

04/29/19

Details of the SHINE 2019 potential-field comparison session (conveners: KD Leka (NWRA, Nagoya University), Graham Barnes (NWRA), James McAteer (NMSU), with Marc DeRosa (LMSAL) as Shine Steering Committee Liason):

Target: NOAA Active Region 11504 at 2012.06.13 11:36 TAI.
A few context images are available below. Some data details:

- Hinode/SP data. There was initially a problem with the level-2 inverted data. The level-2 map is 20120613_110505, and the target time is approximately half-way through the map. It is available through the HAO CSAC site:

https://csac.hao.ucar.edu/sp_data.php?date1=2012-06-13&date2=2012-06-13.

It is not yet mirrored at LMSAL's site but should be soon:

http://sot.lmsal.com/data/sot/level2d/2012/06/201206_index.html

- HMI data: The full-disk data are available through normal channels. The HARP / SHARP cutouts did not get processed during normal pipeline processing. Stanford has re-run the HARP cutouts (Thanks Todd/Monica/Jeneen!), but the results are available in a different series than normal (but still available through <http://jsoc.stanford.edu/ajax/lookdata.html>):

Normal HARP processing: AR 11504 is part of HARP 1750.

Special HARP processing: AR 11504 is part of HARP 112 in:

- `su_jeneen.mharp_720s`
- `su_jeneen.sharp_720s`
- `su_jeneen.sharp_cea_720s`

- Any other data source can be used or added; links to these two are just provided to assist in the computation given some data hiccups encountered.

We are going to gather solutions and then calculate metrics and prepare the comparisons.

Please prepare the following:

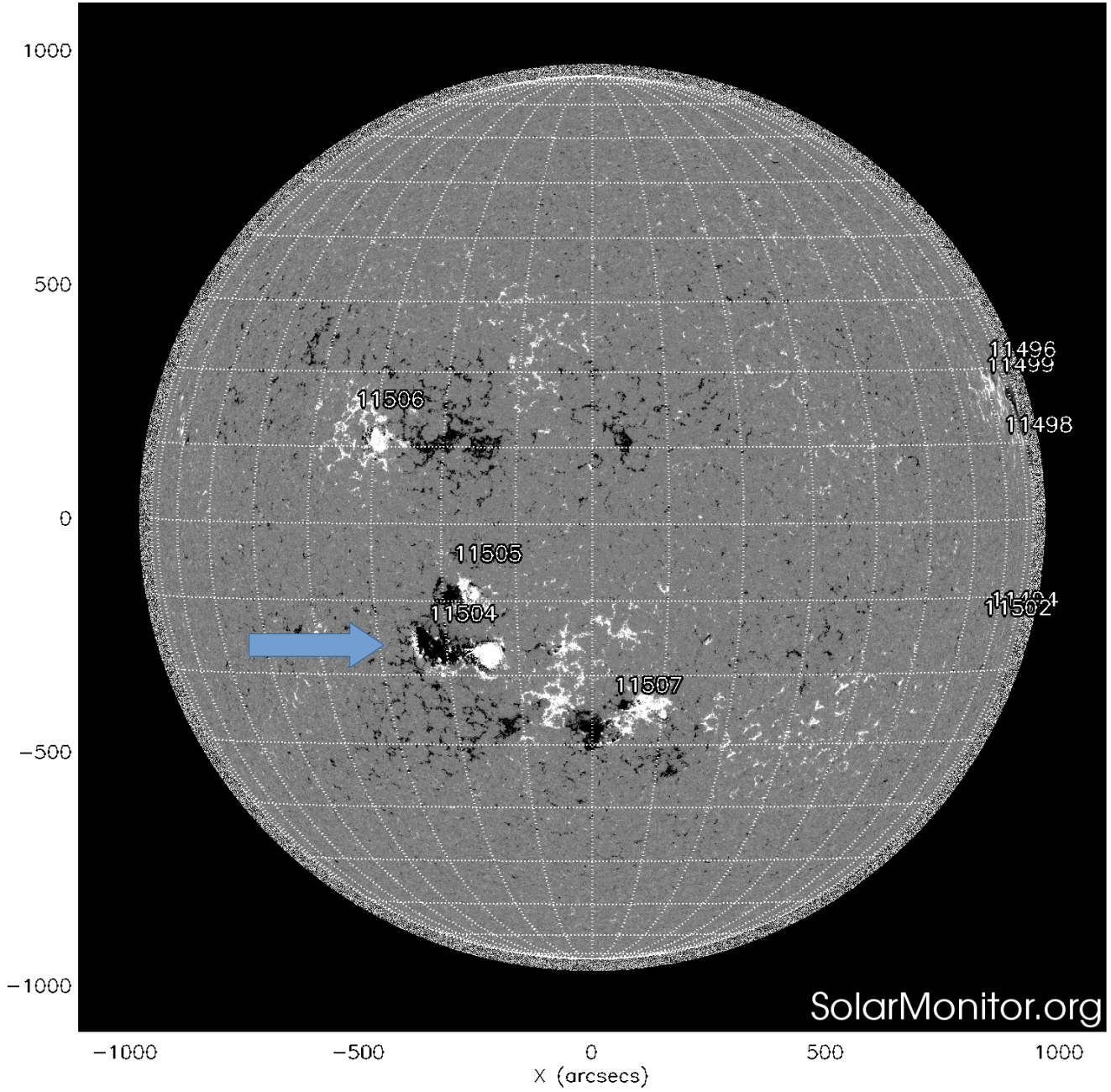
1. The data cube (x,y,z or r,θ,ϕ), in a commonly readable format that is SPECIFIED if not obvious (e.g. a .FITS extension). Please use unique and informative file names, e.g.: `LASTNAME_Institution.FITS`. Supplement with `_METHOD_ID_` or similar if you are submitting more than one solution.
2. A file called `README_LASTNAME_Institution.txt` that contains:
 - i. description of the *grid* on which your field is computed. Be detailed. More information is better than less.
 - ii. description of the *method* and any relevant information (Greens / FFT? PFSS? What is surface height? Any further consideration of the walls? *etc...*). Be detailed. More information is better than less. We may follow up with additional questions.

