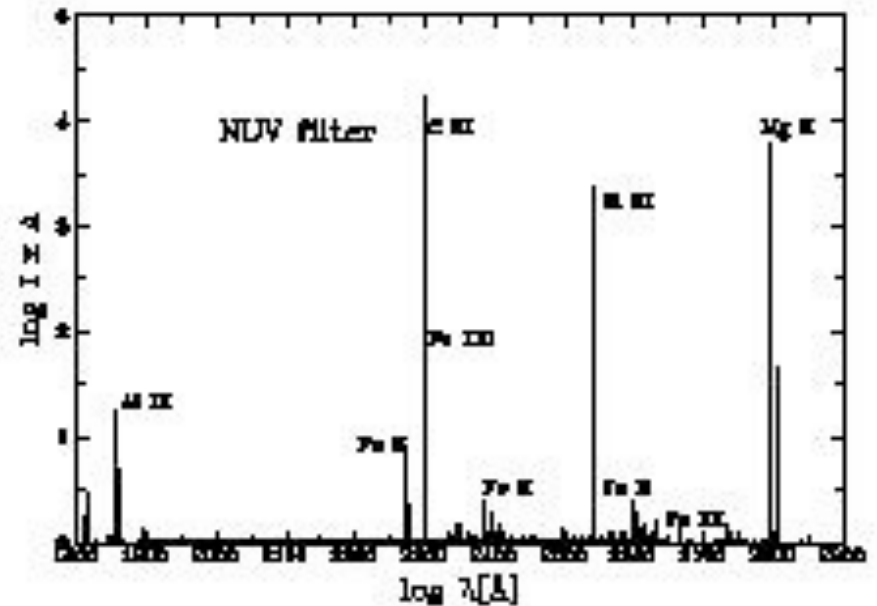
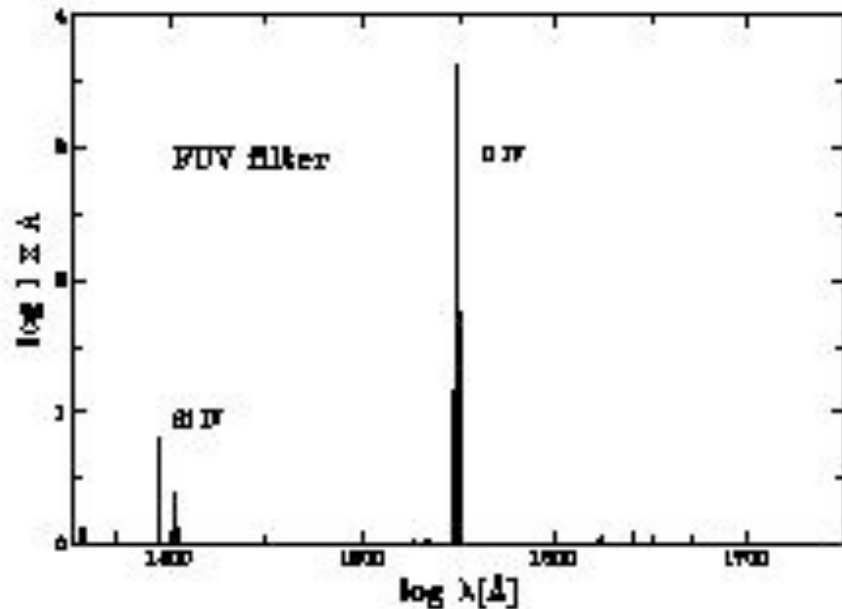


