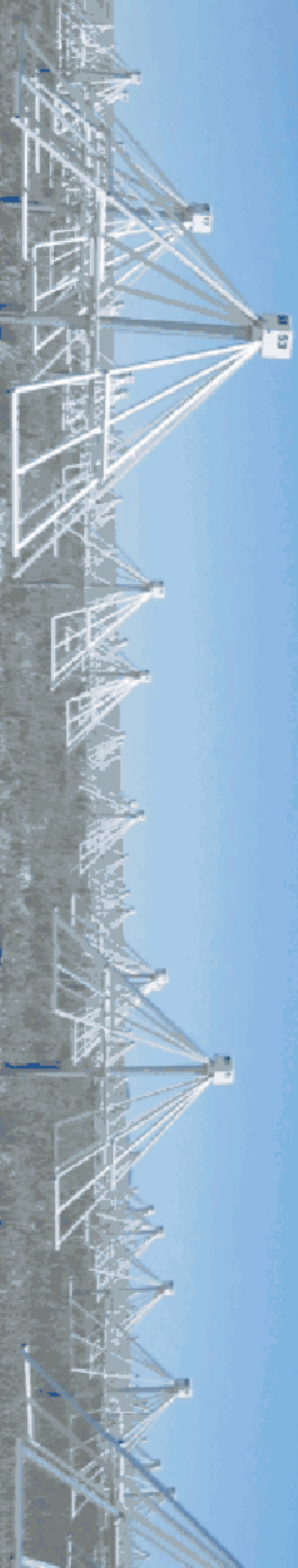


# Solar Physics with Low Frequency Pulsar Observations

Kevin Stovall (UNM),  
Jayce Dowell (UNM), Tim Howard (SWRI),  
Greg Taylor (UNM), Stephen White (AFRL)

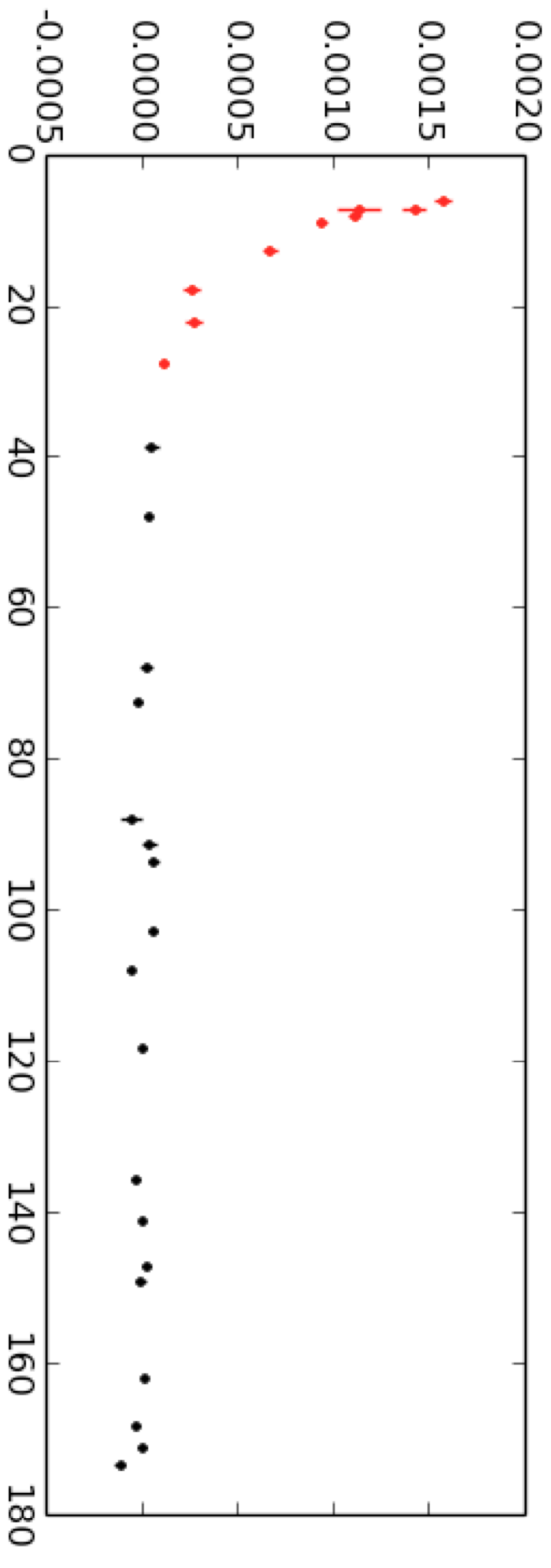
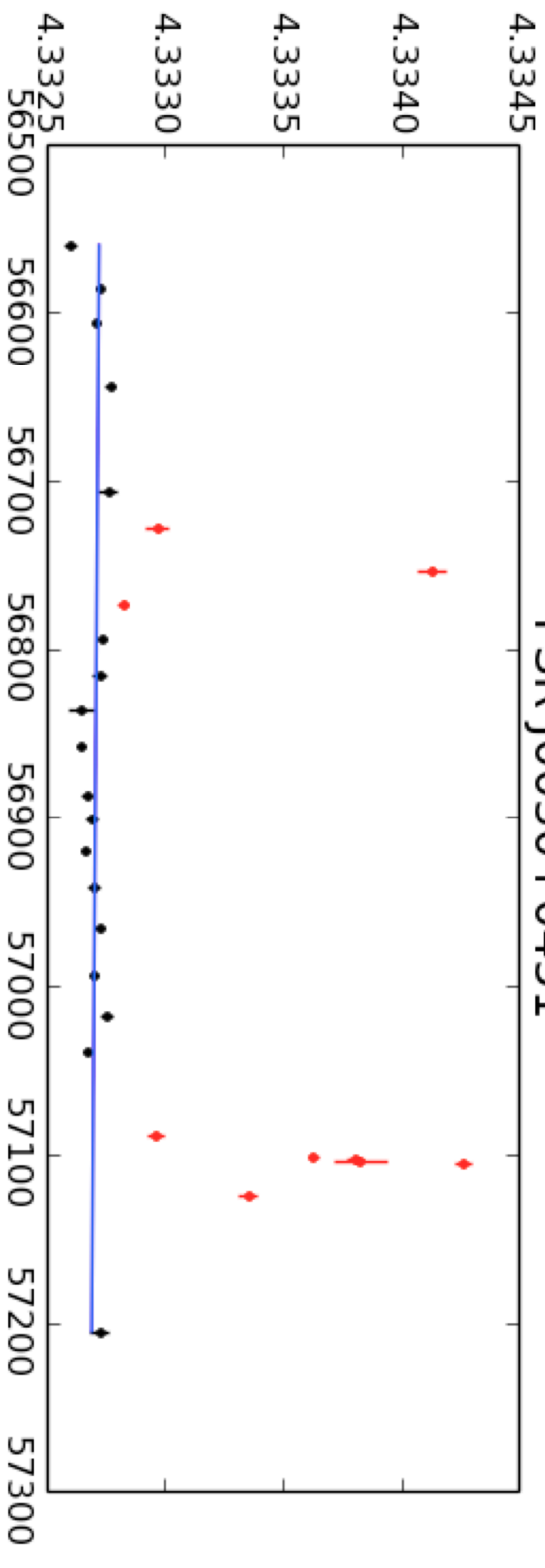


