

Session 18: Current and Future Use of NASA's Deep Space Network

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The JPL RAPSO Baseline Mission Planning Set

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The RAPSO is chartered to divide the limited amount of tracking hours amongst the various missions in as equitable allotment as can be achieved. This paper addresses the mix of missions which are used to determine what the loading factor will be on any one antenna, subnet of antennas, or complex itself. The Baseline Mission Planning Set represents the tracking coverage that should be provided by the DSN, with emphasis on the 70m, 34m, and 26m antennas. Using this Baseline Mission Planning Set, the JPL-RAP Team conducts special studies in which new "proposal" Missions are added on top of the current/approved antenna load to determine the degree to which the tracking requirements of this new "proposal" Mission can be accommodated, or not supported