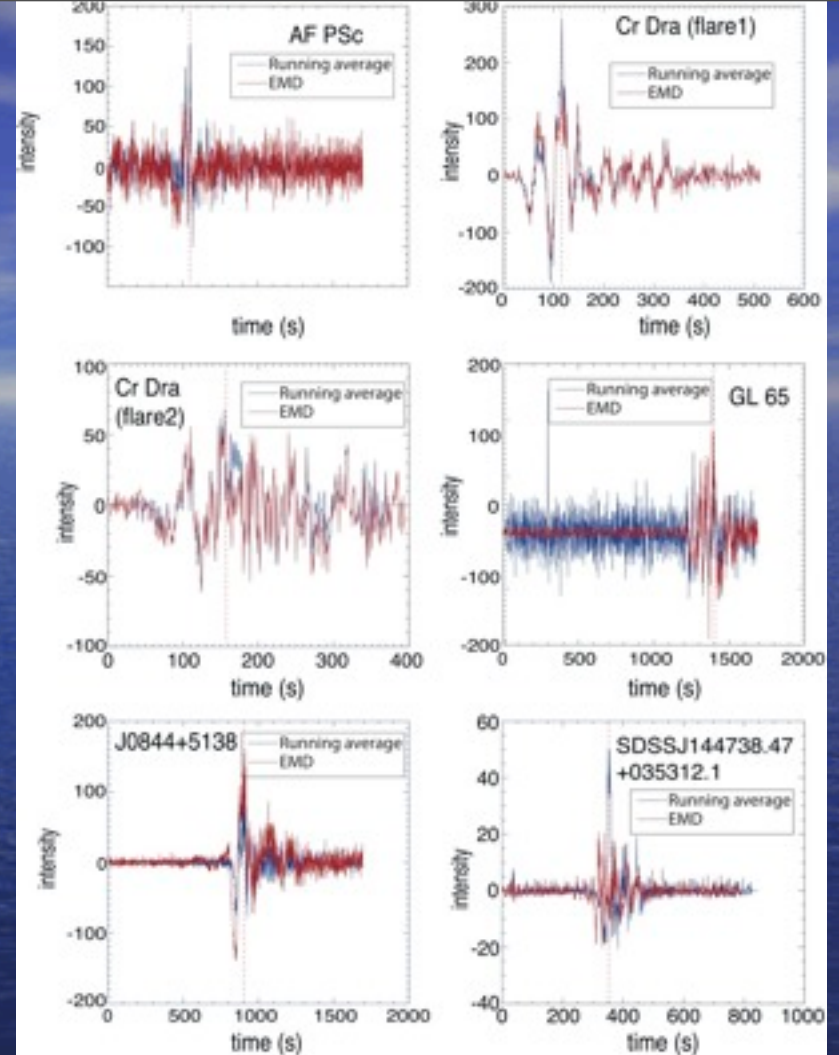
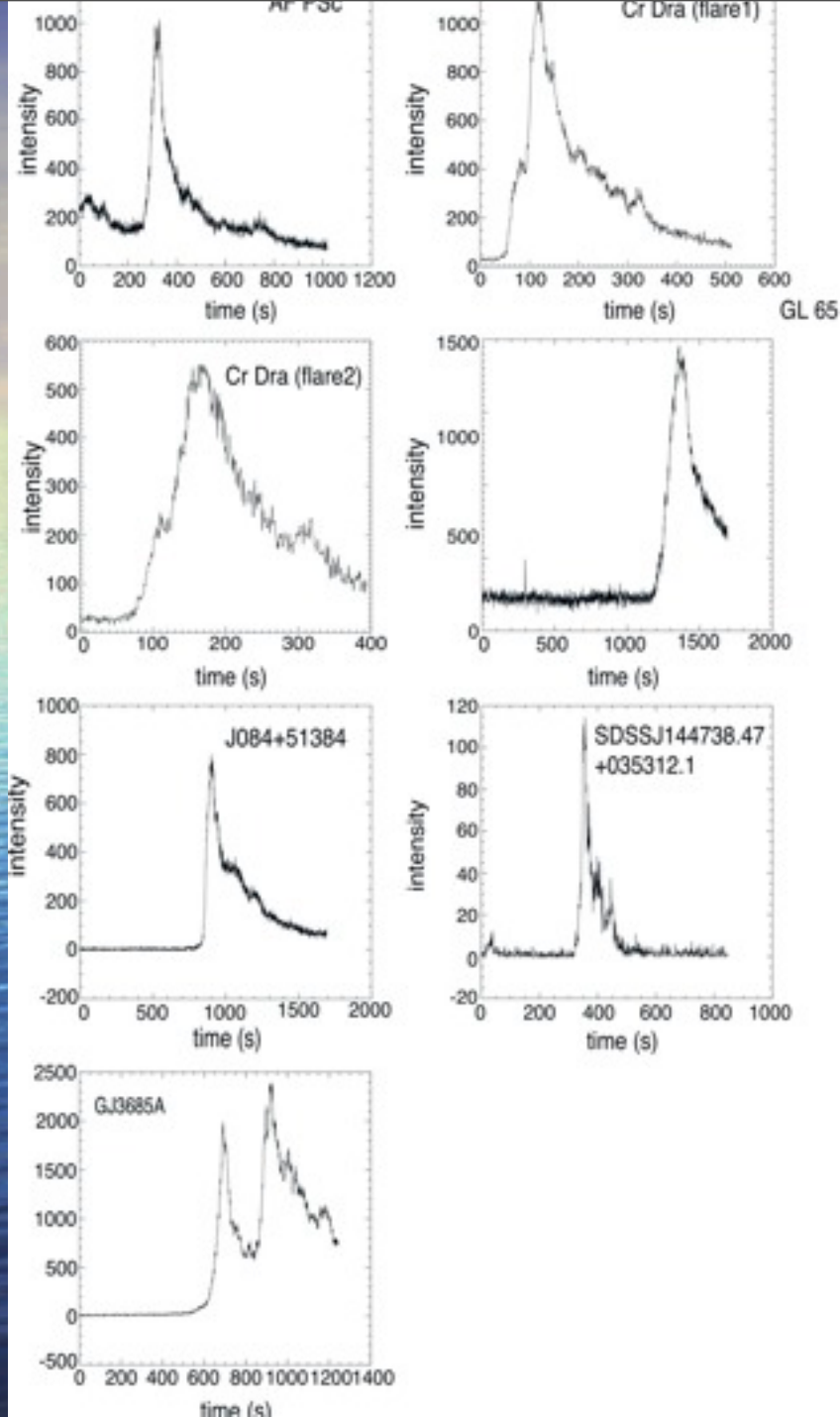
The Galaxy Evolution Explorer was launched on April 28, 2003 and turned off on 28 June 2013. Its mission was to study the shape, brightness, size and distance of galaxies.

it observed in two bands (FUV: 1350-1750 Å and NUV: 1750-2800 Å) .. as a by-product, it also observed many flares from active dMe stars .. flares could be time-tagged to a res. of 0.001 sec

