



Synergistic science in the Jovian system with multiple spacecraft observations

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Abstract

One of the advantages of future investigations from the Jovian system with EJSM is multiple spacecraft observations. For the very first time we will have the chance to do measurements from multiple positions close to and inside the Jovian system. In this presentation we will review the additional science which can be performed by having more than one spacecraft in orbit around Jupiter. Synergistic science topics to be addressable by EJSM are:

- Study solar wind influence on the global magnetosphere configuration by having an upstream monitoring
- study the Jovian system by remote sensing AND in-situ measurements in parallel
- study transport processes and dynamic structure of the Jovian magnetosphere from multiple locations in parallel
- study the local environment of the moons AND the global environment in the magnetosphere in parallel