Arras meeting 11/12/24

- Orbital period
 - Synchronous rotation = once per orbit
 - Orbital frequency in torque formula
 - Rotation rate is completely separate
 - More rapid rotation = less time to apply force = weaker winds
 - Vary rotation rate but keeping fixed orbital frequency
 - Keep orbital frequency but change rotation
 - Changing it to be slower -> longer
 - Higher frequency
 - Run three simulations: half a day, one day, two days
 - Just change orbital advection piece
- Change pressure at base
 - Range of thicknesses of planetary atmospheres
 - Completely thick gaseous vs thin atmosphere?
 - Not letting stuff go through it = like solid surface
 - Changing pressure (one bar, 2 bars, four bars)
 - How does it affect formulas
 - Thermal tide increases very rapidly with pressure
 - Higher pressures —> forcing weaker (?) delta t = smaller
- Get plot of torque
 - Find average of line
 - Want torque NOT averaging around zero
- Arras and Socrates
 - criticism: treating gaseous as solid surface, thermal tides smaller with no solid surface
 - Increasing base pressure would be interesting
- Make plots of temperature, gas density, pressure