# LWA1

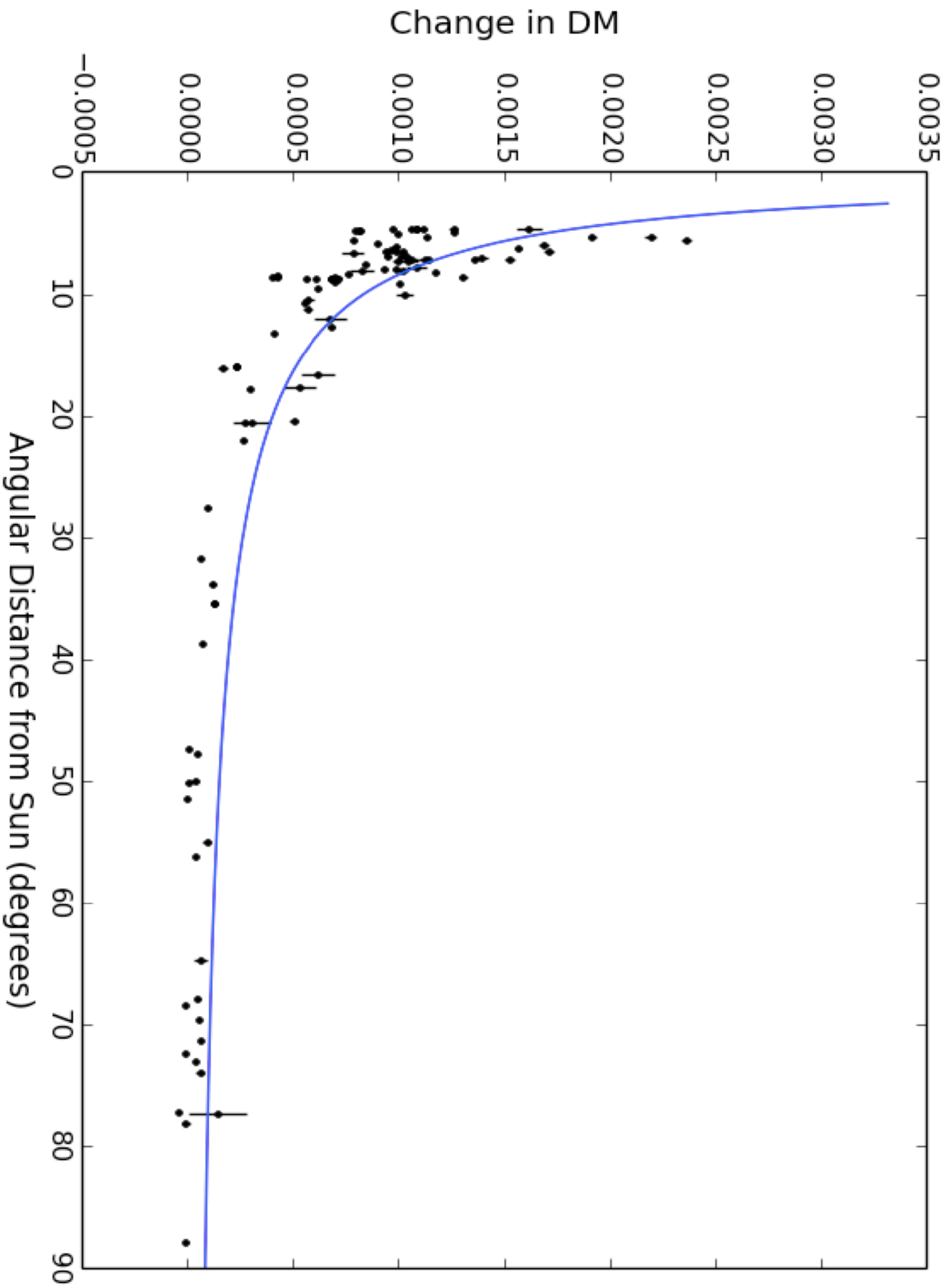


256 dipoles 100 m x 110 m  
Frequency Range: 10 – 88 MHz  
SEFD ~ 9 kJy  
4 beams, 2 tunings with 2 polarizations  
Up to 19.6 MHz BW per tuning

