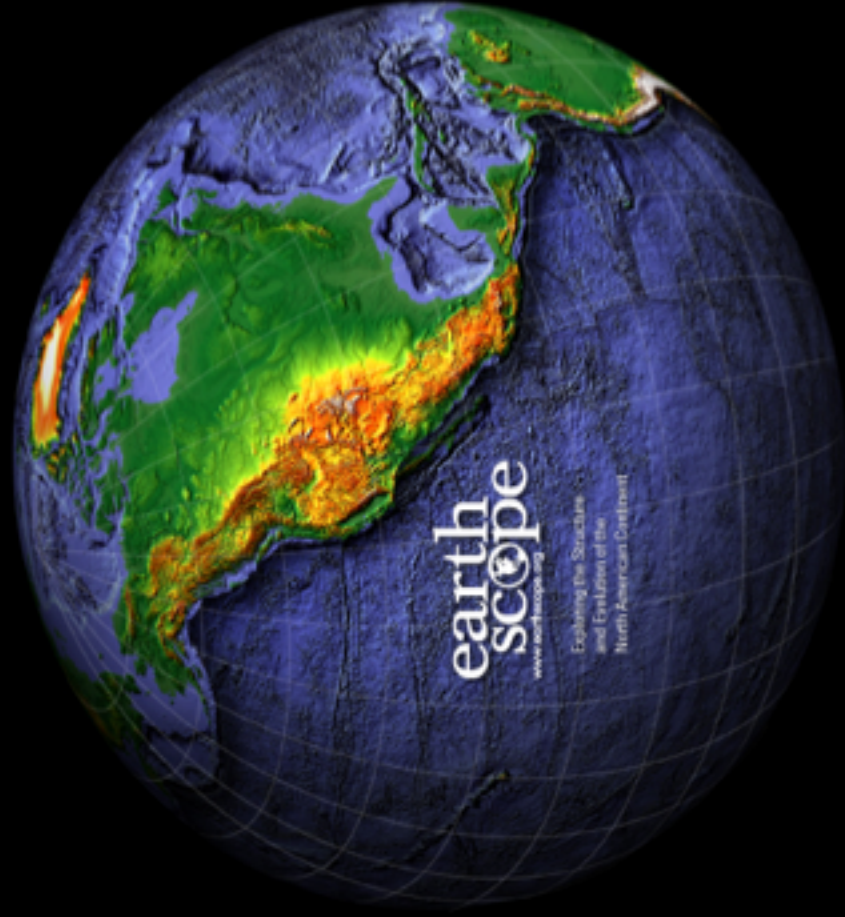


TA Calibrations

Frank Vernon

*IRIS TIC
Palm Springs*

12 April 2016



Calibration

- [illegible]

are [-own about] [-em] [-y pheme] [-olper colper]
 [-rep dir rep_din] [-rep dlie rep_dlie]
 [-rep dlie rep_dlie] [-rep dlie rep_dlie]
 [-disclawf other exp] [-angen saugen] [-source no] [-v]
 [-error at colper] [-exemplar name] [-discomp dcomp]
 [-noise treat_noise] [-type (ratio [power] [coherence])]]
 dlie frequency is [-source and char_cnum]]

☒ Response Curves



Metadata:

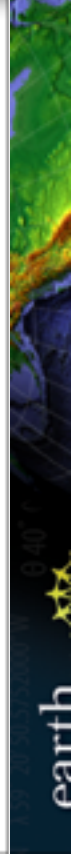
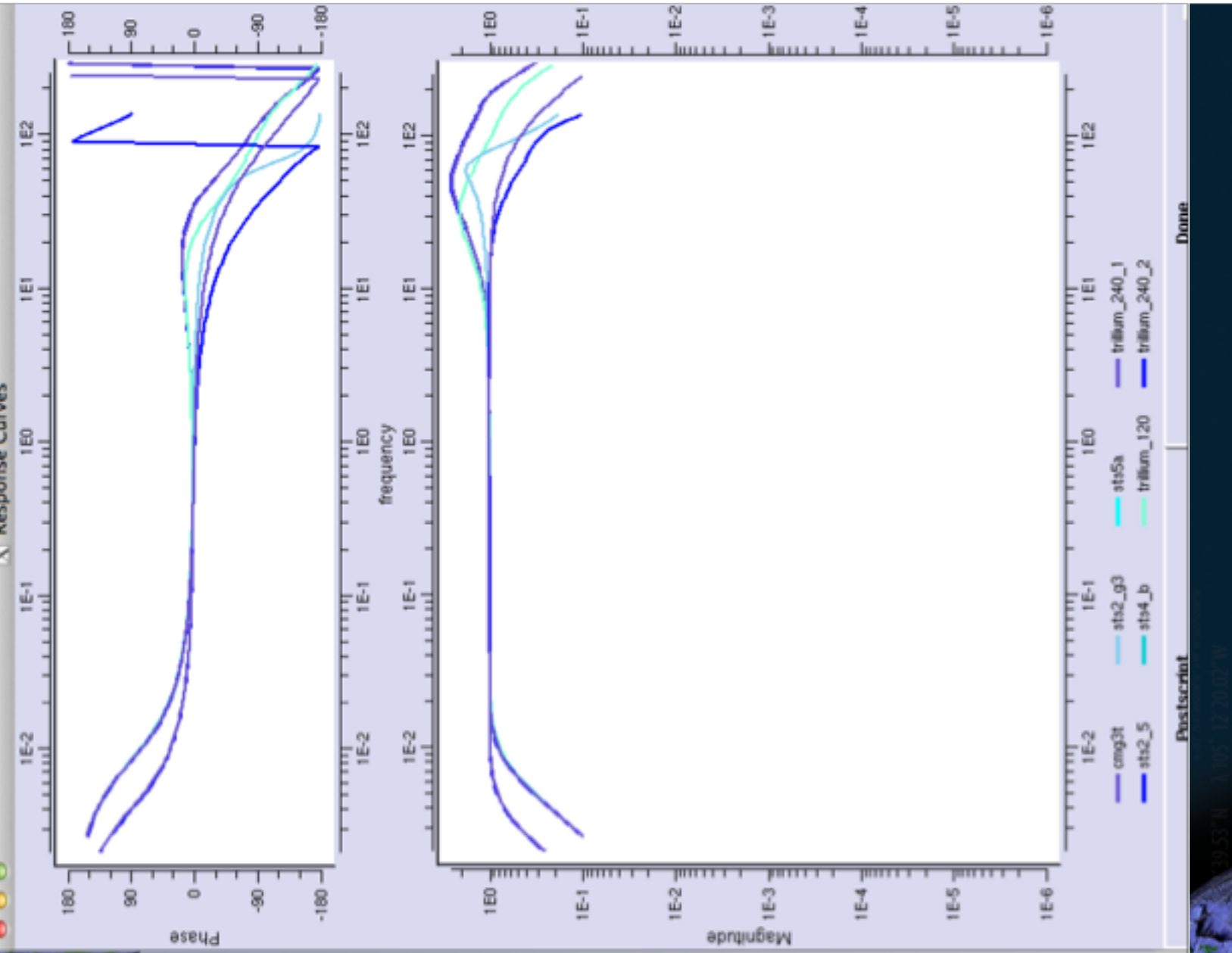
Instrument responses