Please deposit these two files at: <https://dropbox.nwra.com/>

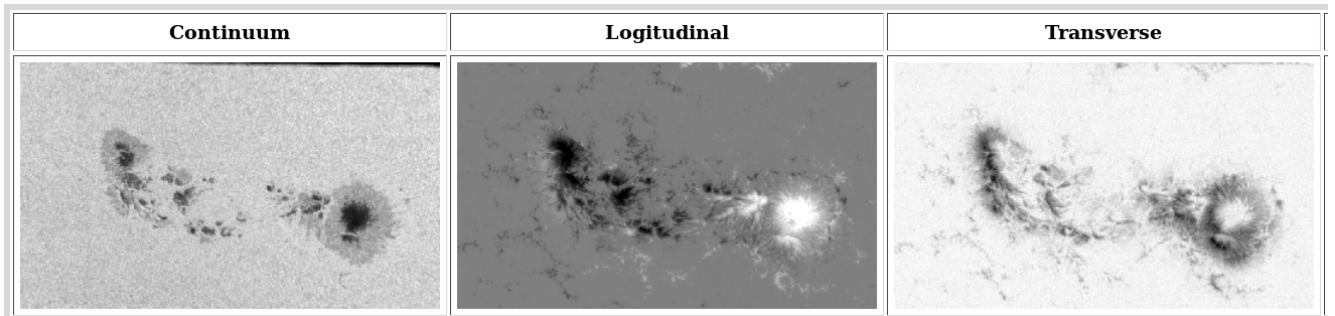
Use either "graham@nwra.com" or "leka@nwra.com" for the drop (we will be notified).

Thanks! Have fun! See you in August!

