

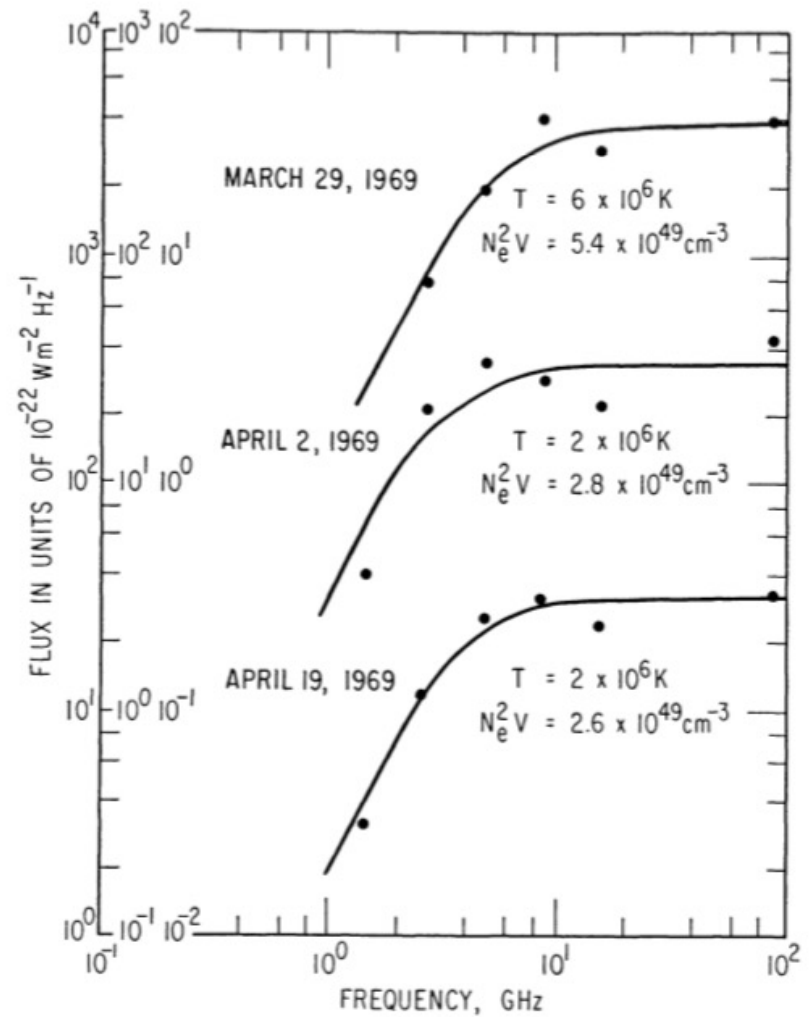
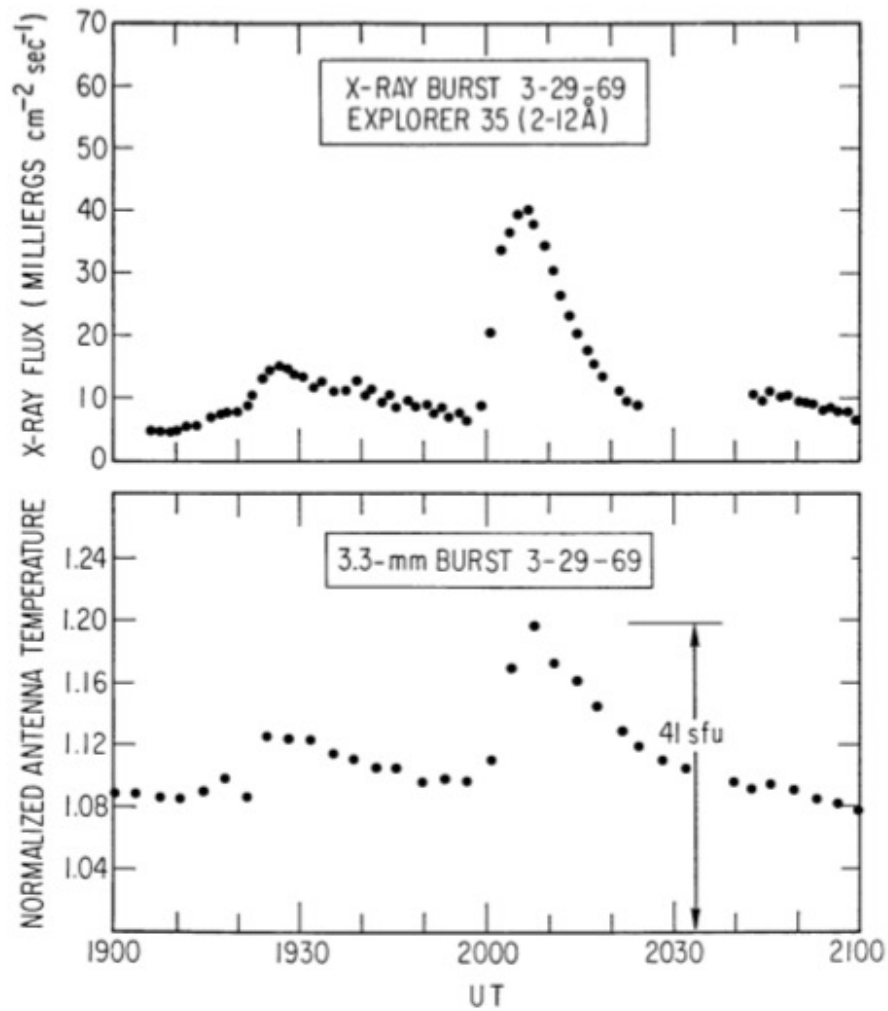
# How good is the mm-wave/X-ray emission-measure correlation?