Fold in flare star DEM into CHIANTI



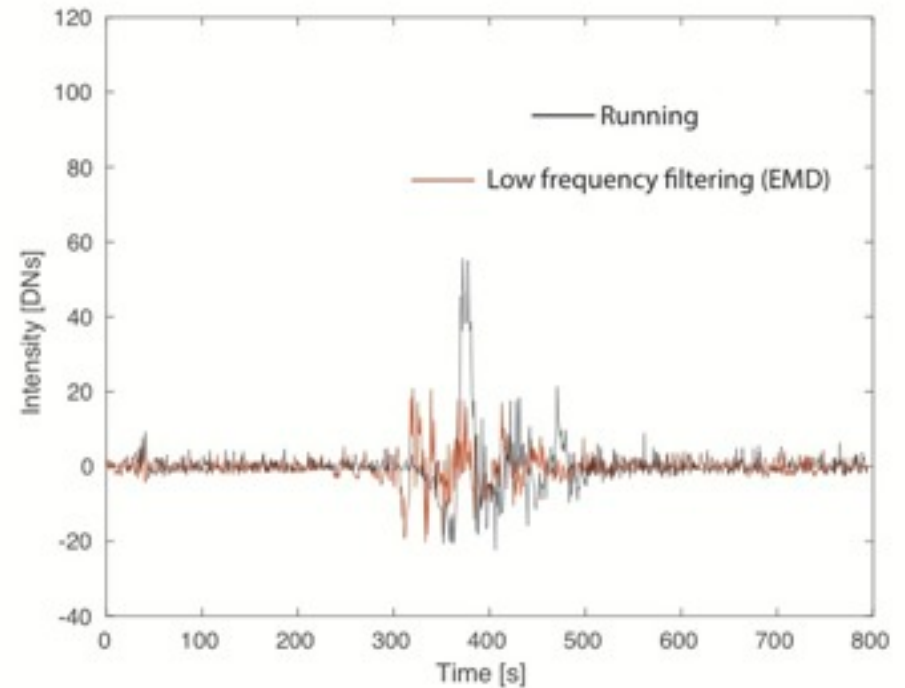
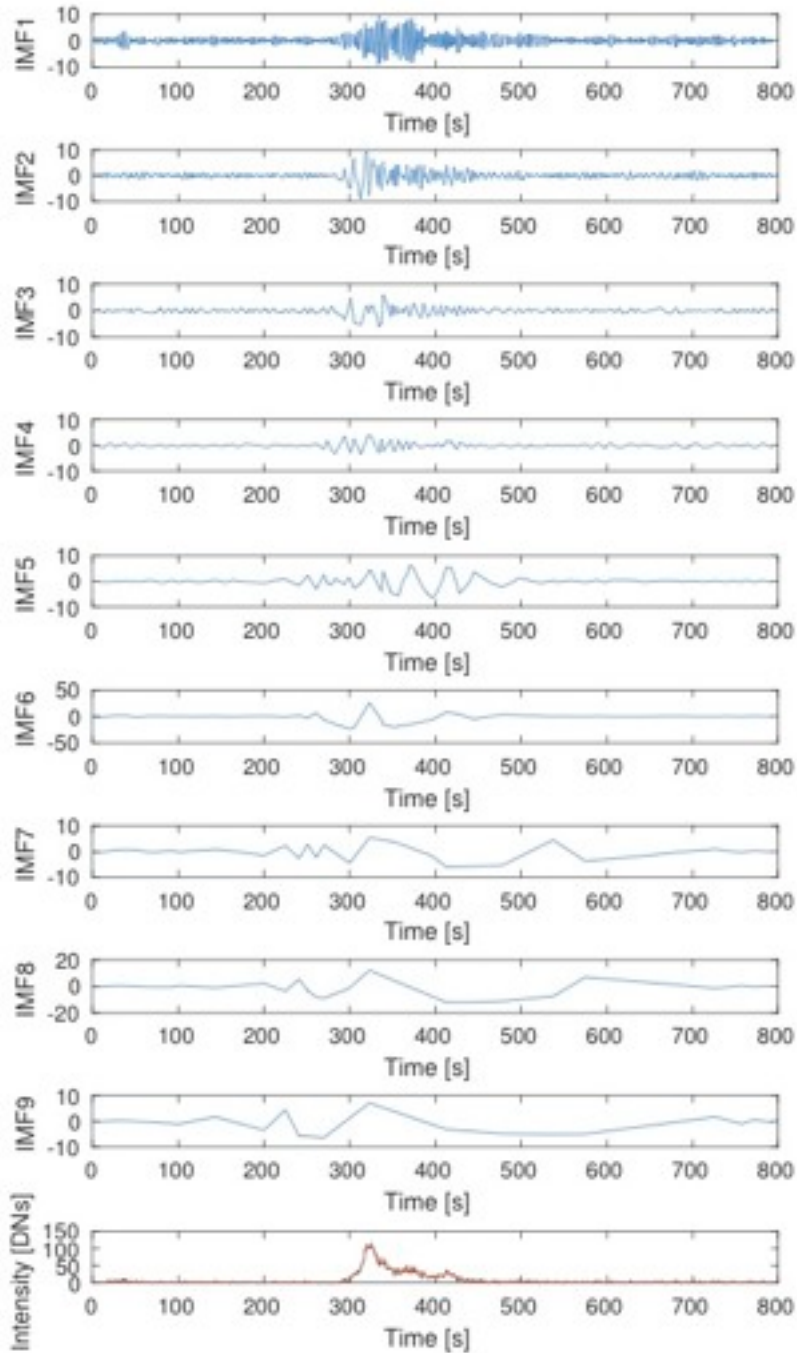
Welsh et al 2006 looked at the line and continuum contribution in the NUV filter, dominant line emitters are Mg II, Fe II, Al III, C III, e.g. Mg II has ~10% .. most NUV flux contribution arises from continuum processes.

