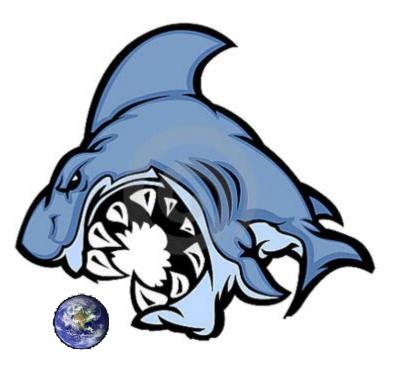
# Role of CCMC in the NSW: data provider perspective



Alexei A. Pevtsov
US National Solar Observatory



"Breaking news: Monstrous CME hits the Earth"

### NSW STRATEGY: High-level goals

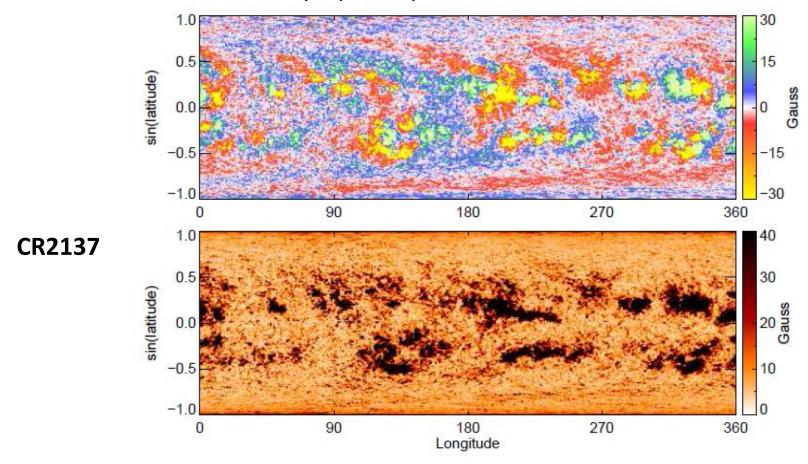
- 1. Establish Benchmarks for Space-Weather Events
- 2. Enhance Response and Recovery Capabilities
- 3. Improve Protection and Mitigation Efforts
- Improve Assessment, Modeling, and Prediction of Impacts on Critical Infrastructure
- 5. <u>Improve Space-Weather Services through</u>
  Advancing Understanding and Forecasting
- 6. <u>Increase International Cooperation</u>

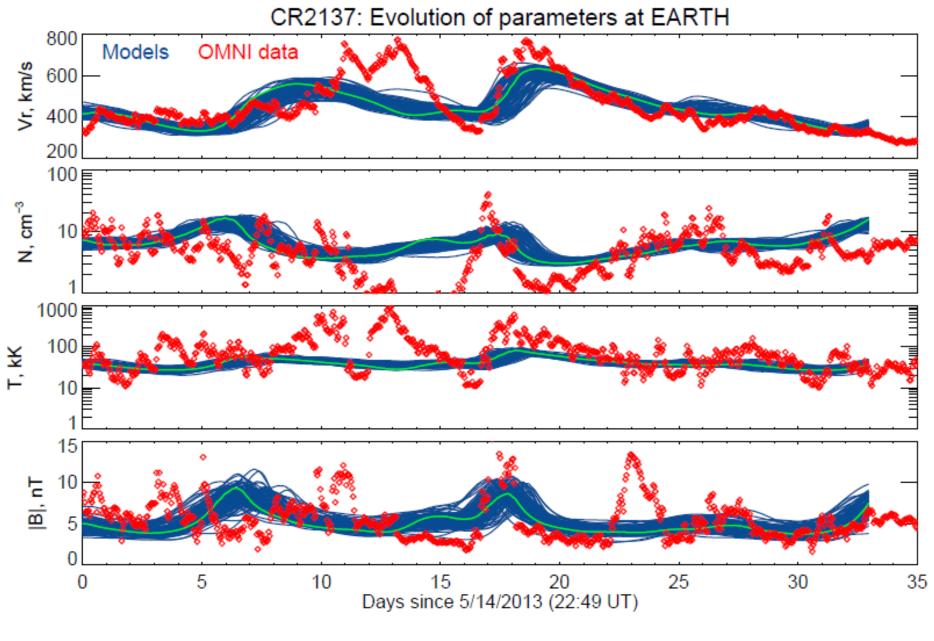
## CCMC as a bridge between modelers and data providers