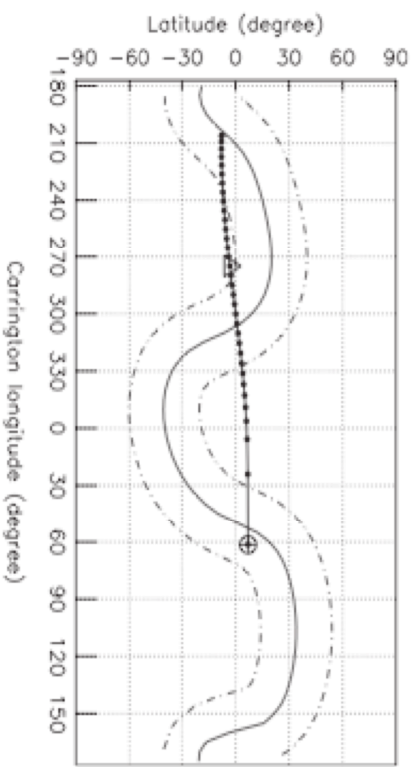
# PSR J0030+0451



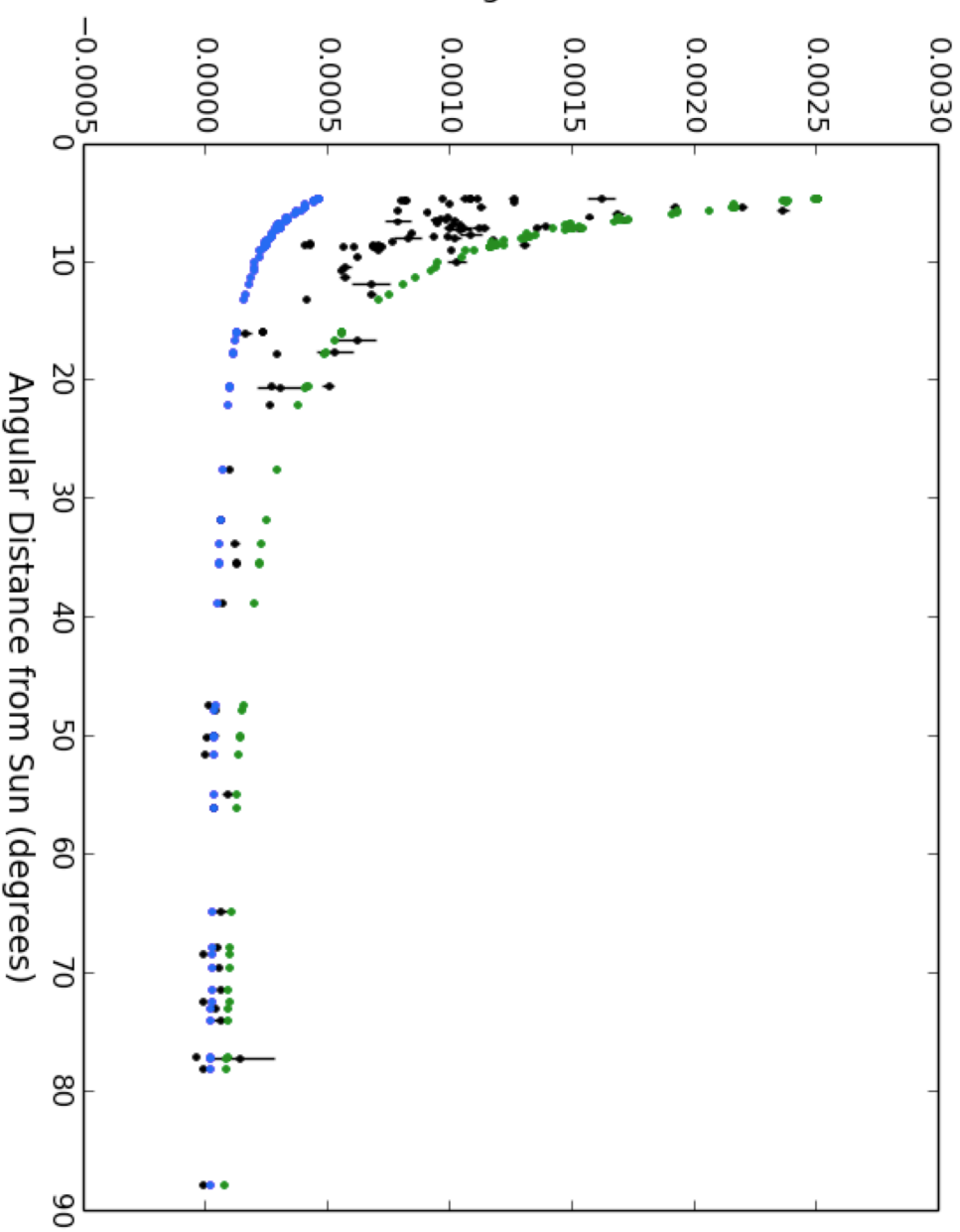
# Solar Wind Model in TEMPO

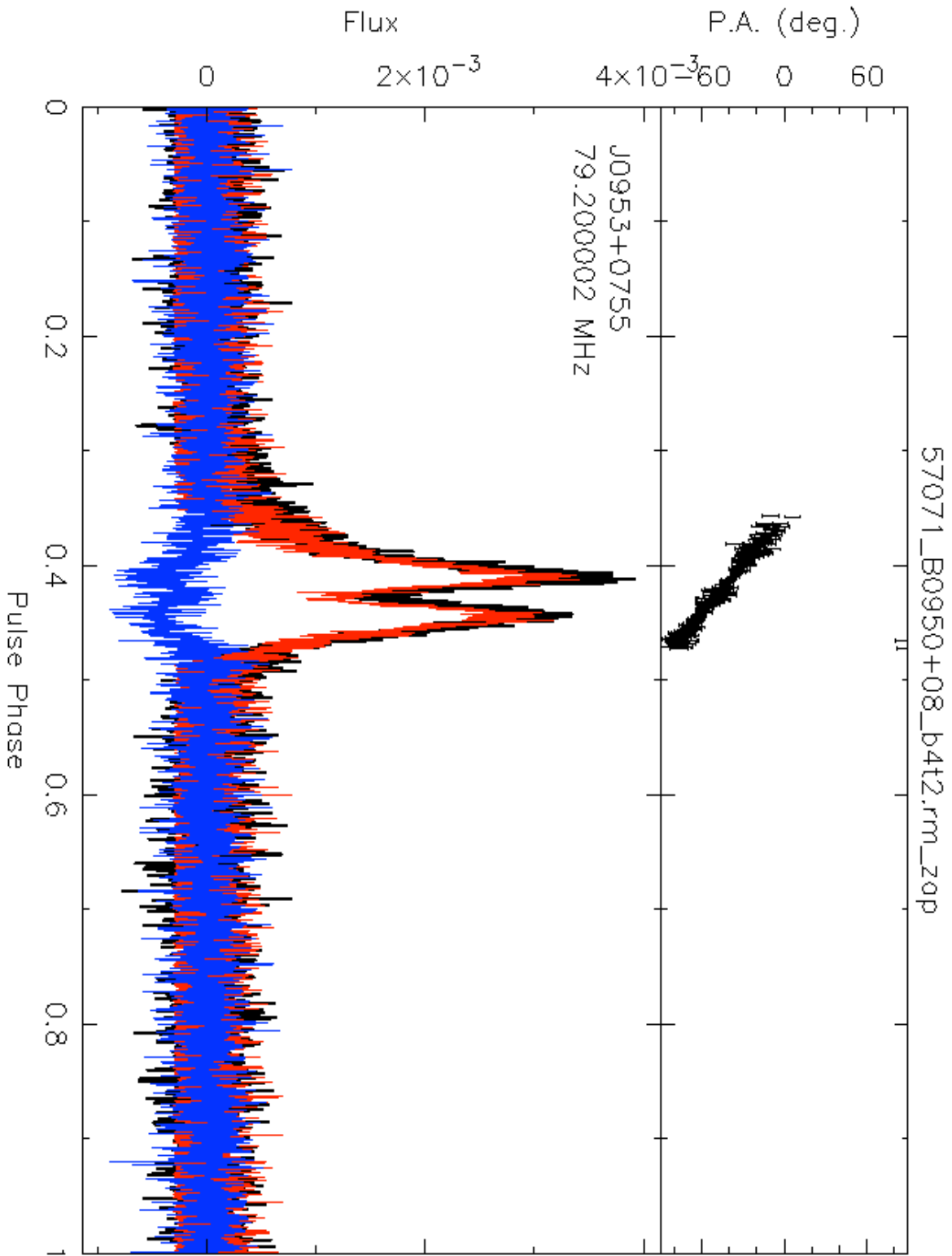


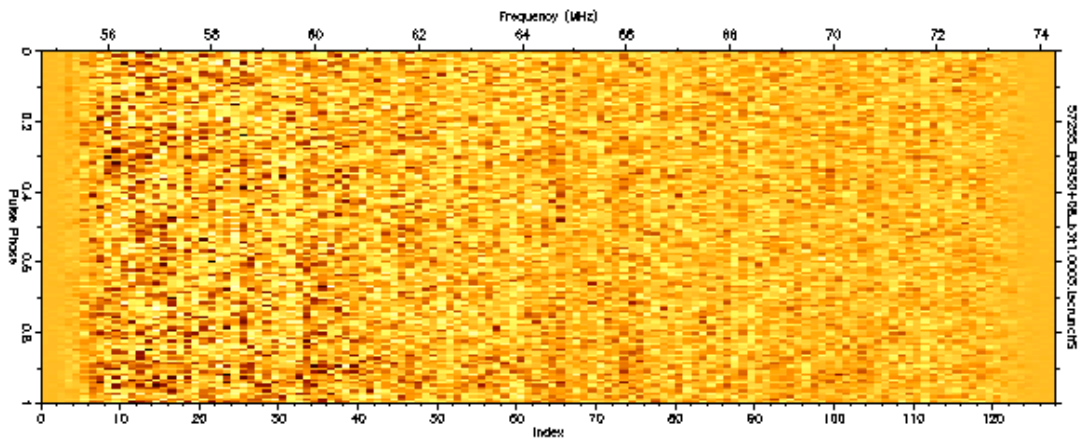
