

An Historical Look Back at the beginnings of Satellite Cloud Winds

by Dennis Dismachek

"National Environmental Satellite Service Catalog of
Products, Third Edition", NOAA. Technical
Memorandum NESS 109, April 1980, Suitland,
Maryland

"National Environmental Satellite Service Catalog
of Products", NOAA Technical Memorandum,
NESS 88, June 1977, Suitland, Maryland

MMIPS (Man Machine Interactive Processing System) Console

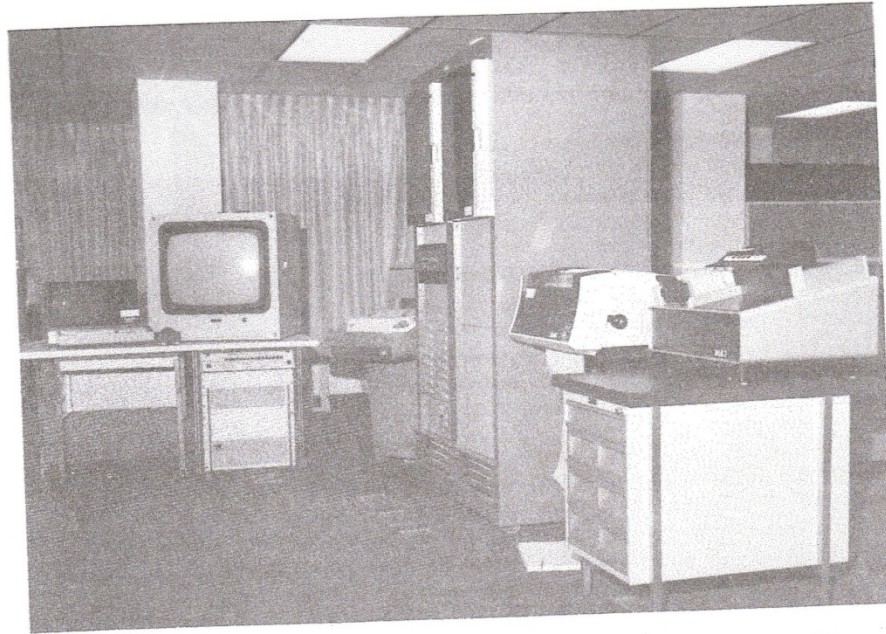


Figure 11-3.--MMIPS configuration (l to r): Keyboard/alphanumeric CRT; color imager CRT; teletypewriter; GTE minicomputer, tape units, line printer, and card reader. Not shown--two 22-M byte Ampex disk units.