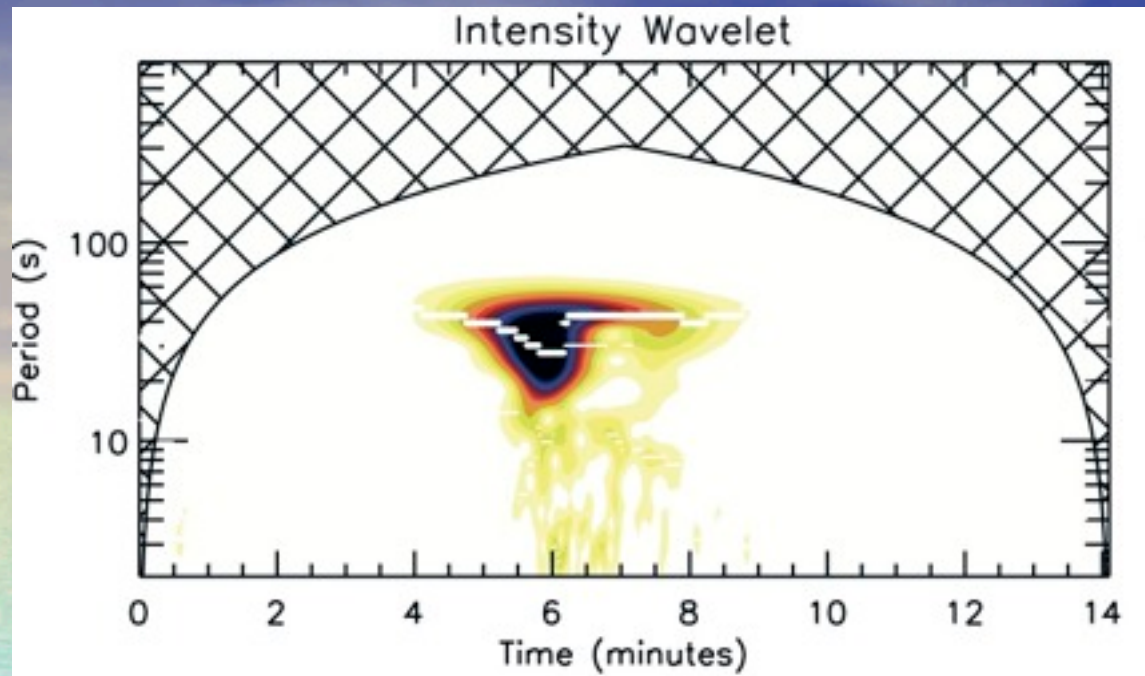


**Over-plot of de-trending via
boxcar average & EMD**

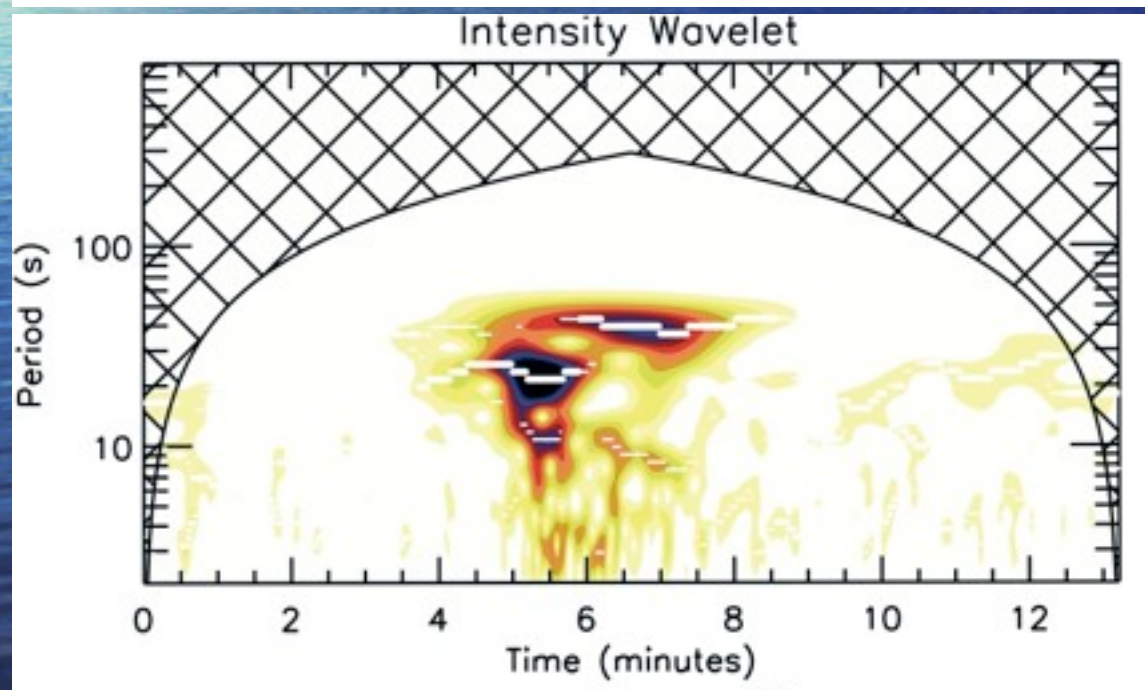
SDSSJ144738.47+035312.1