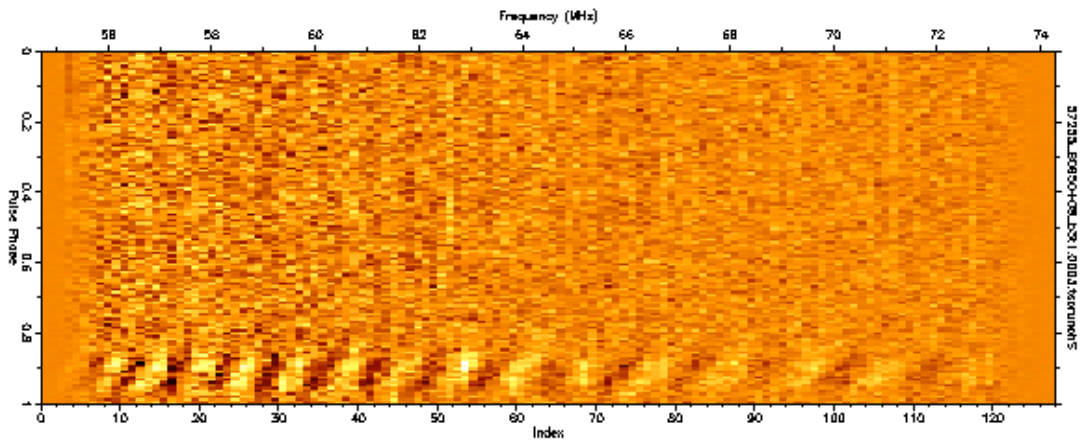
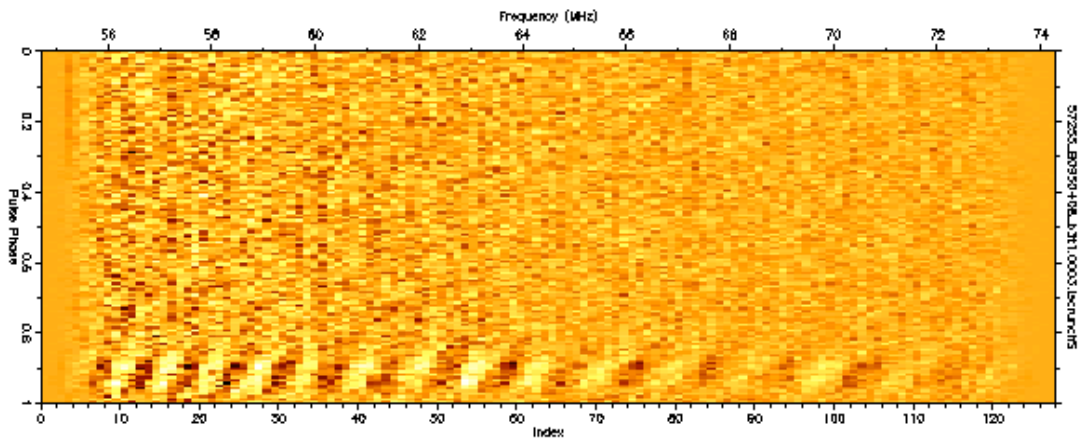
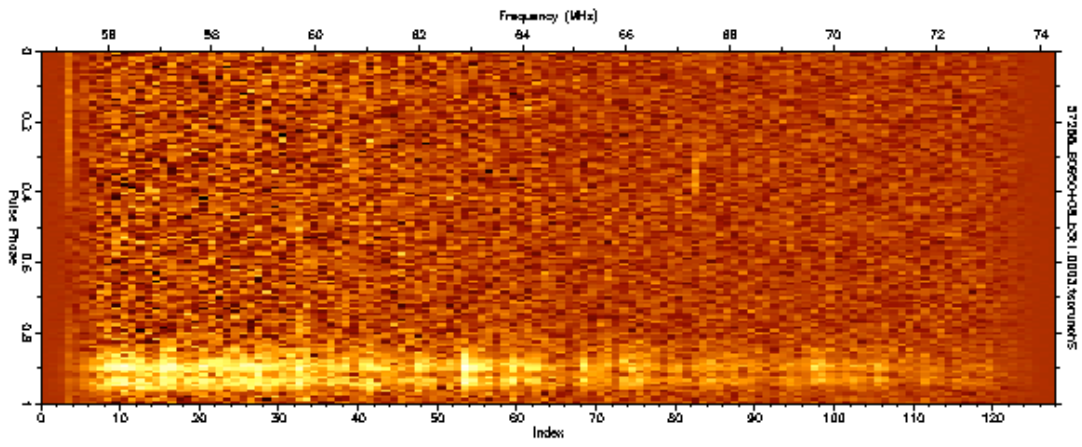
# Improving the Solar Wind Models for Pulsar Timing Corrections