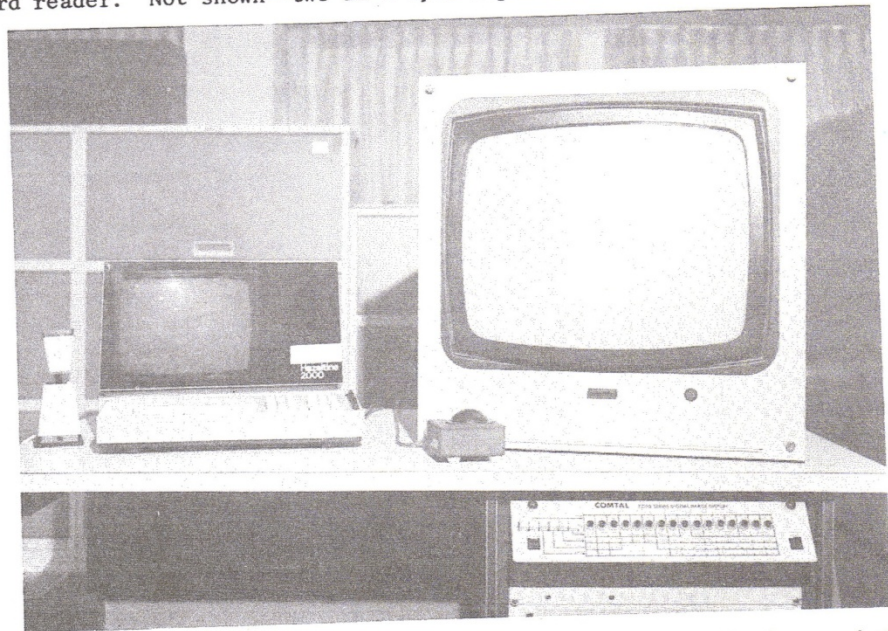


Figure 11-4.--MMIPS CRT units including track ball and display controls

Picture Pair Digitizer

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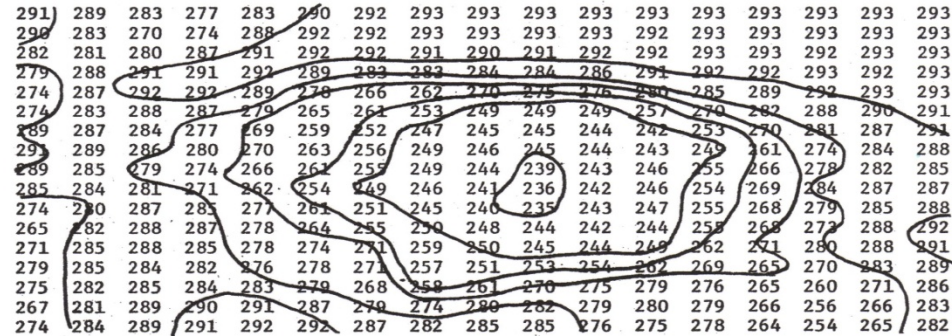


Figure 13-1.--Sample 17 x 17 temperature array in degrees kelvin. (Contours are added every 10°K.) A single cirrus cloud tracer overlying the sea surface is depicted. Temperature values of 244 for cloud top and 292 for sea surface are chosen as input parameters to tracer temperature algorithm.

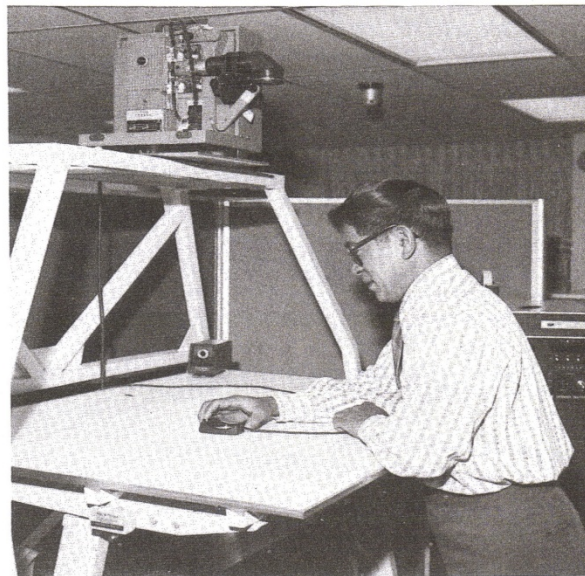


Figure 13-2.--The vector end point extraction station consists of the loop movie projector and the Bendix "Datagrid" Digitizer. Not shown is the attached IBM 029 card punch which provides output.

