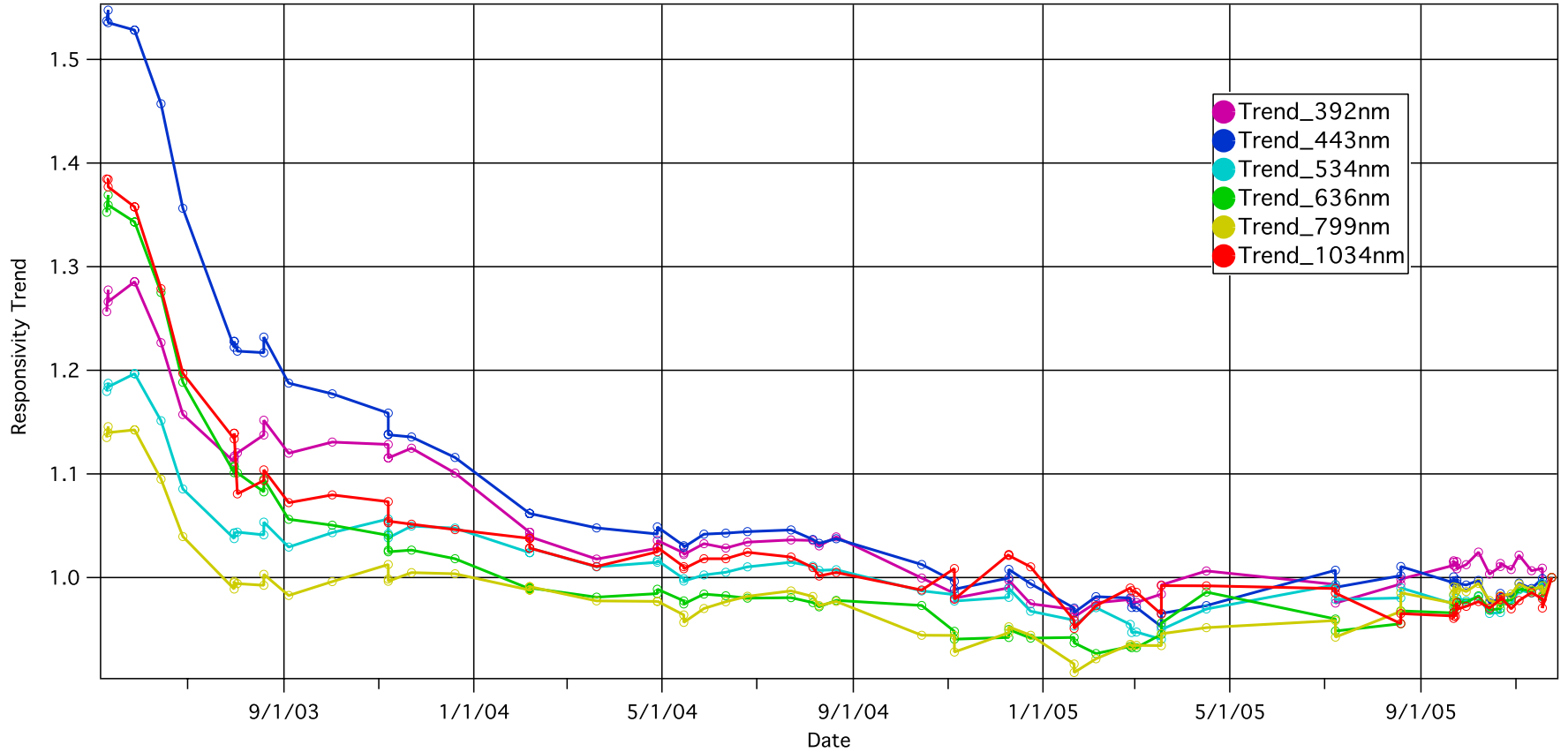


AWG, Boulder 2005