- Work with community on identifying shortcomings of existing data and developing new data products to improve SW forecast
- Provide opportunities for testing ideas developed by the community; testbed for "what if" scenarios (e.g., L5 mission).
- Promote development of international collaboration on incorporating new data

#### EX1: CCMC as testbed for new ideas

Past: "Error-free" treatment of synoptic maps

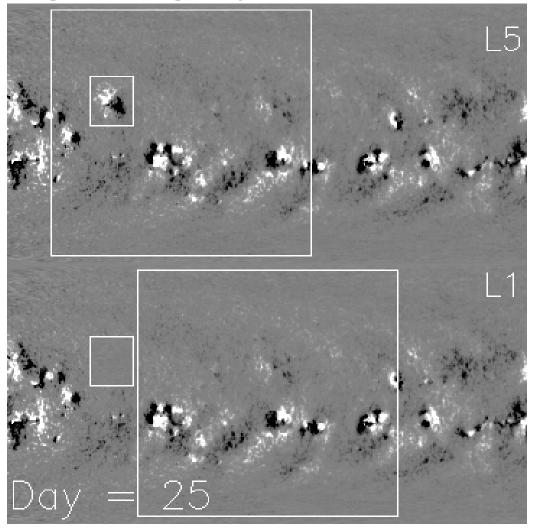


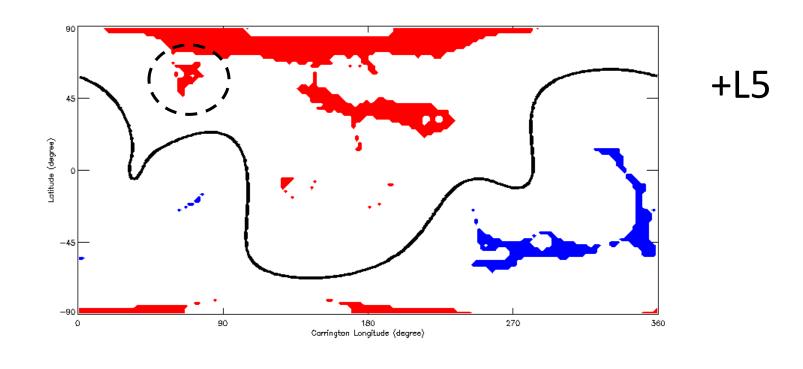


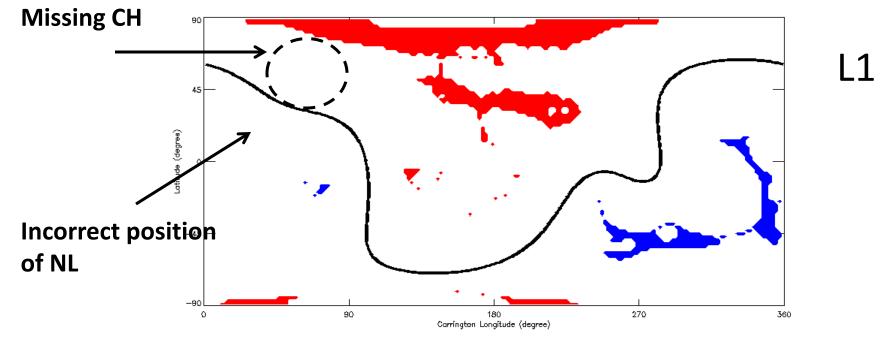
Pevtsov, A.A., Bertello, L., MacNeice, P. (2015)

DOI: <u>10.1016/j.asr.2015.05.043</u>

# EX2: "What if" we had a magnetograph at L5 scenario







### Data from International partners?



Group Members (49)

http://www.nso.edu/IAU-Com12

### Data from International partners?

