

SIO 209 (Winter 2007)

Synoptic Lab

Instructor: Joel Norris 440 NH 822-4420 jnorris@ucsd.edu

Instructor Absence: I do not expect to miss any class day

Website: You should frequently check the website for updates:
http://meteora.ucsd.edu/~jnorris/synoptic_lab/course.html.

Grading: S/U based on classroom participation and weather presentation.

Reading: Students are expected to read a small number of papers and web materials.

Topics:

Interpretation of weather charts and satellite imagery

Fronts and the Norwegian cyclone model

Cloud and precipitation features associated with synoptic systems

Geostrophic balance, hydrostatic balance, and thermal wind

Vorticity

Quasi-geostrophic approximation and the diagnosis of vertical motion

Tropical systems

General circulation

Local weather