De-trended data



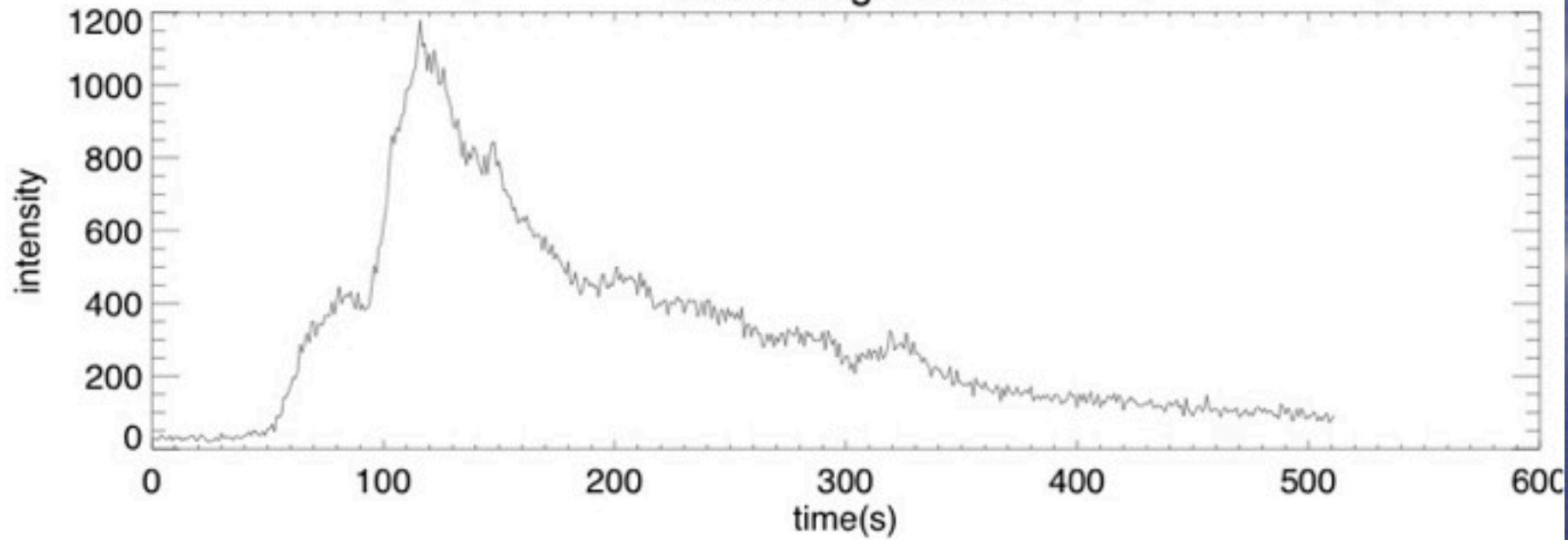


based on boxcar

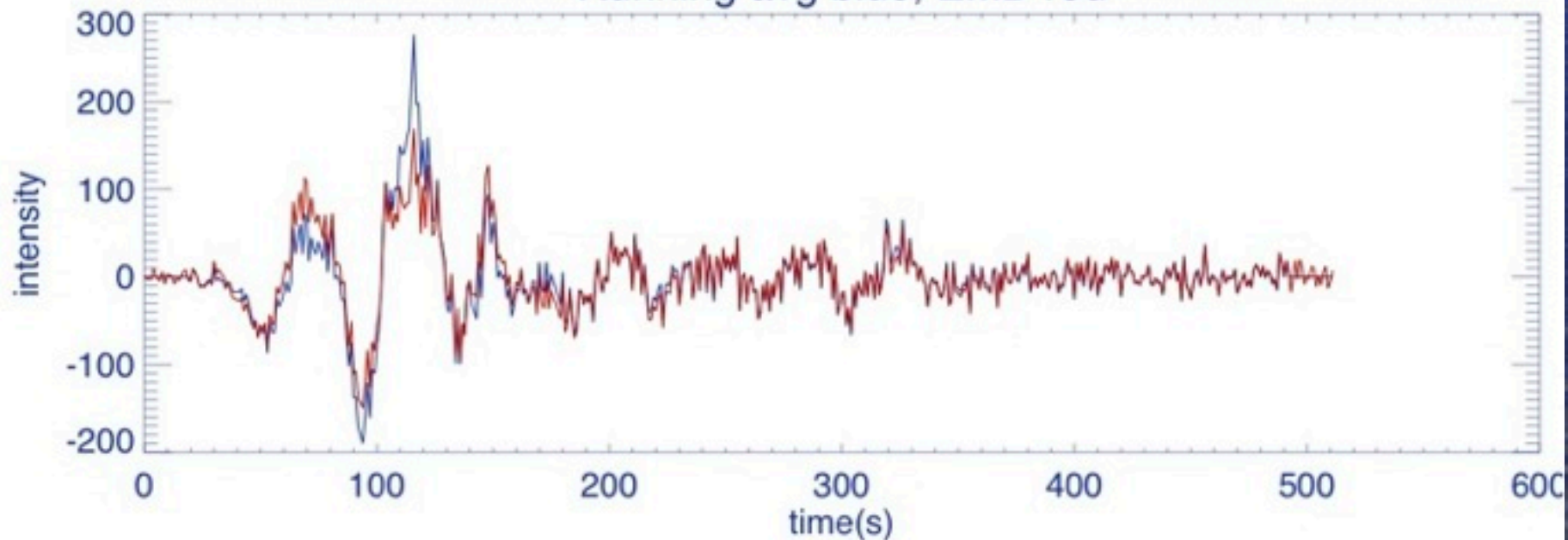


based on EMD

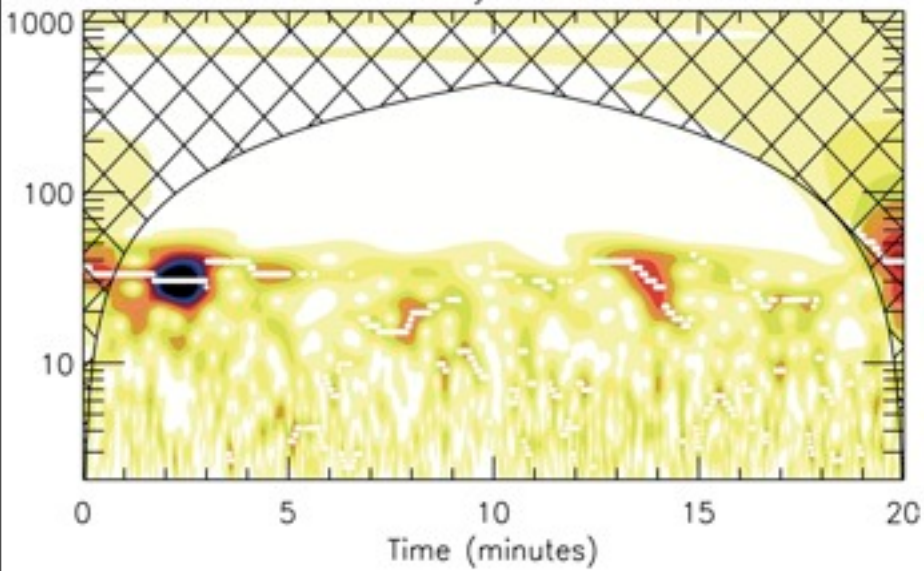