Wind Vector Digitizer

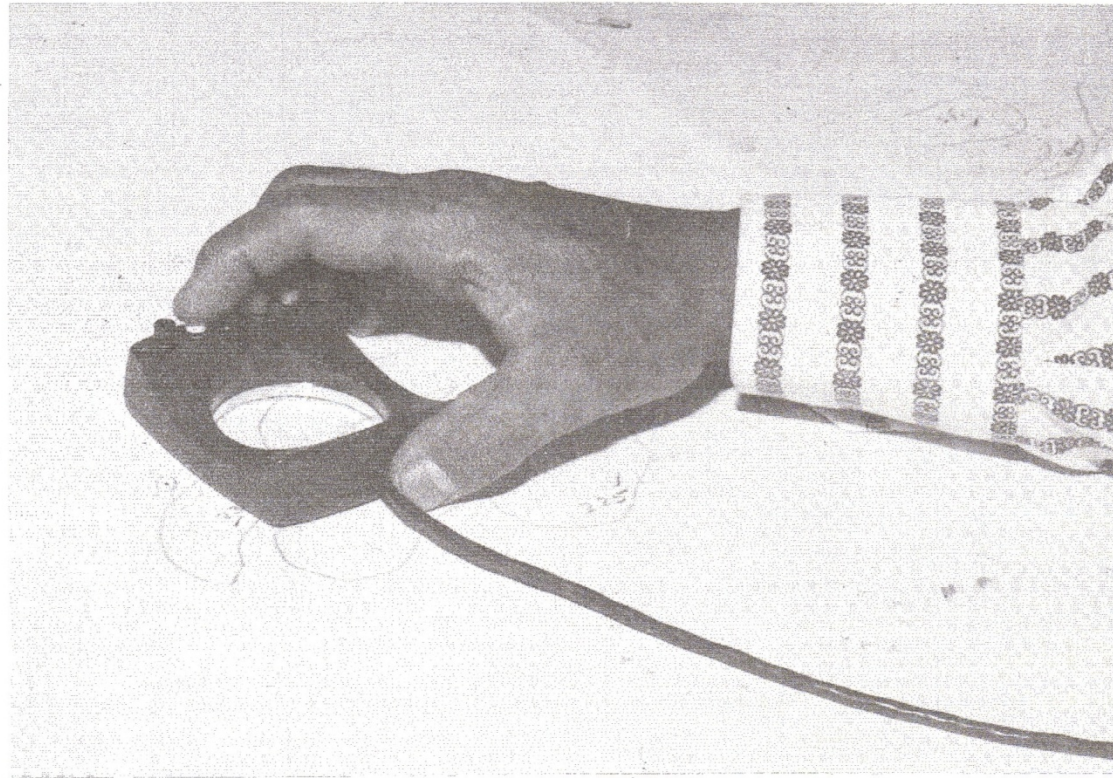


Figure 13-3.--Control buttons on the "Datagrid" cursor provide for activation of the card punch.

