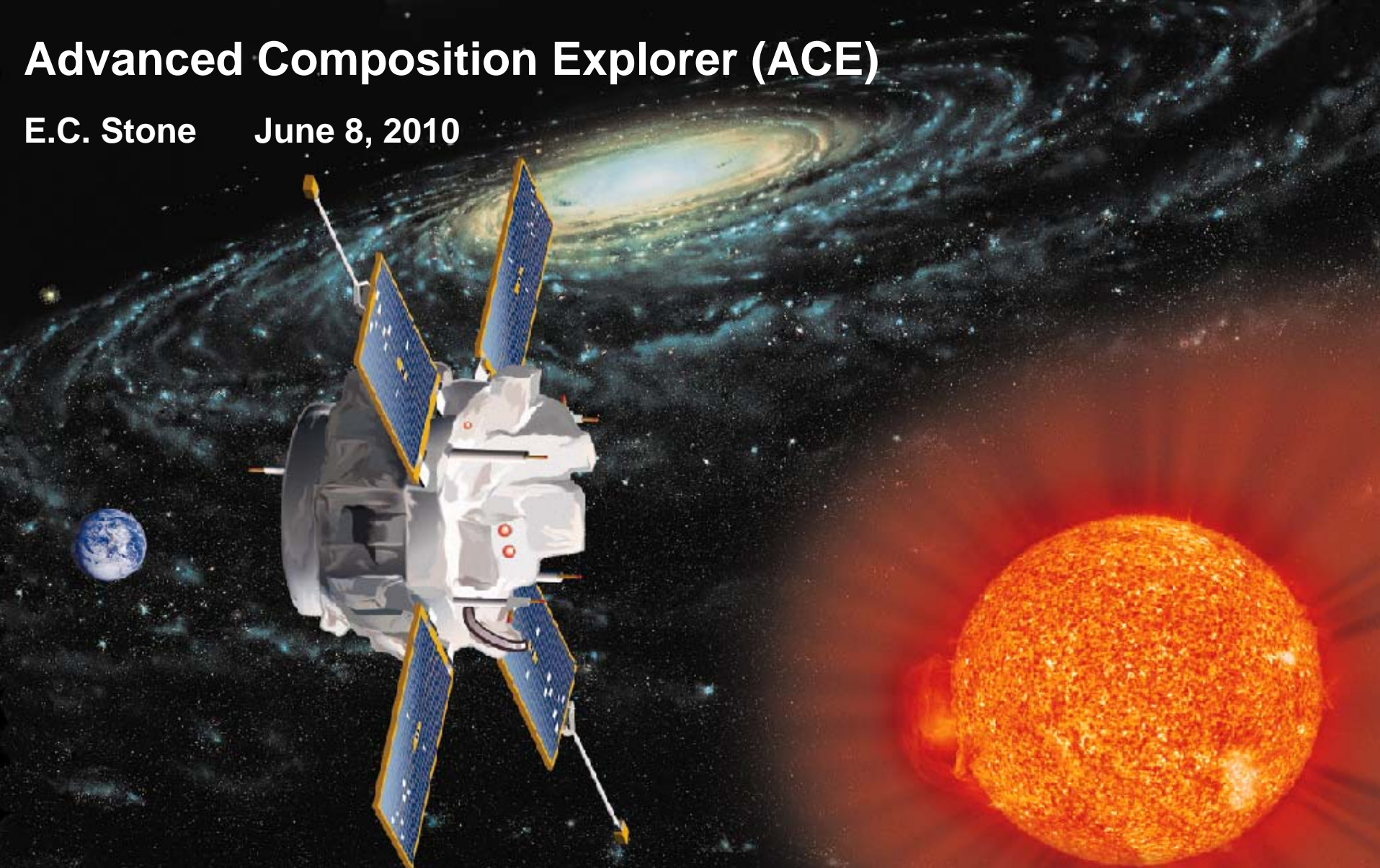
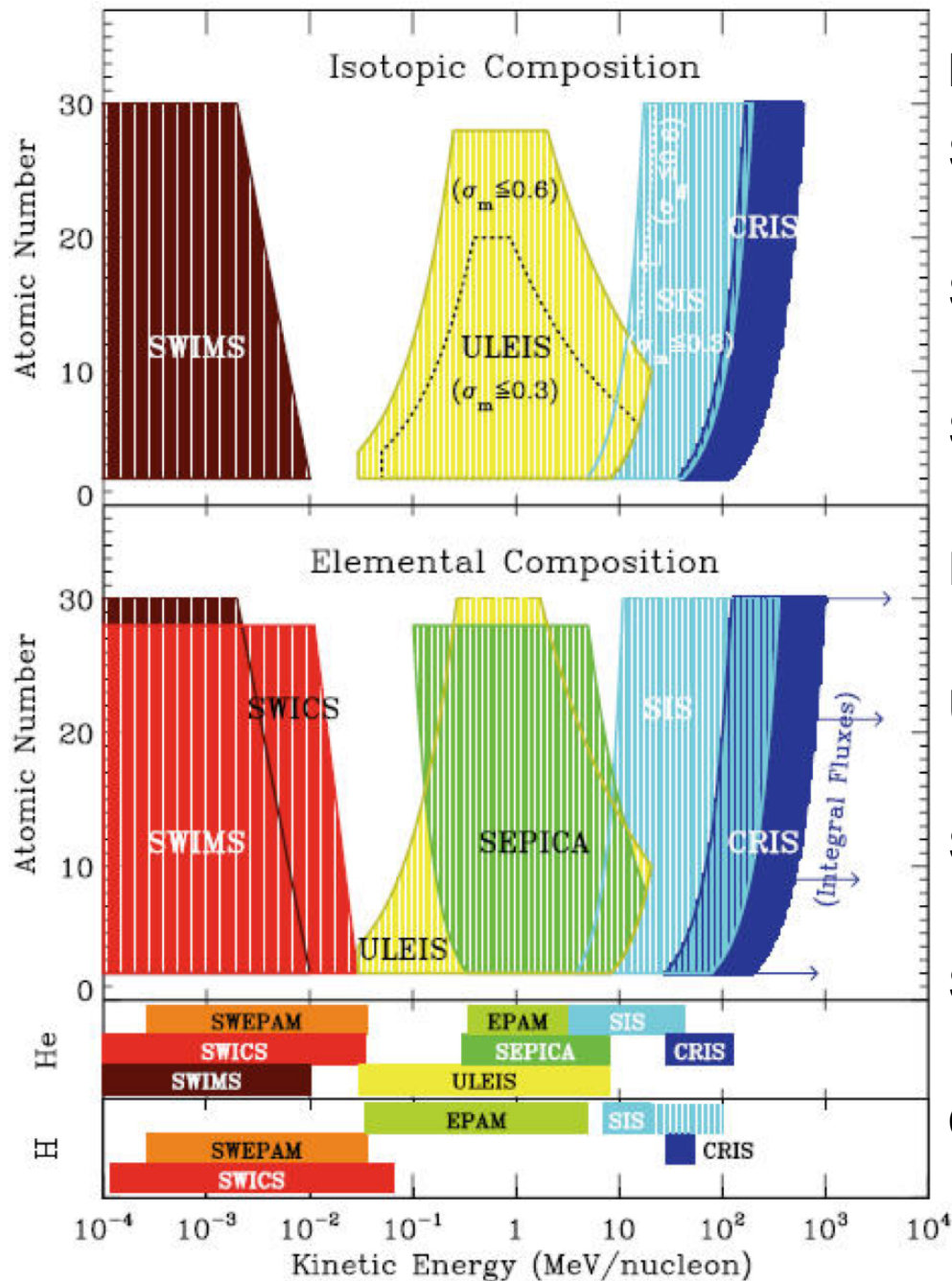


Advanced Composition Explorer (ACE)

