



ENA Images of the Heliosheath (5-55 keV) from Cassini/INCA: Updated with data 2010-2012

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We have published energetic neutral atom (ENA) images of the heliosheath from cumulative observations (2003 through 2009) of the Cassini/INCA ENA imager in orbit around Saturn. We have now augmented the data set to include observations during 2010-2012. All-sky maps are made in four energy channels (5-55 keV). The spatial coverage for a given year period depends upon the INCA viewing directions, which vary considerably from year to year due to the evolution of the Cassini orbit. Contamination due to the Sun (which moves 12deg/yr along the ecliptic) and to Saturn's magnetosphere must be carefully removed, but fortunately the obscurations due the Sun and Saturn move across the sky. Consequently, some regions of the sky are sampled in a half-year by the 90degx120deg INCA field of view with sufficient ($6^\circ \times 6^\circ$) pixel statistics to allow quantitative interpretation of spatial structure and energy spectral dependence in these individual regions. The most recent data (2010-2012) contains some of the best ENA samplings of regions so far. Of particular interest are the regions associated with the pixels containing Voyager 1 and Voyager 2. We will report on this work in progress. See also the poster by Dialynas et al. (this Conference).