You et al. 2007, ApJ, 671, 907  
You et al. 2012, MNRAS, 422, 1160







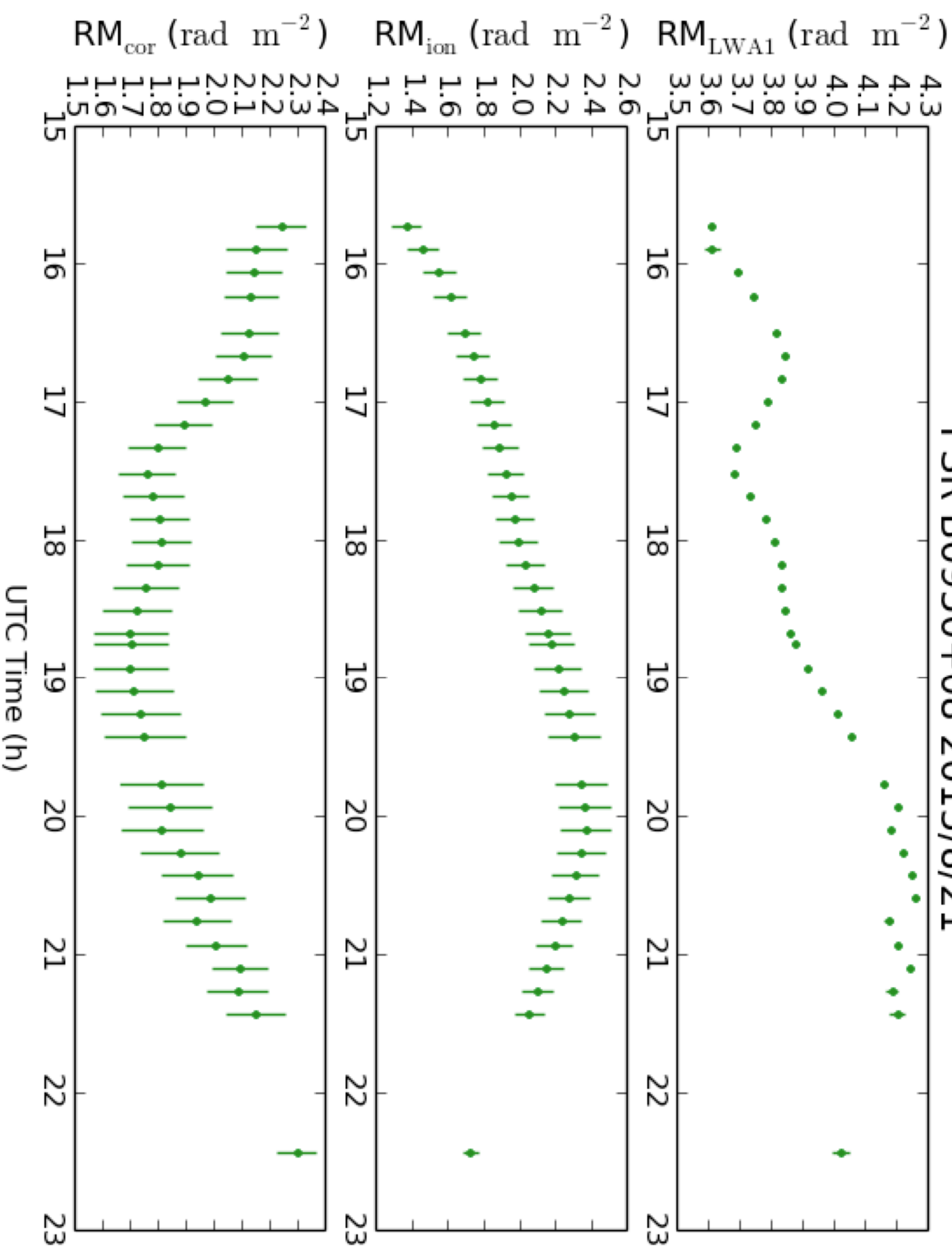
# SOHO LASCO Images