Crdrf2 lightcurve



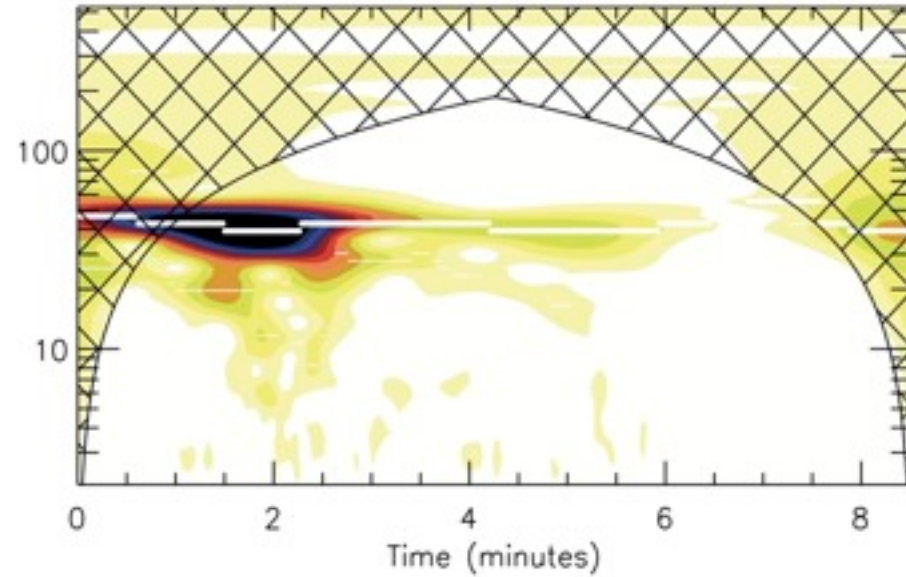
Running avg blue, EMD red



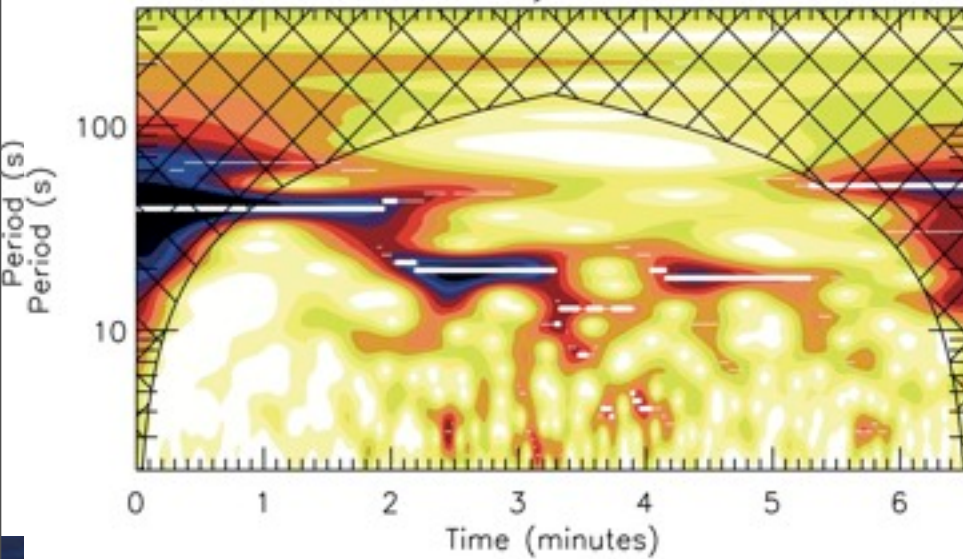
AF PSc
Intensity Wavelet



