

Geophysical Research Abstracts,
Vol. 10, EGU2008-A-11585, 2008
SRef-ID: 1607-7962/gra/EGU2008-A-11585
EGU General Assembly 2008
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Heliospheric Streamers and Corotating Interaction Regions: Comparison Between Model Calculations and STEREO Observations

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We have generated a time dependent 3-dimensional description of the electron density distribution out to 1 AU using the ENLIL model at the Community Coordinated Modeling Center (CCMC). Using this electron density description we have computed the brightness measurements that would be observed by coronagraphic instruments such as SECCHI using the Raytrace package. We compare the computed images with the actual SECCHI observations of streamers, the heliospheric current sheet and corotating interaction regions and also the in-situ observations from Plastic and Impact.