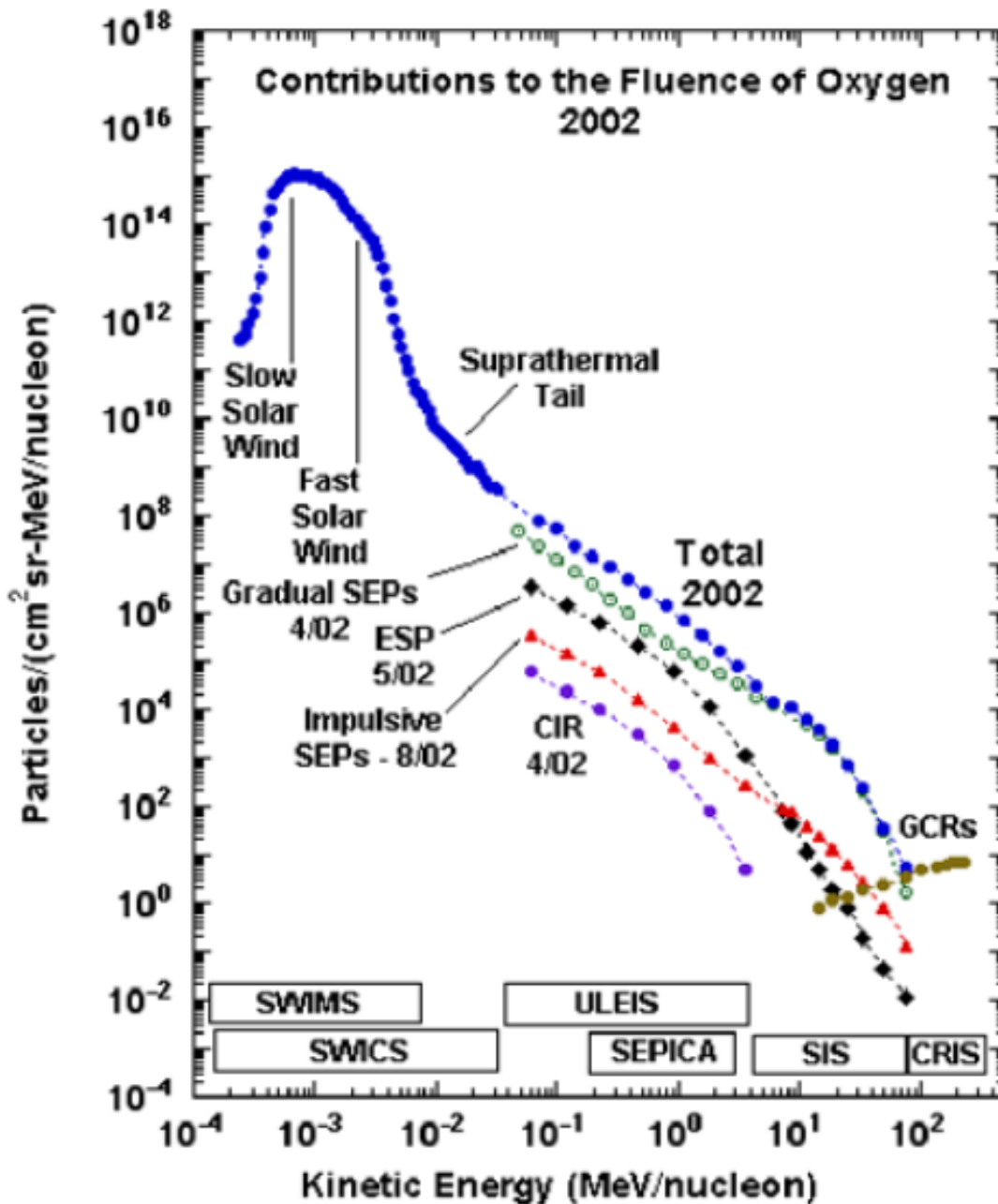
E.C. Stone June 8, 2010

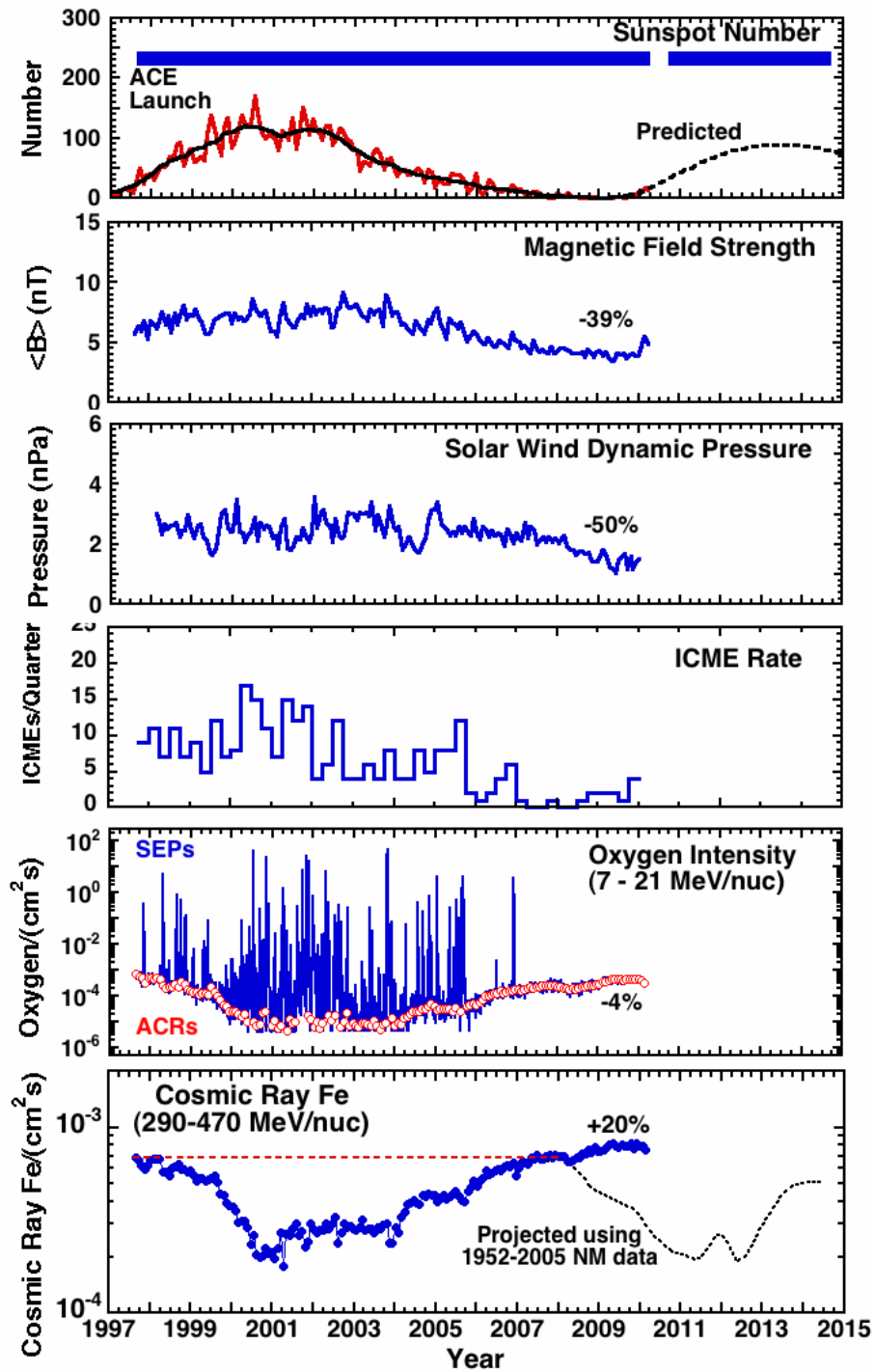


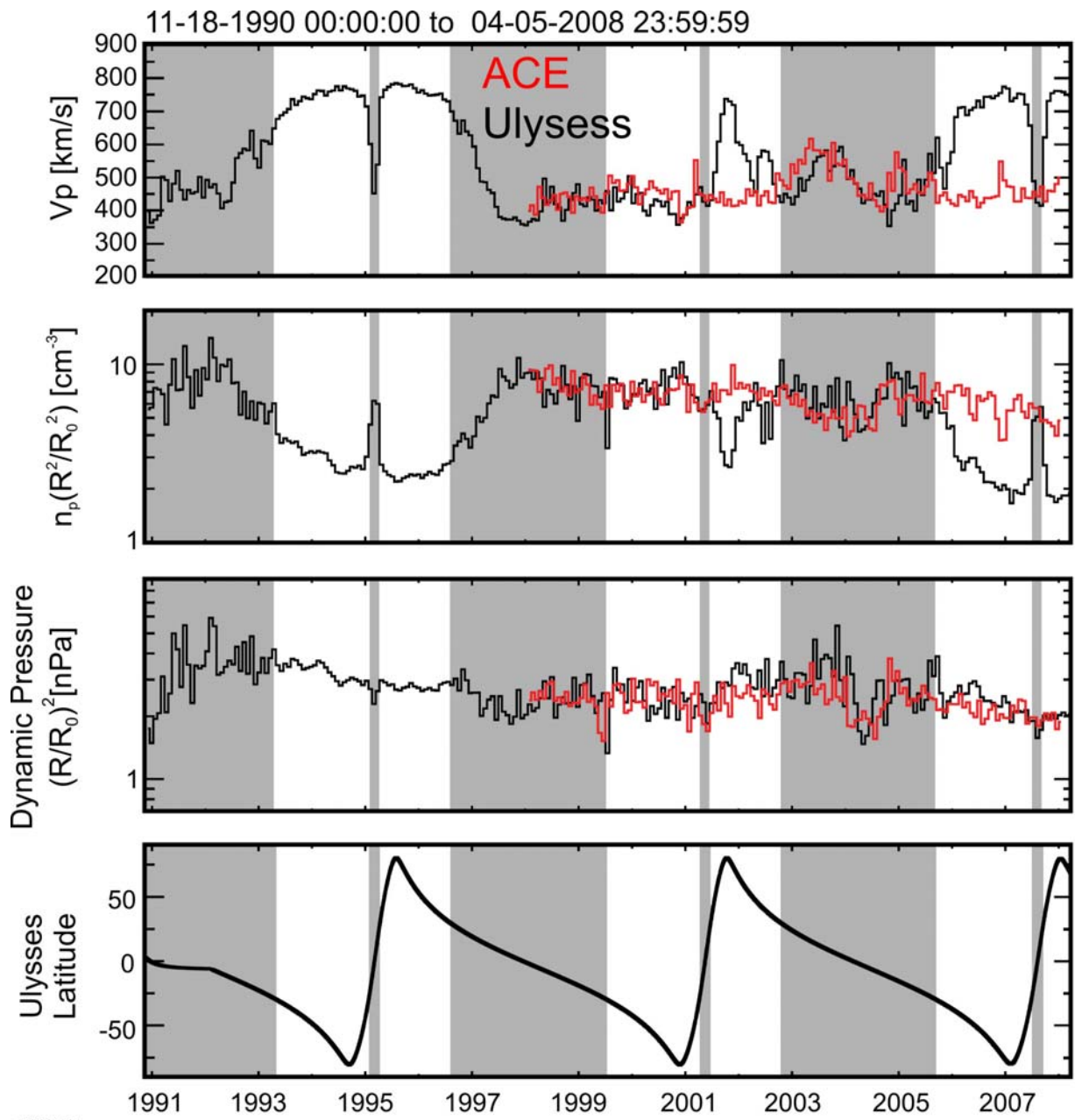
T. T. von Rosenvinge, R. A. Mewaldt, W. R. Binns, L. F. Burlaga, A. C. Cummings, G. Gloeckler, R. E. Gold, B. Klecker, S. M. Krimigis, G. M. Mason, D. J. McComas, E. Moebius, N. F. Ness, R. M. Skoug, C. W. Smith, M. E. Wiedenbeck, R. Wimmer, T. H. Zurbuchen



