

JUICE spacecraft charging: Implications for future particle and fields measurements

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- Spacecraft Plasma Interaction Software (SPIS) simulations show minor surface charging of JUICE in typical plasma sheet environments.
- However, environments that might cause larger measurement perturbations include:
 - High density plasma occasionally detected at $9.5 R_J$
 - The plumes of Europa
 - The aurora of Ganymede
- Which surface potentials will the above environment generate? How will this affect the future particle and fields measurements of JUICE?

