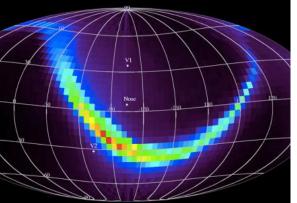
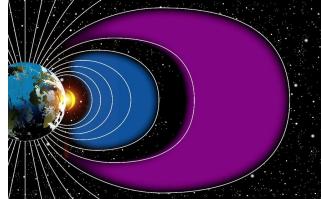
National Aeronautics and Space Administration



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NASA Heliophysics Division 2020 Senior Review Considerations HPAC, December 18-20, 2018 James Spann Chief Scientist Heliophysics Division

19 December 2018

2017 HPD Senior Review – Issue 1

Quote from the 2017 HPD Senior Review TOR:

- "It is understood that predicting the science productivity of a mission over such a long period is speculative, but missions are asked to assume the status quo operationally; hence, the need for Prioritized Science Goals (PSGs) in the proposal."
- There is no requirement for the missions in extended phase to reassess their Level 1 requirements, and thus missions in extended phase are operated under Level 1 requirements
- The thought is that for the HPD 2020 Senior Review, each mission in extended phase be required to
 - Reassess and present revised mission Level 1 requirements
 - Propose revised operations based on that assessment

2017 HPD Senior Review – Issue 2

- The 2017 HPD Senior Review panel discussed the fact that *nominal* prime phase of missions is 2 years, and that many missions when entering their first extended phase, are just then at the peak of their science productivity.
- That consideration of the duration of the nominal prime phase of missions should be made
- The thought is that the nominal prime phase be extended
 - for the larger strategic missions in the Solar Terrestrial Probe and Living With a Star programs, to 5 years;
 - for Heliophysics Explorers program missions to 3 years
- Consideration of the impact on mission cost should not be overlooked. It is more than the extended phase E, but also the mission design to last longer