



Local Interstellar Hydrogen Variability observed by IBEX

L. Saul (1), P Wurz (1), D Rodriguez (1), D McComas (2), S Fuselier (2), E Möbius (3), H Kucharek (3), and Bzowski (4)

(1) University of Bern, Physikalisches Institut, Space & Planetary Sciences Division, Bern, Switzerland

(saul@space.unibe.ch), (2) Southwest Research Institute, San Antonio, Texas, USA, (3) University of New Hampshire, Durham, New Hampshire, USA, (4) Space Research Centre, Warsaw, Poland

IBEX-LO has enabled us to sample local interstellar neutral hydrogen gas directly. We present a review of these observations. In contrast to observations of interstellar neutral helium, the hydrogen fluxes show substantial variability over the three years of observation. This is because the neutral Hydrogen entering the heliosphere is much more sensitive to solar variability. We explain the variability of this signal, and its differences from the interstellar helium signal, and how these observations can be used as a constraint of heliospheric models.