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Multipoint Measurements of the Radial Evolution of ICMEs: The October-November 2003 Events

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The solar events of late October, early November 2003 were extraordinary, generating tens of fast CMEs. These events were detected at Wind/ACE/IMP 8 at 1 AU, Ulysses at 5.2 AU, Cassini at 8.8 AU, and Voyager beyond 50 AU, but not necessarily the same ICMEs at these different heliocentric distances. From these data we can learn much about how these structures evolve as they propagate away from the Sun. In fact, their evolution is not too dissimilar than the radial evolution of smaller events at less disturbed time in which the structure expands approximately linearly with distance from the Sun. We compare the evolution of these super-ICMEs with the behavior of typical ICMEs in the inner solar system.