STS-2

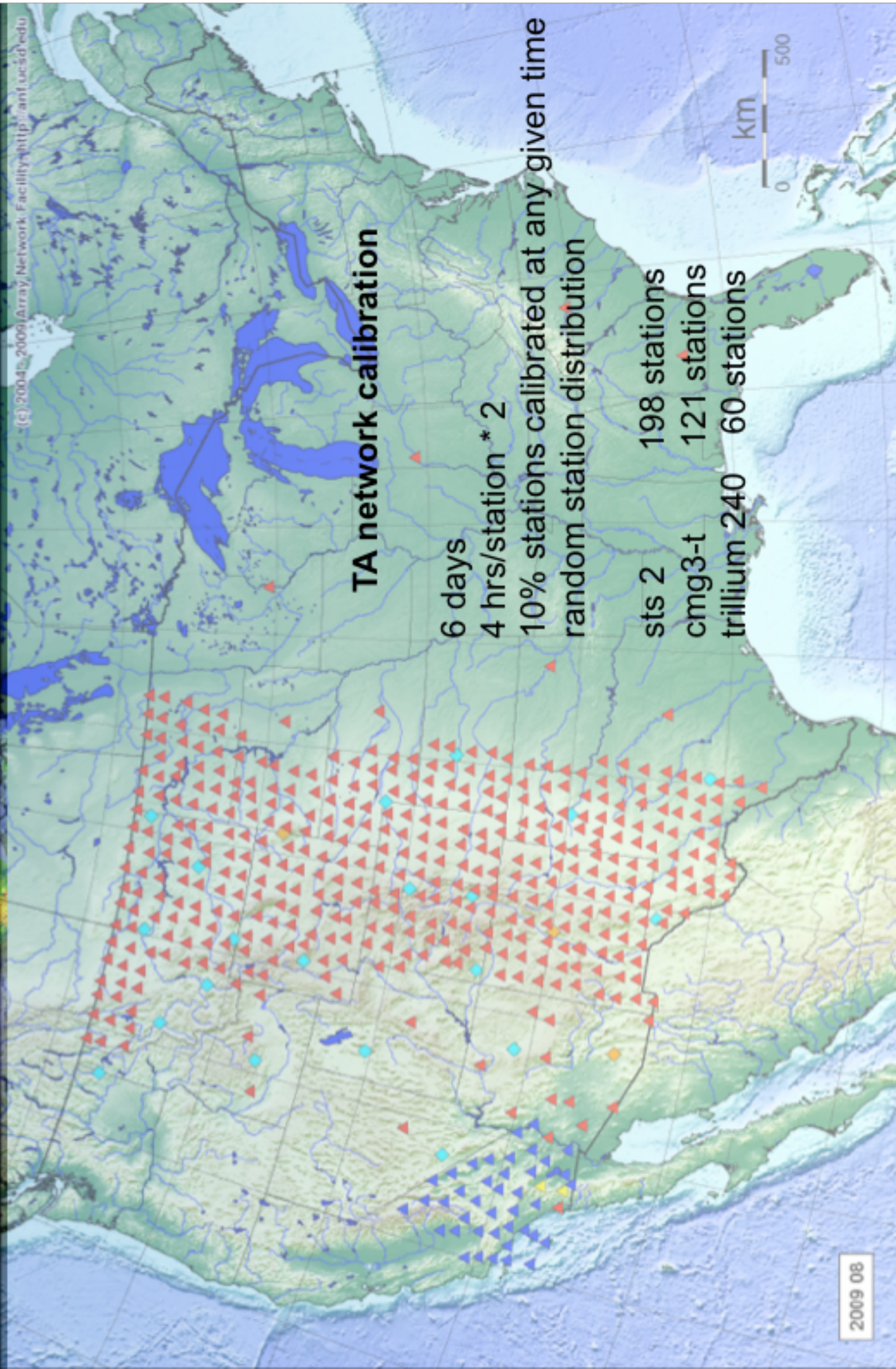
3 Generations

TA Sensors

8 Types

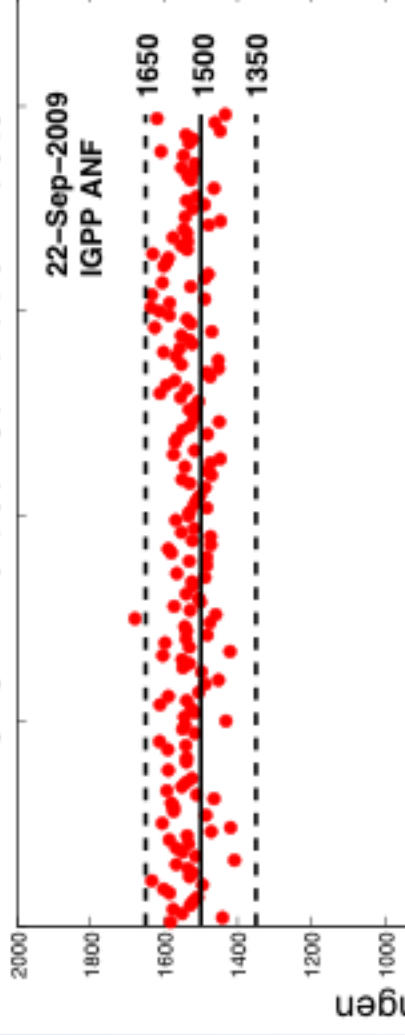


- Calibration
 - White noise signal
 - Q330 generated - input and output recorded
 - Same amplitude for each sensor type
 - Variations in gnom reflect variations in calibration circuits
 - Spectral division
 - 1.5 to 4 hour calibrations
 - 0.001 - 20 hz (standard calibration at 40 sps)
 - 0.001 - 100 hz (high freq test calibration at 200 sps)
- All current TA stations are calibrated