*Hugh Hudson<sup>1,2</sup>*

*<sup>1</sup>Space Sciences Laboratory,  
UC Berkeley*

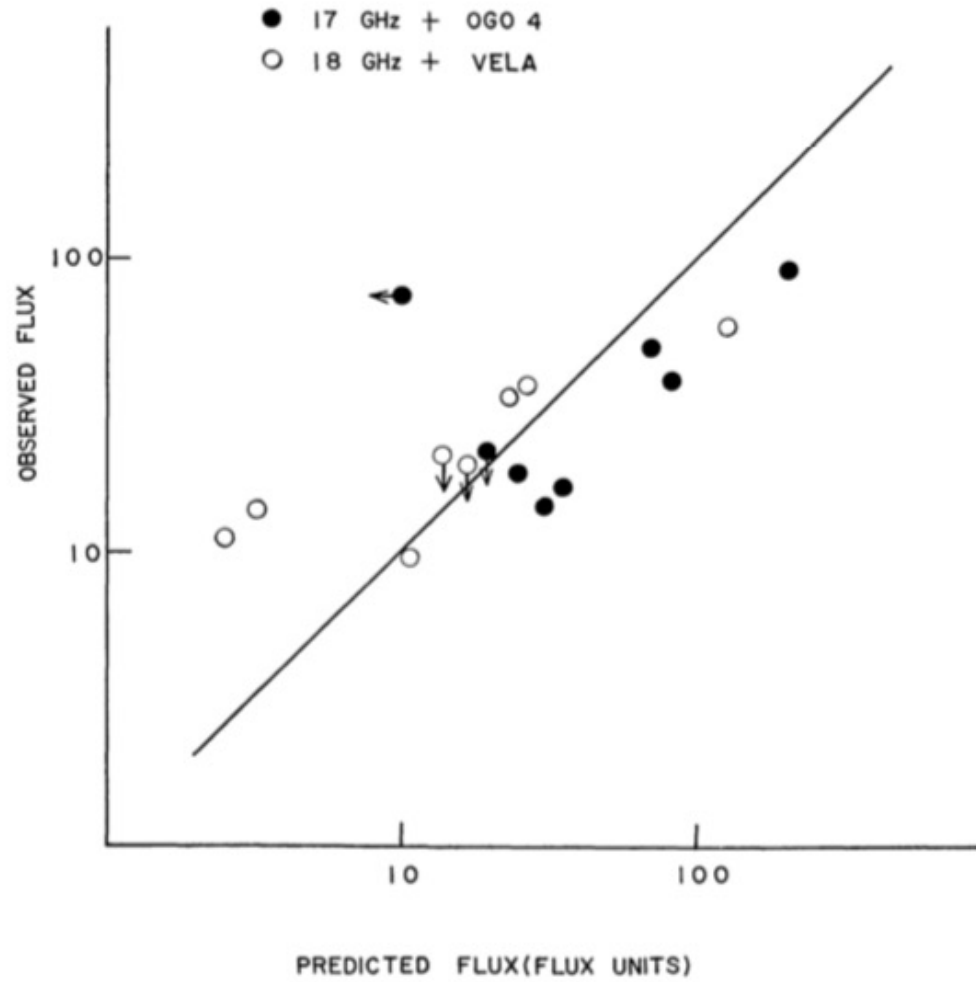