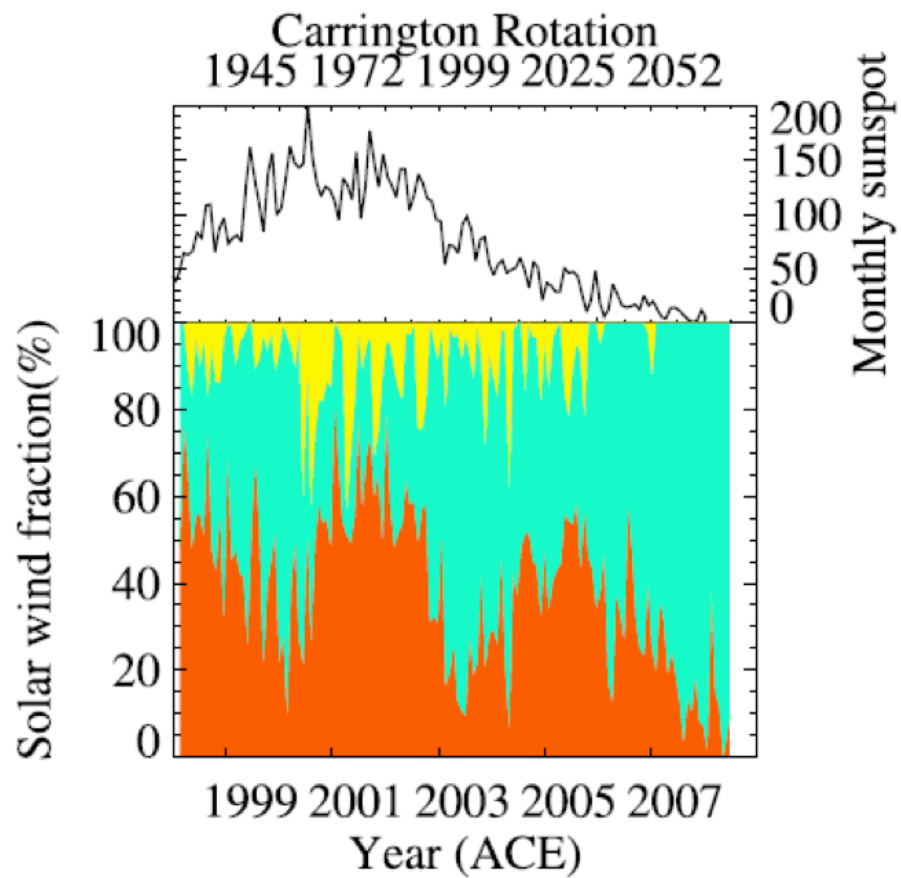
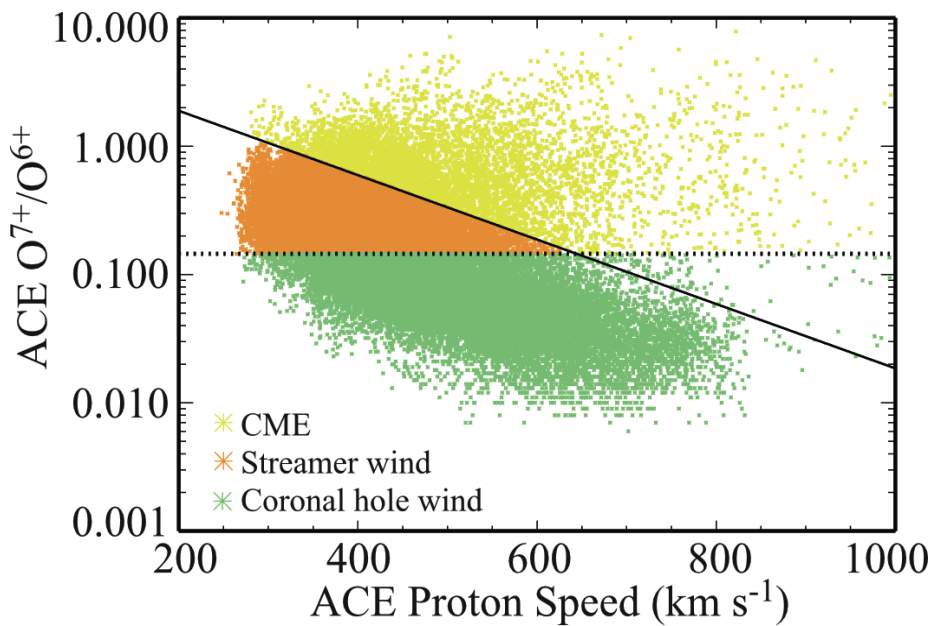
MAG	Magnetometer
SWEPAM	Solar Wind electron Proton Alpha Monitor
SWICS	Solar Wind Ion Composition Spectrometer
SWIMS	Solar Wind Ion Mass Spectrometer
EPAM	Electron Proton Alpha Monitor
ULEIS	Ultra Low Energy Ion Spectrometer
SEPICA	Solar Particle Ion Composition Spectrometer
SIS	Solar Isotope Spectrometer
CRIS	Cosmic Ray Isotope Spectrometer