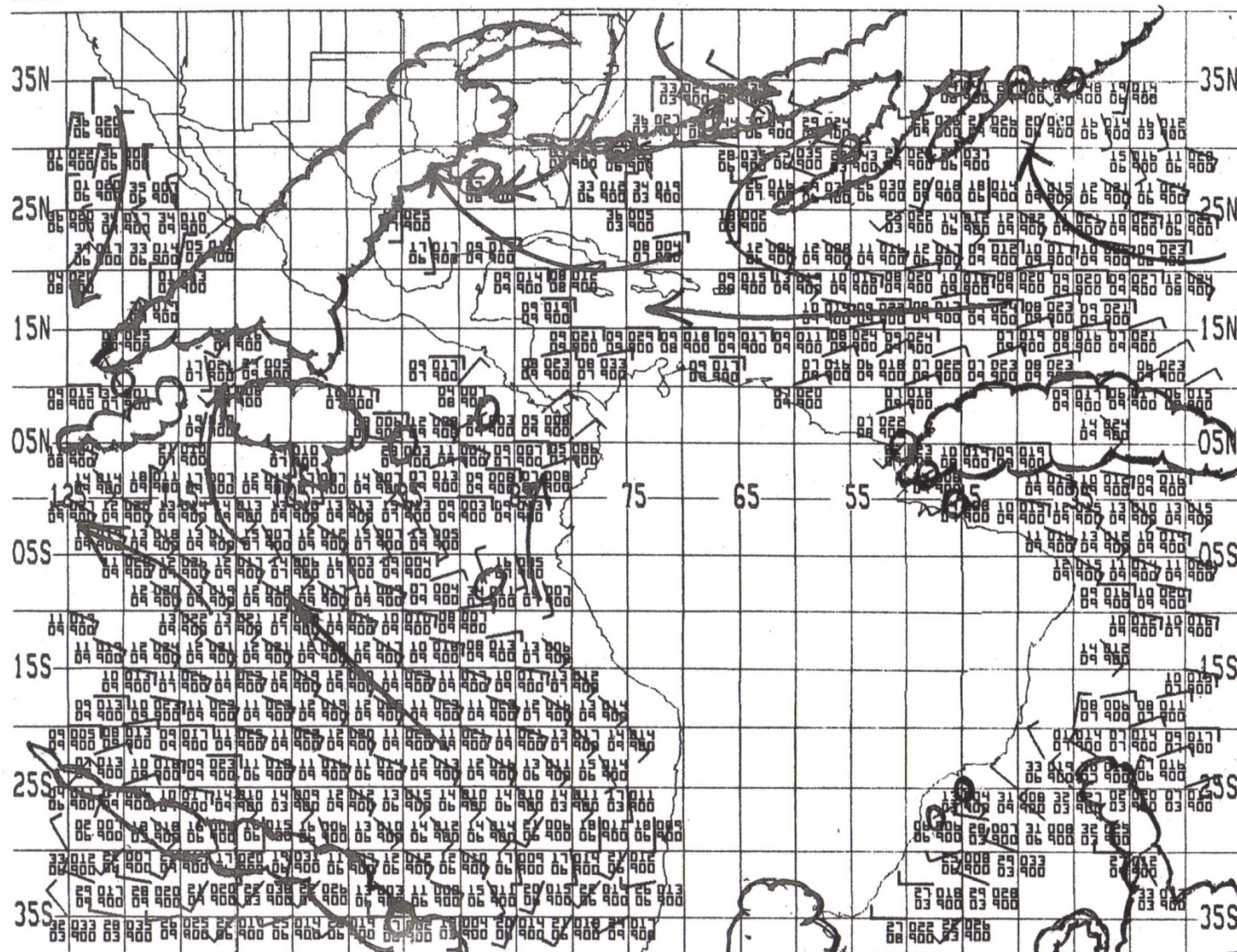


Figure 13-4.--Edit plot showing picture pair vectors and transcribed cloud patterns and synoptic flow indicators.

Reprinted from Preprint Volume: Tenth Conference
on Severe Local Storms. Oct. 18-21, 1977; Omaha,
NE. Published by American Meteorological Society,
Boston, Massachusetts.

CLOUD HEIGHT AND CHANGE ANALYSIS
FROM DIGITAL SMS/GOES SATELLITE DATA

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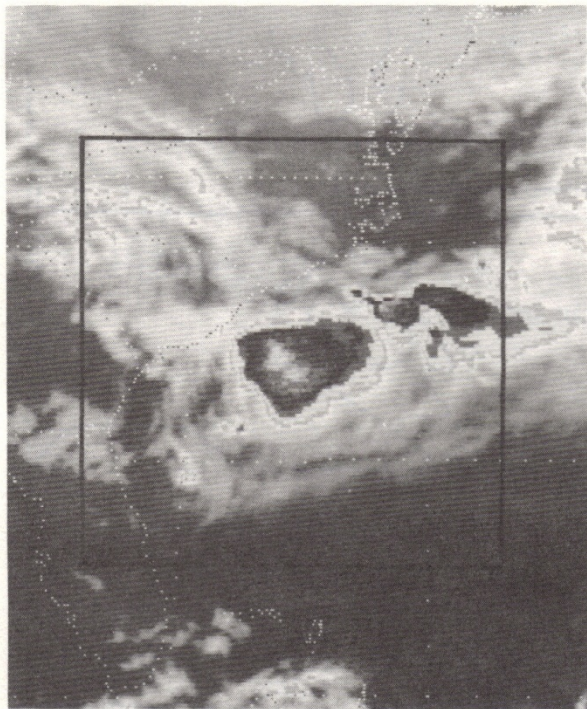


Figure 3. Enhanced thermal IR picture for 0900Z
of 13 June 1977.

