Subject: Comparison of Berkeley Polar MFE Spin Period Average and UCLA KP

Data

Date: Wednesday, July 17, 2002 10:51 AM **From:** Peter Chi <pci@igpp.ucla.edu> **Reply-To:** Peter Chi <pchi@igpp.ucla.edu>

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Dear Barbara,

I'm sending you a note regarding the comparison between Berkeley's Polar MFE spin-period average and UCLA KP data, considering that some users of MFE data might find it helpful. -Peter

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We have downloaded some of the Berkeley-prepared magnetic field averages for comparison with the UCLA key parameter data in areas of overlap. We noted the following differences:

- 1. Near perigee the two data sets can differ by more than several hundred nanoteslas. This is more than likely due to different gains being used. Occasionally the differences between the two calculations undergoes an abrupt jump.
- 2. Until the end of February 2001, MFE conducted some tests of its burst mode capability. These tests introduced noise into the data stream for several hours when they occurred. These periods were dropped from the KP data.
- 3. Spikes occur in the Berkeley magnetic data near gain changes. These data were corrected in the UCLA processing and no such spikes appear.
- 4. At this writing UCLA KP data have been submitted until the end of February 2001 and shortly will be complete to April 2001.

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