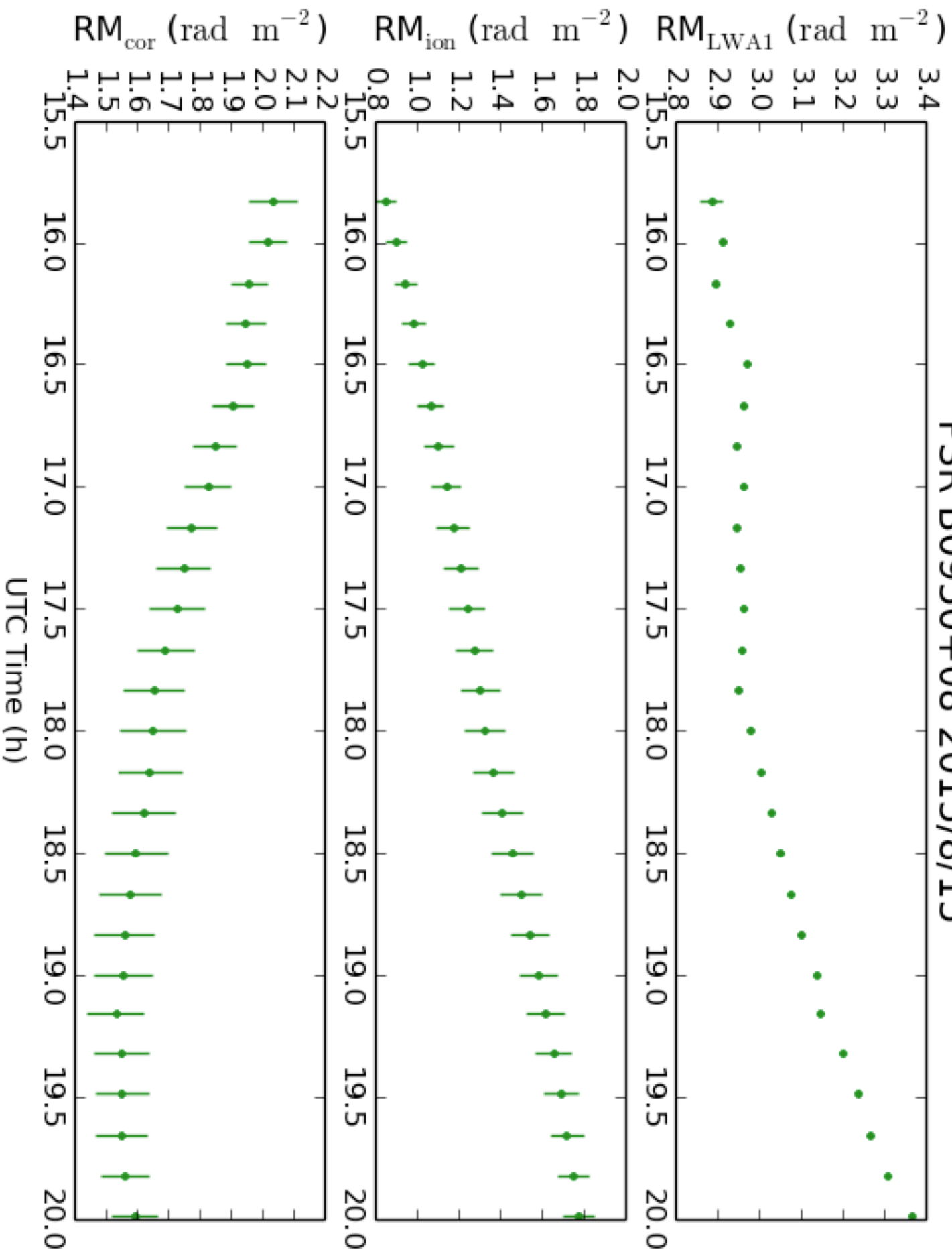
Credit: Tim Howard



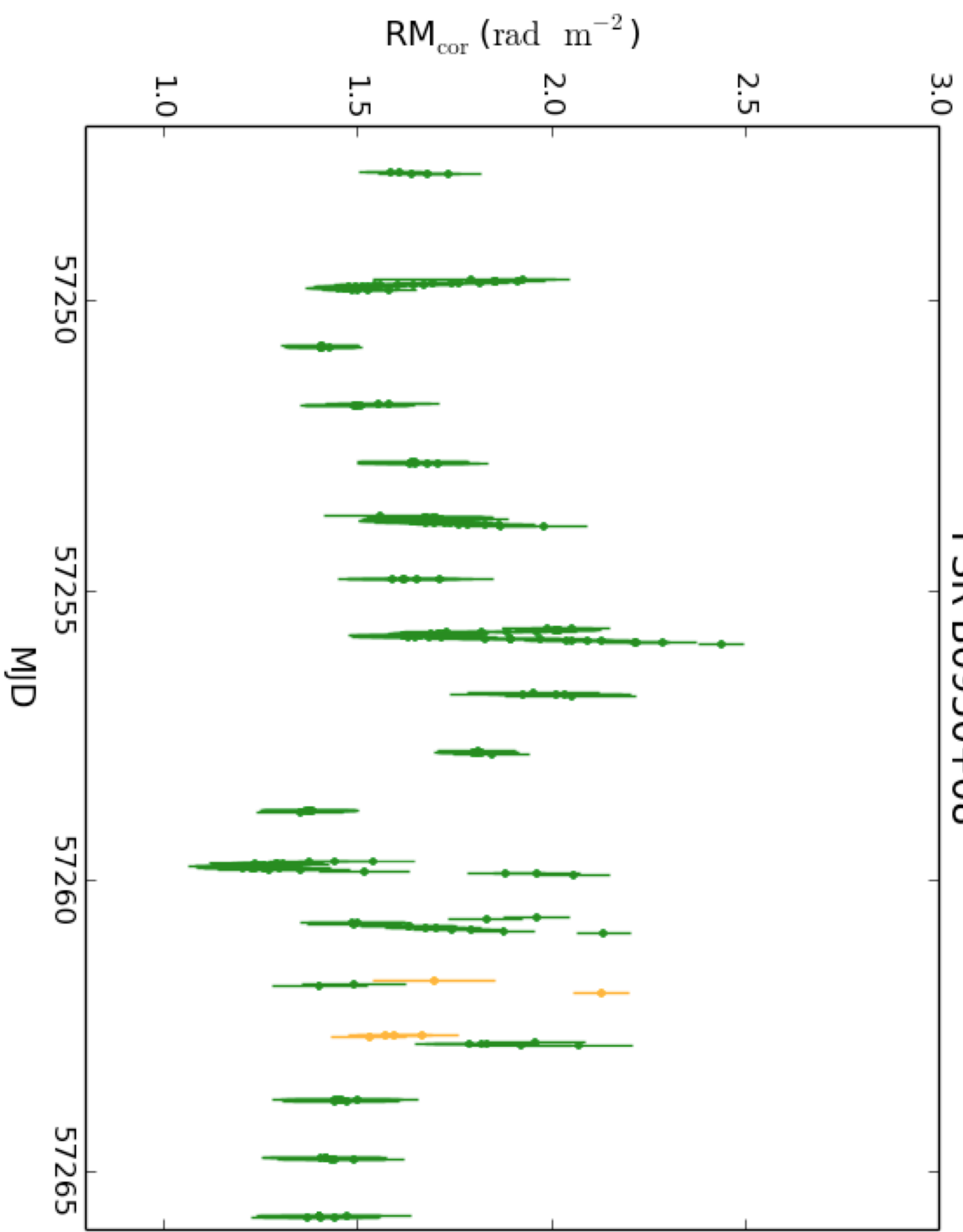
# PSR B0950+08 2015/8/21