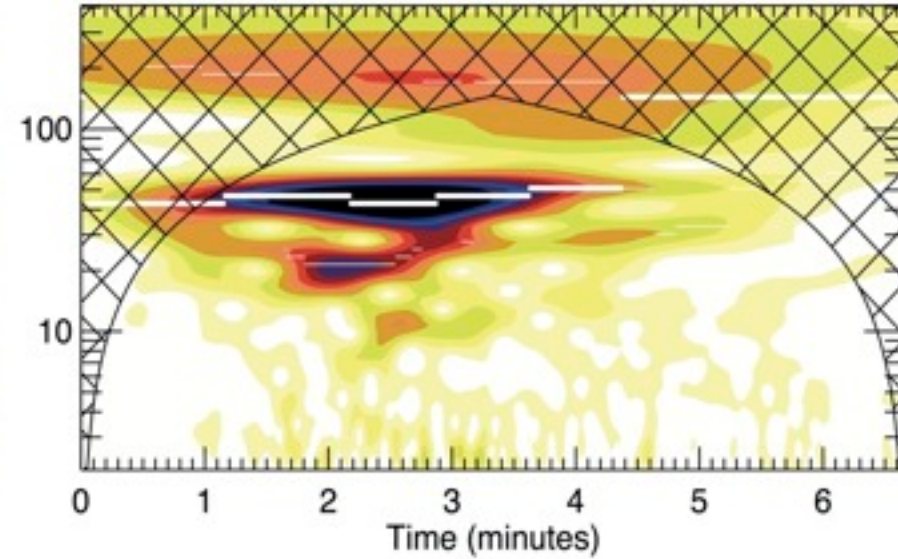
Cr Dra (flare1)
Intensity Wavelet



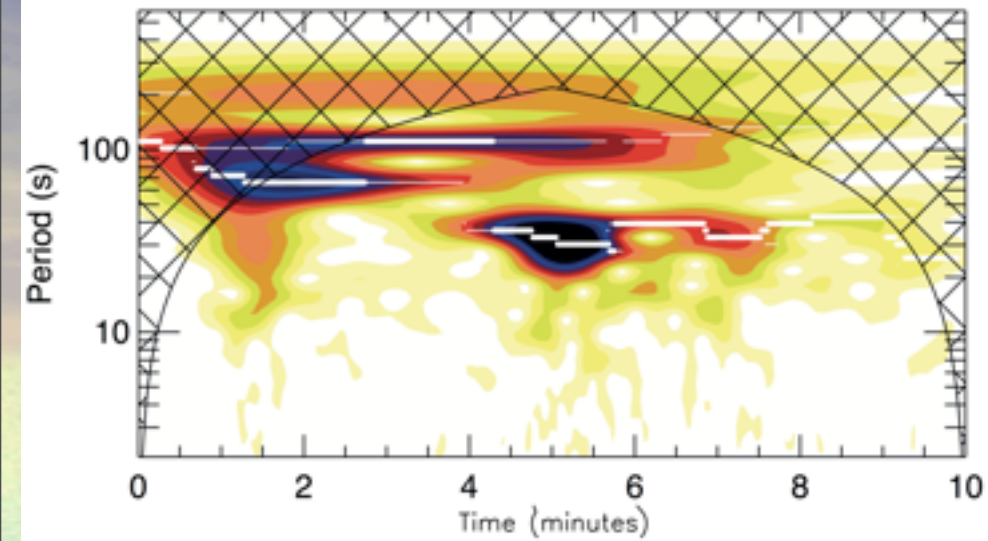
Cr Dra (flare2)
Cr Dra (flare2)
Intensity Wavelet