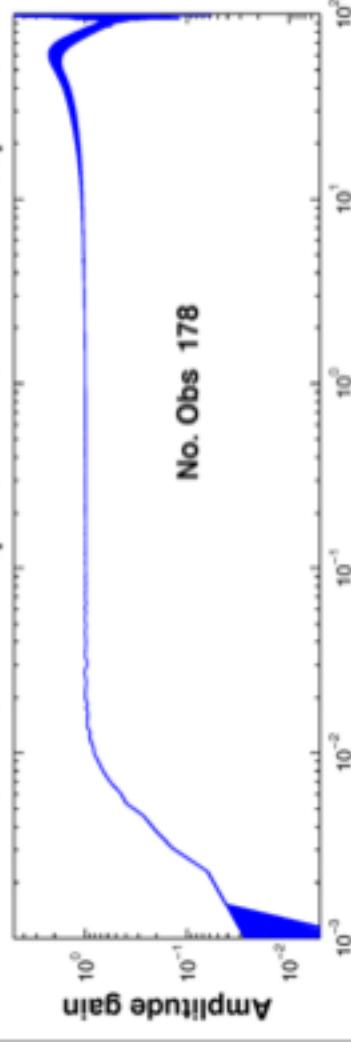


Combined results from August 2009 TA 200 sps Calibrations

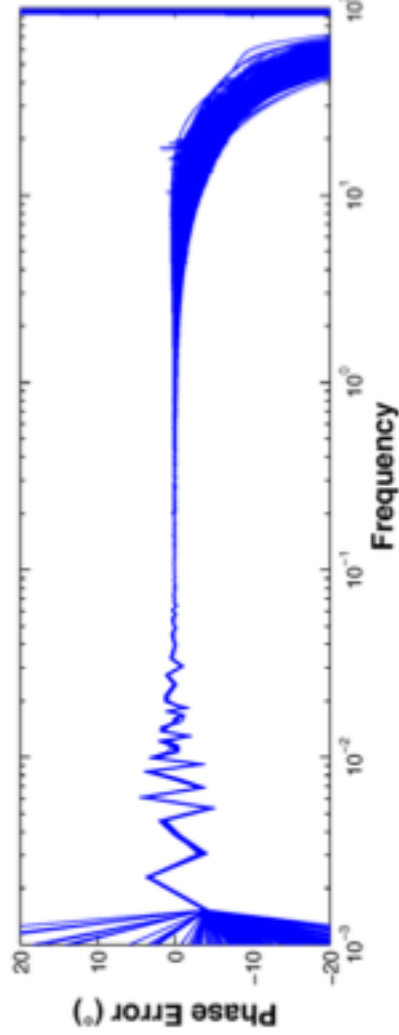
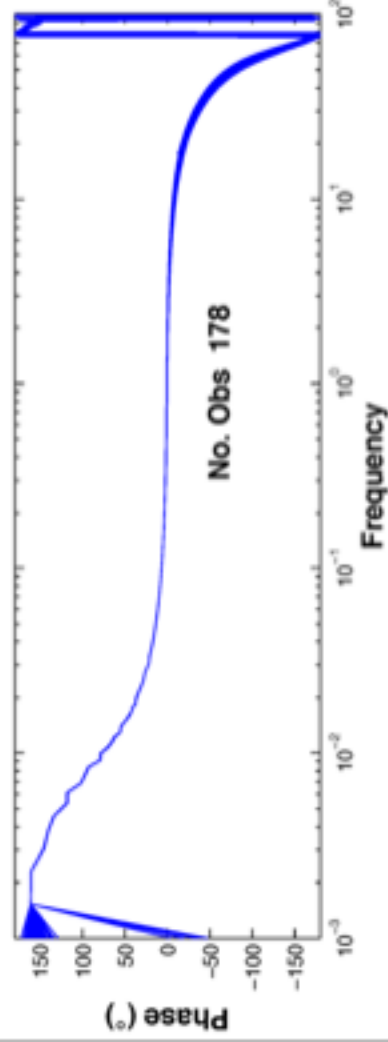
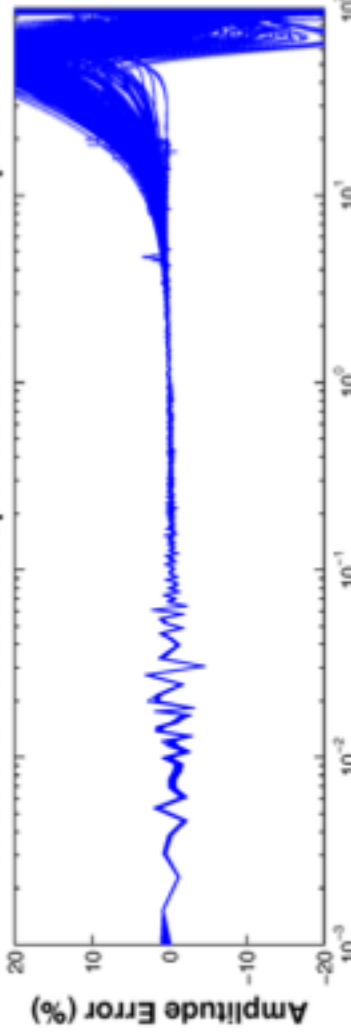
TA STS-2 Vertical Calibration Factor