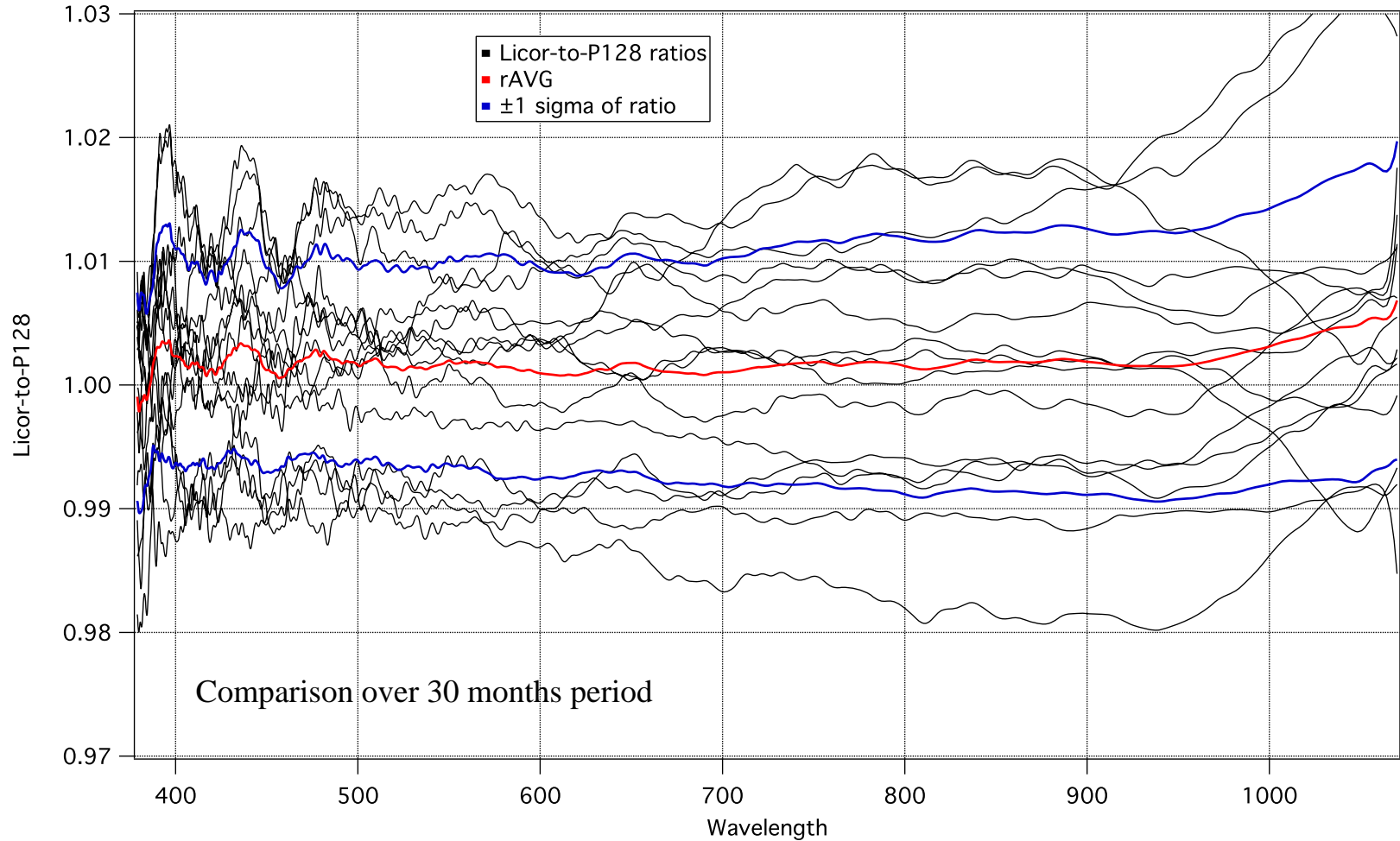
RSS: stability, calibration, Langley correction, aerosols OD