*<sup>2</sup>University of Glasgow*

# History



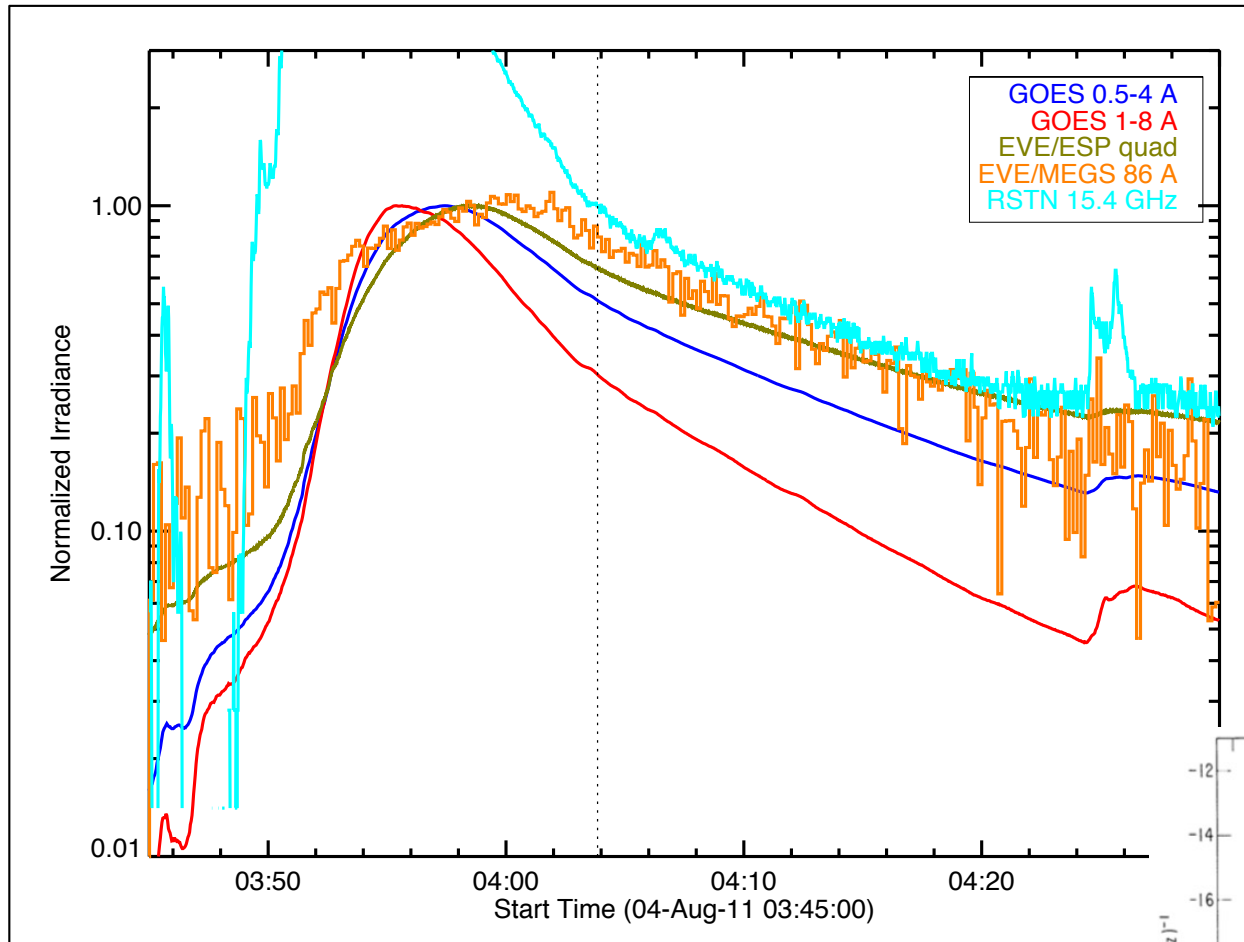
Shimabukuro 1972 (cf. Kawabata 1963, 1966)