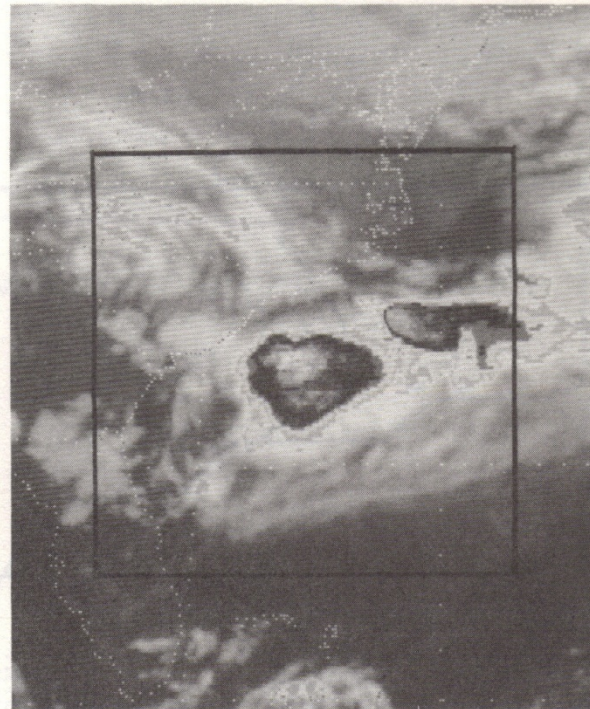


Figure 4. Enhanced thermal IR picture for 1000Z
of 13 June 1977.

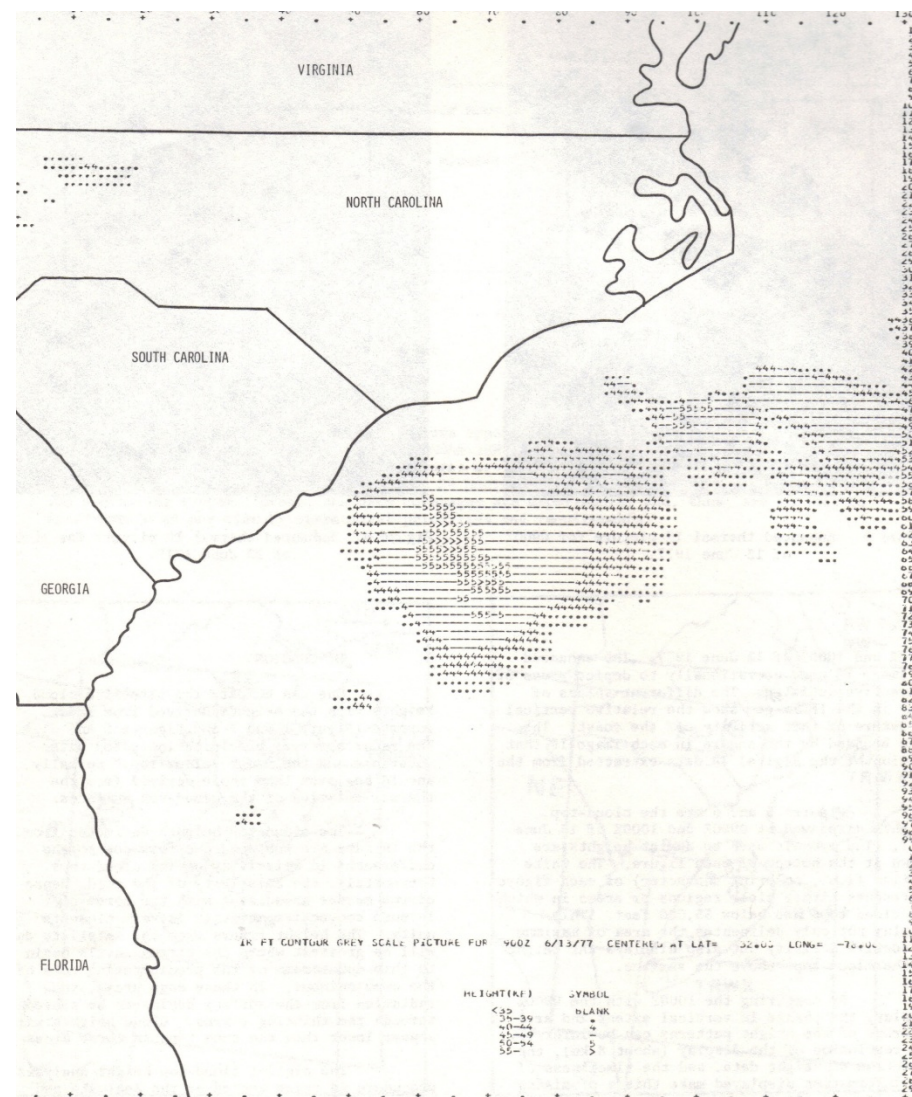


Figure 5. Cloud-top height display from digital IR for 0900Z of 13 June 1977.

