CS1 Noise

Casey Law

CS1 Status Meeting -- 4 April 2007

Goal: Measure noise as a function of frequency in CS1.
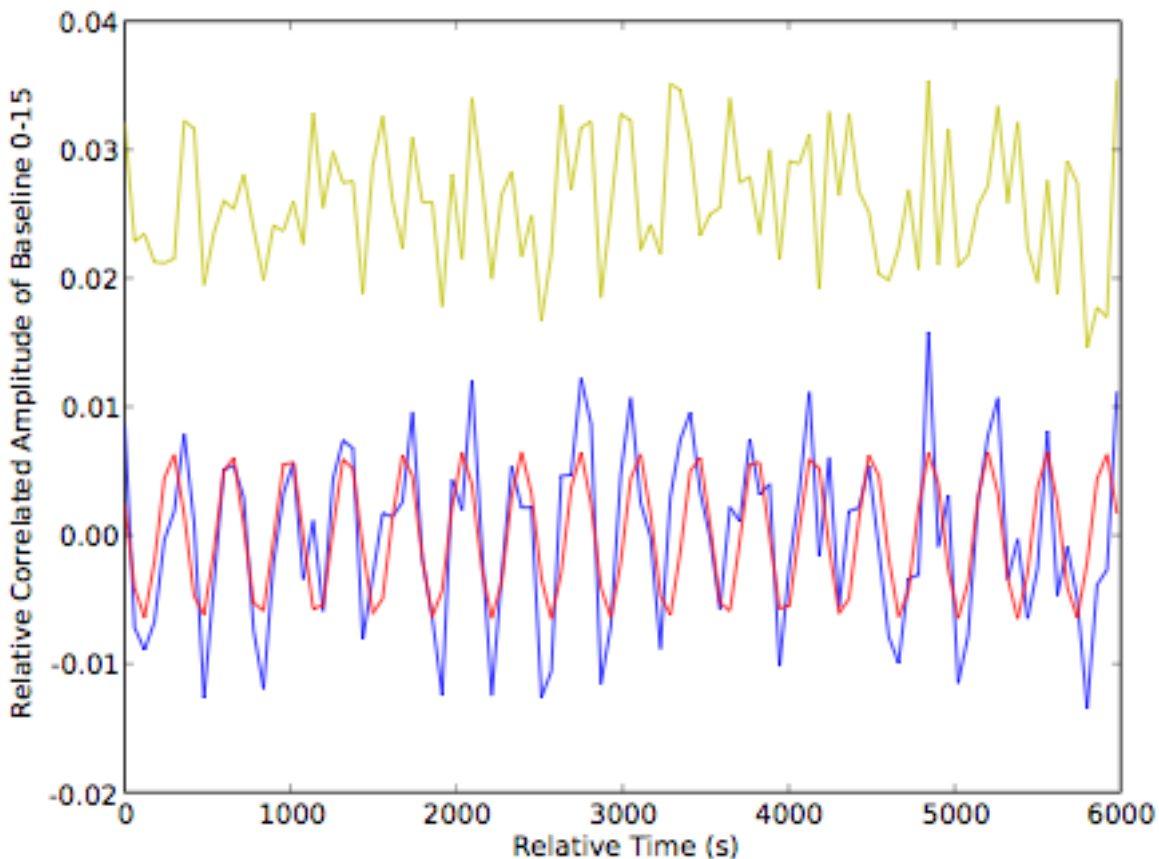
Method: Fringe fitting using Python.

In this plot:
  Blue shows amplitude
  Red shows model
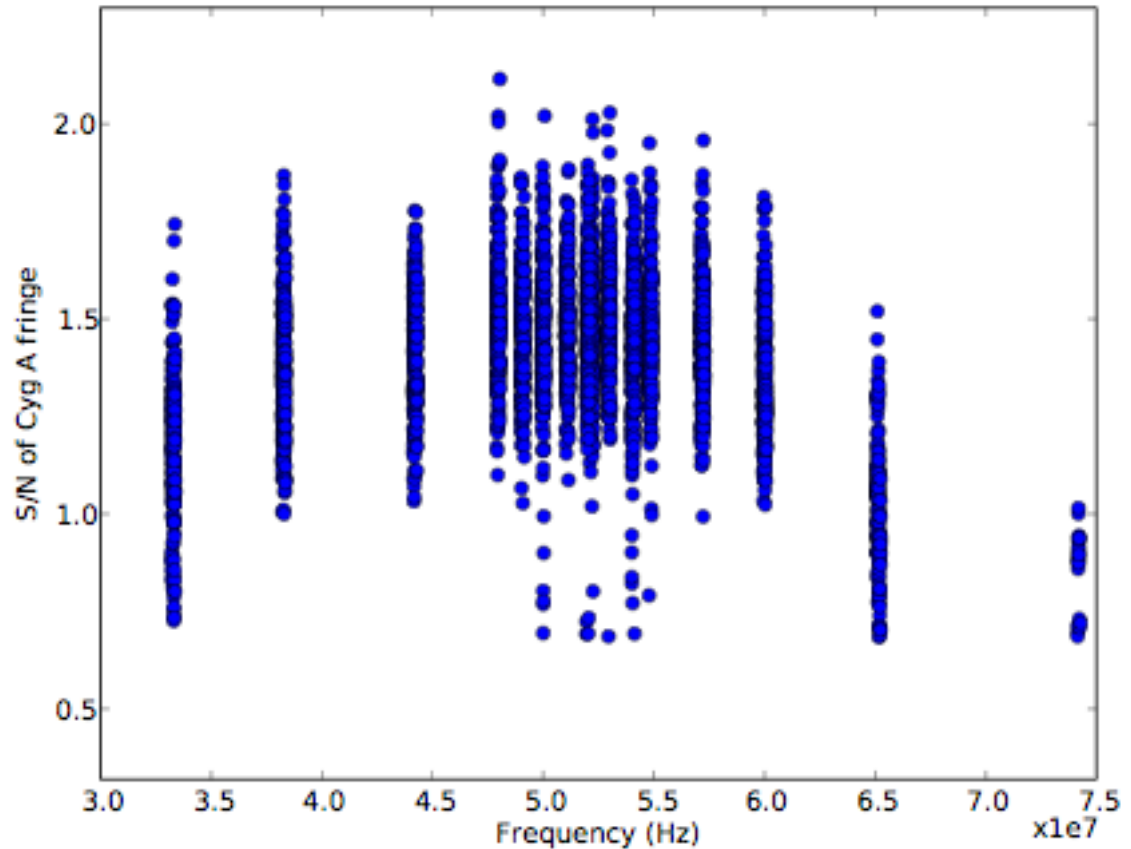 Yellow shows difference

Observation #1065:
  - DTP on Cas A
  - fringe from Cyg A visible

Fit fringe and get S/N for
each 0.6 kHz channel.

This value is noise relative to
flux of Cyg A.

Assume S_{CygA} = 6000 Jy

for Noise = $S_{CygA}/(S/N)$ →

Consistent with:
SEFD ~ 10^6 Jy