# More history

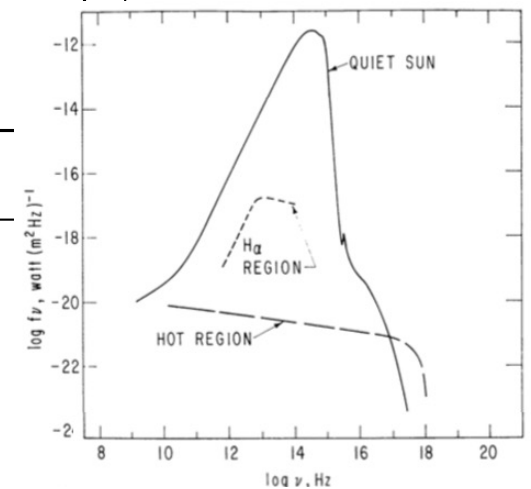


Hudson & Ohki 1972

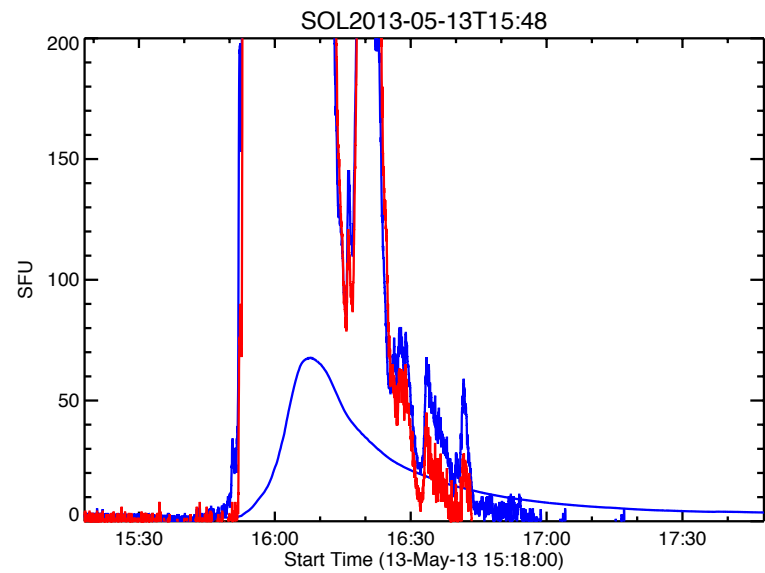
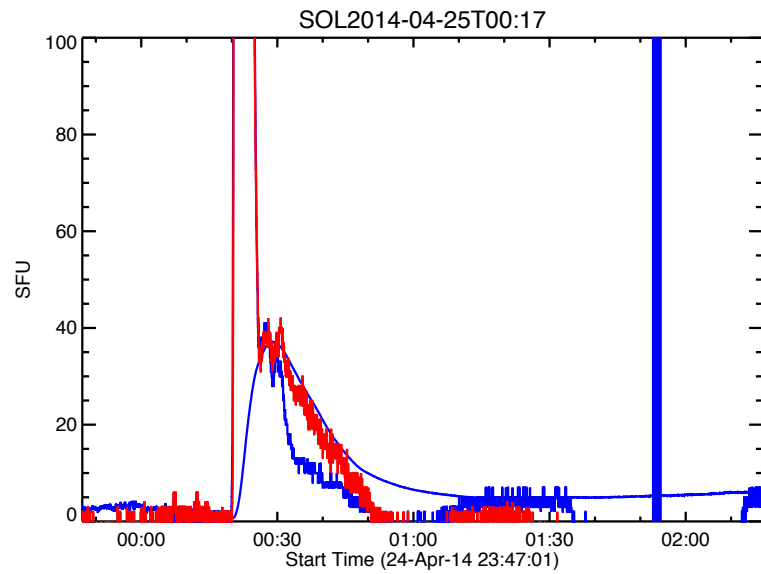
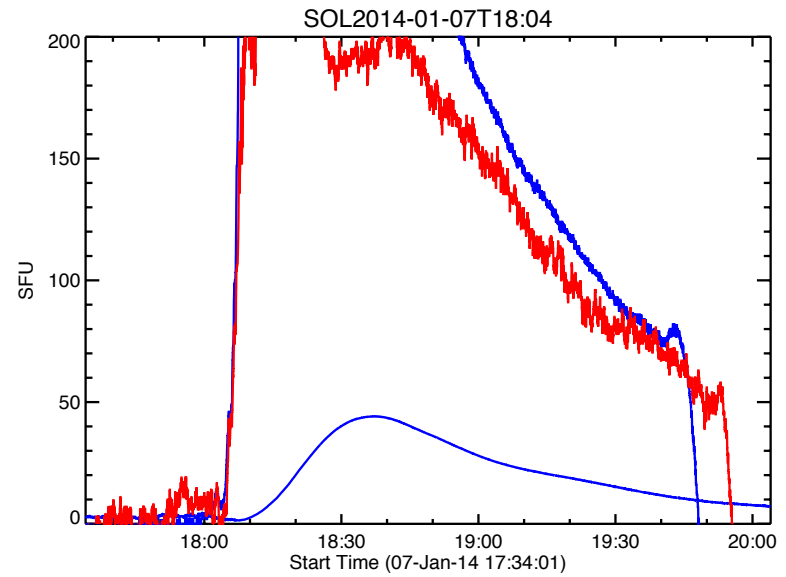
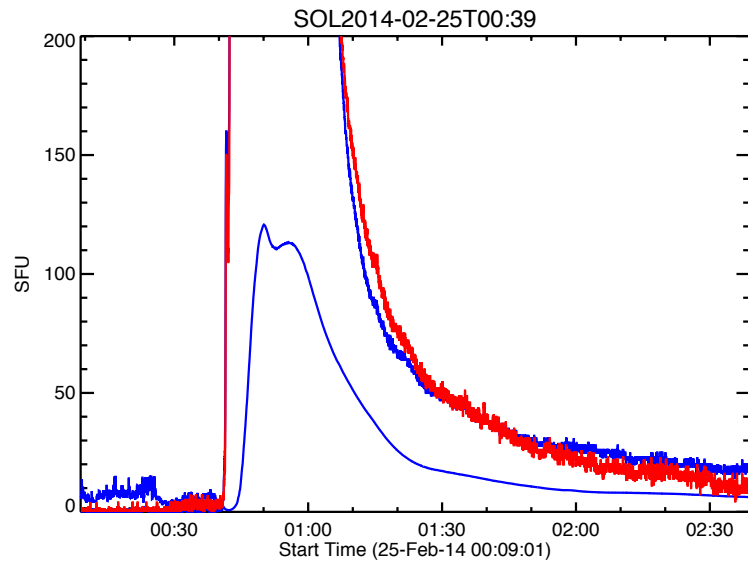
# Time series for SOL2011-08-04