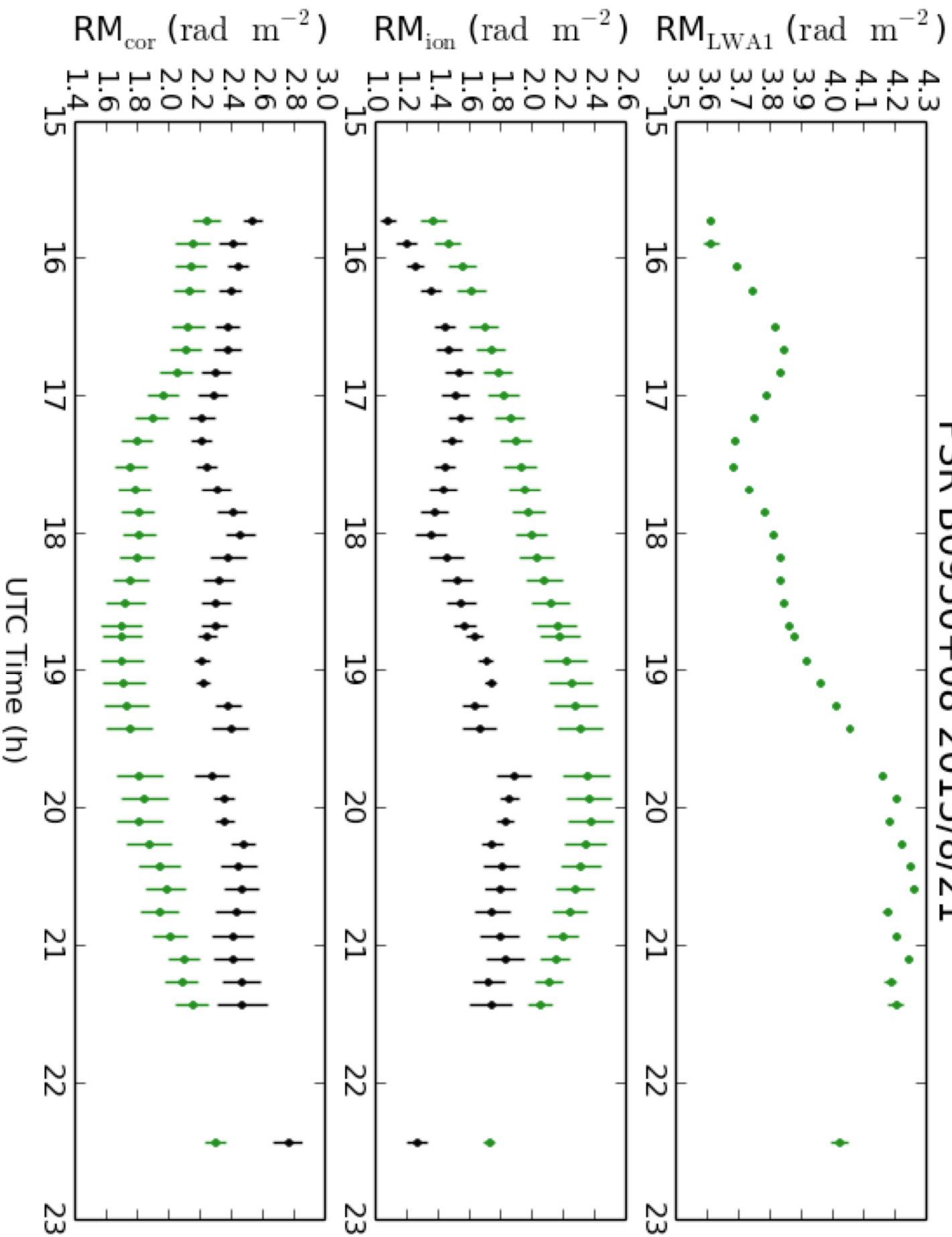
# PSR B0950+08 2015/8/15



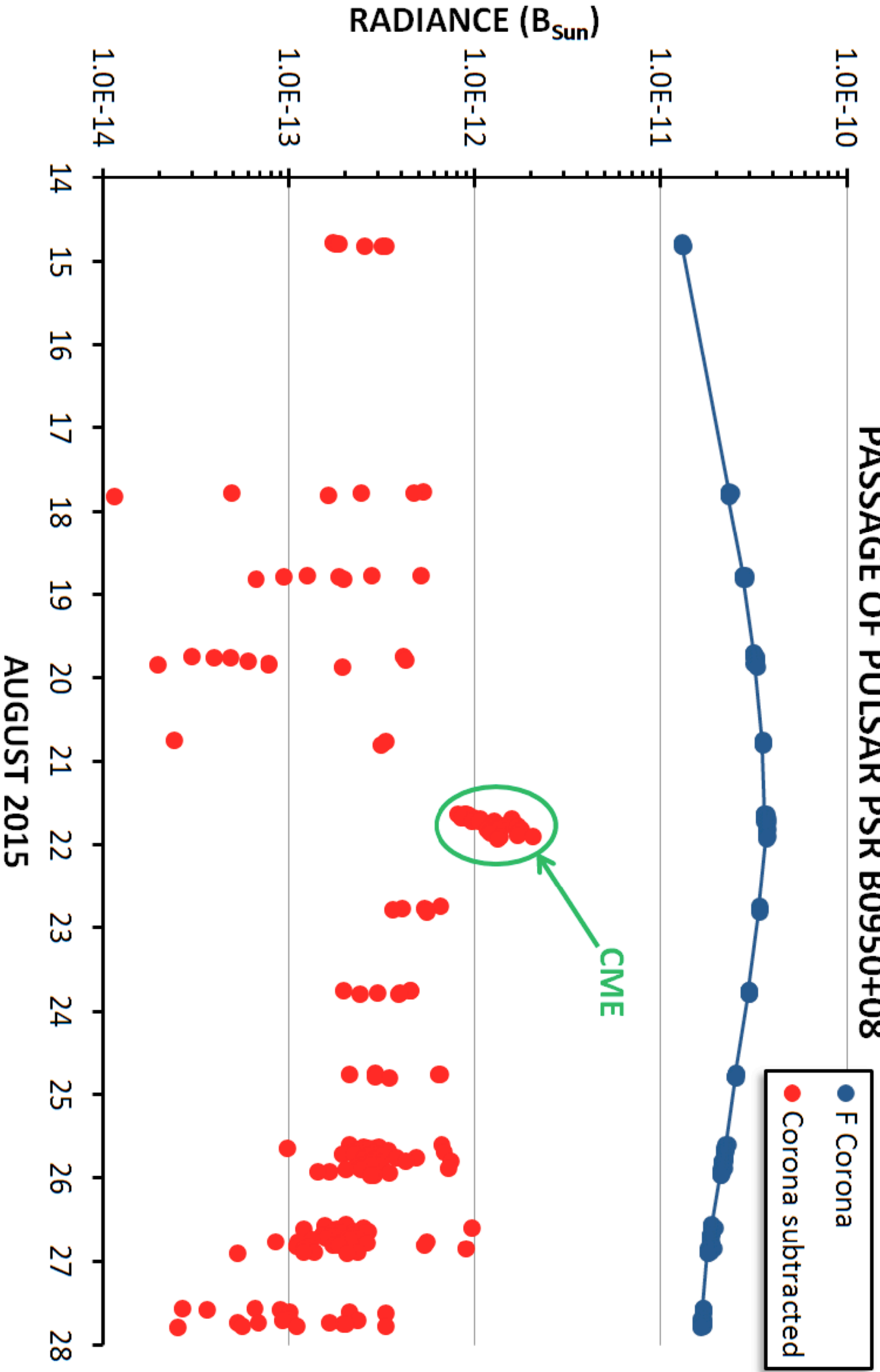
PSR B0950+08



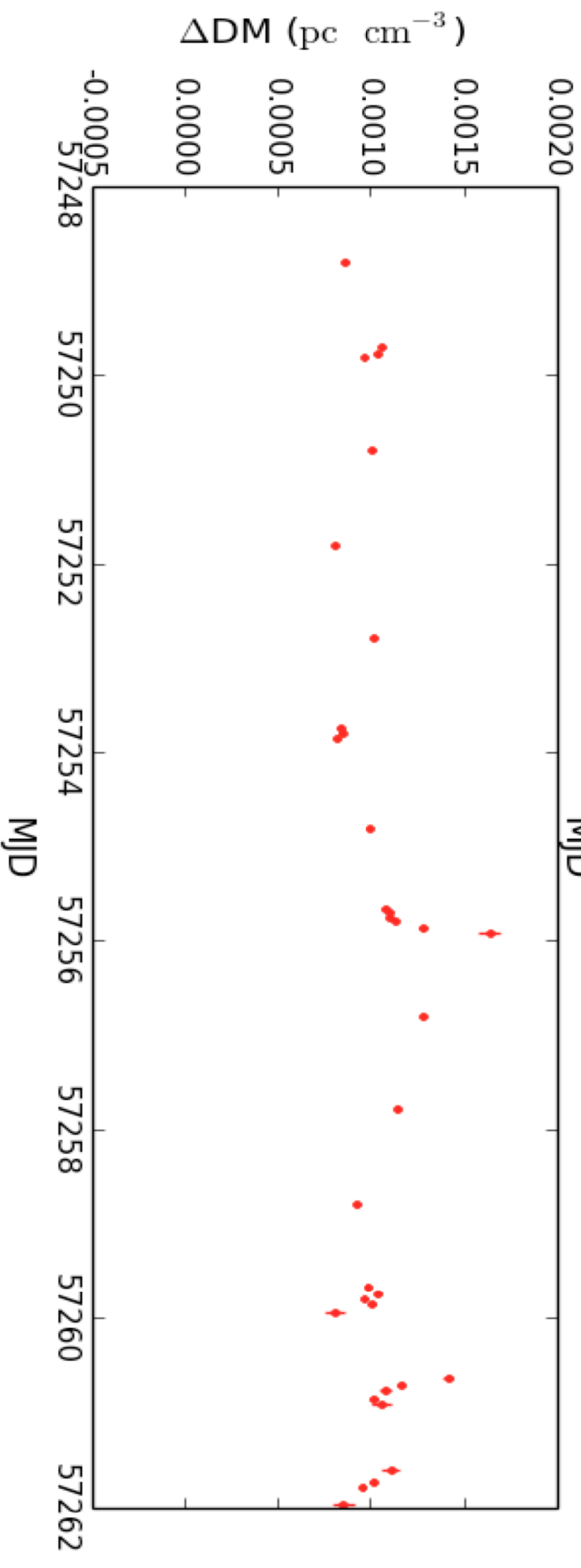