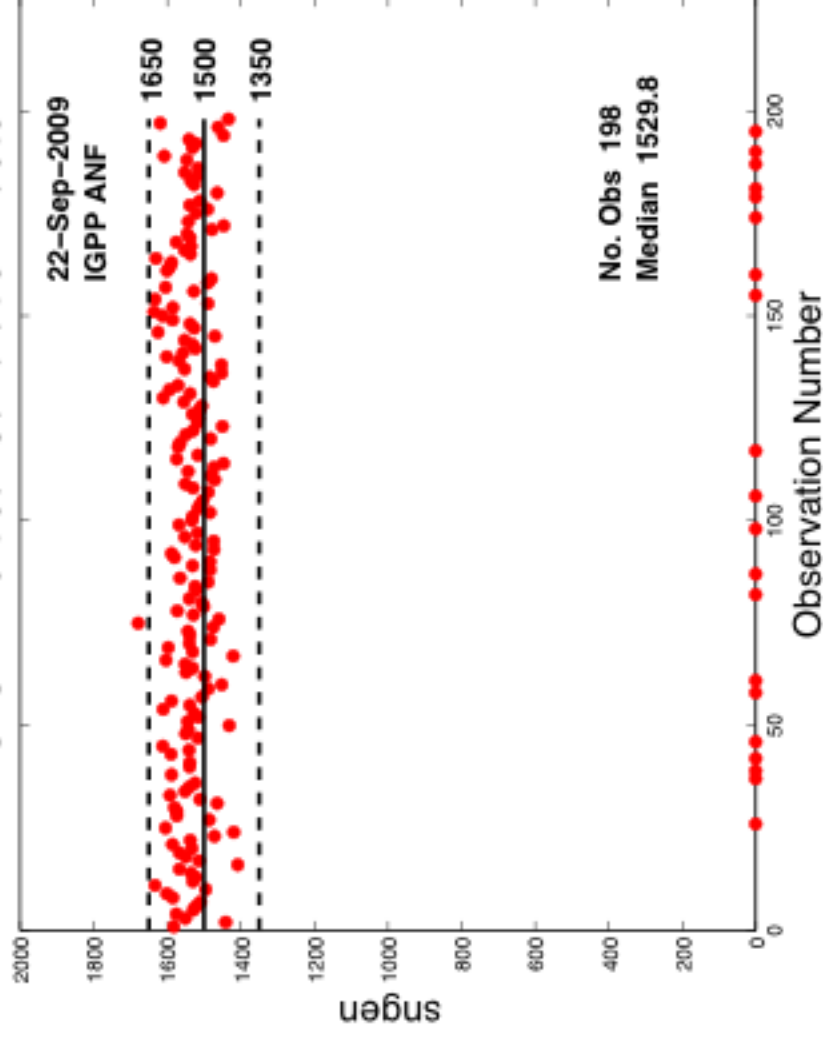
TA STS-2 Vertical Response Functions 22-Sep-2009



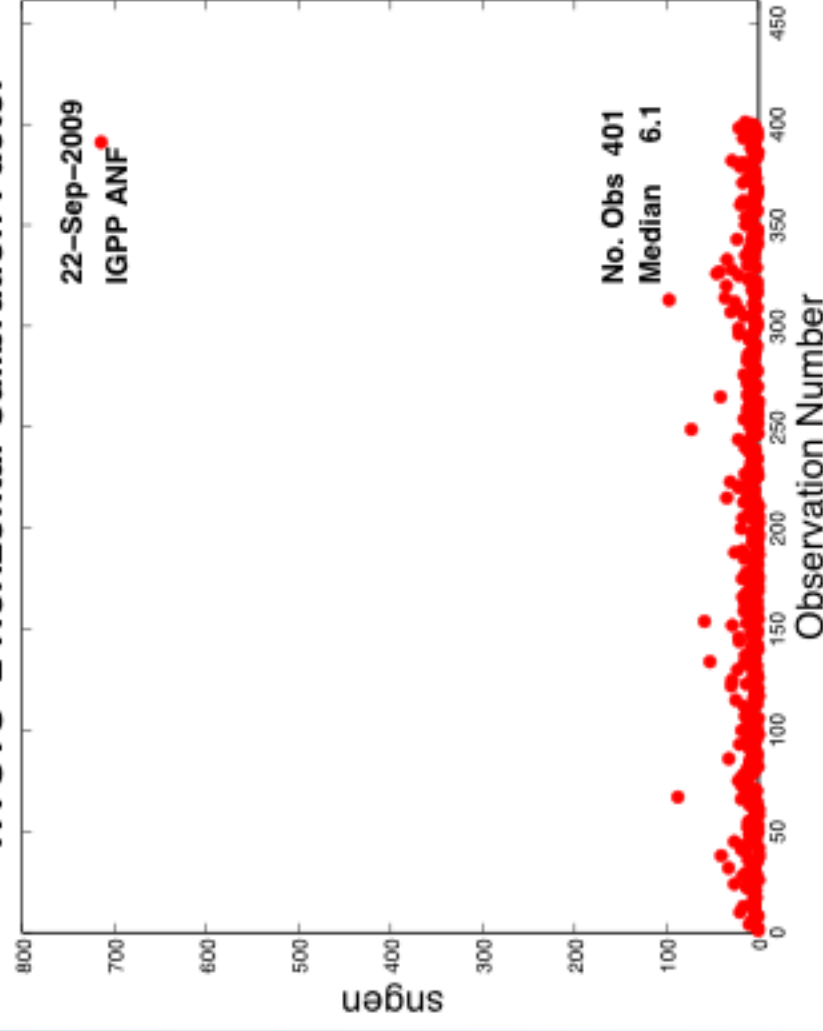
TA STS-2 Vertical Response Errors 22-Sep-2009