GL 65
GL 65
Intensity Wavelet

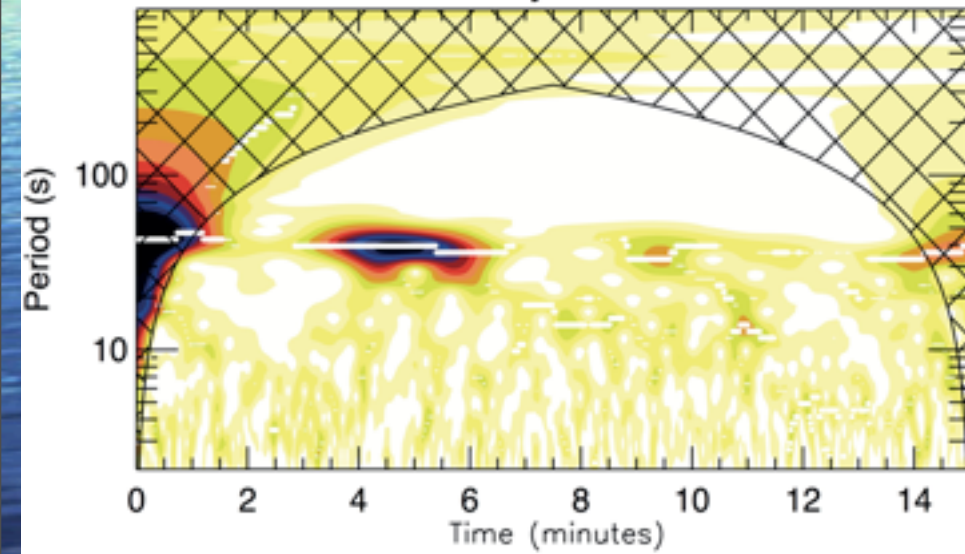


GJ3685A



J0844+5138

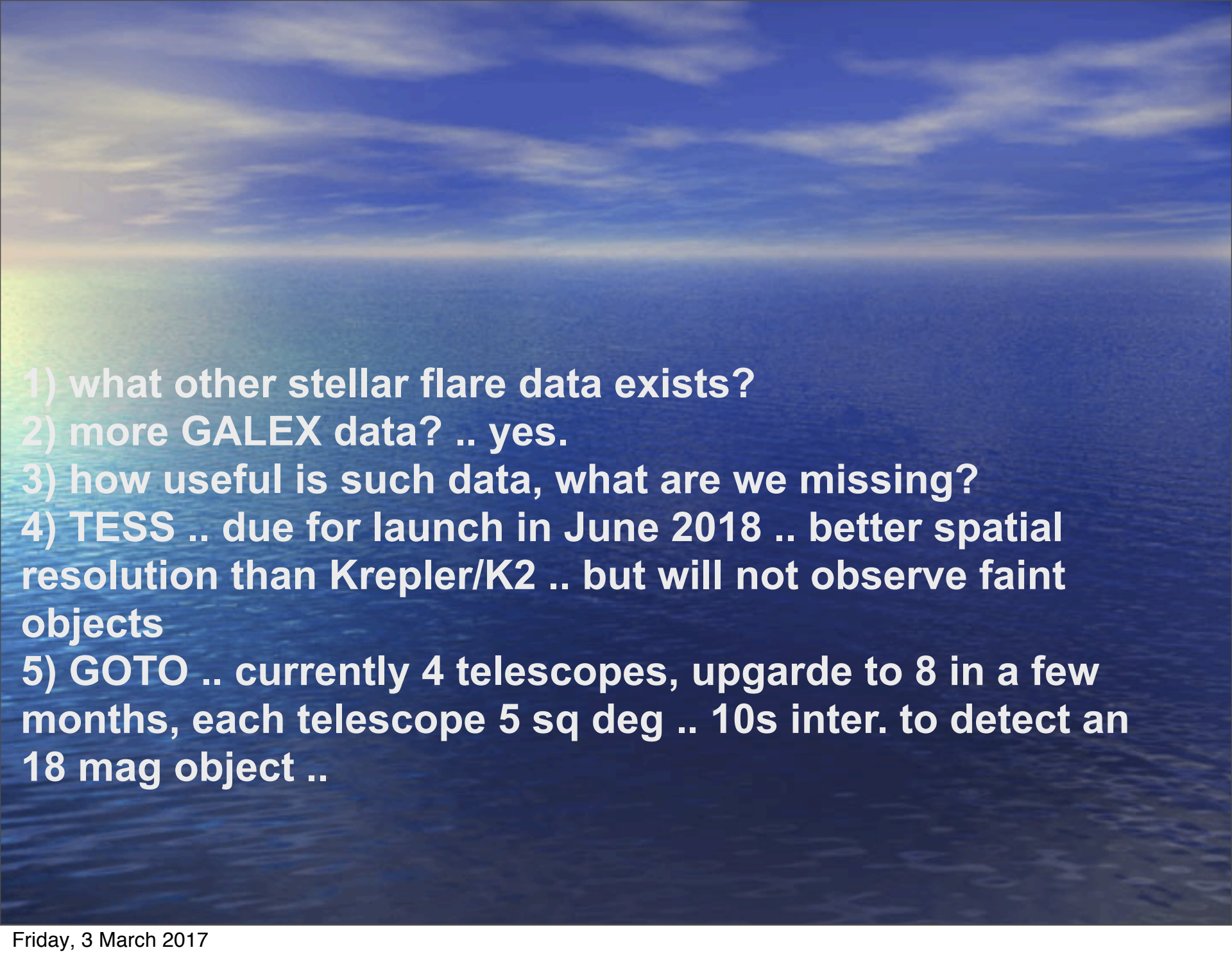
Intensity Wavelet



Flares show oscillations of between 30 & 46s, some show a second oscillation (CR Dra fl 2 & Gl 65) at half this period

AF Psc, CR Dra, Gl 65, GJ 2685A & J0844+5138 show oscillations in the rise phase and flare peak .. could this periodic reconnection

CR Dra fl 2 & SDSSJ144738 show oscillations in the decay phase .. perhaps sausage wave

- 
- 1) what other stellar flare data exists?
 - 2) more GALEX data? .. yes.
 - 3) how useful is such data, what are we missing?
 - 4) TESS .. due for launch in June 2018 .. better spatial resolution than Kepler/K2 .. but will not observe faint objects
 - 5) GOTO .. currently 4 telescopes, upgrade to 8 in a few months, each telescope 5 sq deg .. 10s inter. to detect an 18 mag object ..

The End!

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