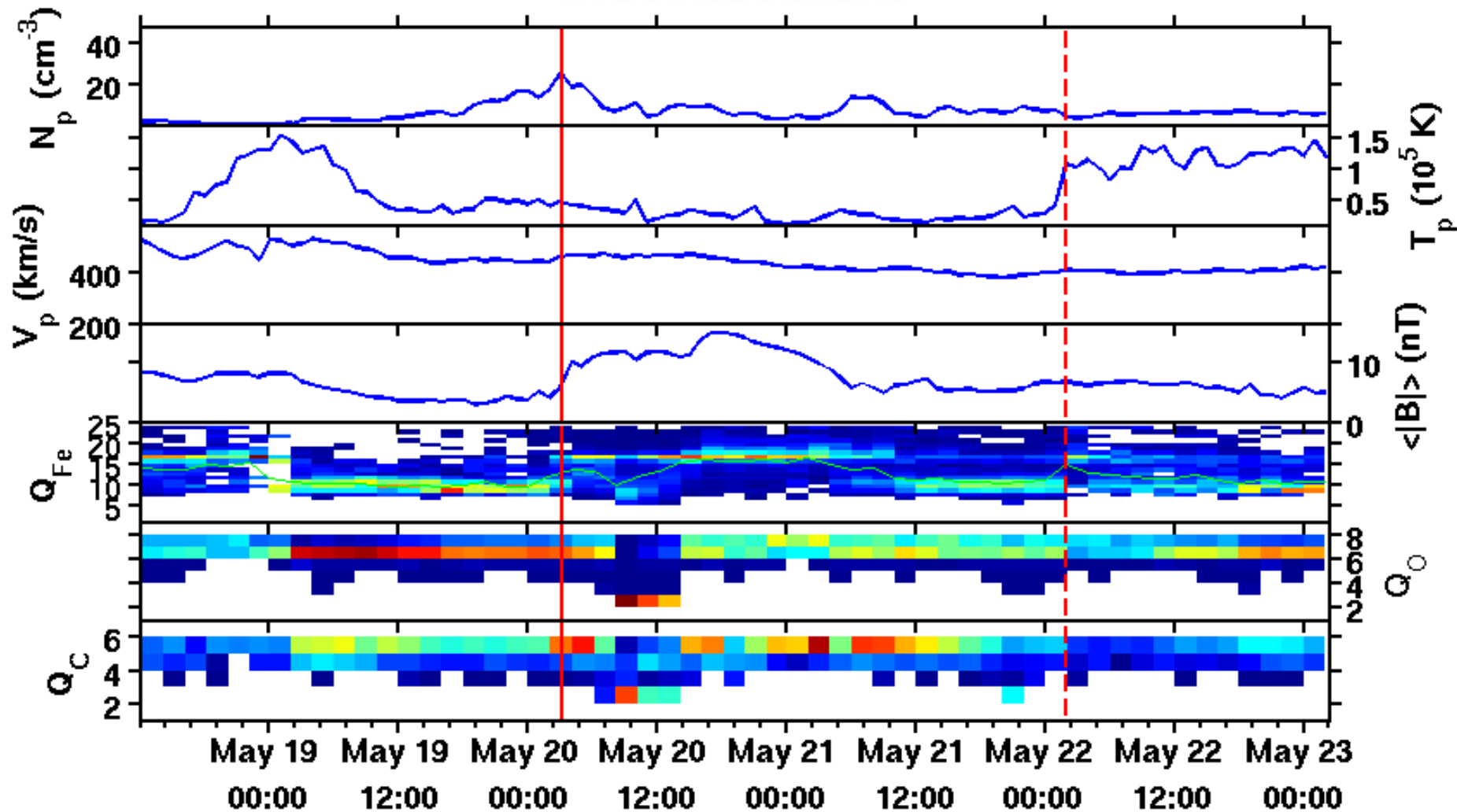




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ACE SWICS Data 2005

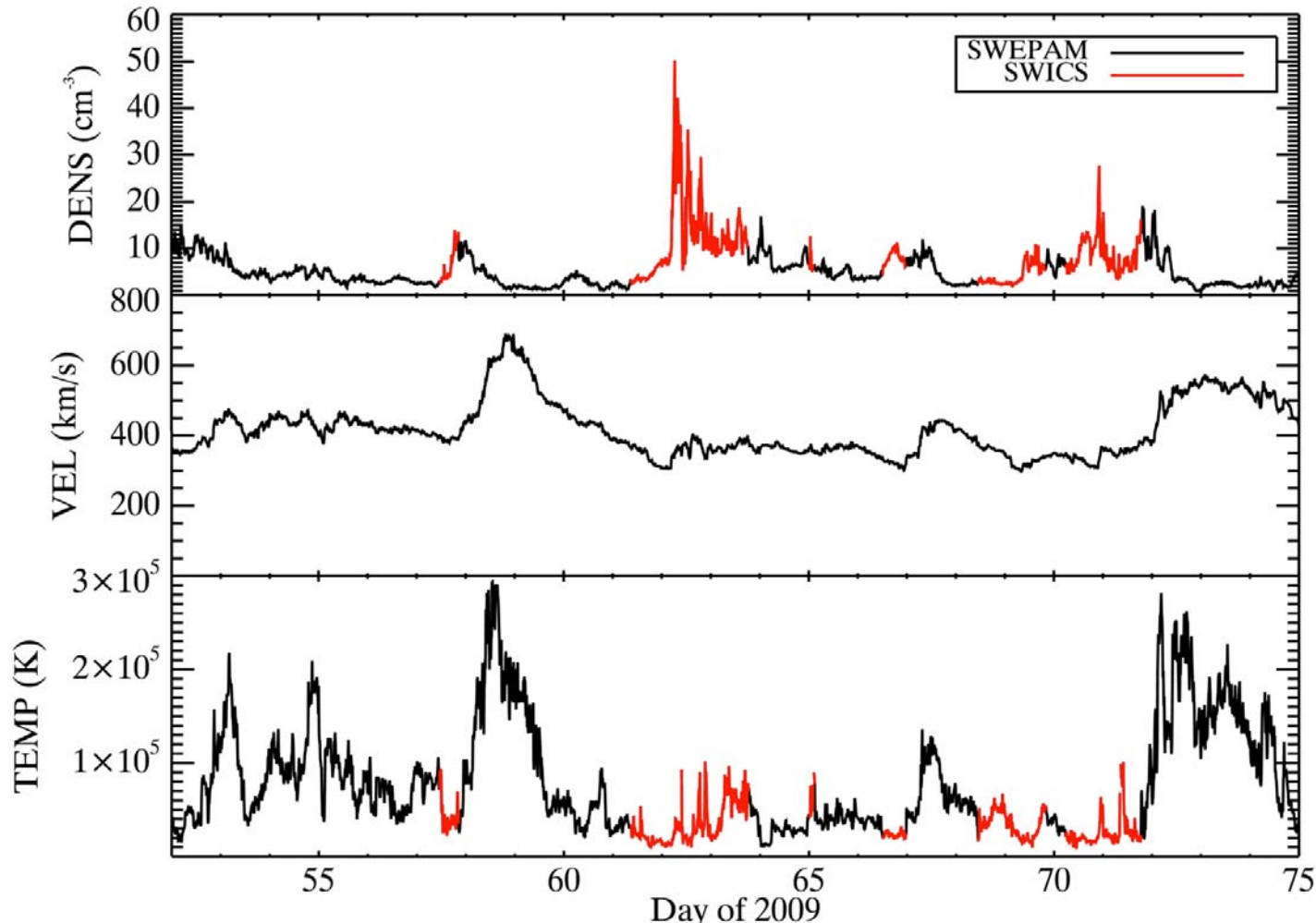


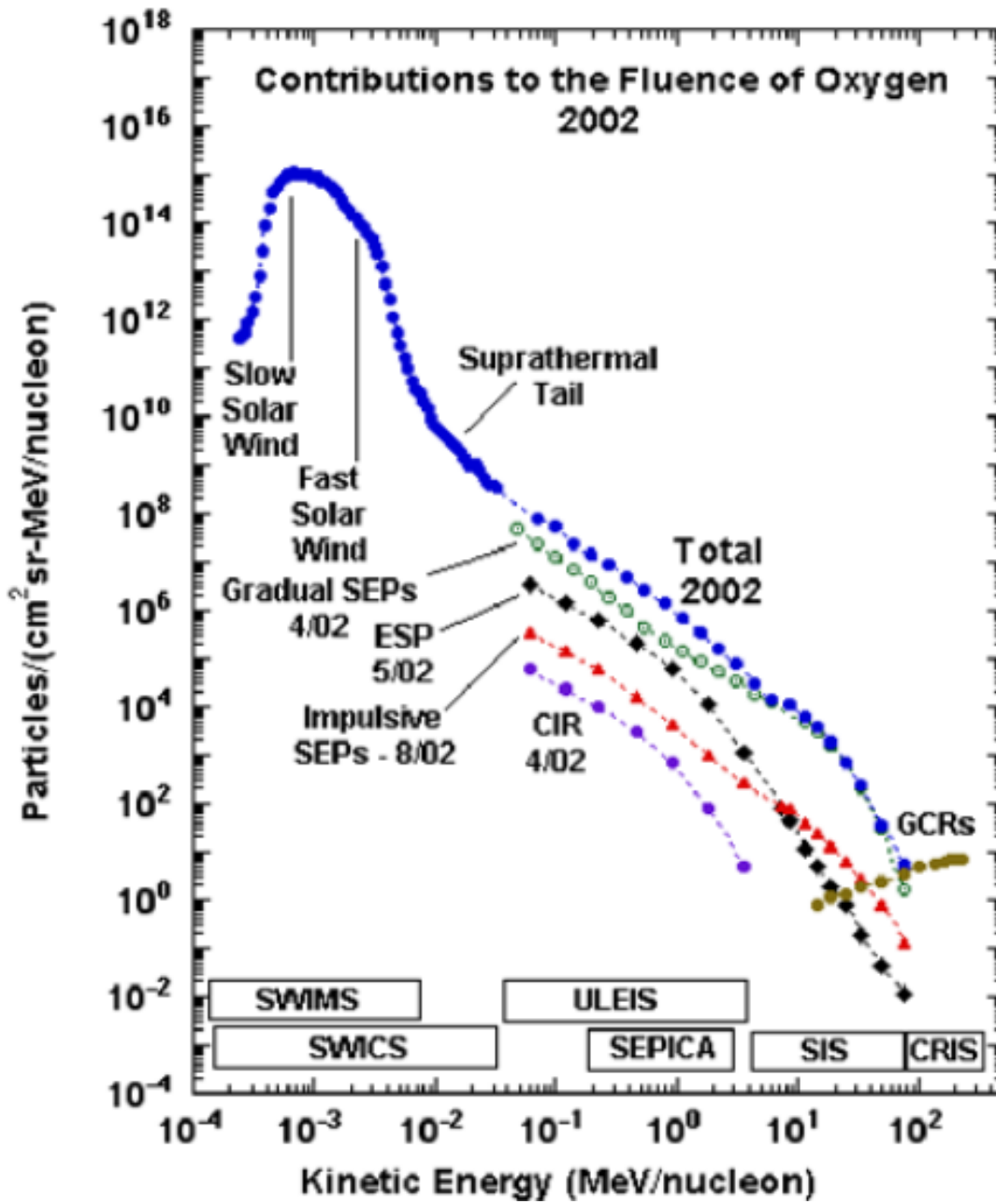
Cold prominence material with low charge states in an ICME

C^{2+} O^{3+} Fe^{7+}

