Study Sheet

The test will be about 85 multiple choice questions on chapters 1-7, 22-23 plus microphysics and general circulation.

1. Tropopause: why exists, height
2. Pressure varies with height, typical surface pressure
3. meaning of saturation, latent heating
4. UTC time
5. Data used for surface vs upper air maps
6. Rawinsondes, what, when, product
7. Doppler vs conventional radar
8. visible v sir satellite image
9. Isobars, isotherms, height contours
10. Jet Streams, what, where, how high
11. Computer model: what is that?, What is a prog?
12. Parcel vs environmental lapse rate
13. Moist vs dry lapse rate
14. What happens when air rises?
15. What happens when air rises in an unstable vs stable vs conditionally unsytable atmosphere?
16. LCL, LFC, capping inversion
17. Why does stratosphere stop thunderstorms?
18. what is Pressure gradient: force, implied winds
19. Coriolis, friction, turbulence types
20. Friction affects on geostrophic flow
21. air movement vs geostrophic wind around low vs high
22. 4 quadrants of a jet streak
23. El nino : what is it, frequency, where
24. Southern Oscillation: Walker Circulation, where measure
25. Upwelling
26. Saffir–Simpson scale
27. Hurricane vs other names for same thing
28. Hurricane, tropical storm, tropical depression definition
29. Naming tropical storms..at what point?
30. Warm core in TCs..why?
31. Origins of TCs
32. WISHE in TCs
33. Soluble vs insoluble aerosols, concentrartions of soluble
34. shape and size of liquid droplets
35. significance of -20C isotherm
36. wet haze, appearance
37. crystal habits
38. Hadley, Ferrel and Polar Cell
39. Doldrums, trade winds
40. Suns energy used to?
41. Global conveyor belt...why?