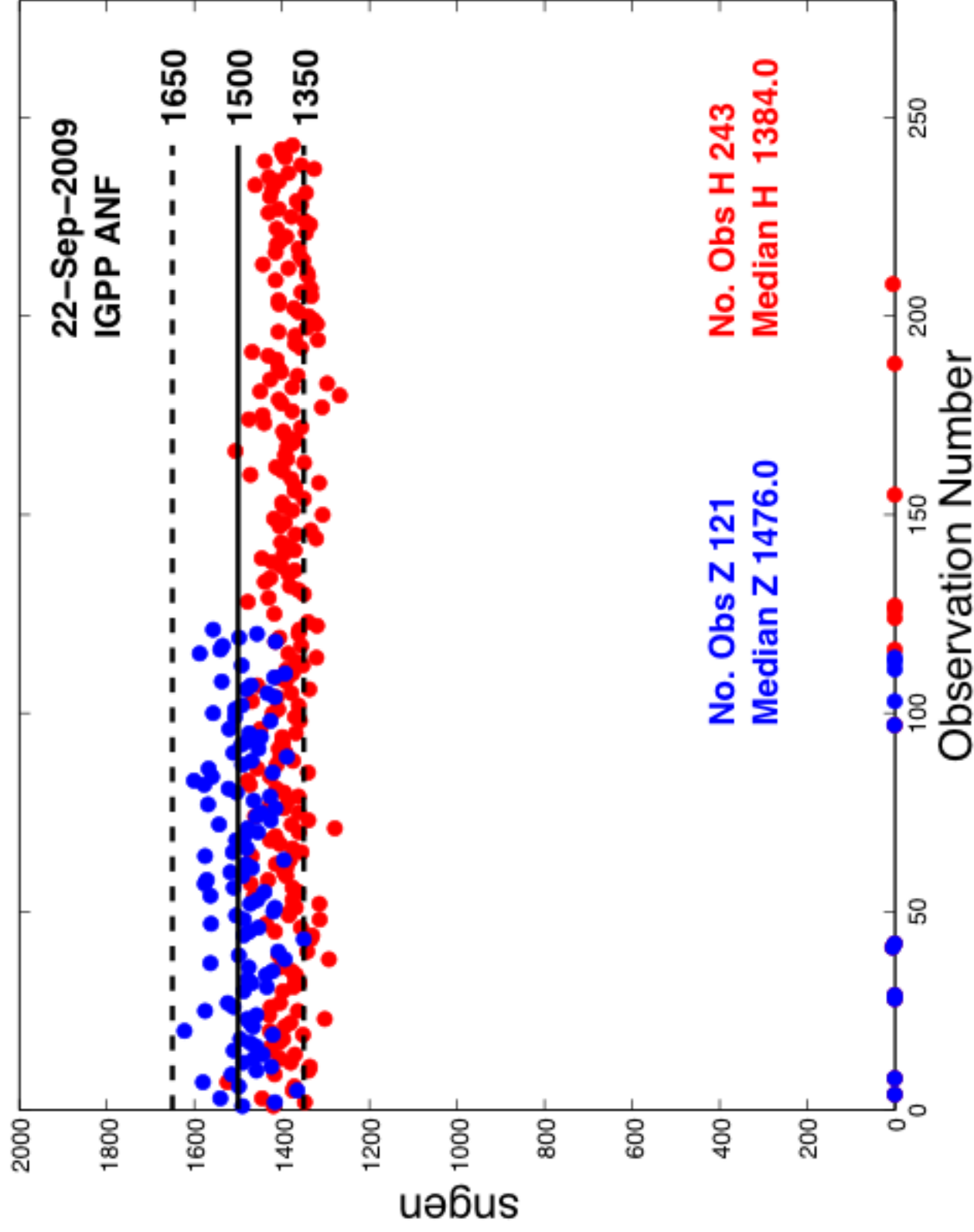
TA STS-2 Vertical Calibration Factor



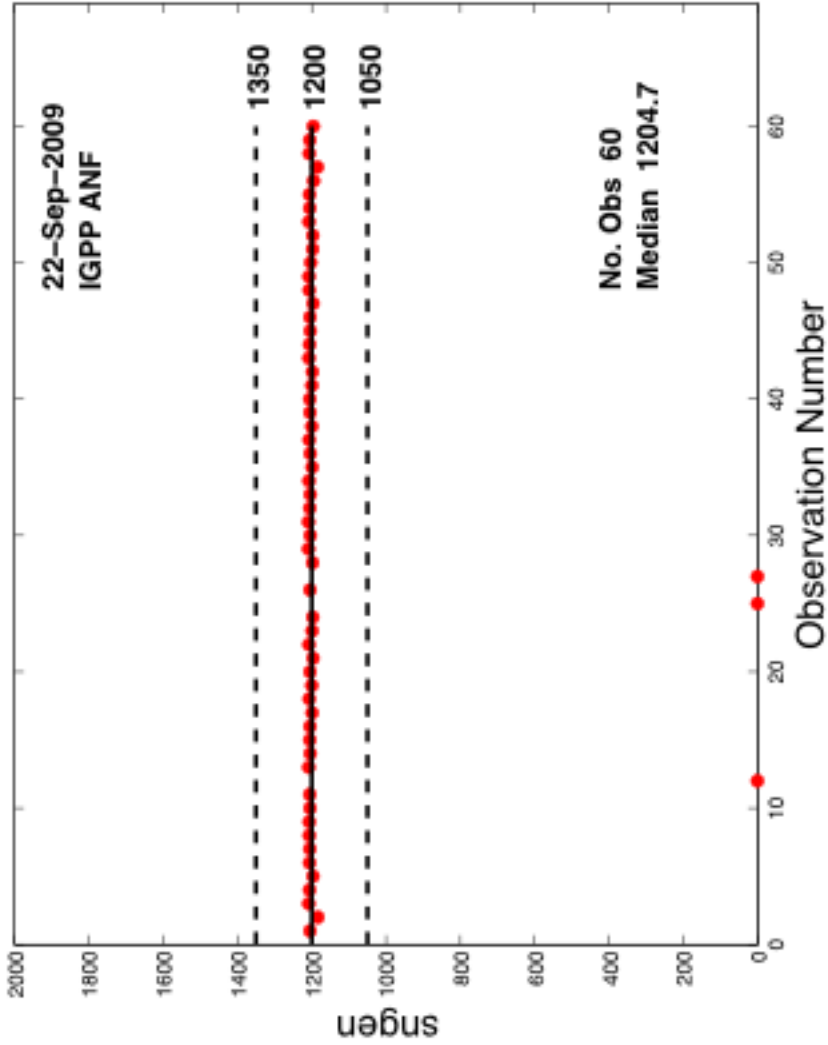
TA STS-2 Horizontal Calibration Factor



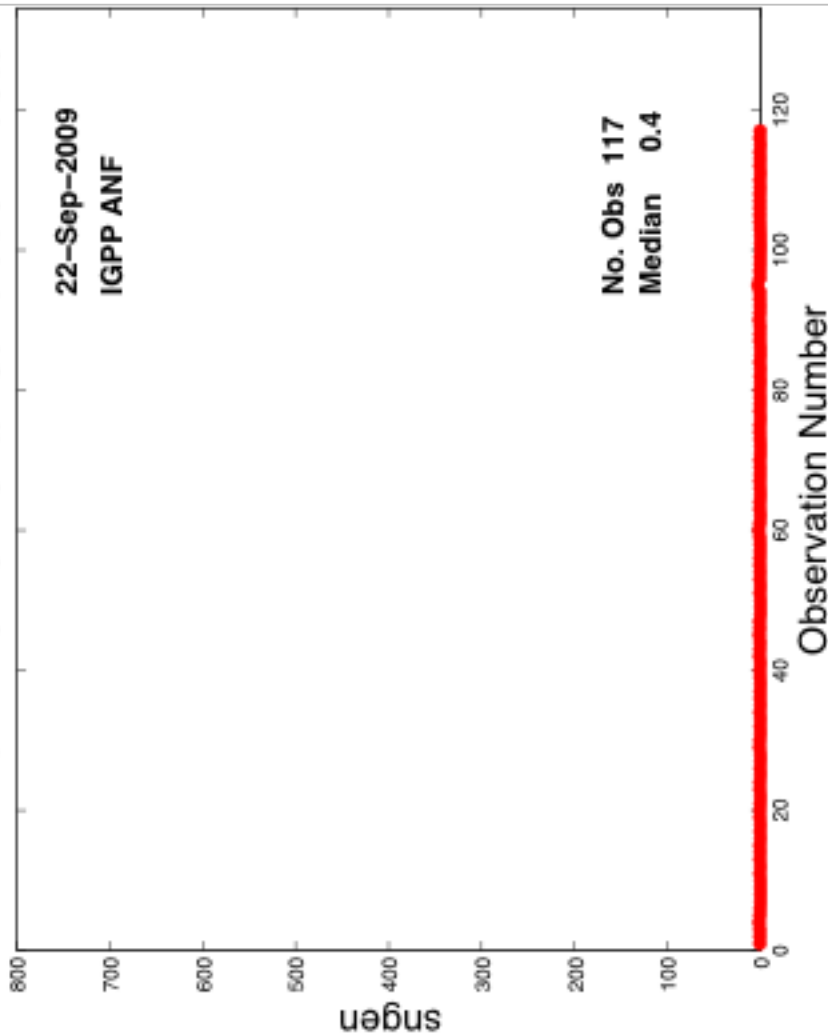
TA CMG3-T All Calibration Factors