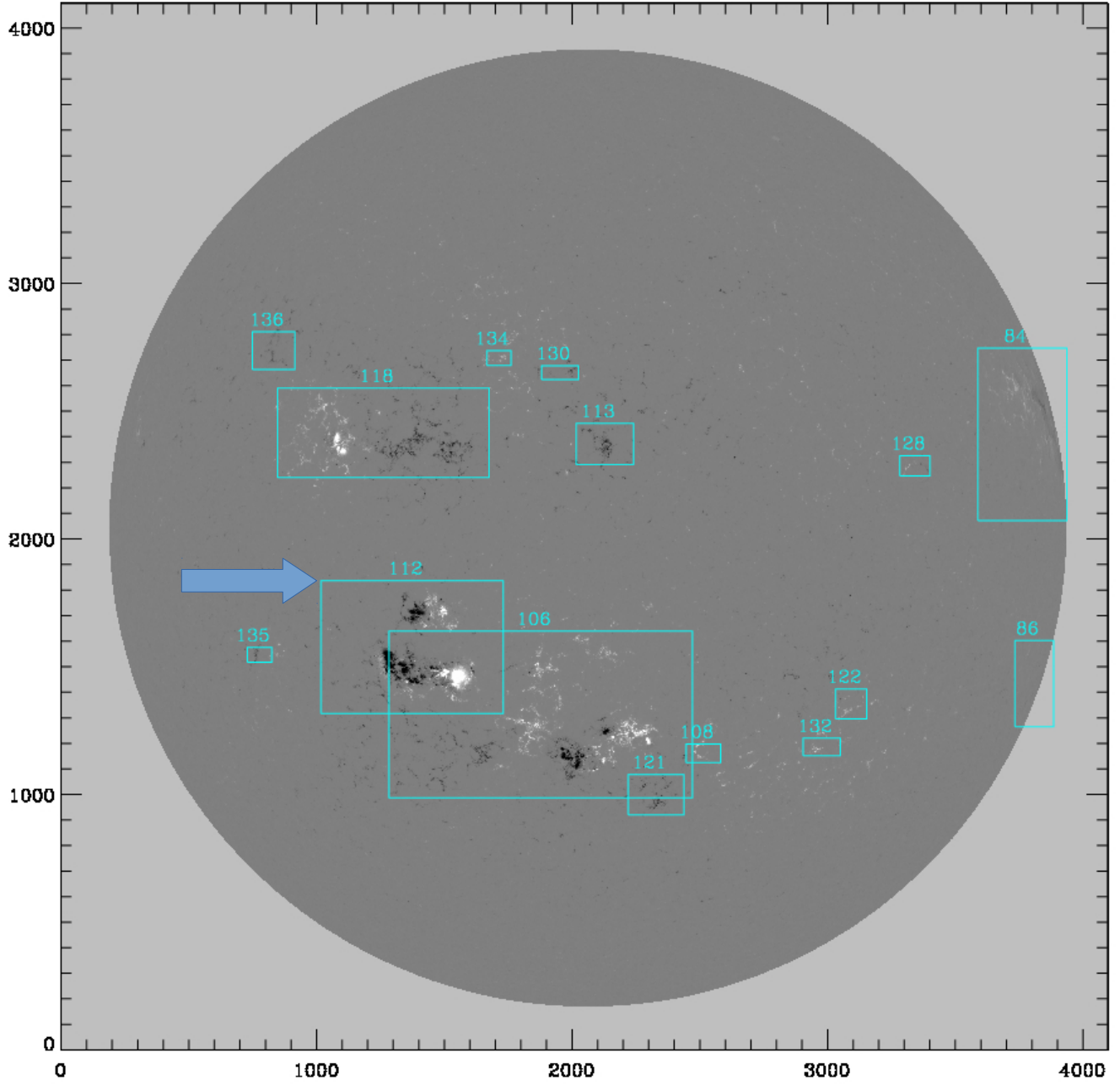
SDO HMI Magnetogram 13-Jun-2012 15:29:56.300



Hinode SOT, Courtesy NAOJ, LMATC, JAXA, NASA, MELCO, and HAO (SOT@LMATC)



2012.06.13_11:36:00_TAI



Above: HARP designations from new HARP series (see text).