Peter Kiedron

Responsivity Trends

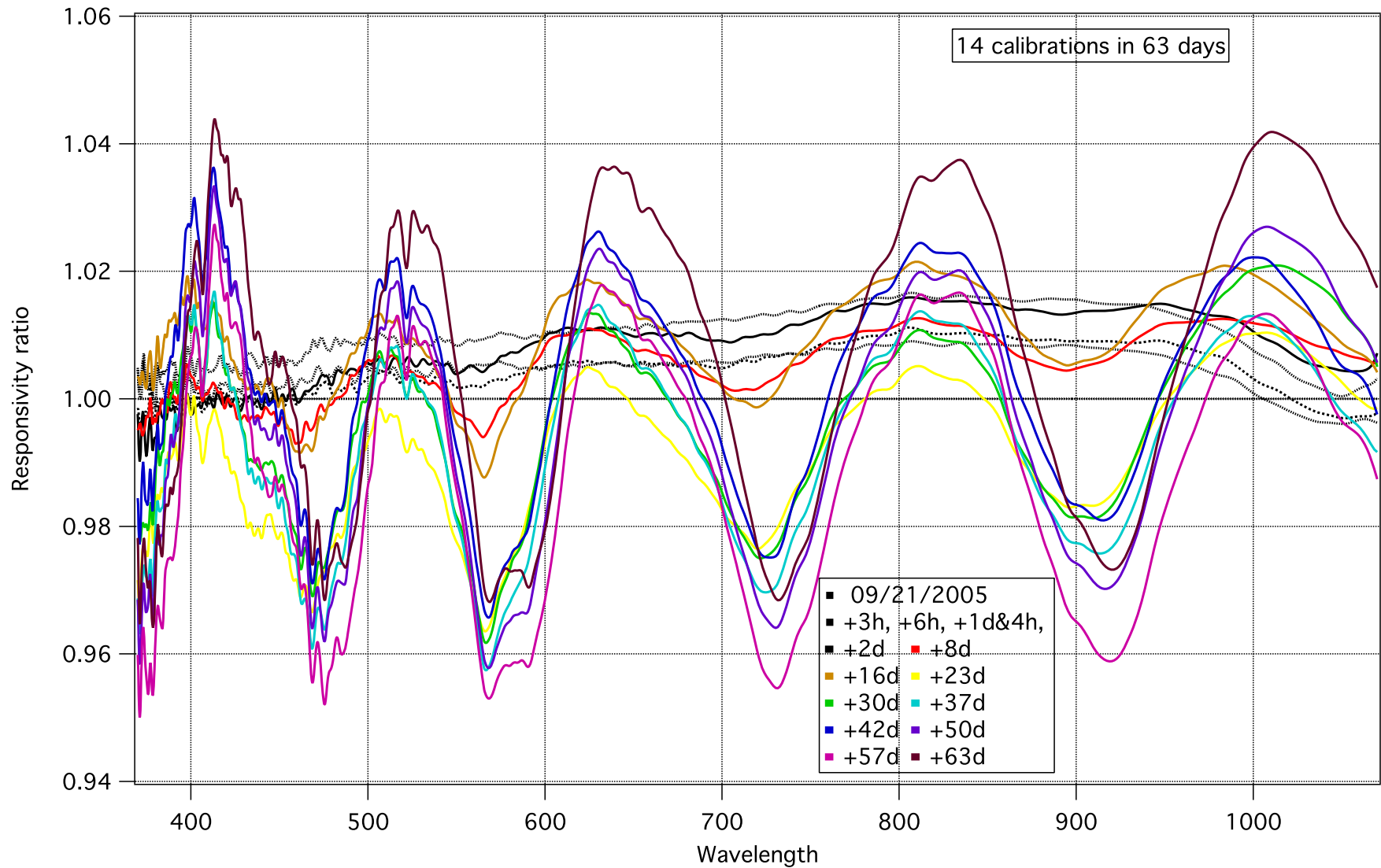


Calibration Precision and Accuracy