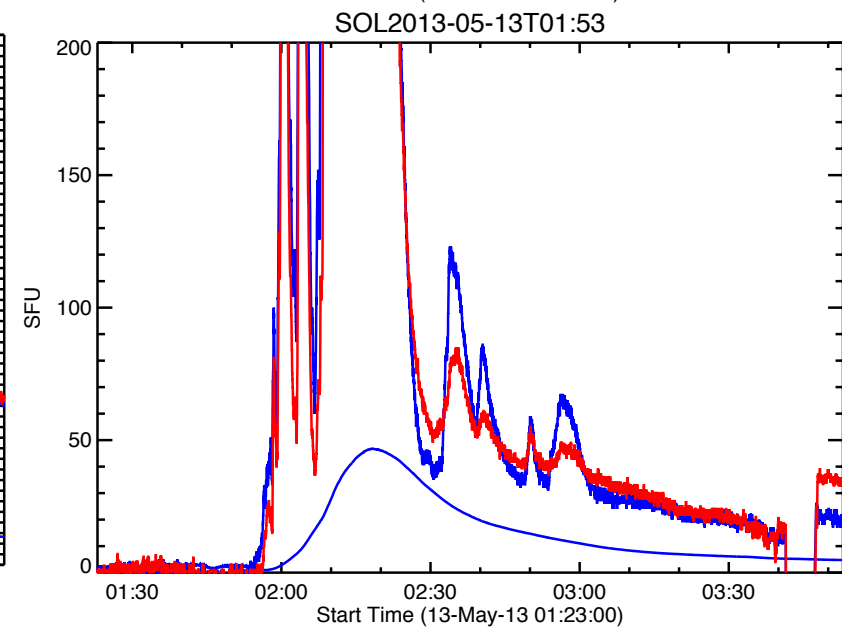
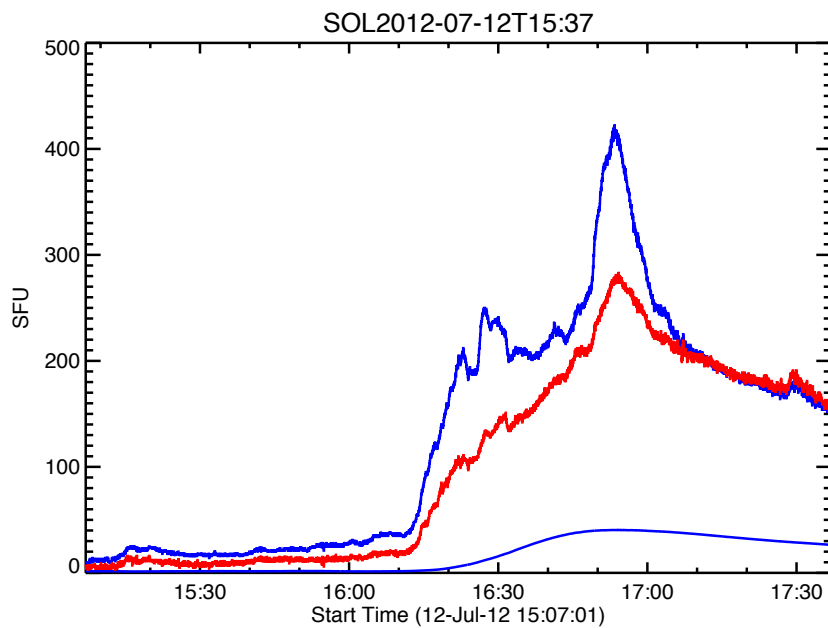
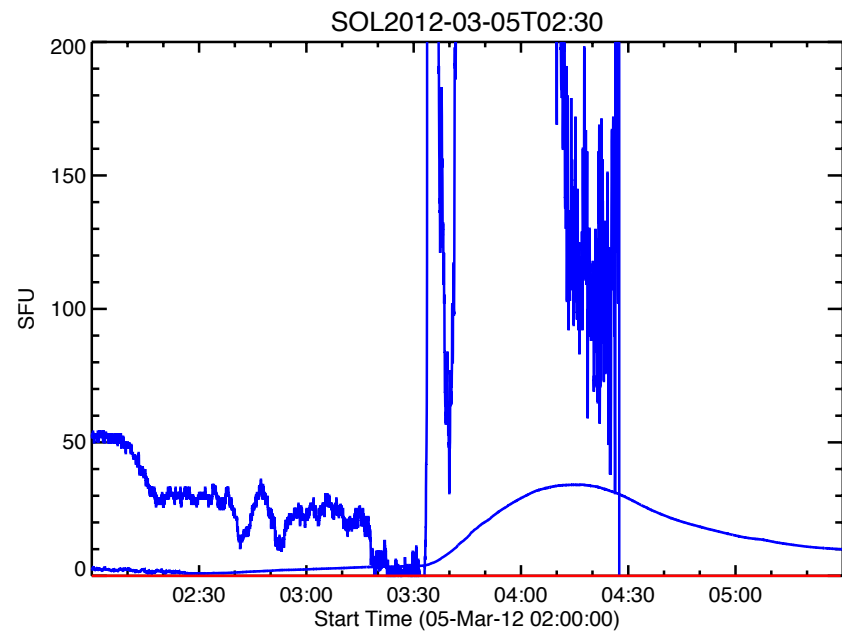
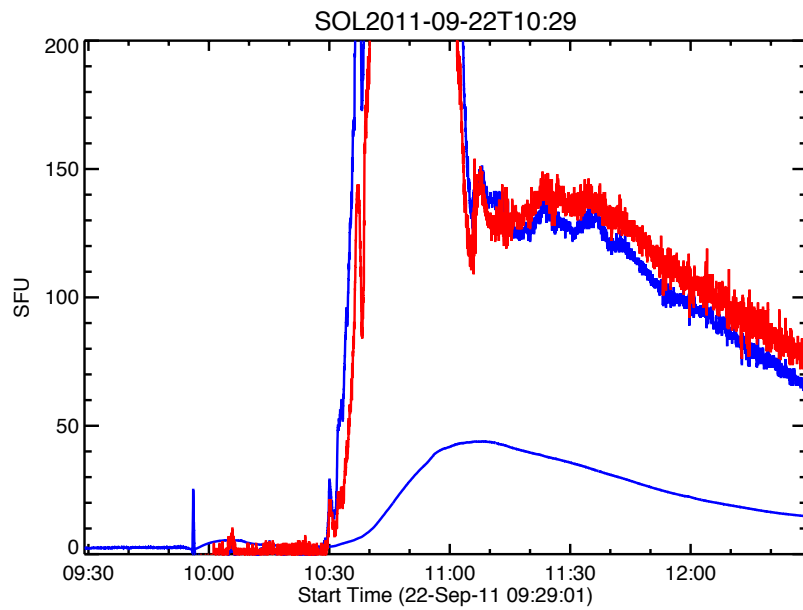
- The EVE flare continuum at 86 Å aligns well with the RSTN 15.4 GHz continuum – spanning 10 decades in wavelength



