Satellite

GEORGIA GUST FRONT

Charles Kadin (1) Synoptic Analysis Branch, NESDIS 5200 Auth Road Camp Springs, MD 20748

This sequence of five visible satellite By 2131Z, another interesting effect occurs. images shows the development and evolution As the gust front moves further eastward of a gust front produced by a thunderstorm toward the coast it encounters the afternoon over southern Georgia. Between 1531Z and sea-breeze front causing a secondary de-1731Z, the primary thunderstorm complex moves northward and weakens as a gust front tion develops it begins to drift toward the forms to the east and translates toward the coast. In its wake a clear area develops and enlarges due to subsidence.

velopment of convection. As this new convecwest probably indicating that the sea-breeze front was the stronger of the two mesofronts at the time of merger.

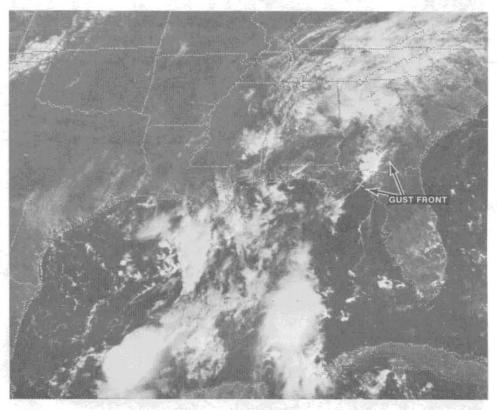


Figure 1. 1531Z 4 September 1983

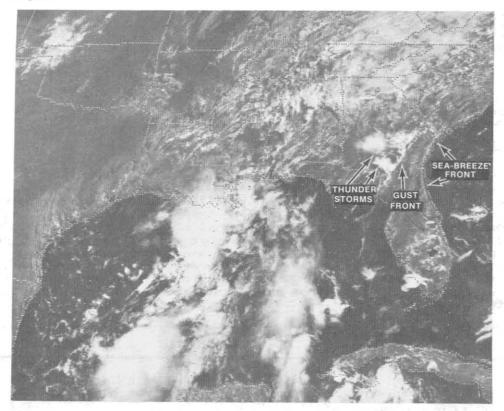


Figure 2. 1731Z 4 September 1983

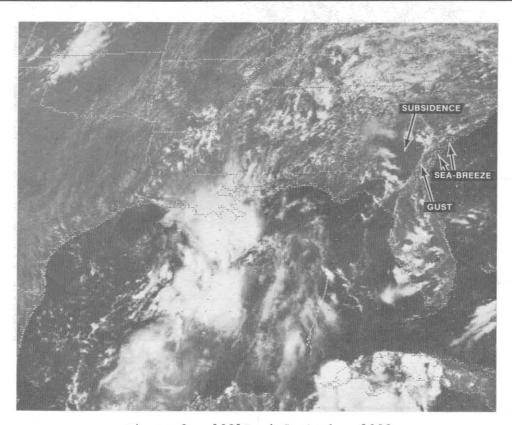


Figure 3. 1931Z 4 September 1983

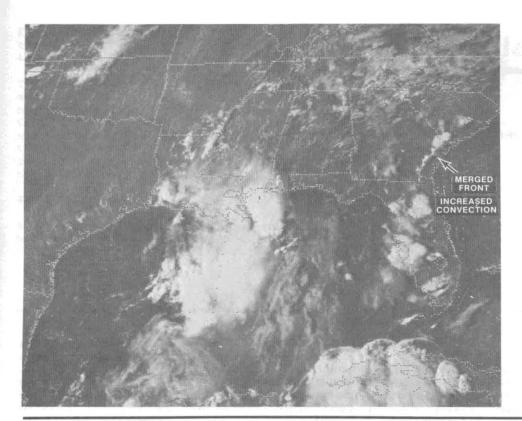


Figure 4.
2131Z 4 September 1983

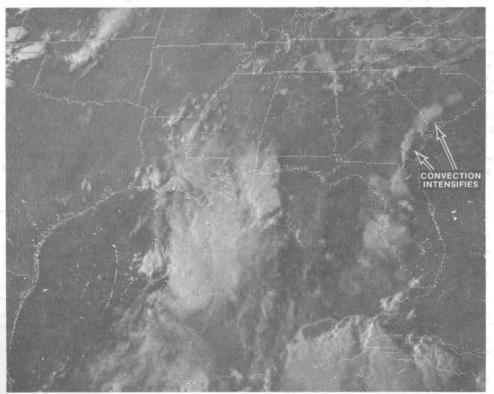


Figure 5.
2231Z 4 September 1983

FOOTNOTES

1. Charles Kadin received a B.S. degree in meteorology from the City College of New York in 1976, and a M.S. degree in Meteorology from the Pennsylvania State University in 1978, where he also

taught undergraduate laboratory courses. After spending some time as a forecaster in the private sector, he joined the staff at the Synoptic Analysis Branch of NESS in January of 1980.