

# Medium-I Analysis of Mount Wilson Data

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Stephen Pinkerton, Ed Rhodes

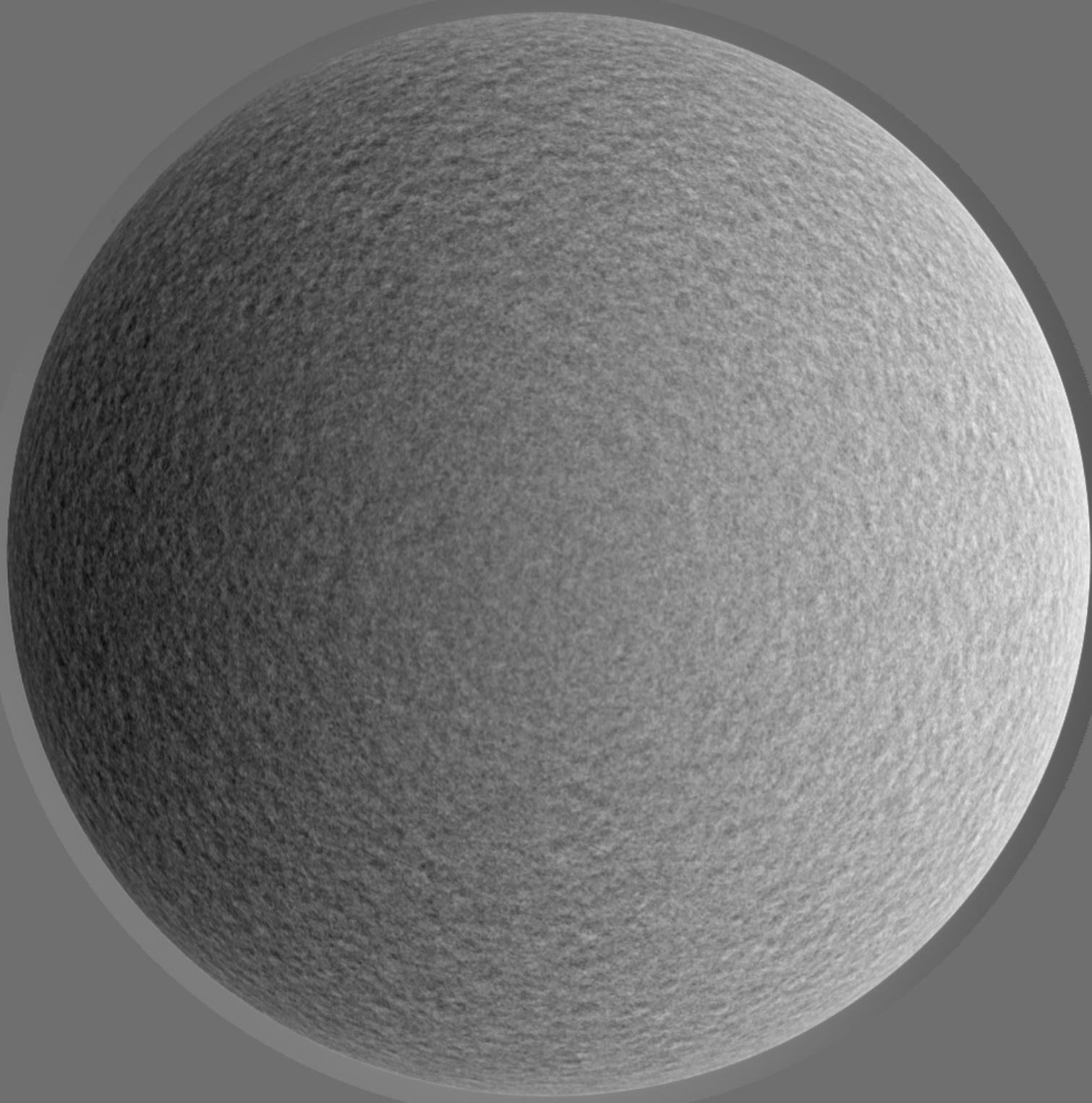
USC

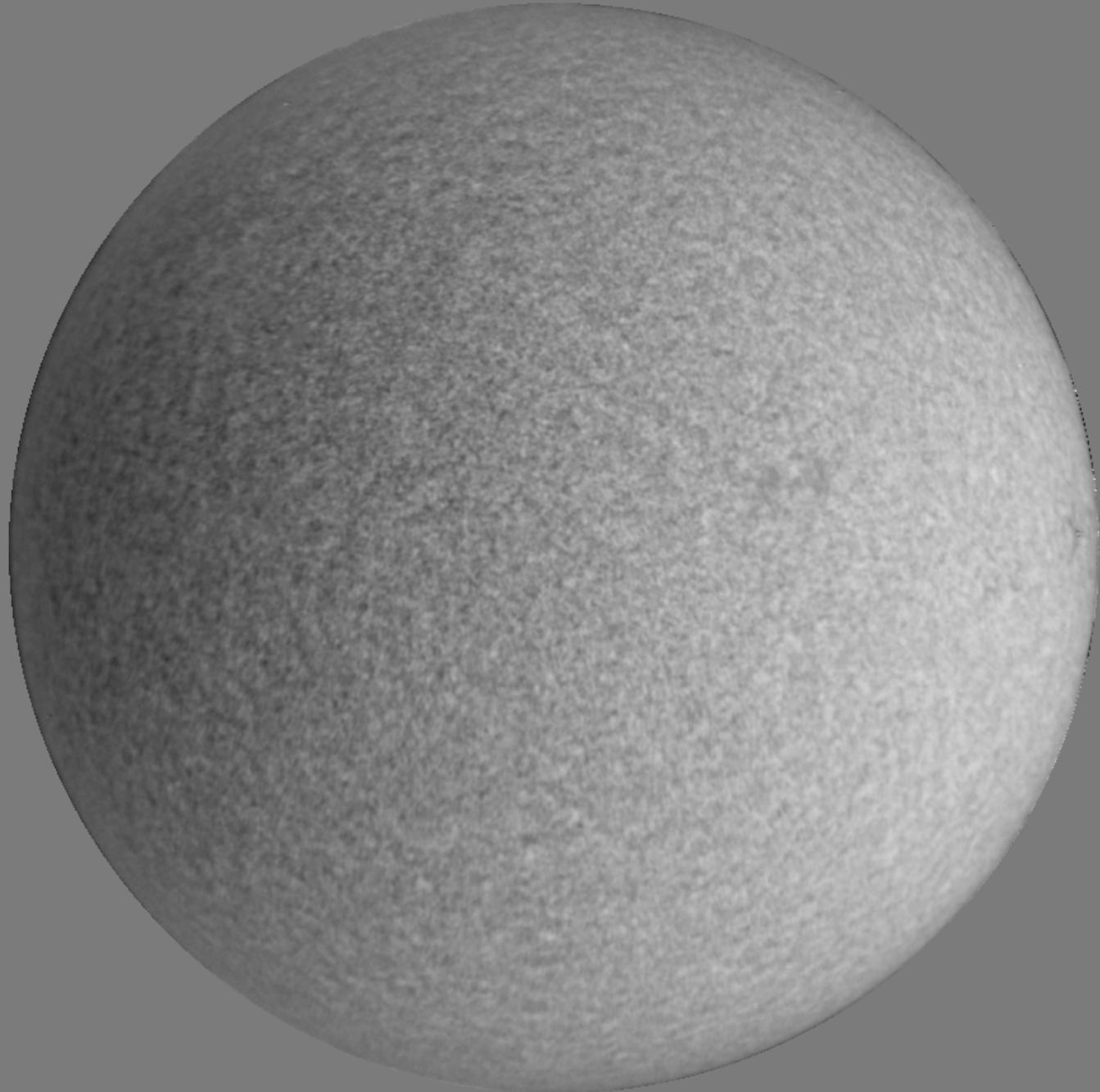
Jesper Schou

MPS

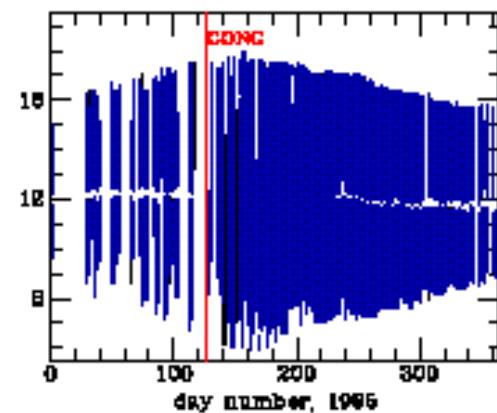
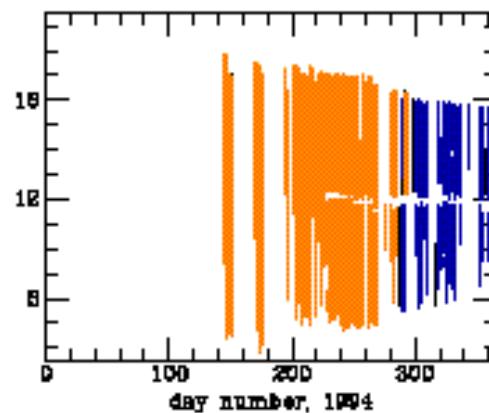
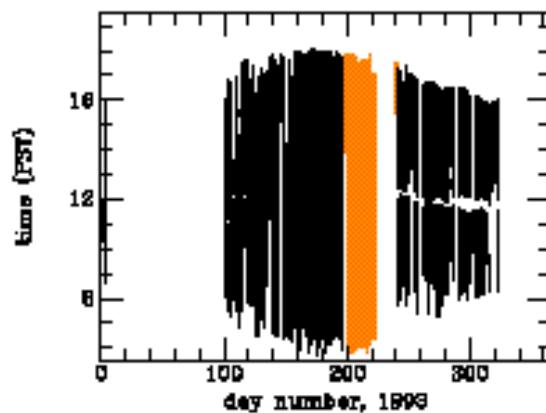
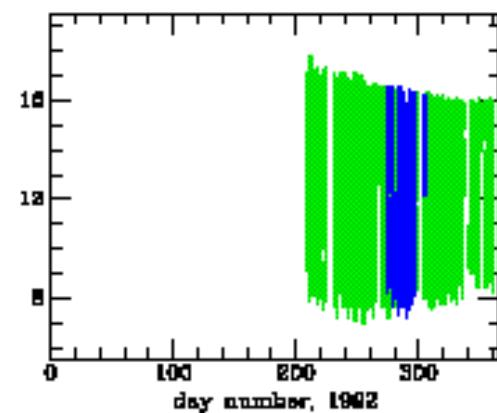
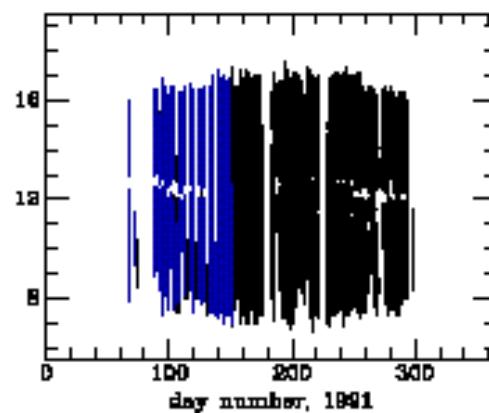
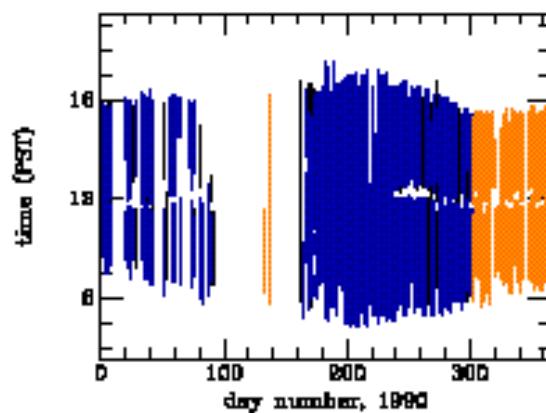
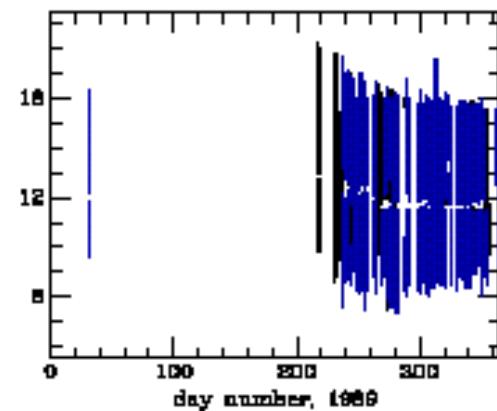
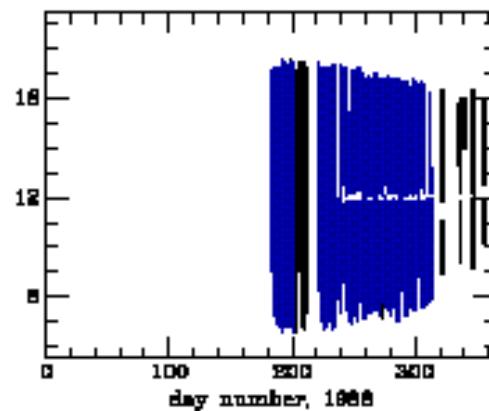
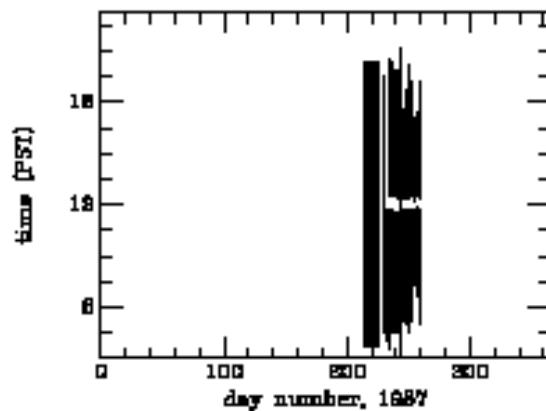




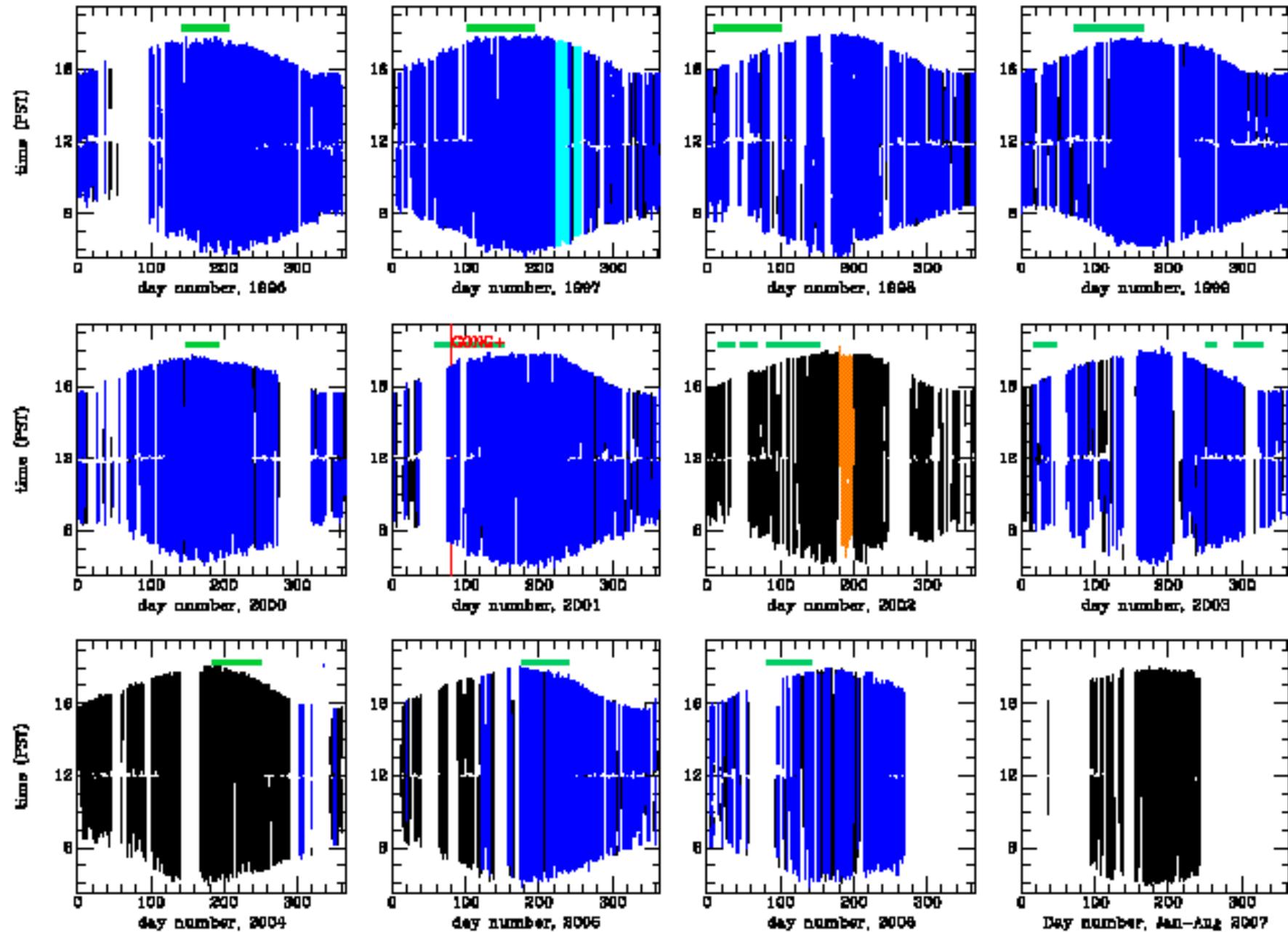




# MWO data before MDI



# MWO data during MDI



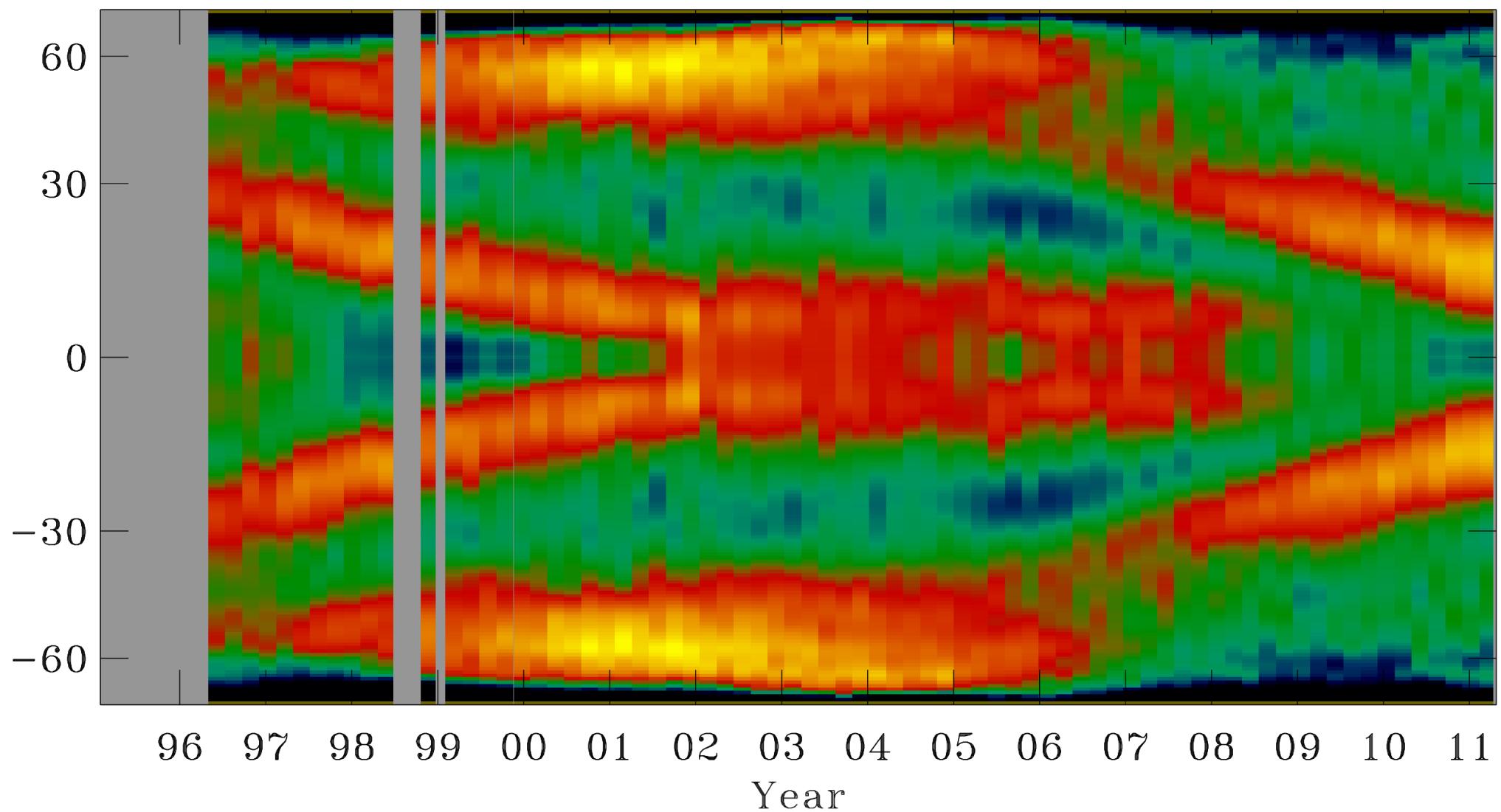
# Types of Data

- Filters: Na (mostly) or K (1997)
- Cameras
  - JPL: 1024x1024, 1987-1991
  - PANASONIC: 512x512, 1992-1994, 2007-2009
  - JPL-TALK: 1024x1024, 1994-2007
  - TALKTRONICS: 1024x1024, 2002 (testing)
- Intensity: 1990, 1993-94, 2002

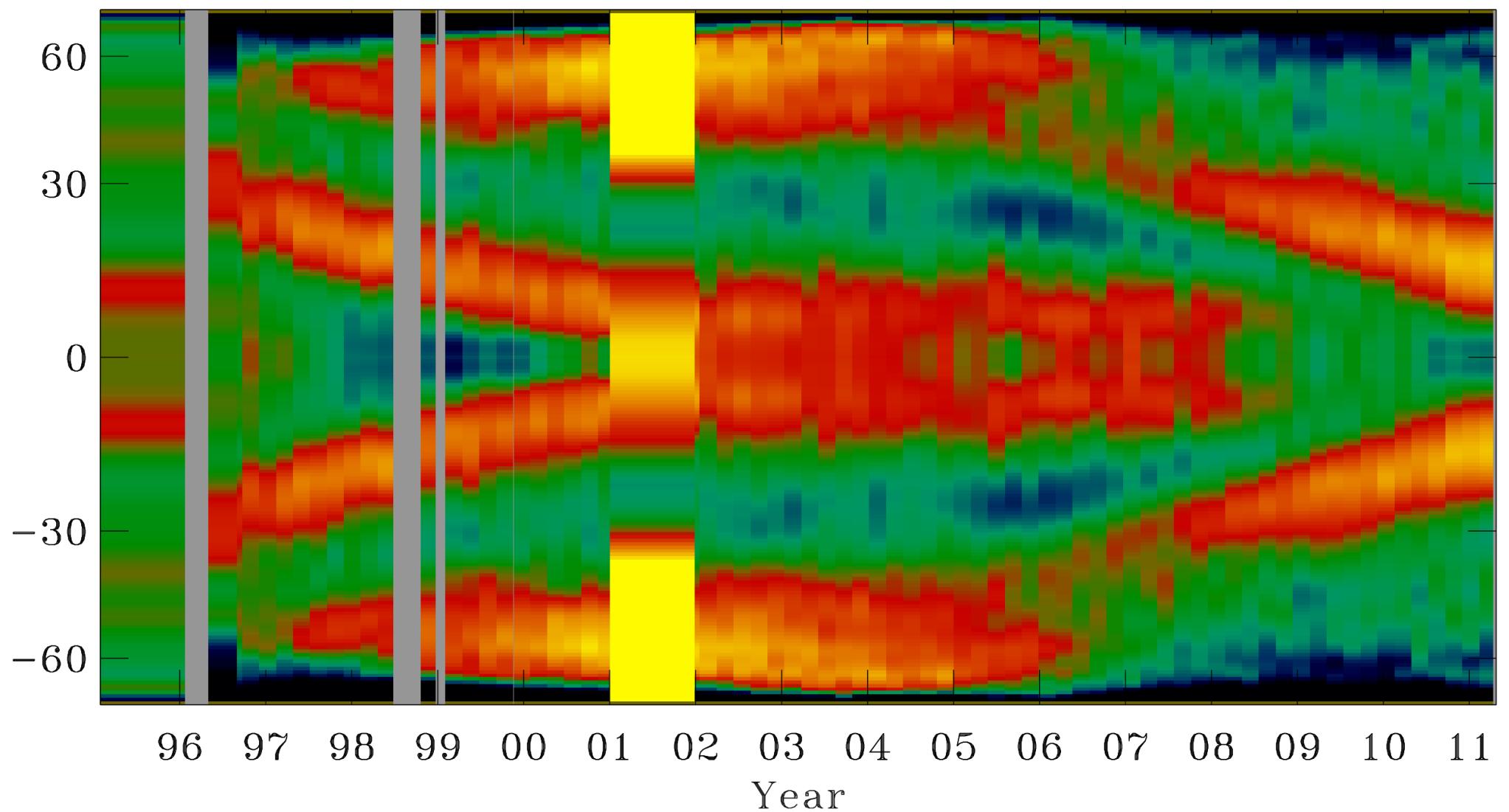
# P-angle Drift

- Ring diagram analysis reveals “washing machine” effect
- Auto-correlation with averaged images throughout the day indicates value of 0.018 degrees/hour
- Cross-correlations with MDI indicates value of 0.012 degrees/hour

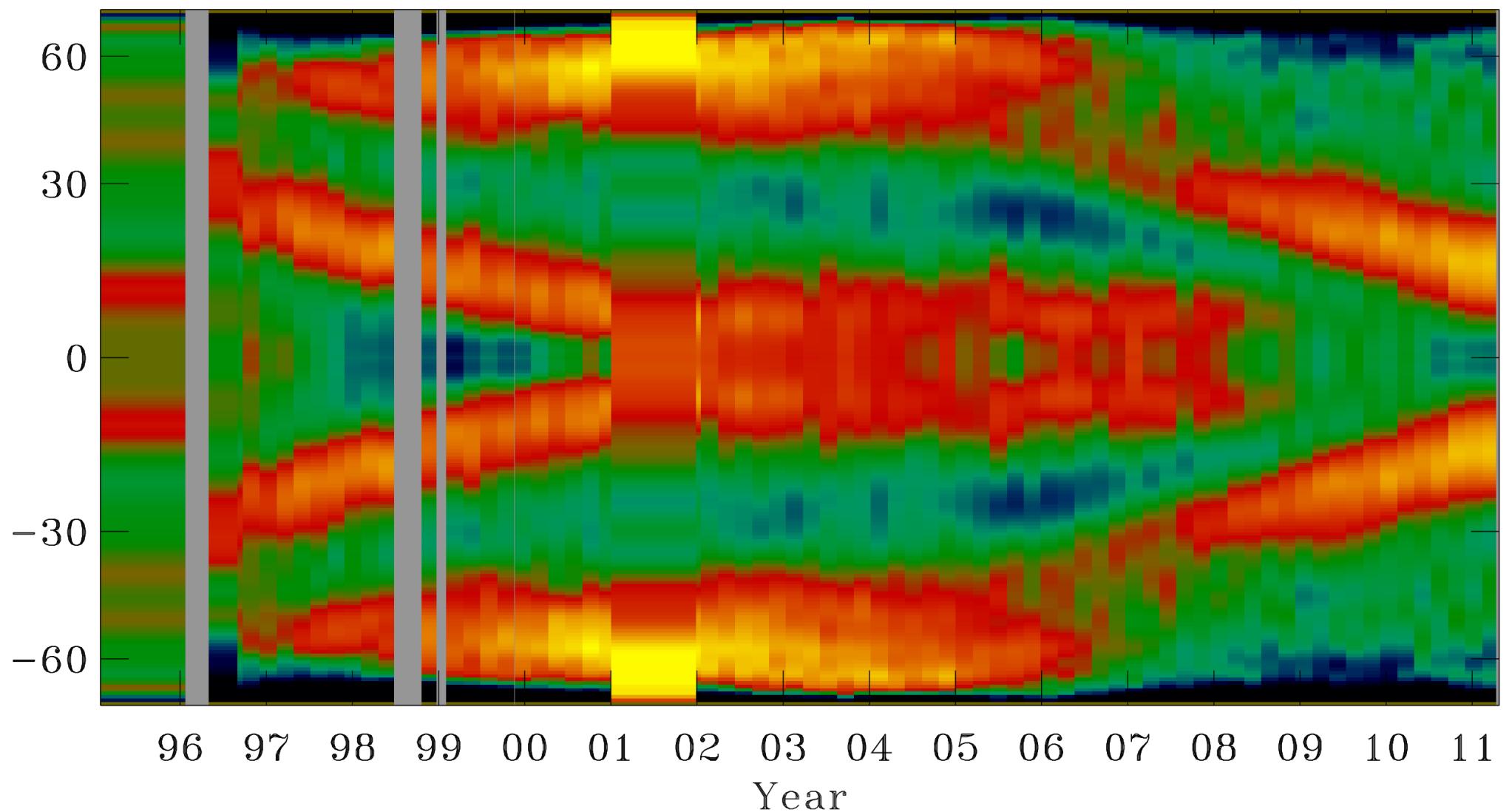
Zonal flows from MDI f modes



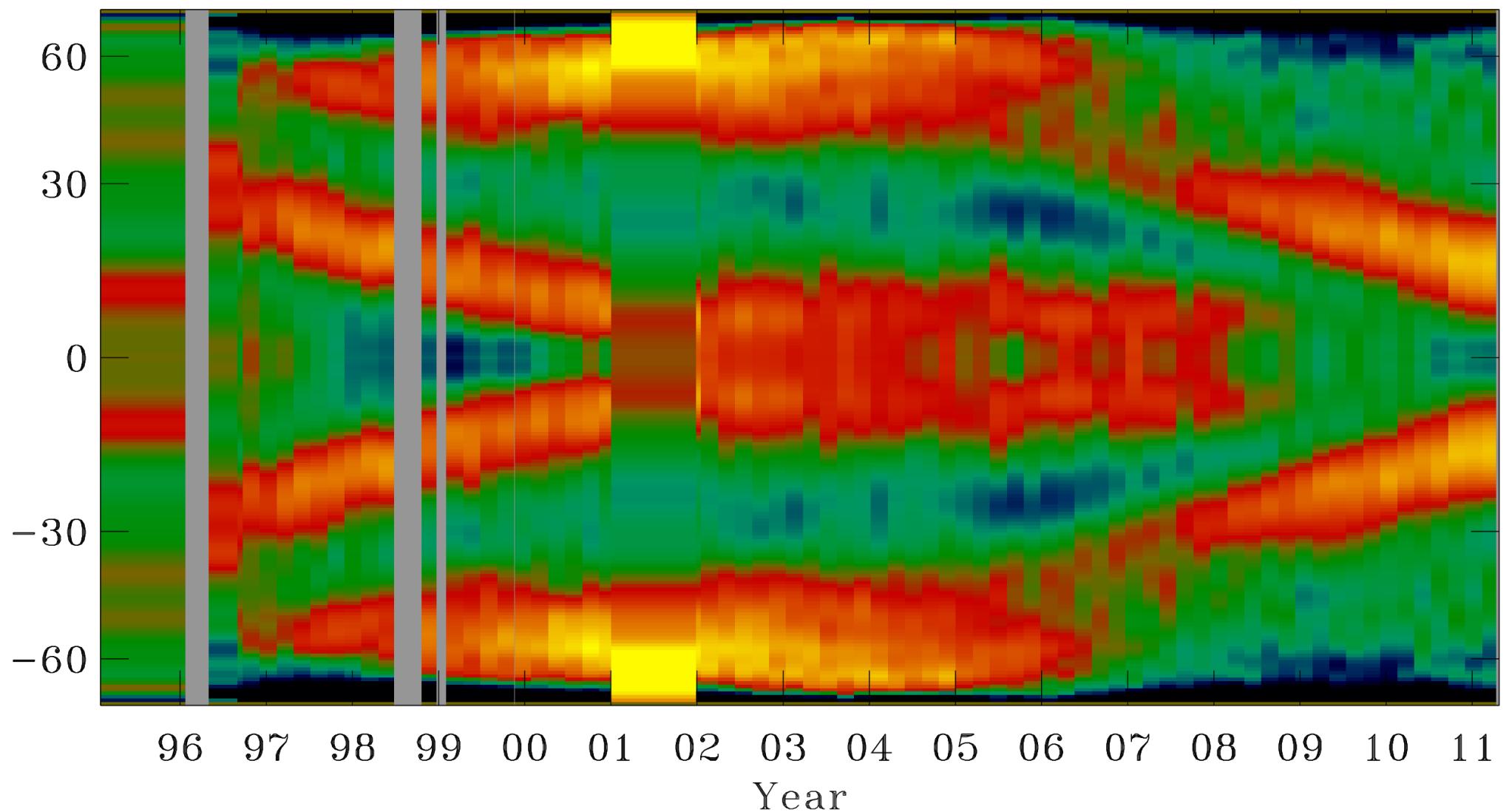
Zonal flows from MWO/MDI f modes



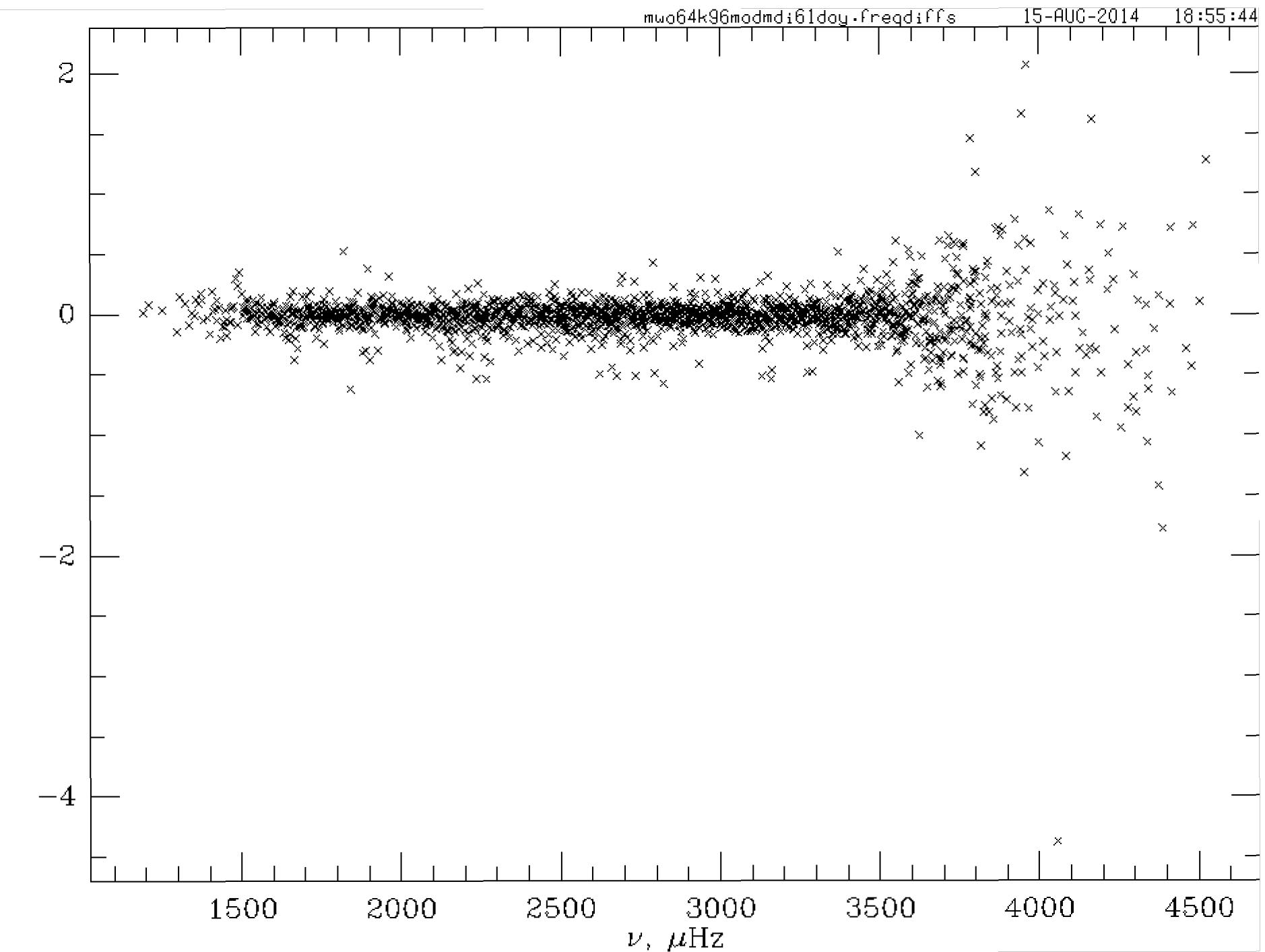
Zonal flows from MWO/MDI f modes



Zonal flows from MWO/MDI f modes



$\nu(\text{MWO,1996,modal}) - \nu(\text{MDI,1996,modal})$ ,  $\mu\text{Hz}$



That's all Folks!