

## SIO 217B Atmospheric and Climate Sciences II

### Exercise #8

1. Download the files containing  $Z_{1000}$ ,  $T_{1000}$ ,  $u_{1000}$ , and  $v_{1000}$  for 12Z of March 12, 00Z and 12Z of March 13, 00Z and 12Z of March 14, and 00Z of March 15 in 1993. Plot these parameters in the domain 20-55°N, 255-315°E for each of the six time points.
2. Where appropriate, draw cold fronts, warm fronts, occluded fronts, and/or stationary fronts on each of the six plots in order to illustrate the development of the cyclone from its birth as a stationary front on the Gulf coast to its decay as an occluded cyclone over maritime Canada.