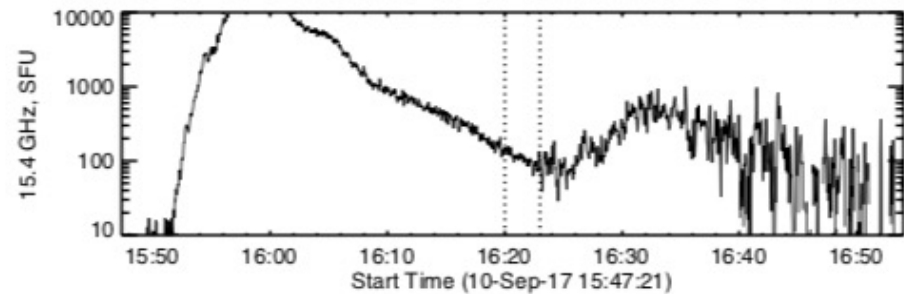
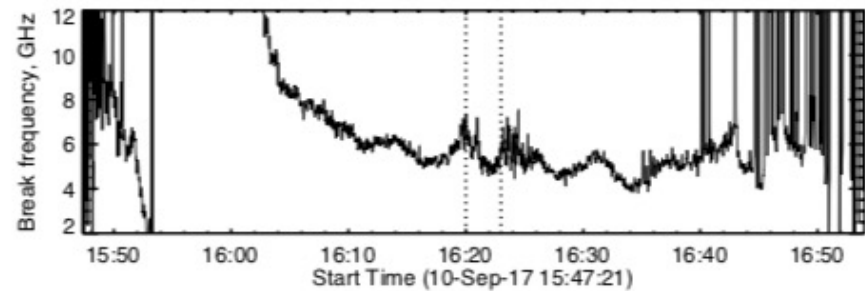
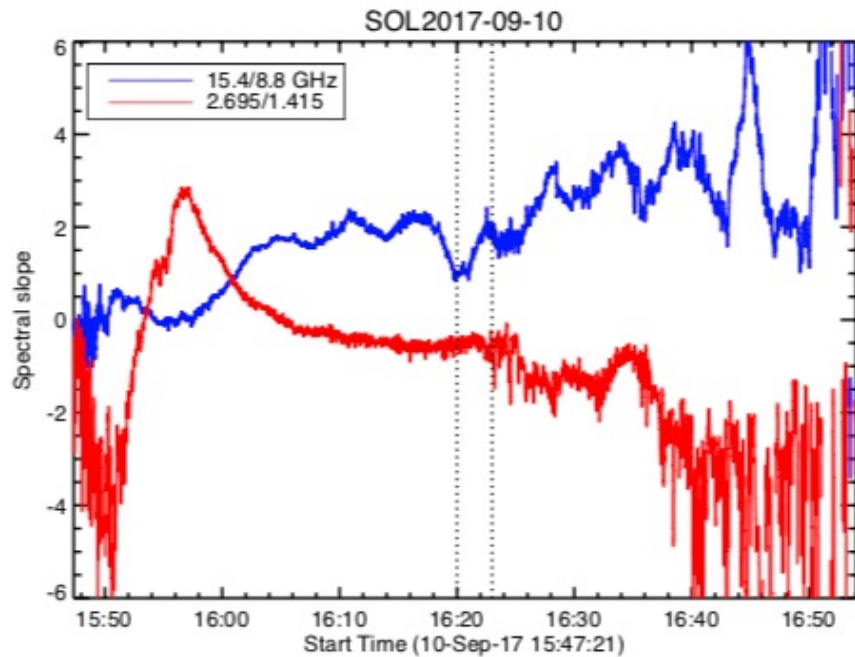