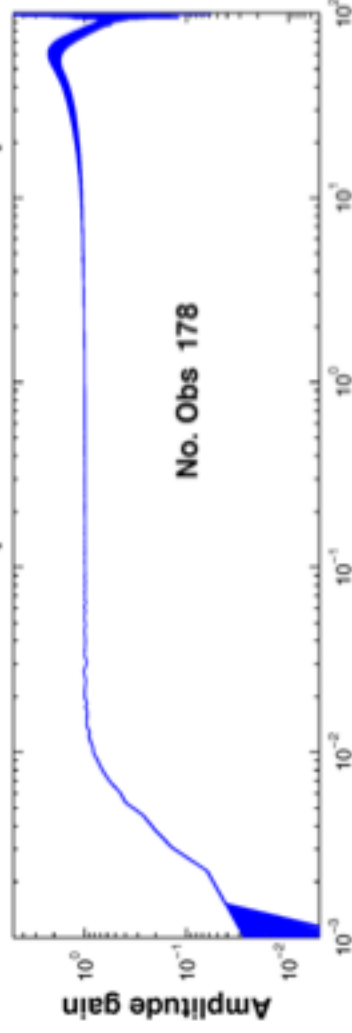
TA Trillium 240 Vertical Calibration Factor



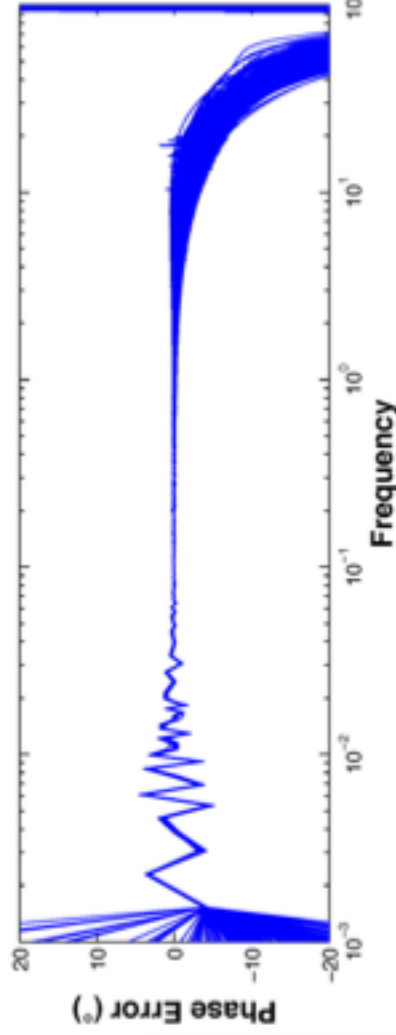
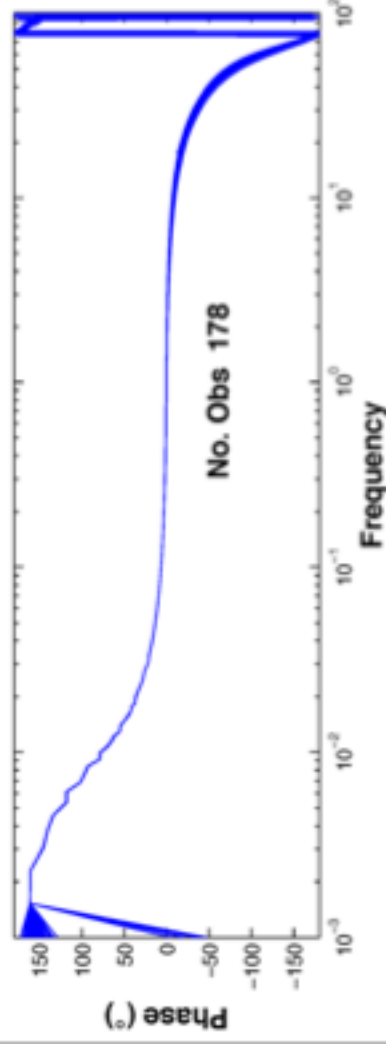
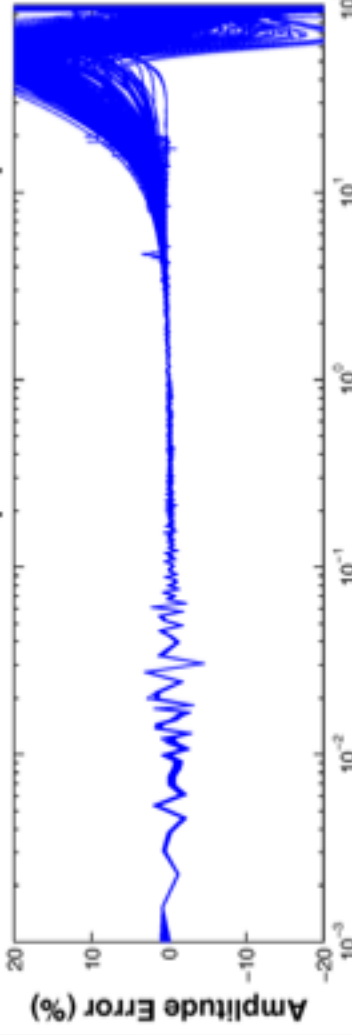
TA Trillium 240 Horizontal Calibration Factor



