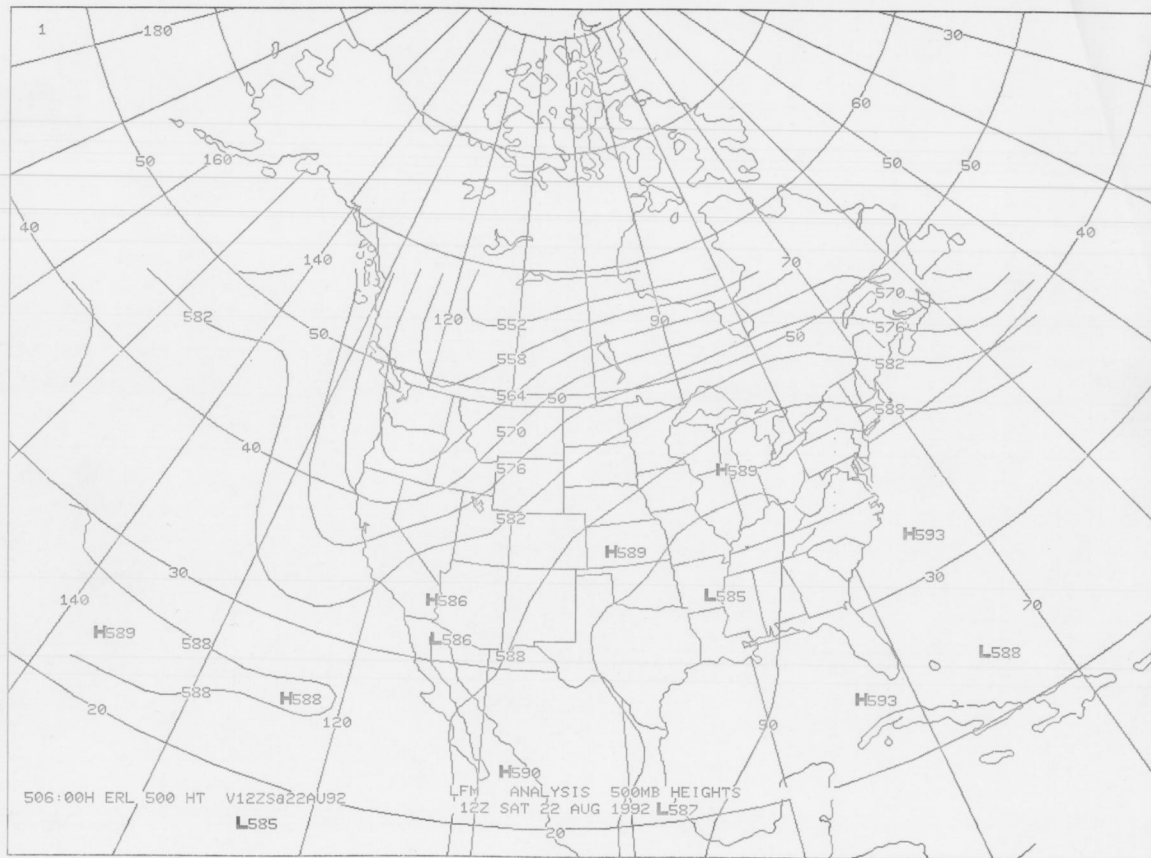


Aug 22, 92
06Z











—50A:00H ERL 500 PLT V12ZSa22AU92