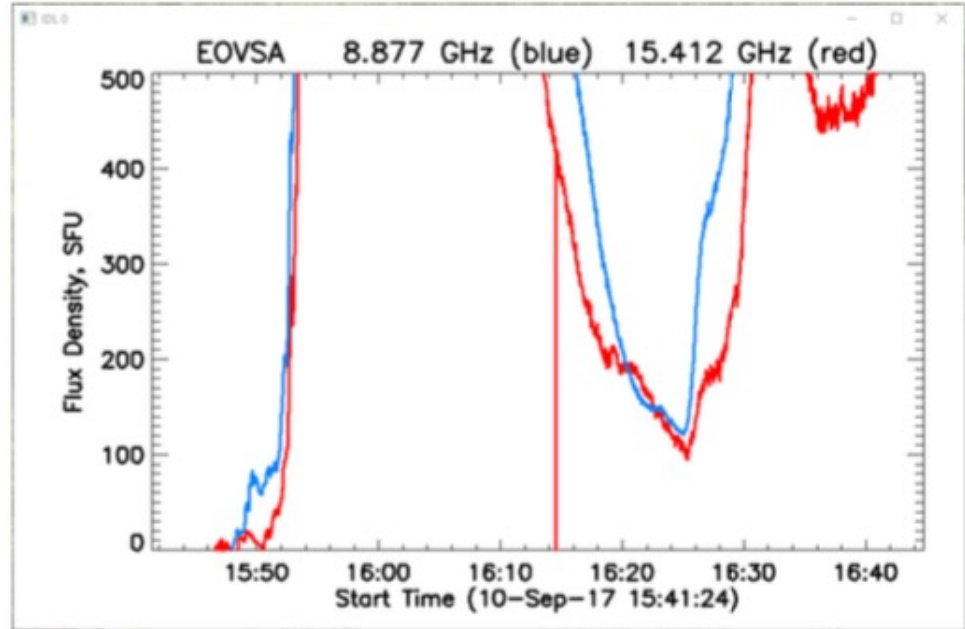
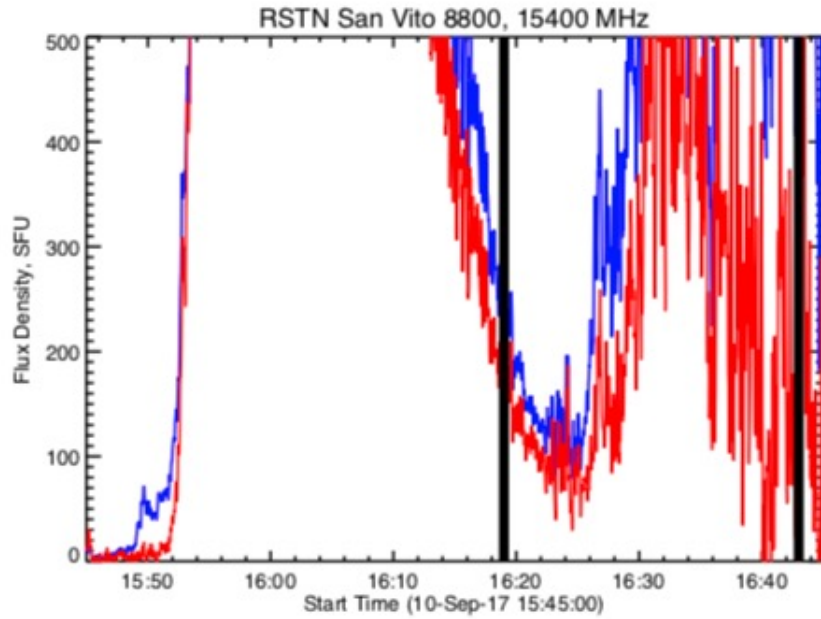
# Other flares