New Merged Data Set for Enhanced Solar Wind Proton Data from ACE

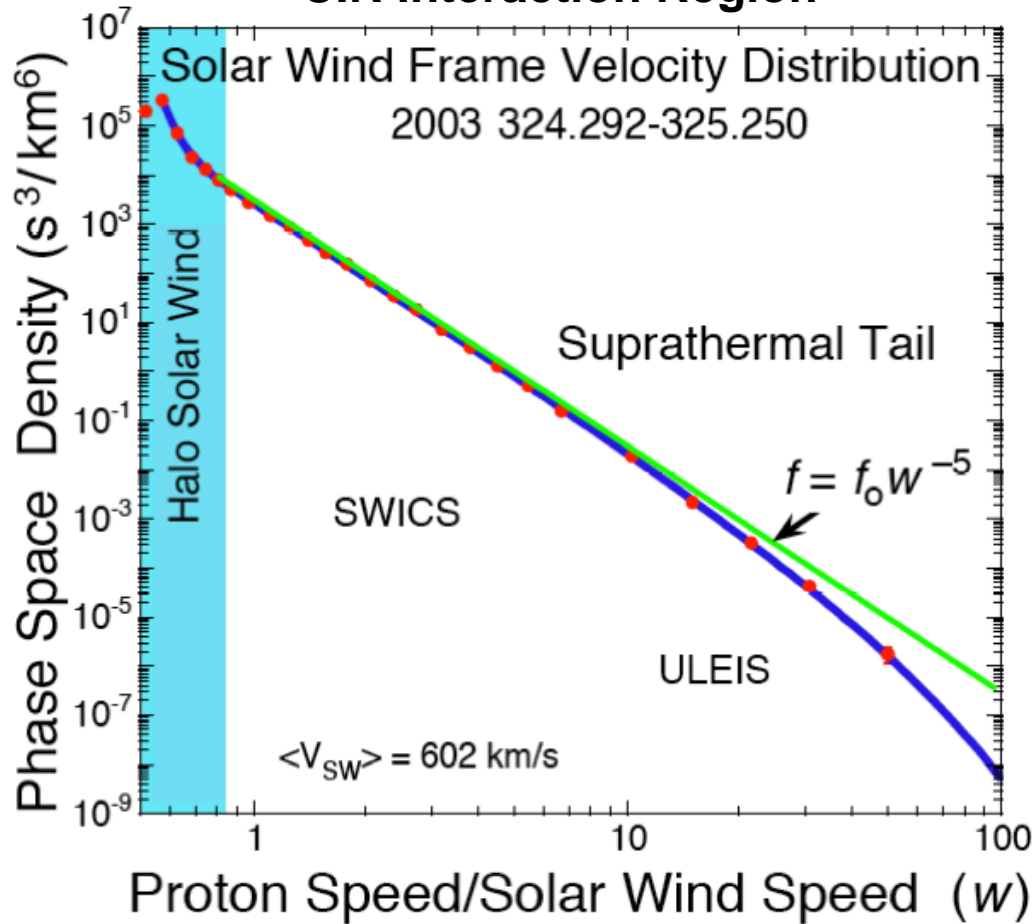
- After several years of cross-calibration work SWEPAM and SWICS data have been merged into a new data set with 12-minute resolution
- Provides more complete coverage
- Includes almost 40 quantities and distributions
- Released 2/12/10