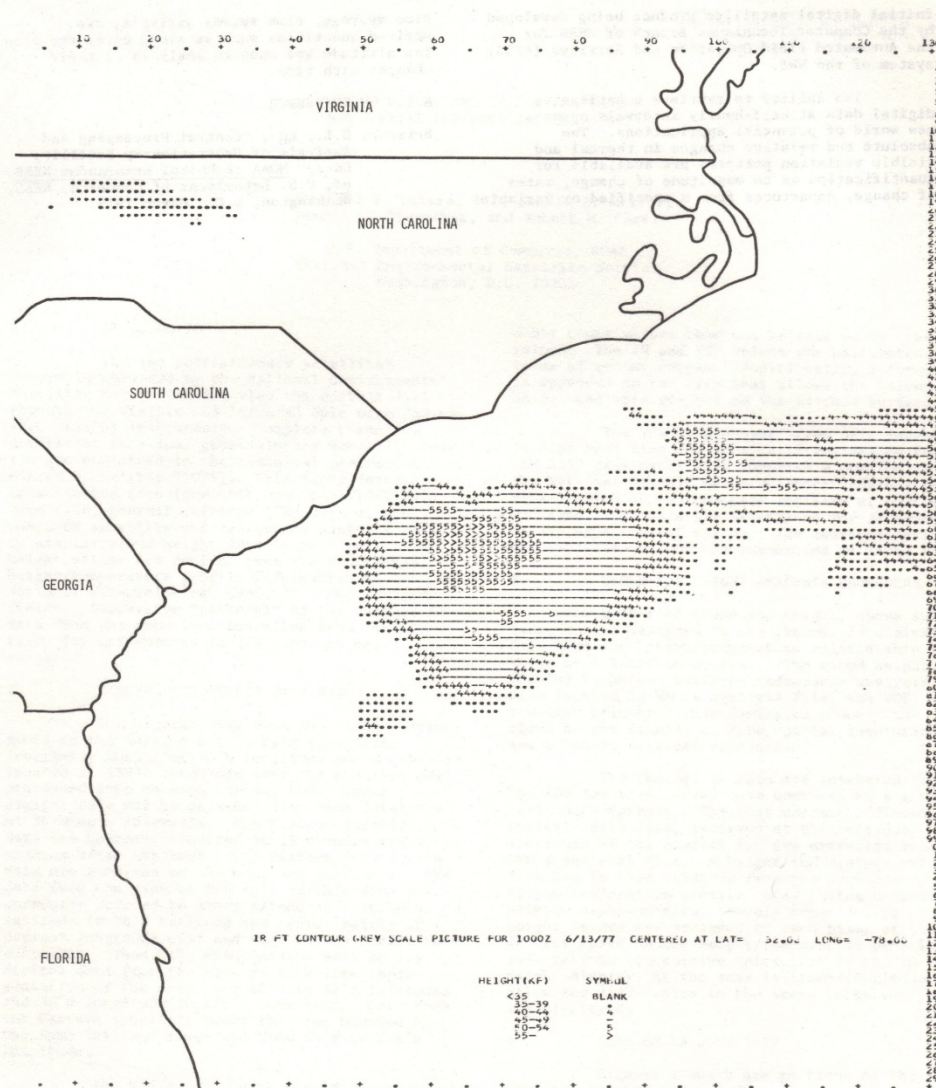


Figure 6. Cloud-top height display from digital IR for 1000Z of 13 June 1977.

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UofMich A&OS Class of 1975



