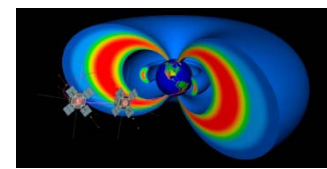
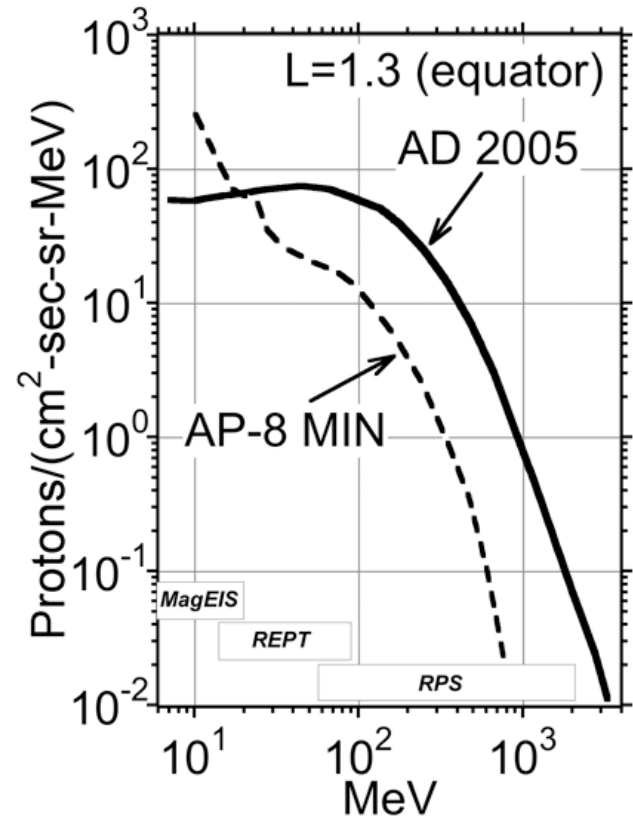




RPS LHF Item



- **The big science question:**
 - What is the energy spectrum of the inner belt protons?
 - This is the first of the RPS science questions.
 - It's general enough to be applicable to the first measurements we make in the inner belt.
- **Required RBSP collaboration is minimal:**
 - Olson-Pfizer-Quiet model will suffice
 - Option to add REPT & MagEIS to extend the energy coverage
- **Required data from RPS:**
 - Universal coordinated time(UTC), SSDA & CRA deposits; singles and coincidence rates, vehicle location, RPS boresight vector, magnetic field vector
 - Estimated incident energy/angle, dead times (including quota effects)
 - Sufficient statistics above 10^2 MeV
 - Agreement between A and B spacecraft to boost confidence in flux calculations
- **Other required assets: model predictions of the energy spectrum**



Example of the wide variation in modeled inner belt spectra (AP8 MIN: Sayer & Vette 1976; AD2005: Selesnick, Looper, & Mewaldt 2007)