

Topic: Prediction of the Interplanetary Magnetic Field Vector Bz at 1AU

Project Title:

Robust Prediction of the Interplanetary Magnetic Field using Statistical and Physics-Based Model Approaches

PI Name: Pete Riley

PI Email: pete@predsci.com

Affiliation: SAIC

CO-I(s):

- Victor J Pizzo (NOAA/SEC), Roger K. Ulrich (University of California at Los Angeles), J. Todd Hoeksema (Stanford University), Alysha Reinard (CIRES), Christopher T Russell (University of California Los Angeles), Curt A de Koning (NOAA), Roberto Lionello (Predictive Science Incorporated), Yang Liu (Stanford University), Rafal Angryk (Georgia State University), Petrus C Martens (Georgia State University)

Collaborator(s):

- Mathew James Owens (University of Reading), Timothy Simon Horbury (Imperial College London), Jon A Linker (Predictive Science, Inc)

Project Information:

Using a combination of statistical and physics-based models, we will develop a robust scheme for predicting the value of Bz at 1 AU (as well as its associated uncertainties) at least 24 hours in advance. Our diverse team includes the necessary expertise to achieve the goals of the proposed work and our unique, comprehensive approach will provide both a quantitative ground-truth for a variety of techniques as well as a rigorous methodology for improving predictability.

ROSES ID: NNH14ZDA001N

Duration:

Selection Year: 2014

Program Element: Targeted Science Team

Citations: