



I have been studying EVE

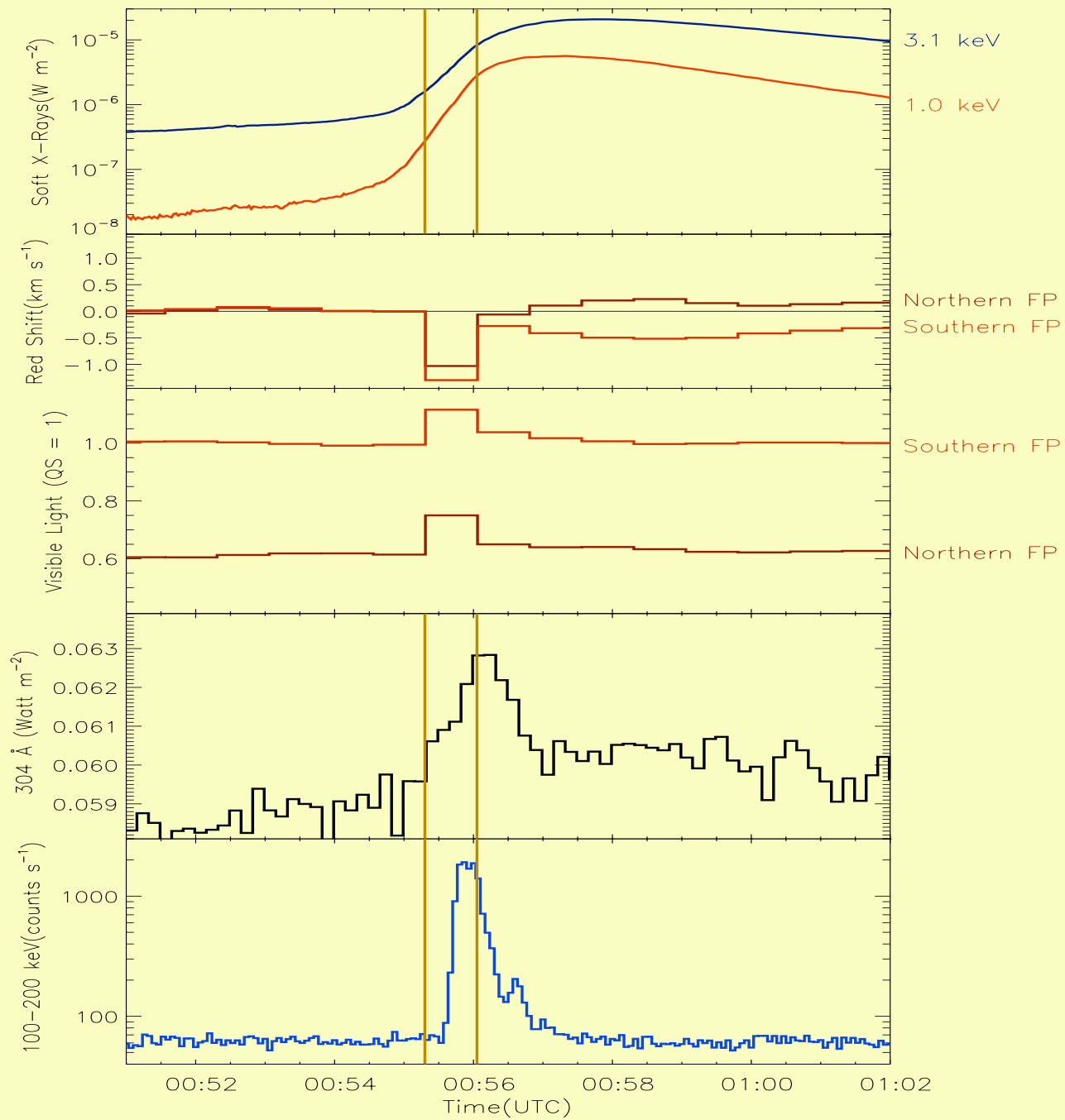


H. S. Hudson

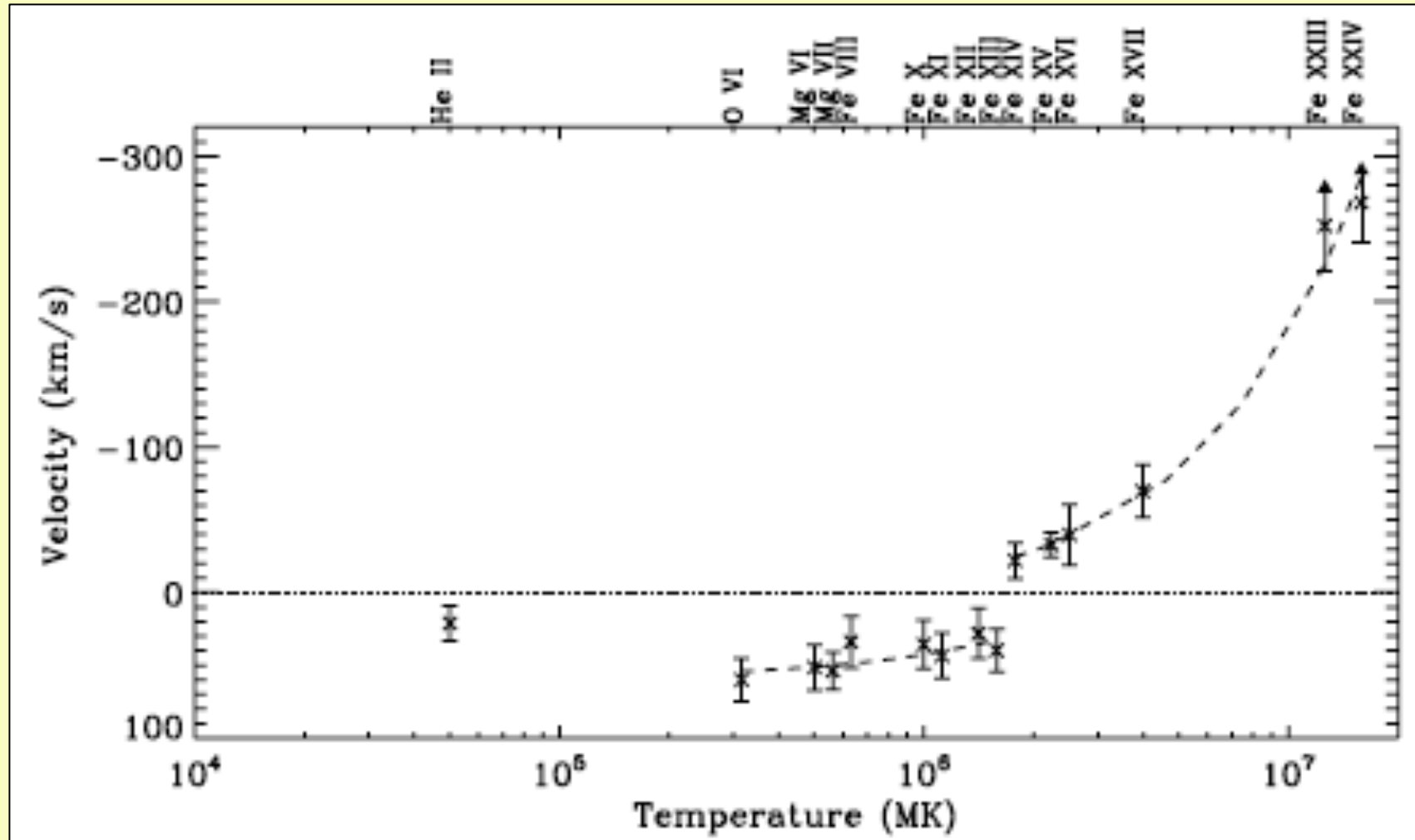
Space Sciences Laboratory, University of California, Berkeley, USA

Astronomy & Astrophysics Group, Glasgow

Flare SOL2010-06-12T00:57



More motivation

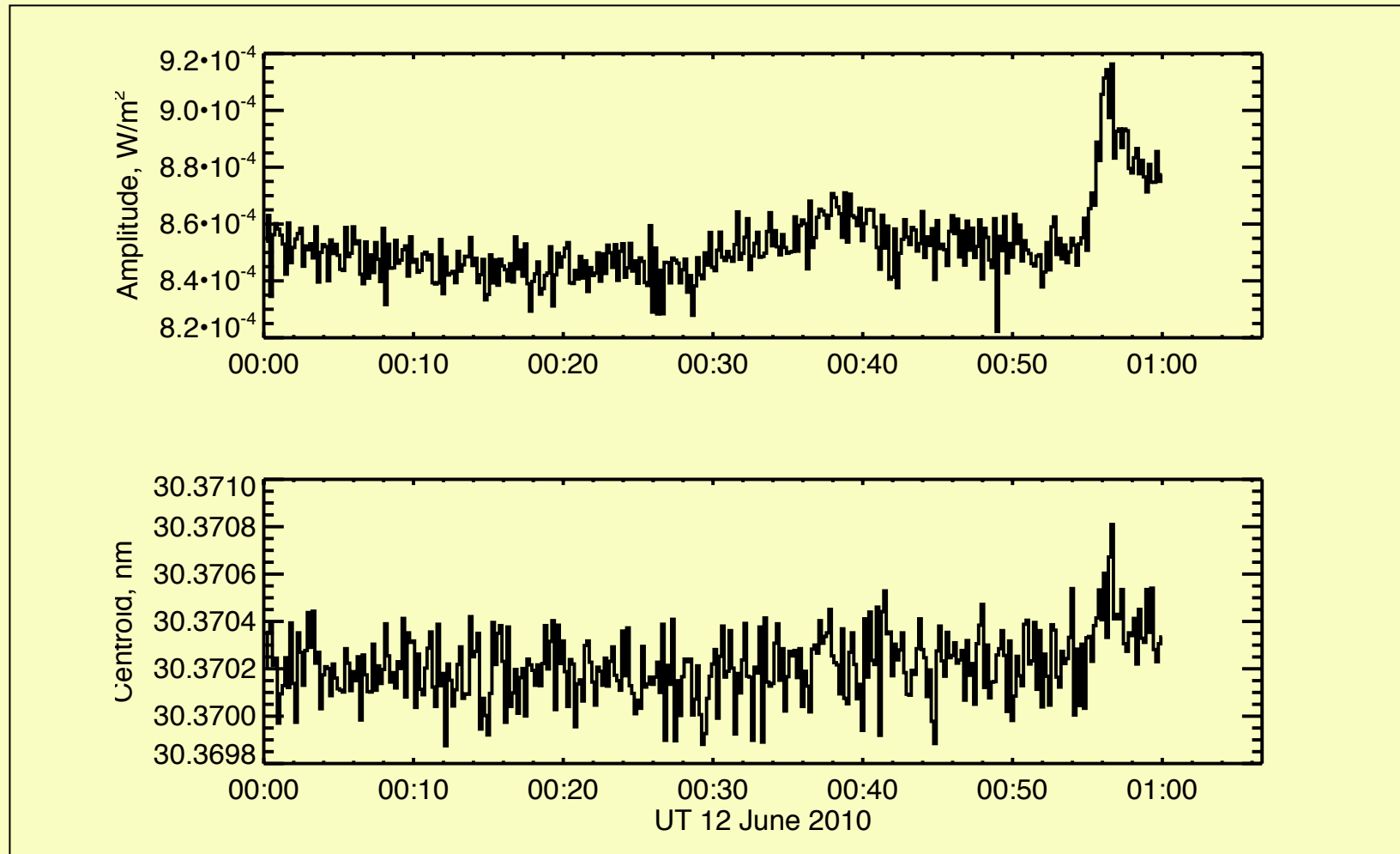


Milligan & Dennis 2009

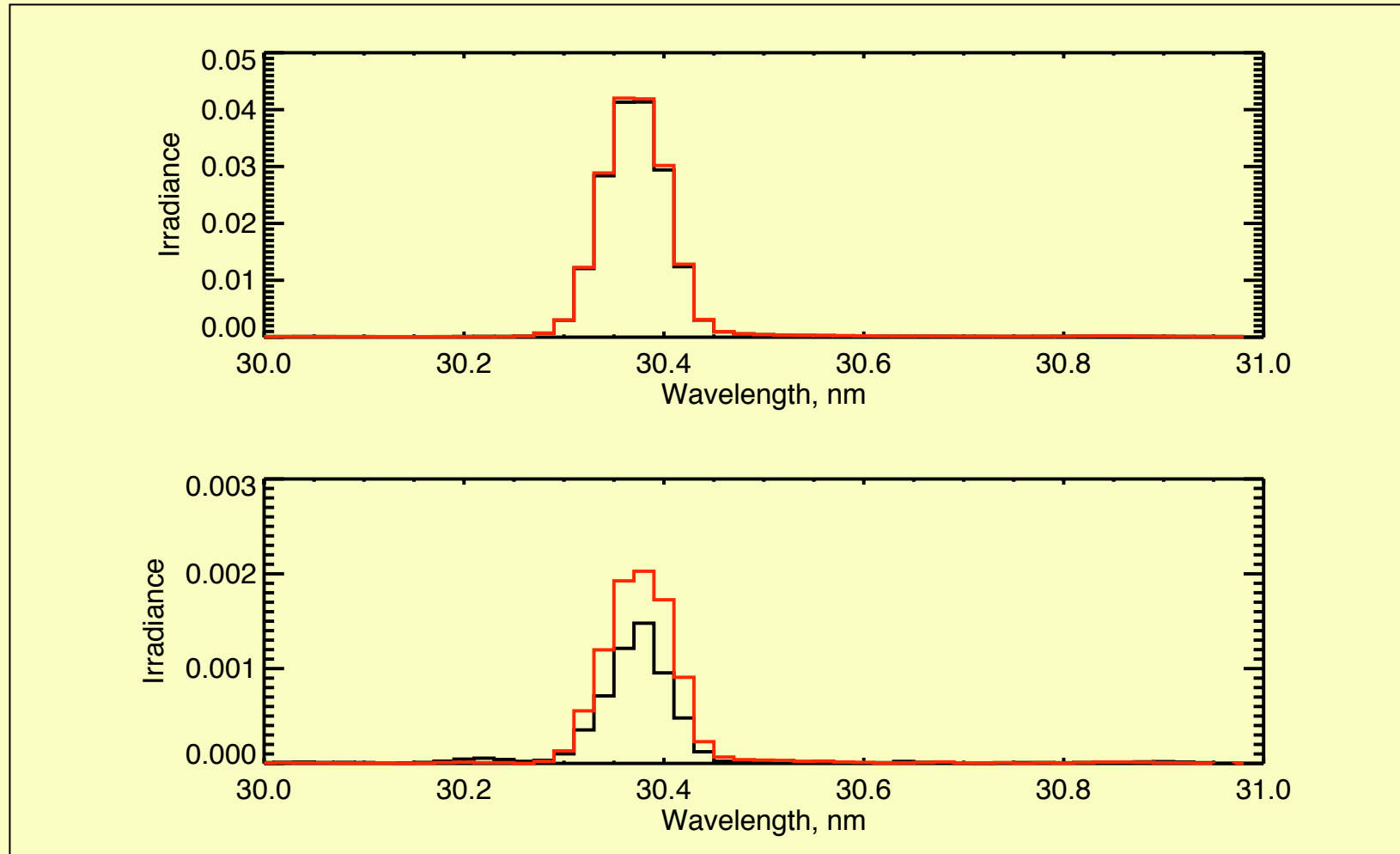
Sun-as-a-star EUV tools

- SOHO/SEM: broad EUV band at 30.4 \pm 4 nm
- SDO/EVE MEGS-A: far-UV, 1 Å resolution, 10 s cadence (data available)
- SDO/EVE MEGS-B: near-UV, 1 Å resolution, 10 s cadence (to be released in a couple of weeks)

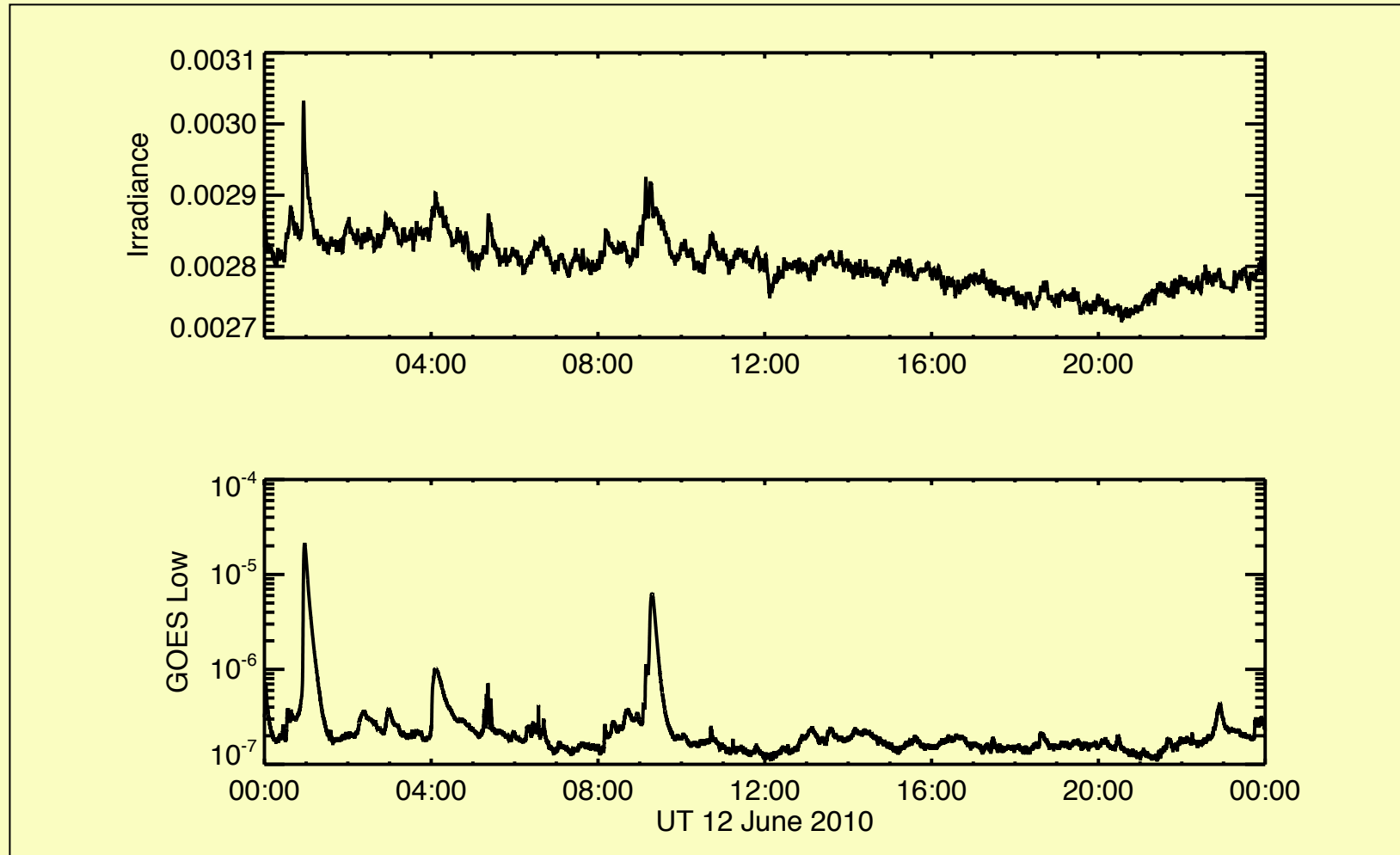
EVE 304A for SOL2010-06-12T00:57



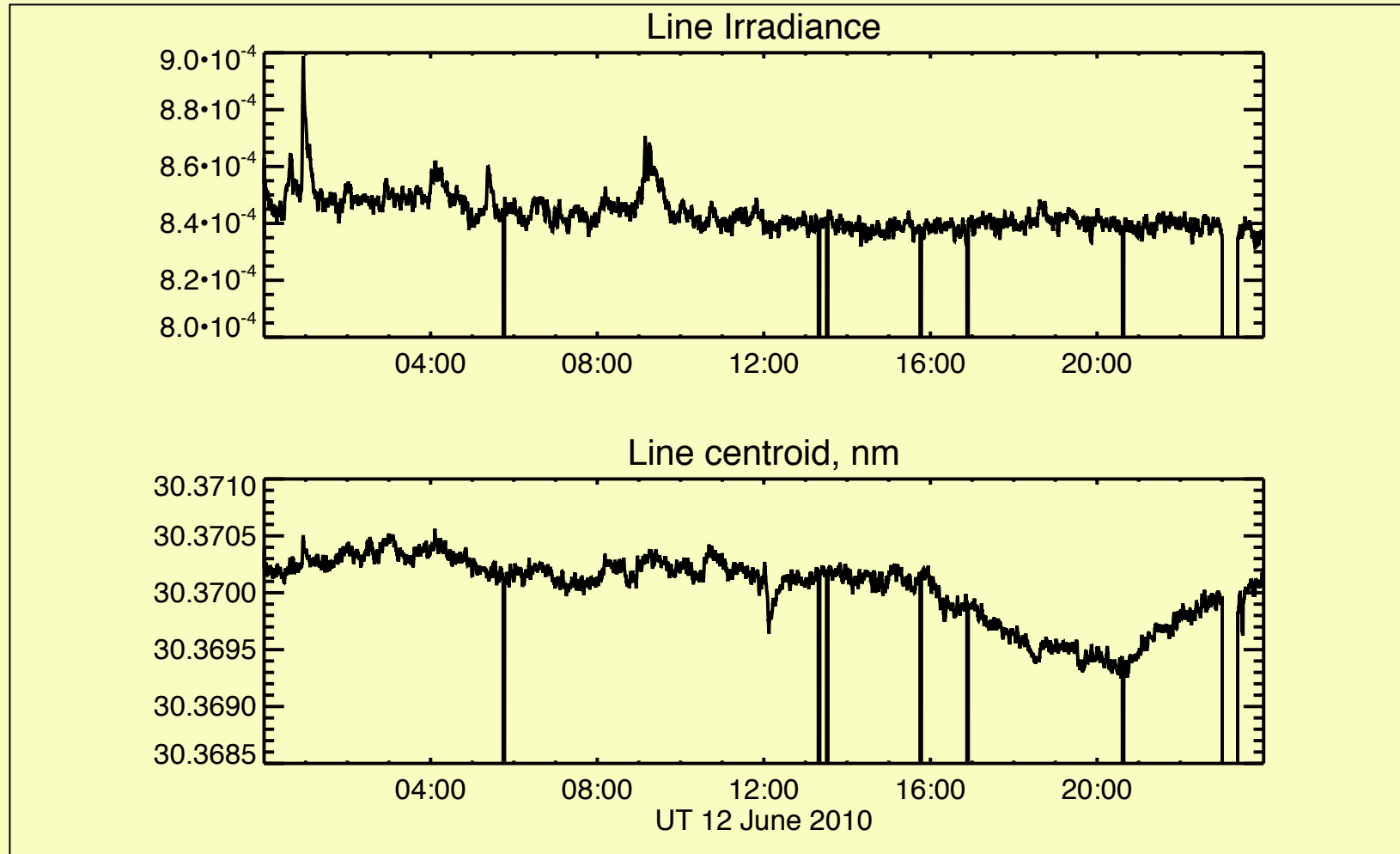
Line detail, total and subtracted



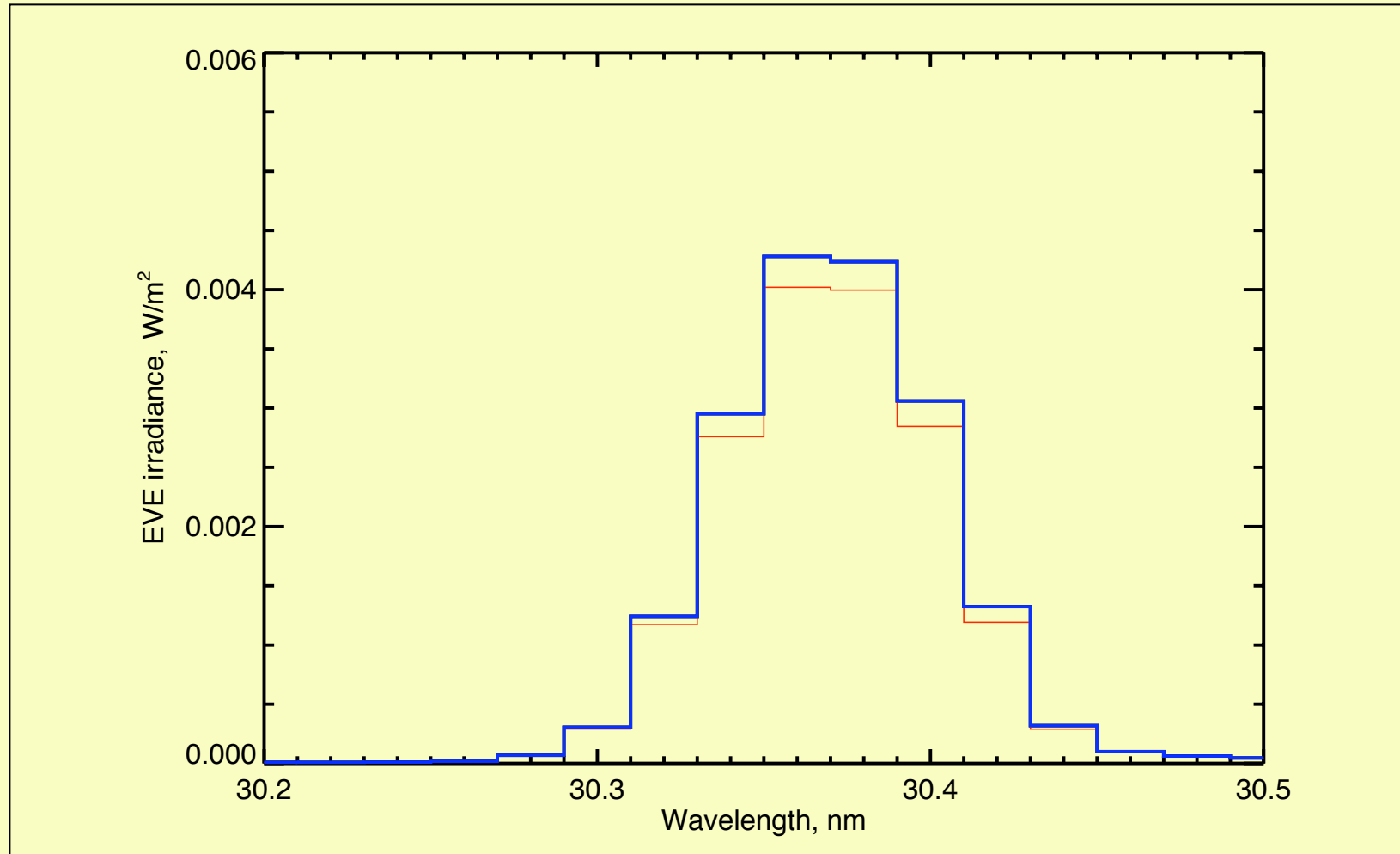
304 time series, one day



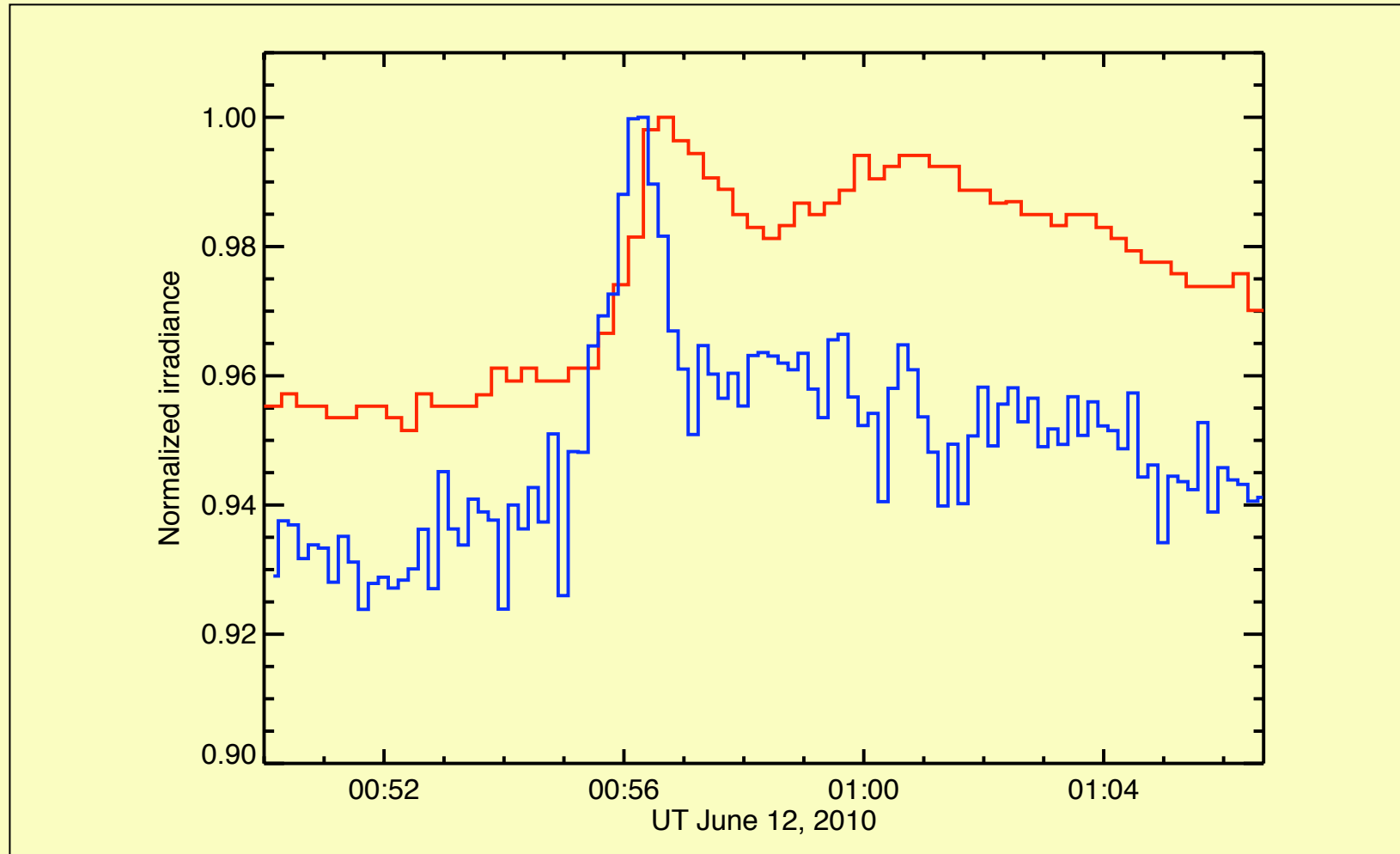
Flux and Doppler, one day



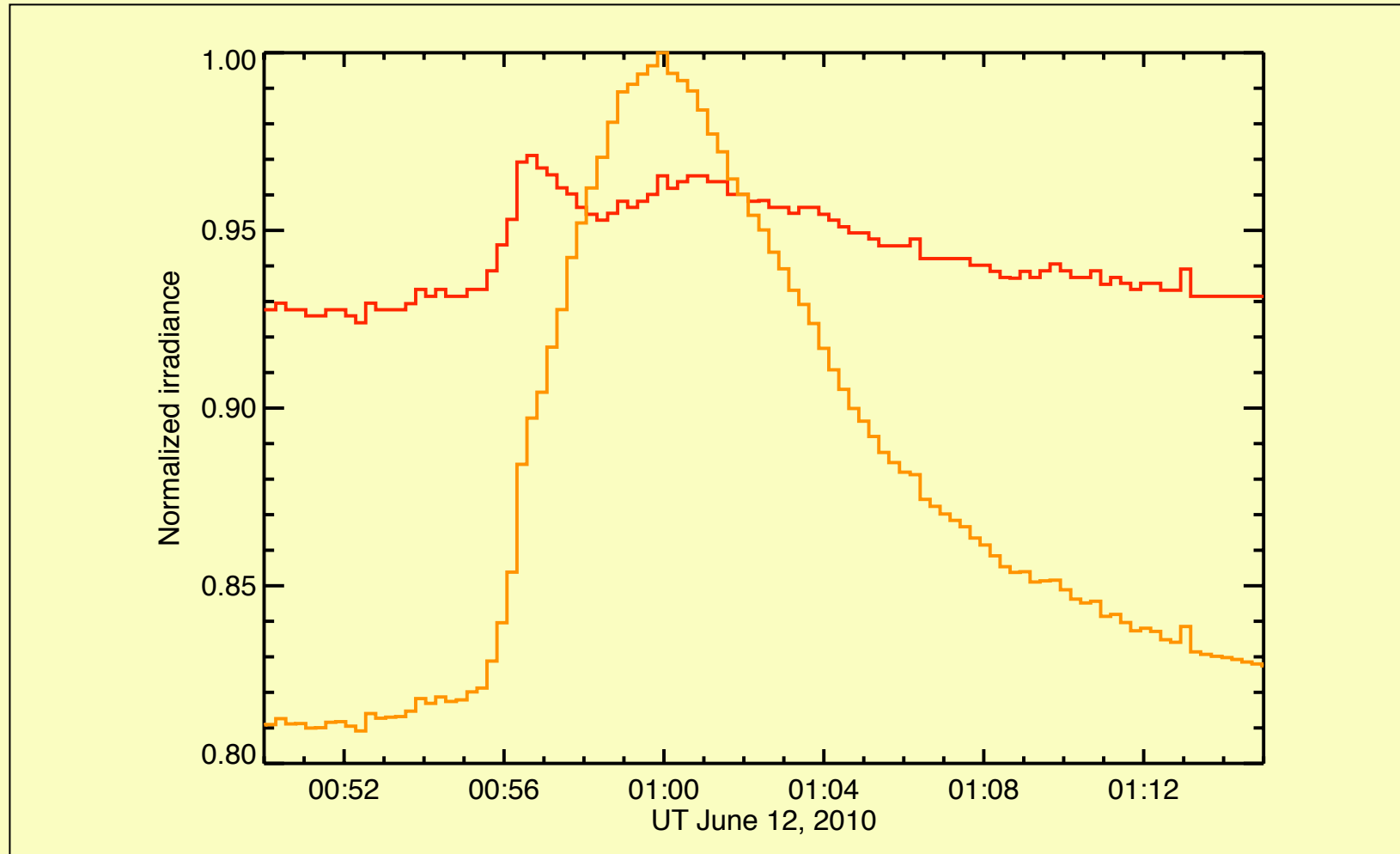
Doppler shift?



