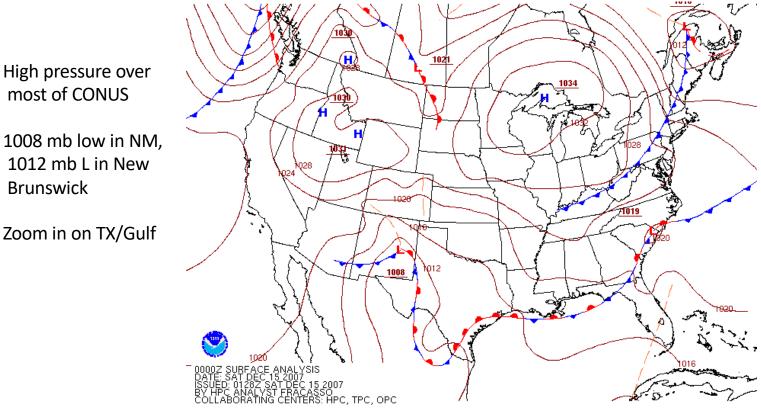
Two days along the polar front

ATM 210 -- Fall 2023 -- Fovell

Surface charts as analyzed/produced/disseminated by National Weather Service https://www.wpc.ncep.noaa.gov

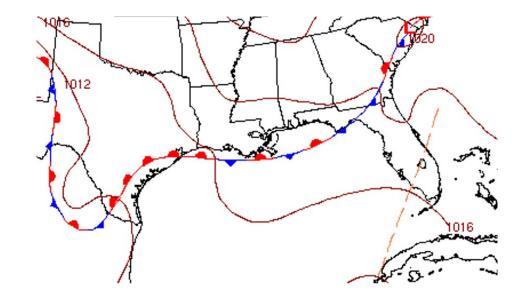
00Z 15 December 2007



Brunswick

00Z = 00 UTC = 00 GMT = 7 PM EST 14 December

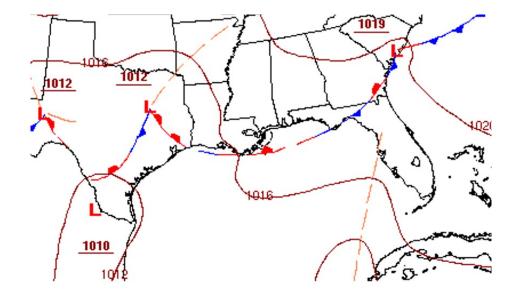
00Z 15 December 2007



Stationary front along Gulf coast. Lowest SLP about 1012 mb

06Z 15 December 2007

6 h later, a low center has formed in E TX. Still 1012 mb. Stationary front reshaped into cold and warm fronts

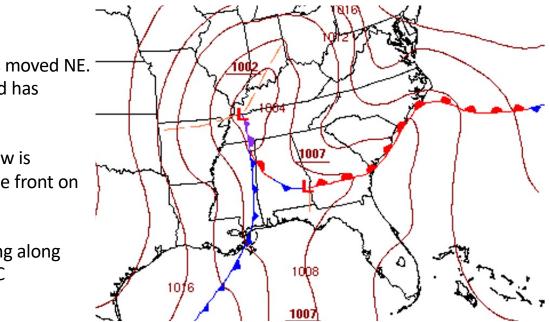


00Z 16 December 2007

18 h later, low has moved NE. Now 1002 mb and has already occluded

A new 1007 mb low is analyzed along the front on MS/GA border

Kinks are appearing along warm front off NC



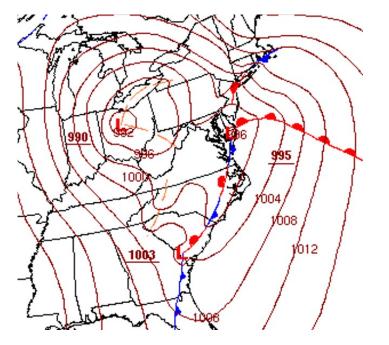
12Z 16 December 2007

Original low deepens to 990 mb but is left to die in OH, far from front

GA low deepens to 1003

Coastal low deepens more quickly, to 995 mb

All along the same air mass boundary

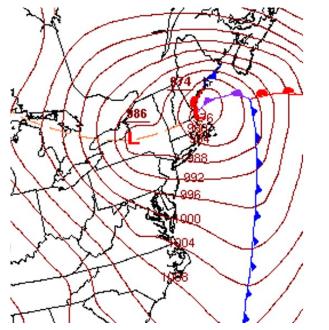


00Z 17 December 2007

Coastal low deepens to 974 mb but is already occluded

Other cyclones dead or dying

The air mass boundaries will move on, spawning more short-lived cyclones



Bjerknes' original life cycle figure