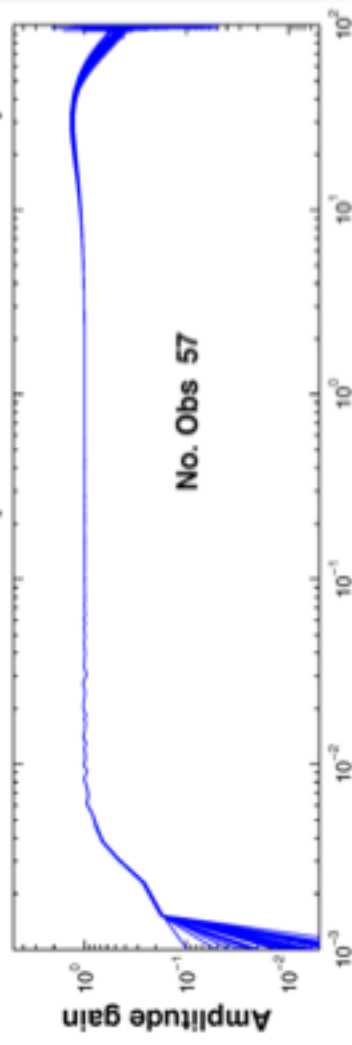
TA STS-2 Vertical Response Functions 22-Sep-2009



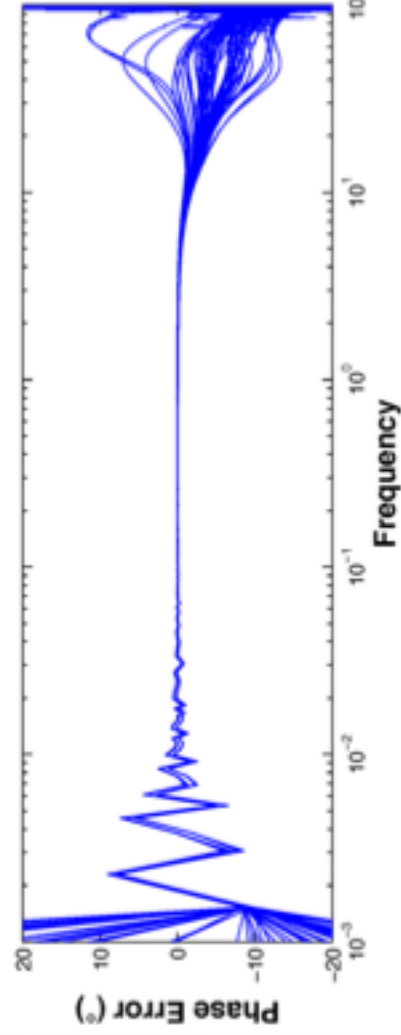
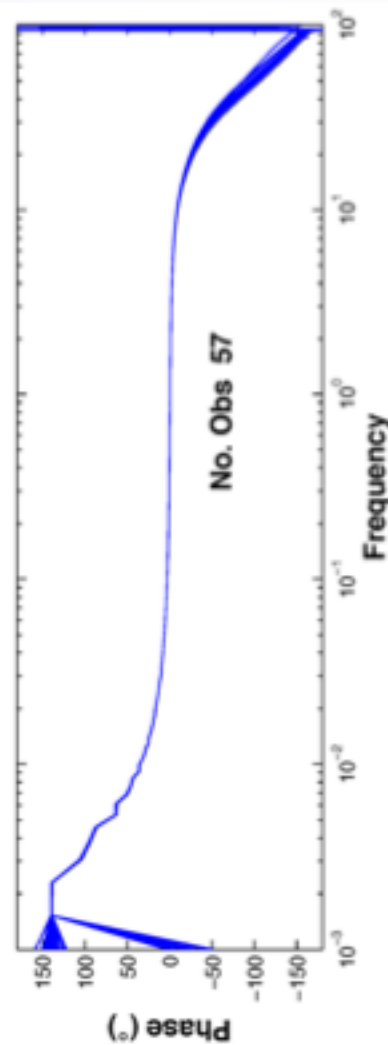
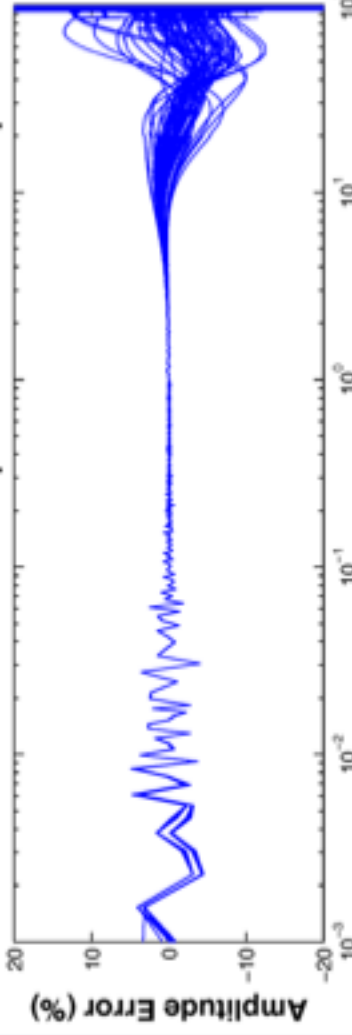
TA STS-2 Vertical Response Errors 22-Sep-2009



