We are preparing for the evaluation of the HMI vector magnetic field maps during the instrument commissioning phase. To support this, two software development efforts are underway. The first is to develop an interactive visualization tool for the HMI vector magnetic field data, including the ability to overplot the inverted fits to the data. This will allow us to assess the quality of the inversions and to identify if anomalous polarization crosstalk is present in the data. The second effort is to develop the capability to compare HMI data with Hinode and SOLIS spectropolarimeter data. This requires the precise remapping of these data sets onto a common grid. The extensive experience gained by Rebecca Centeno-Eliot in developing the codes to remap the different Hinode data sets onto a common grid will be very useful. This comparison will allow us to verify the HMI polarization calibration.

Rebecca Centeno-Eliot
Steven Tomczyk