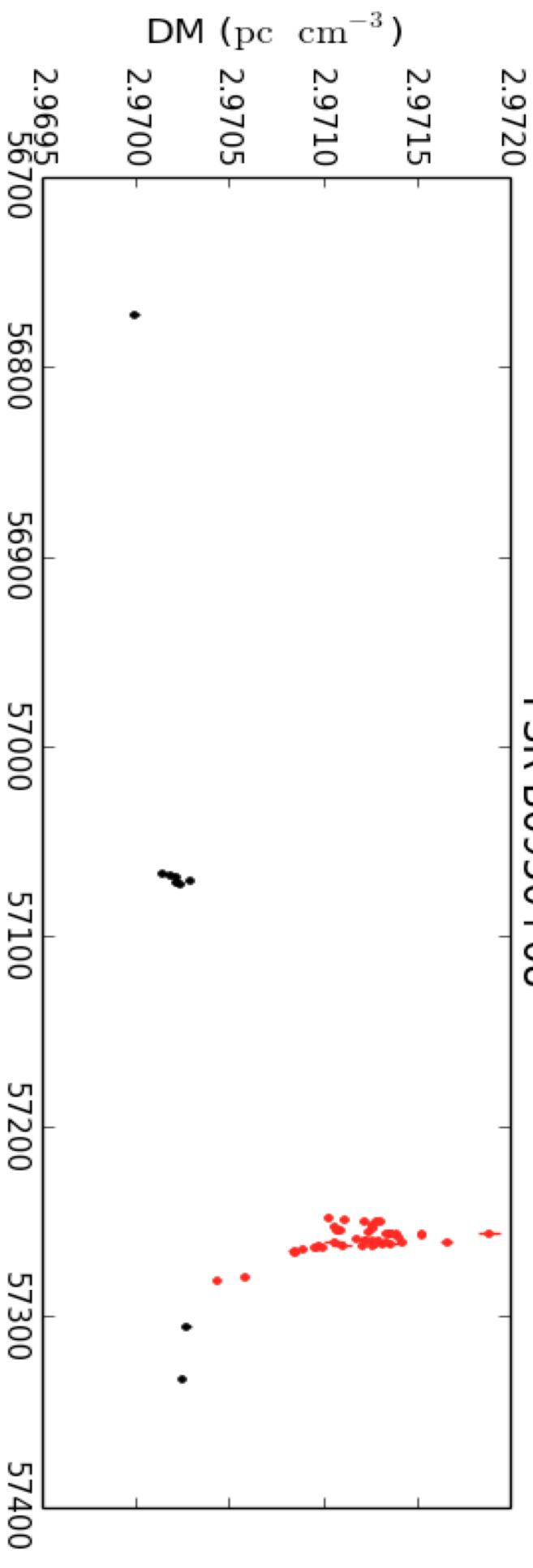
# PSR B0950+08 2015/8/21



# PASSAGE OF PULSAR PSR B09550+08



# PSR B0950+08



Thank You!