TA Trillium 240 Vertical Response Functions 22-Sep-2009

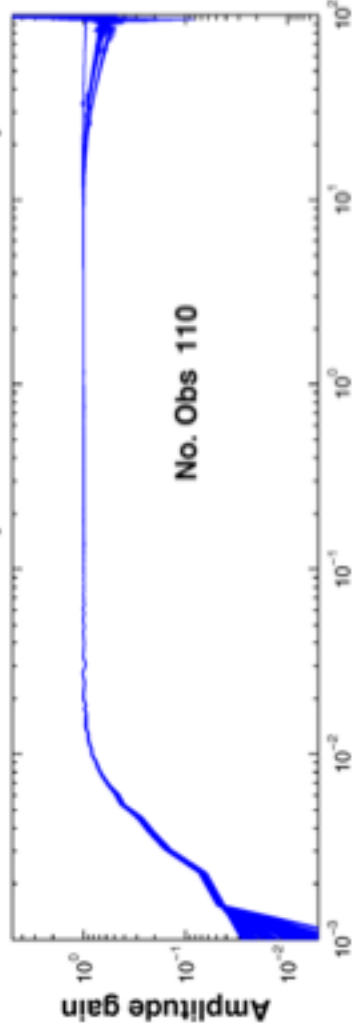


TA Trillium 240 Vertical Response Errors 22-Sep-2009

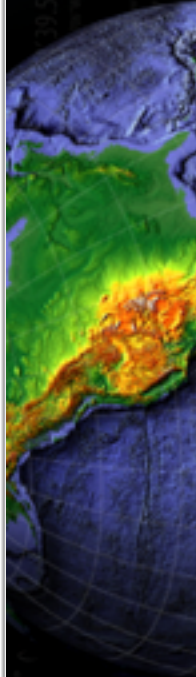
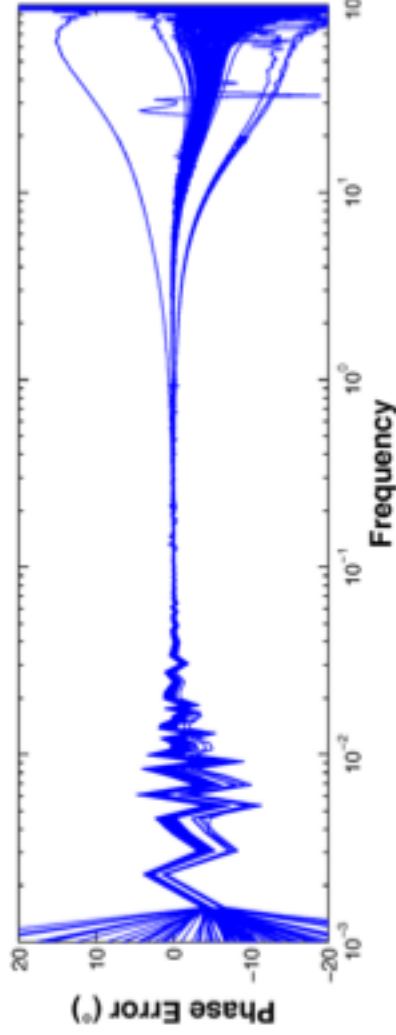
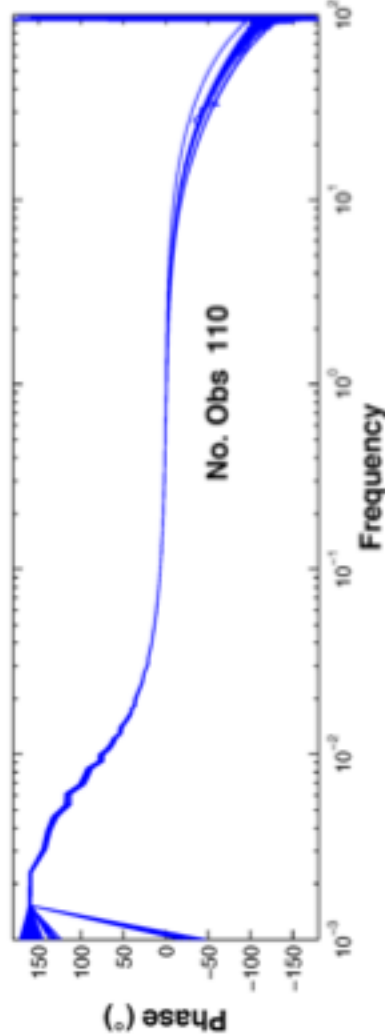
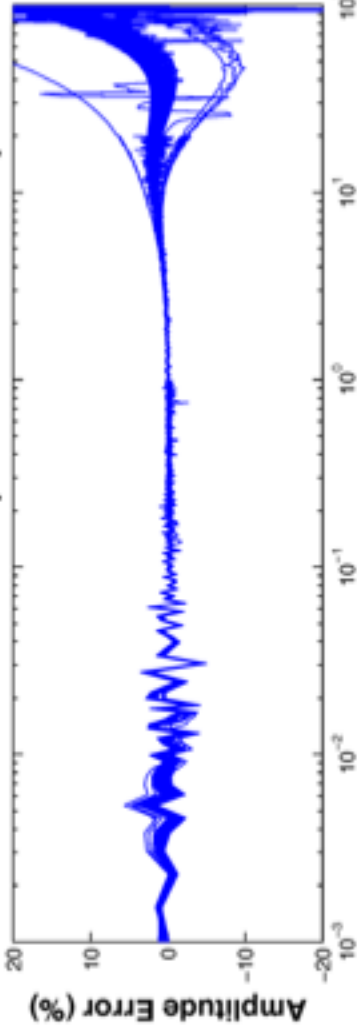


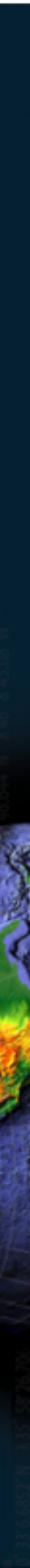


TA CMG3-T Vertical Response Functions 22-Sep-2009



TA CMG3-T Vertical Response Errors 22-Sep-2009



- 
- All seismometer types performed well
 - Can isolate anomalous stations
 - Most problems appear to be in sensor calibration circuits