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Solar Wind Implant Simulations for Improved Understanding of Genesis Solar Wind Collector Results. Preliminary report.

Simulations of solar wind ions implanted in ultra-pure Genesis Collector materials are improving measurement results by correcting for ions lost due to back-scatter and providing a way to extrapolate measured implant profiles into contaminated regions. Solar wind is modeled for four different solar wind regimes: Bulk, Coronal Hole, Interstream and Coronal Mass Ejection. Input files for the ion simulation code Stopping and Range of Ions in Matter (SRIM) are generated for each regime and isotope of each element studied. Results and impact on the Genesis mission science will be discussed. (Received February 11, 2014)