

MAGNETOGRAM SUB-WORKSHOP

University of California, Los Angeles 2 - 3 April, 2009



Quality of current magnetograms

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- Mapping of the solar magnetic surface

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- Implications of current magnetic charts for coronal and heliospheric models

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- Implications of current magnetic charts for coronal and heliospheric models
- Common objectives and specific tasks for the future



- We need to validate the quality of current magnetograms by understanding and comparing measurements from different observatories. Presentations by John, Jack, Leif, and Pete.
- We need to identify and remove some limitations of current magnetograms. Major issues are: the determination of the proper magnetic field strength scale, the polar field correction, the magnetic field geometry.

Presentations by Roger, Xudong, and Luca.

Magnetic charts

- Magnetic charts are a critical product for coronal and heliospheric models.
- Two basic types of magnetic charts: Synoptic and synchronic maps. Does it make a significant difference in the outcome of these models the type of map used as inner boundary conditions to drive those models?
- How to improve the quality of current magnetic charts to better satisfy the requirements of coronal and heliospheric models?
- Presentations by Carl, Todd, Zoran, and Jack.

Models and the future

- Using magnetograms in global heliospheric MHD models, the ADAPT project, and the expected benefits from HMI.
- Modeling TSI variations using solar surface magnetic and intensity observations.
- What to do next? Define specific tasks and common goals.
- Presentations by Nick, Pete, Daryl, and Todd.