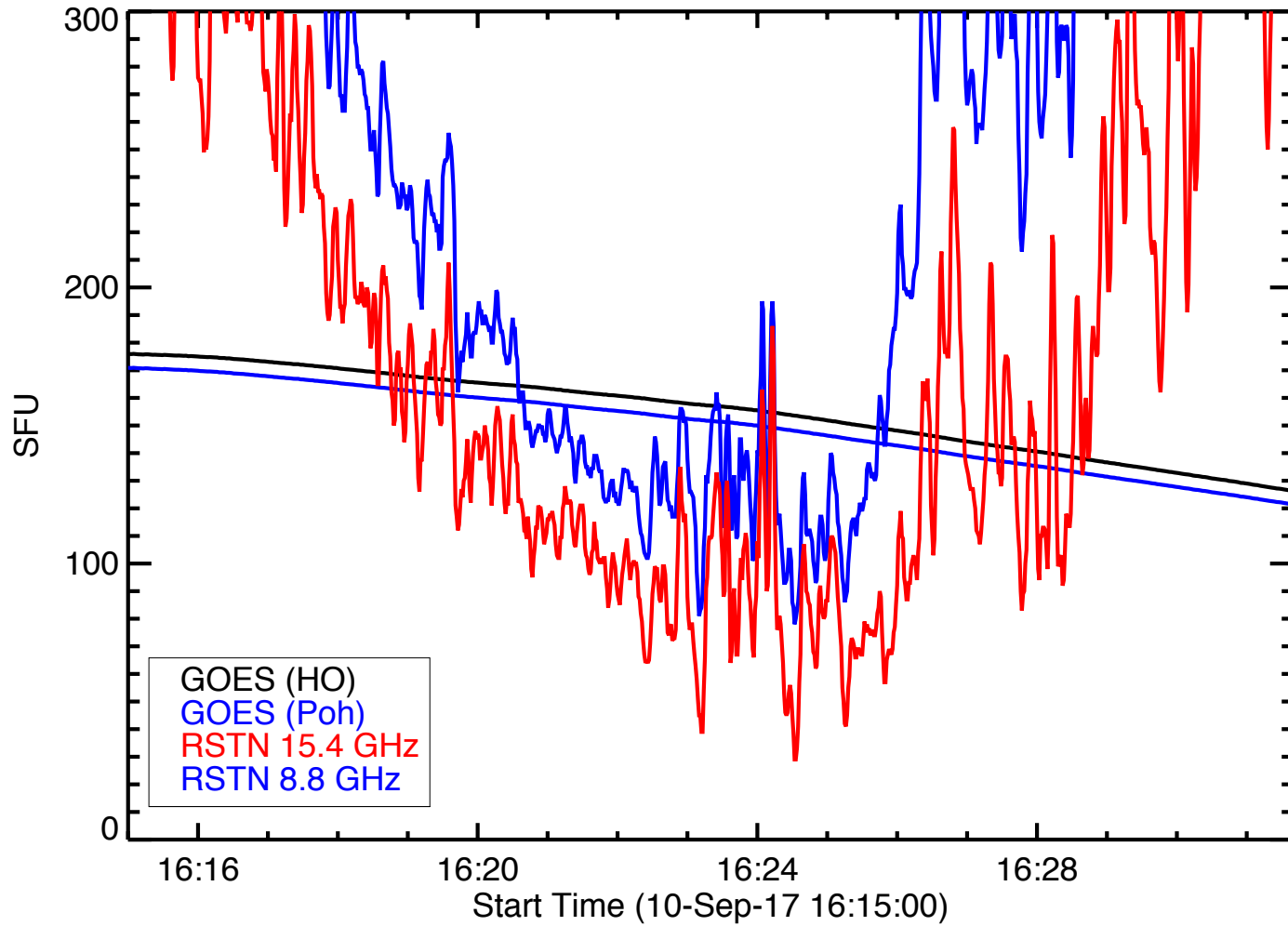
# More flares



# SOL2017-09-10



# SOL2017-09-10





# Conclusions

- The free-free comparison looks OK for our flare, but only in a narrow time range.
- Other flares show large thermal excesses with interesting single-frequency spectra.
- A modern survey updating the 1972 results would really be useful, especially for the EVE/MEGS-A active time.