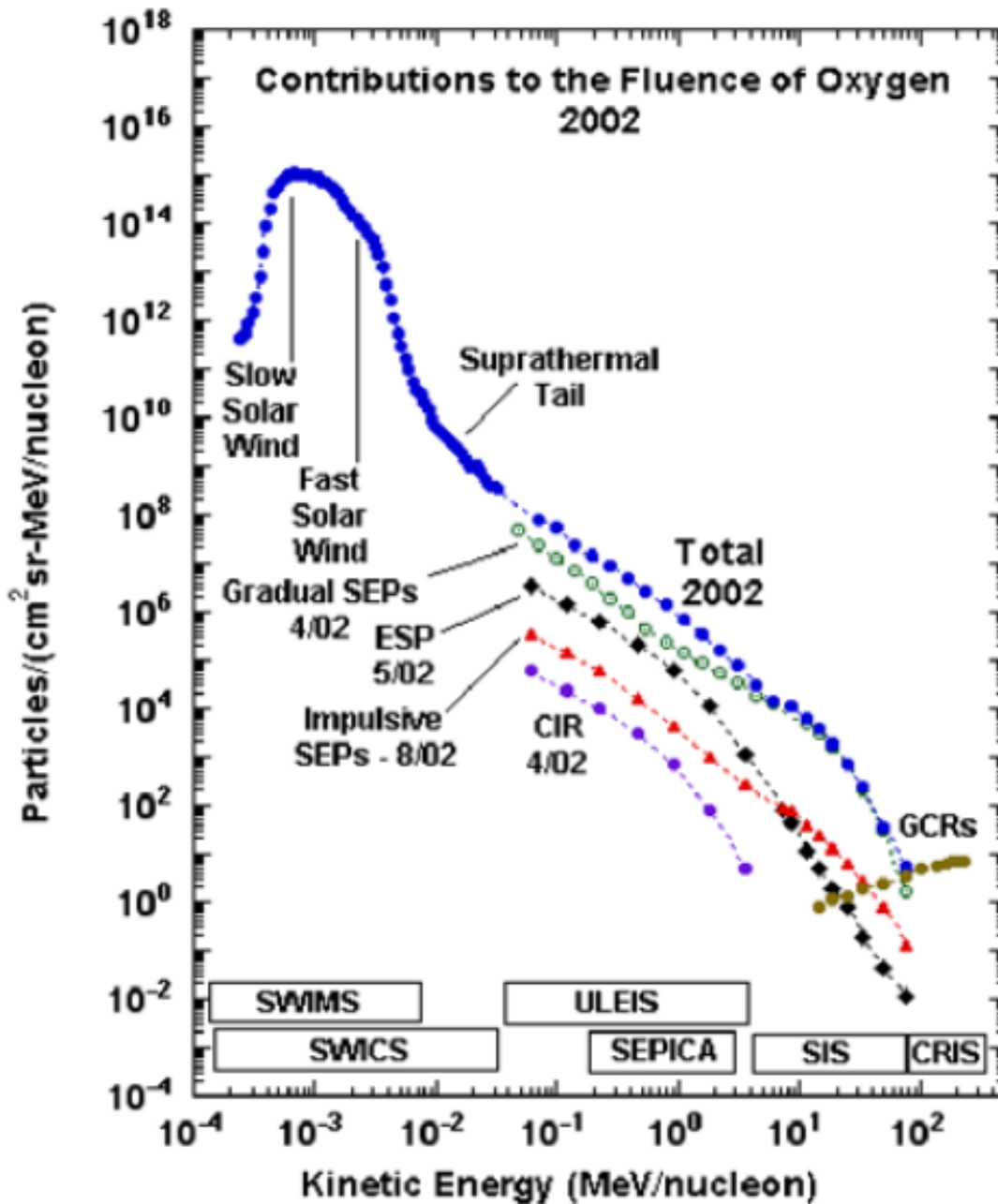


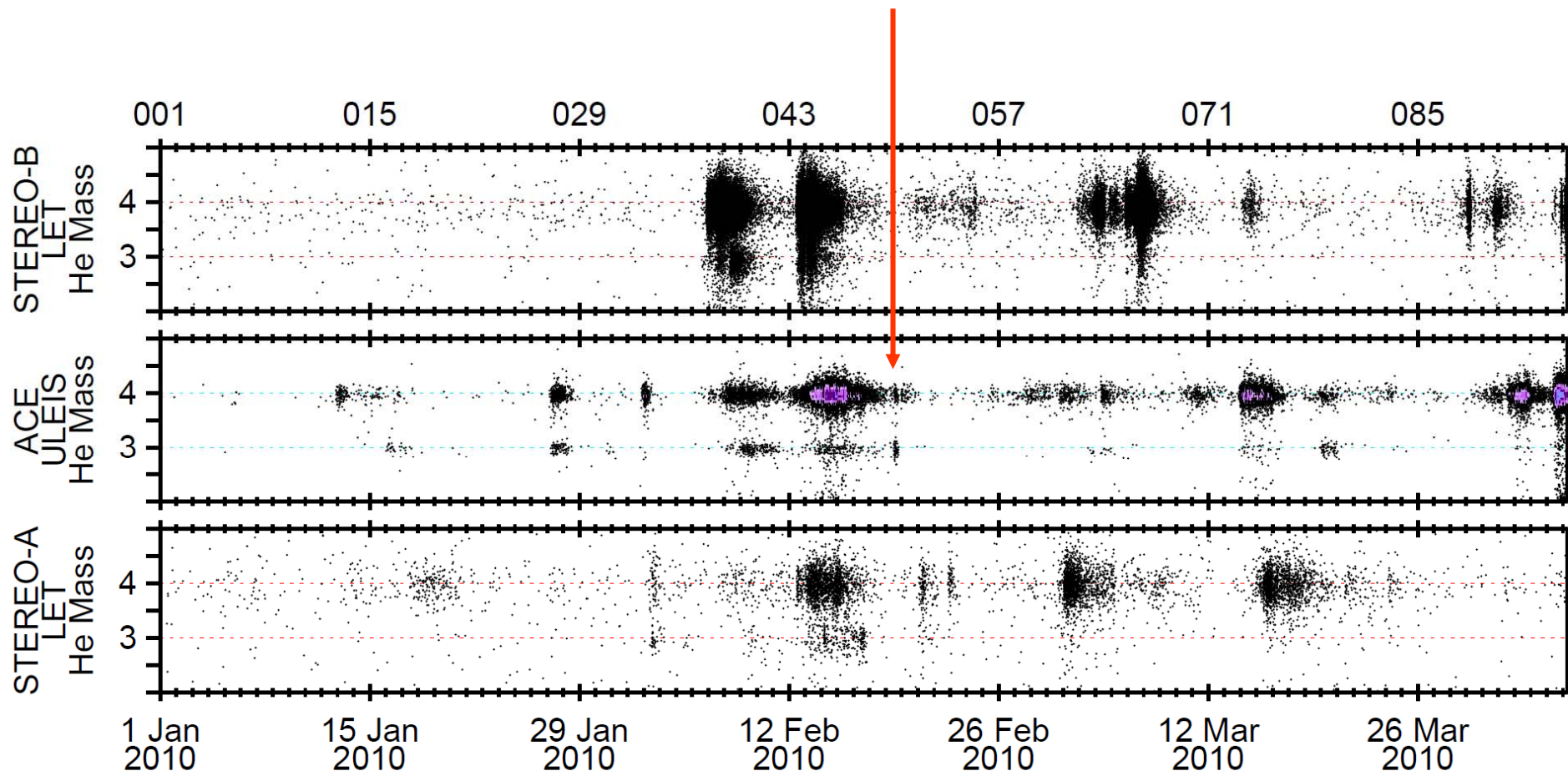


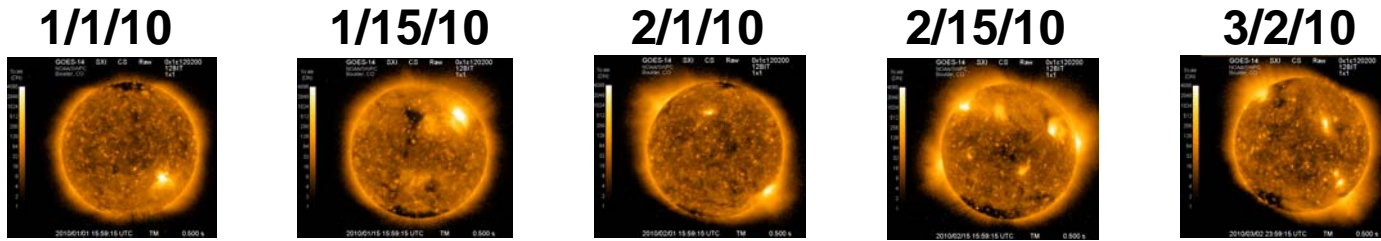
Suprathermal Tails

CIR Interaction Region

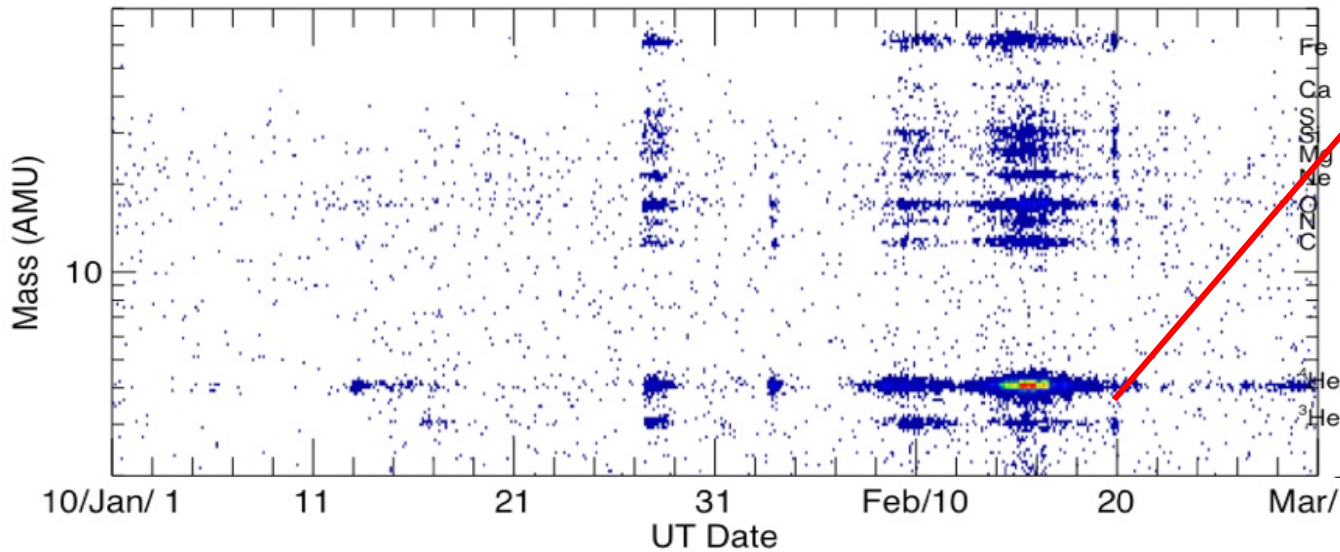
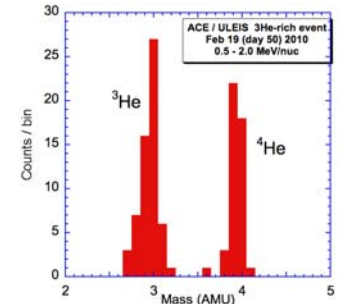
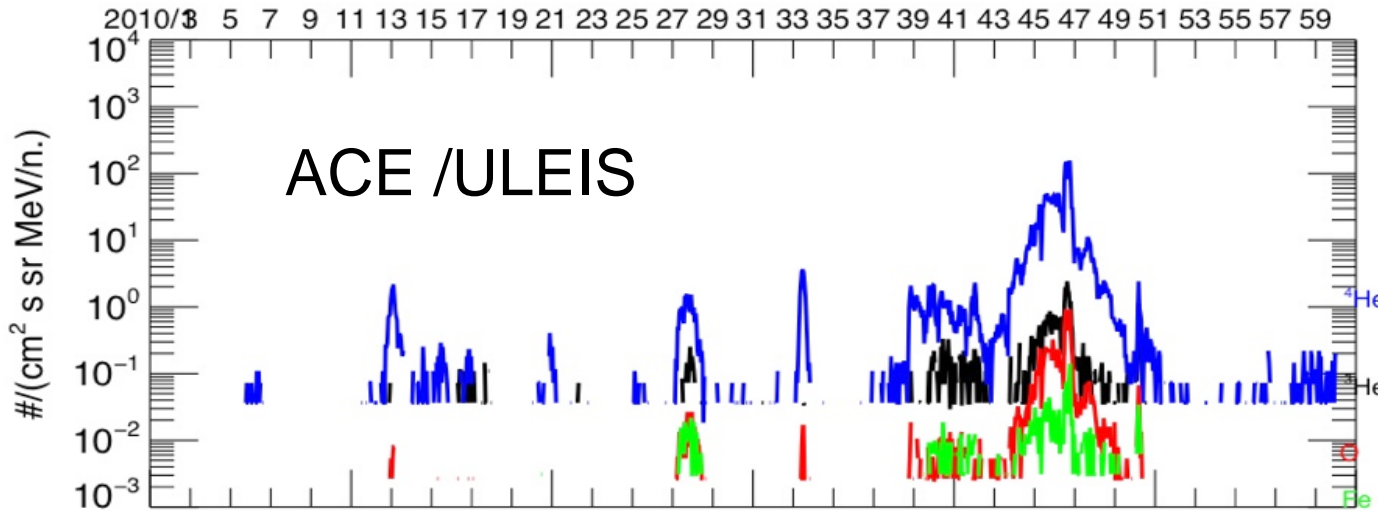


