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Poster

The modern Heliophysics System Observatory (HSO) allows for comprehensive measurements of the suprathermal ion content associated with a given Corotating Interaction Region (CIR) at different heliographic radial distances. In this study, we compare observations at both Solar Orbiter and ACE to investigate the radial dependence of CIR-associated suprathermal ion intensities and spectra. These radial profiles are compared to observations from Helios and IMP 8 from Van Hollebeke et al. (1978). Additionally, we compare the recent CIR-associated suprathermal ion spectra in the current solar minimum to that observed during the last solar minimum. The Solar Orbiter and ACE observations reveal a radial profile of CIR-associated suprathermal ion intensities that is remarkably consistent with that reported by Van Hollebeke et al. (1978), however, the suprathermal ion intensities are much weaker than those seen in the previous solar cycle. Future observations utilizing the HSO will continue to deepen our understanding of these variations in solar wind populations and their origins.

Meeting name

Whole Heliosphere and Planetary Interactions Workshop

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