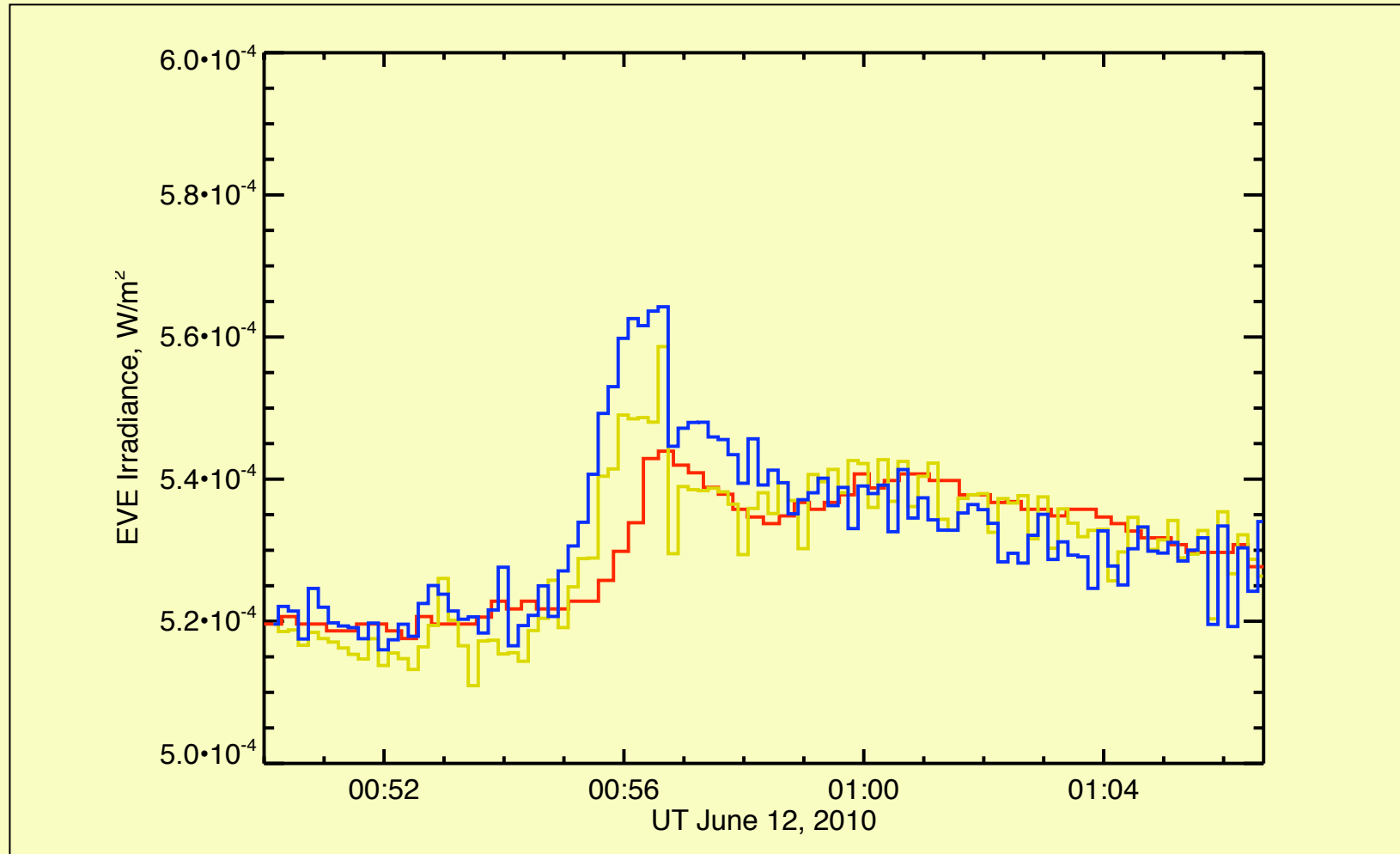
EVE 304 narrow vs SEM



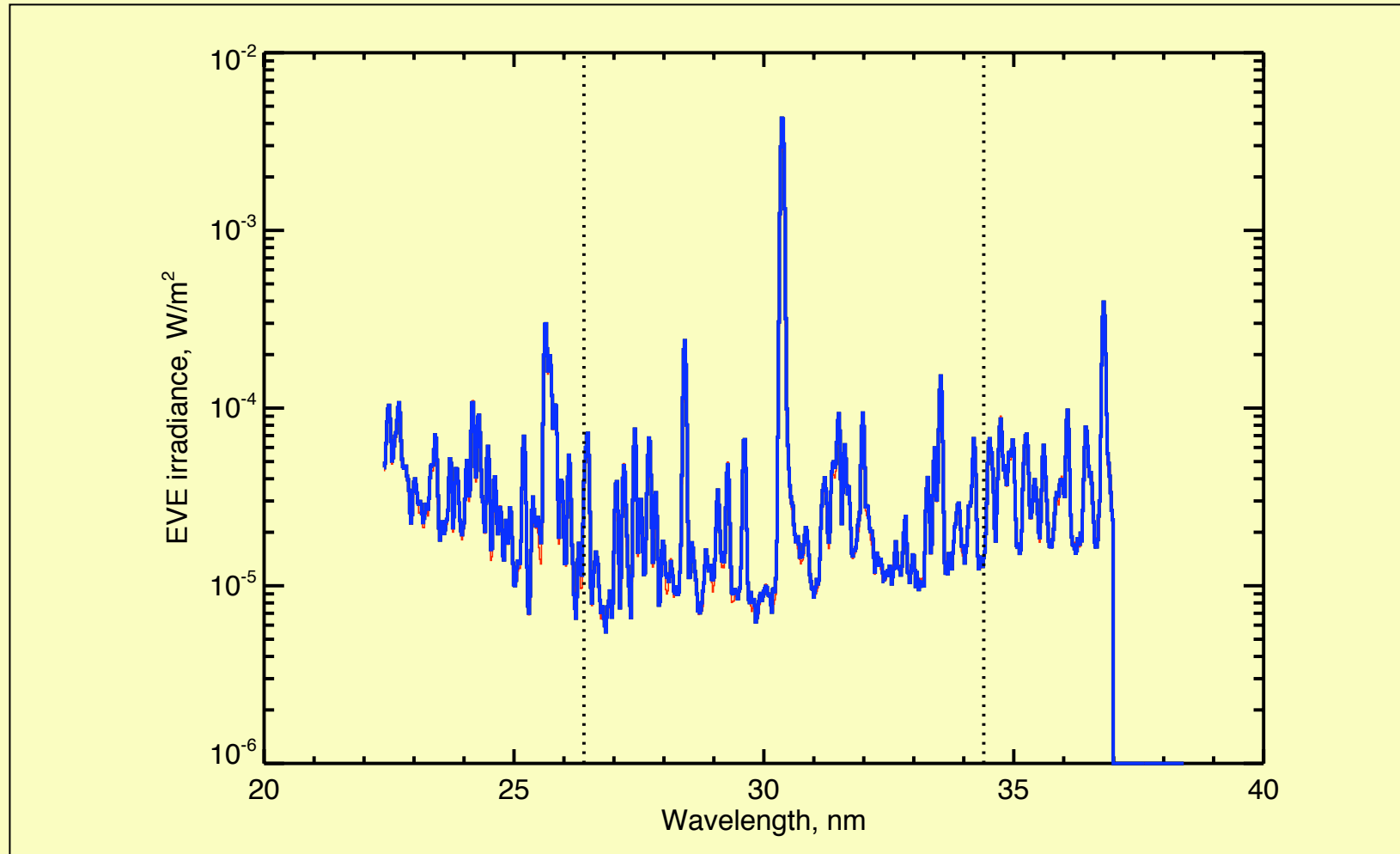
EVE 304 vs SEM, broad



EVE 304, SEM, EVE broad



Broad passband



Comments on EVE

- Lots of lines to work with
- He II spectrum in the impulsive phase (can see Ly- β and a hint of Ly- γ in SOL2010-06-12)
- Need bigger flares
- Looking forward to near UV (out to 1500Å, I think) as a part of WLF characterization