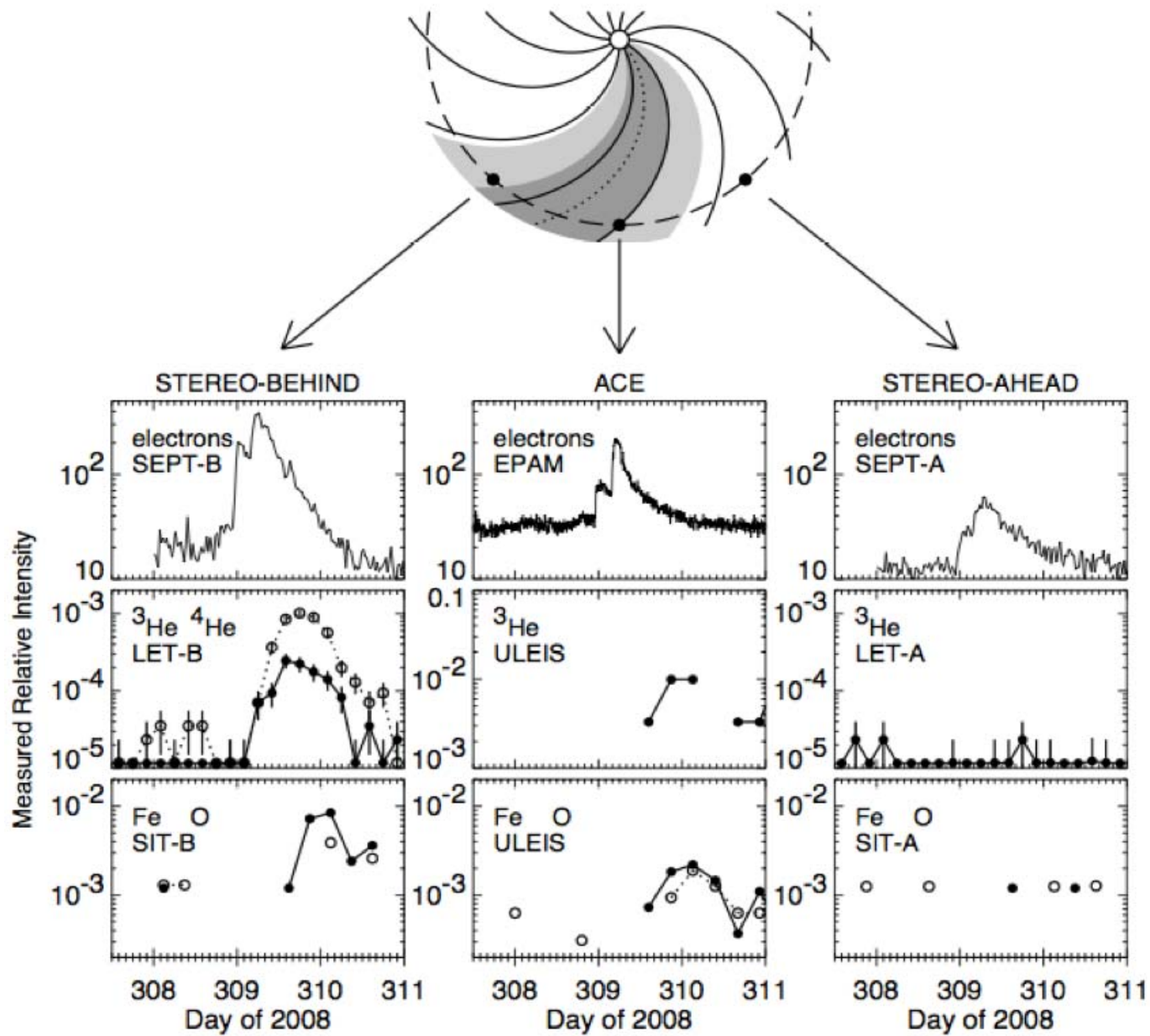


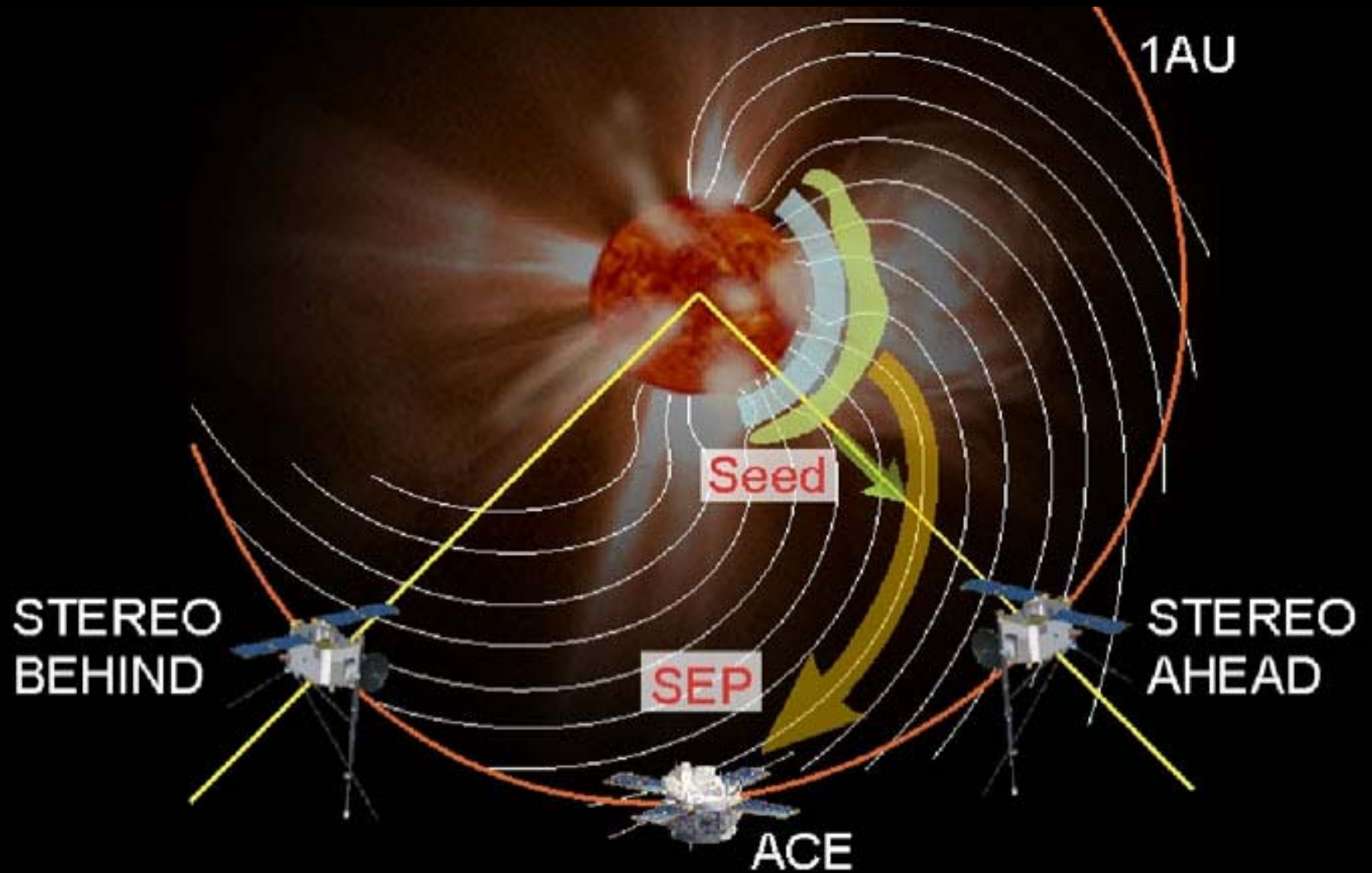




Mon Mar 8 11:39:39 2010

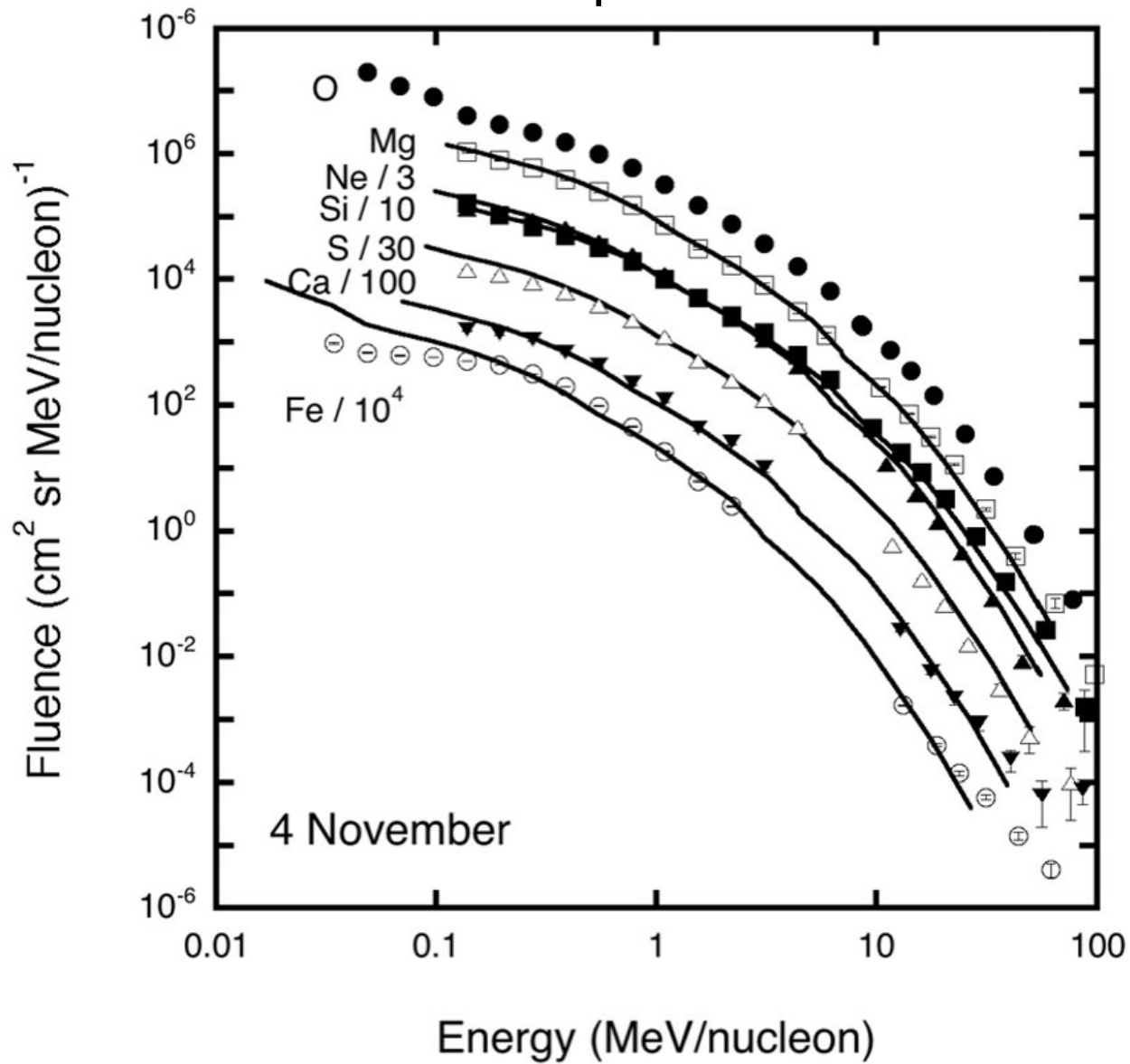


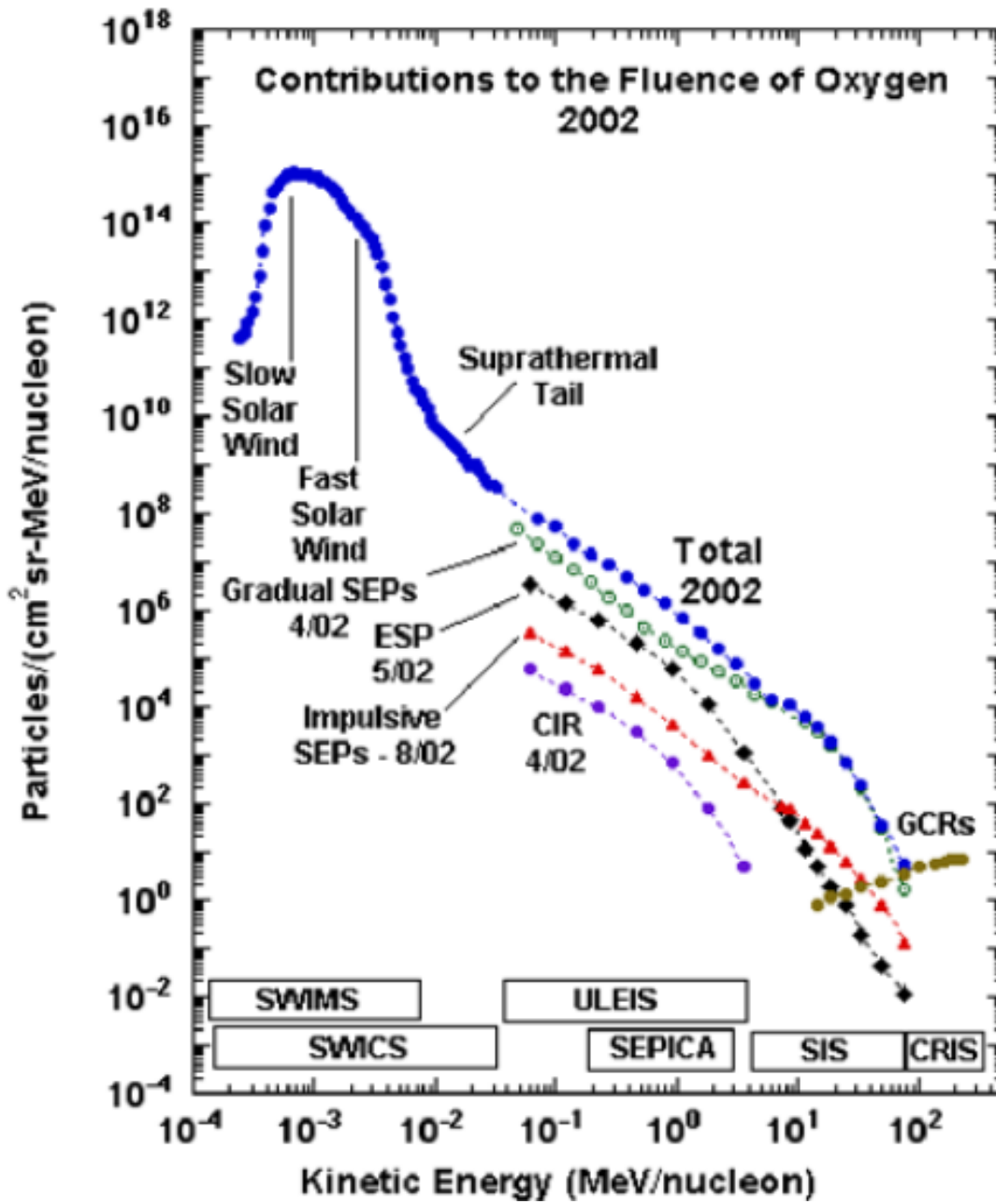


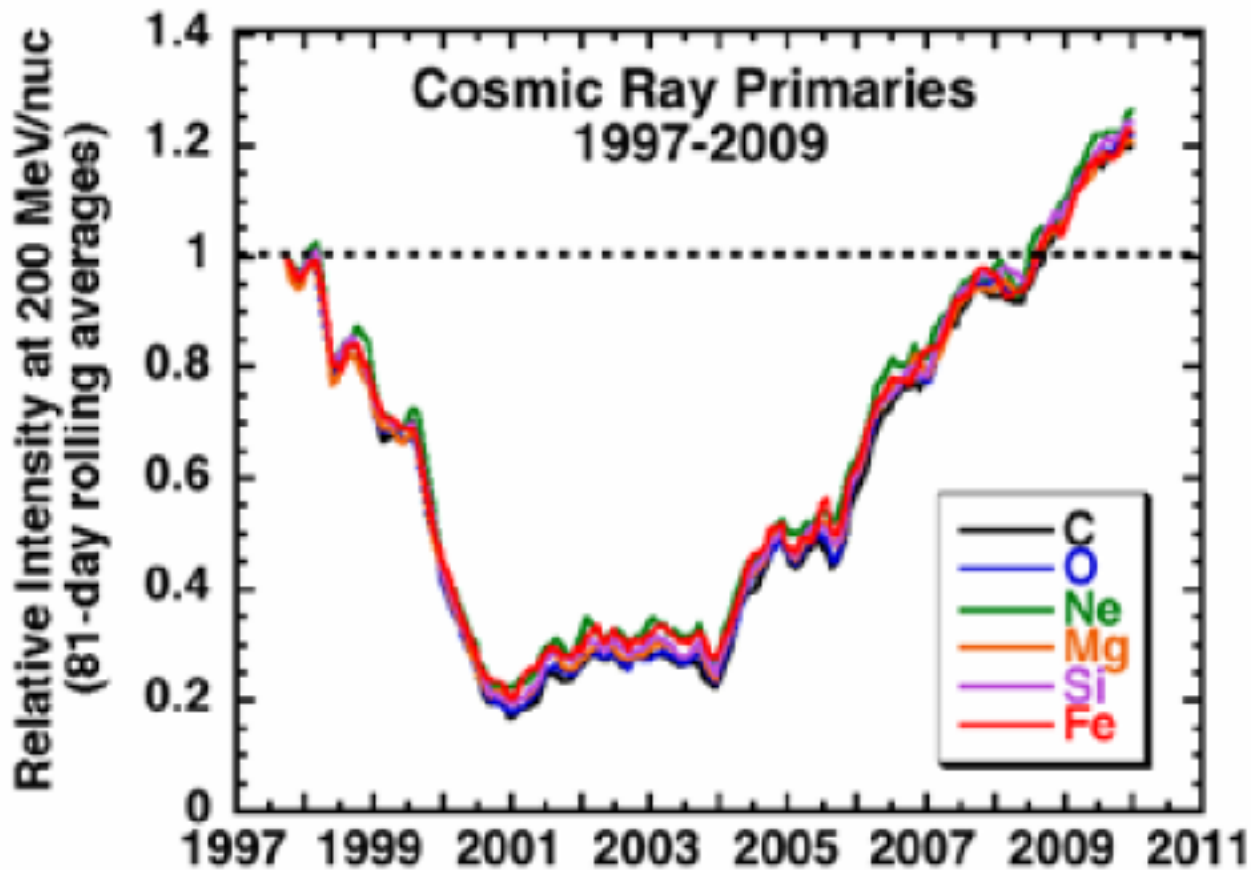


CME shock acceleration, with escape upstream from the shock

