



Degradation/trend sources:

- Along optical path through instrument:
 - ✓ (Diffuser: irradiance)
 - ✓ Folding mirror
 - ✓ Spectrometer
- Straylight (partially corrected)
 Solar variability (not corrected for)

Question: Is radiance channel stable? Method:

- > Pure L1 radiance (monitor data)
- > Take one swath angle (detector row)
- Look in small homogeneous area (2°x2°)
- Region 15x5 "ensemble" over land (Sahara) and sea (Pacific)
- > "Cloud" filter: take lower 75%



Trend as function of wavelength

Median trend of ensemble of 75 pixels per region
When filtered for low values, no clear signal
Unfiltered trends do not seem to be random

Conclusion



- UV 280 nm straylight issue
- Sahara: no (significant) trends for ensemble of pixels
- Pacific: apparent trend with longer wavelength
- Analysis does not seem to indicate overcorrection by current degradation calibration key data
- High radiance values seem to constitute non-random trends