Scaling of Gradual SEP Event Spectra

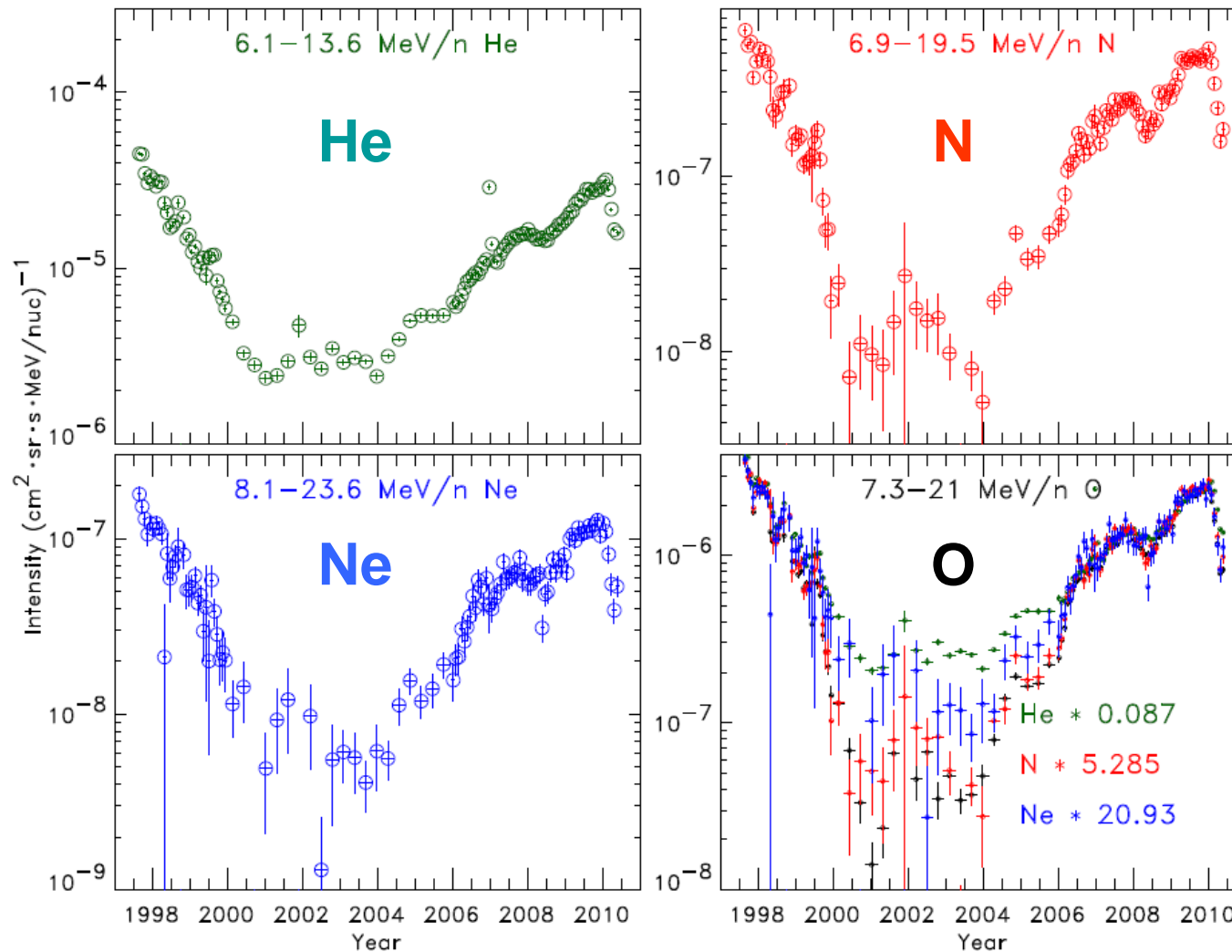






200 MeV/nuc GCR intensity ~20% greater than previously observed during space age

ACR He, N, O, and Ne



ACRs lower intensity than last solar minimum

ACE Science Center
www.srl.caltech.edu/ACE/ASC/