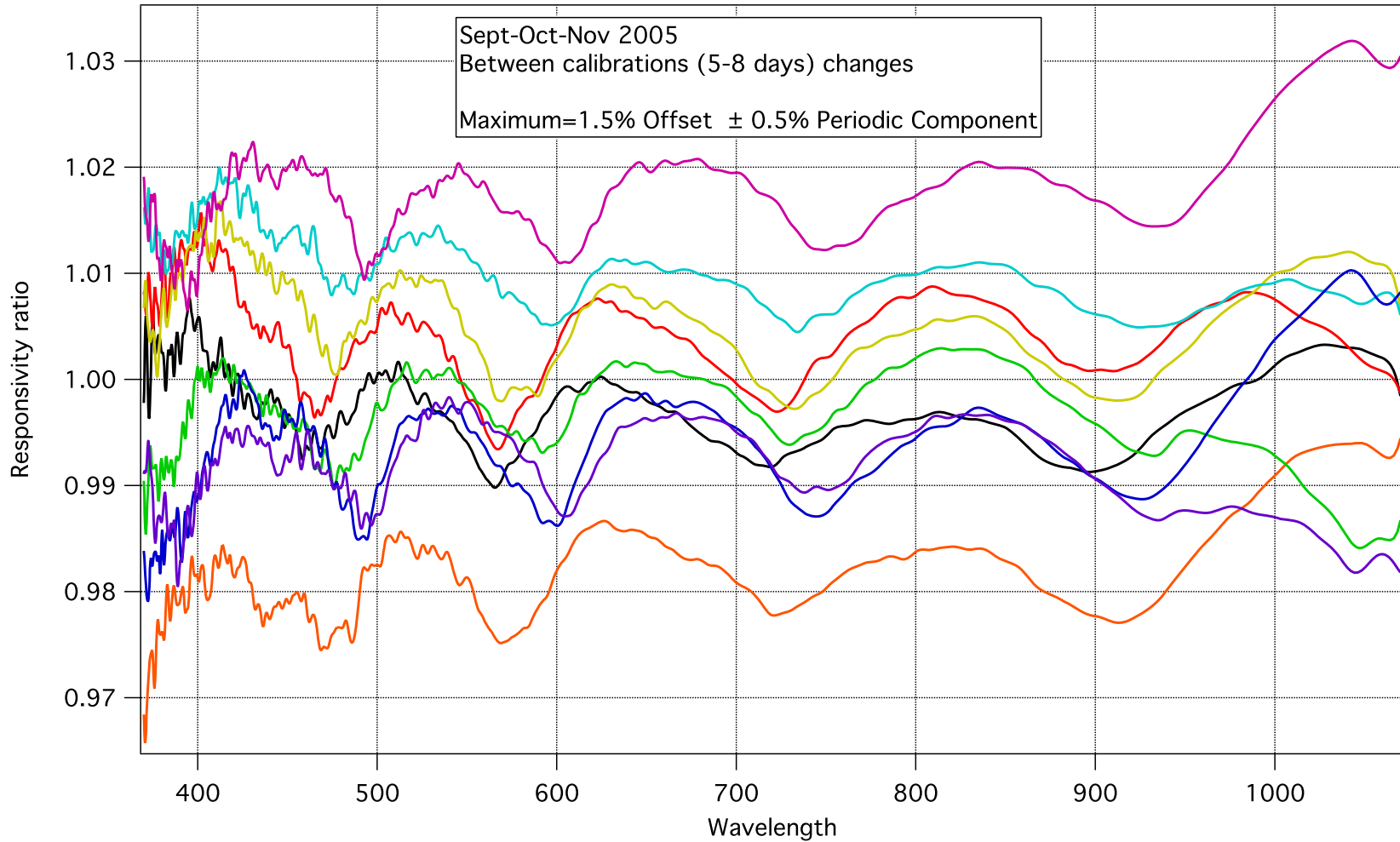


1-sigma of ratio = (calibrators stability, calibrators positioning, RSS short term 1h stability)

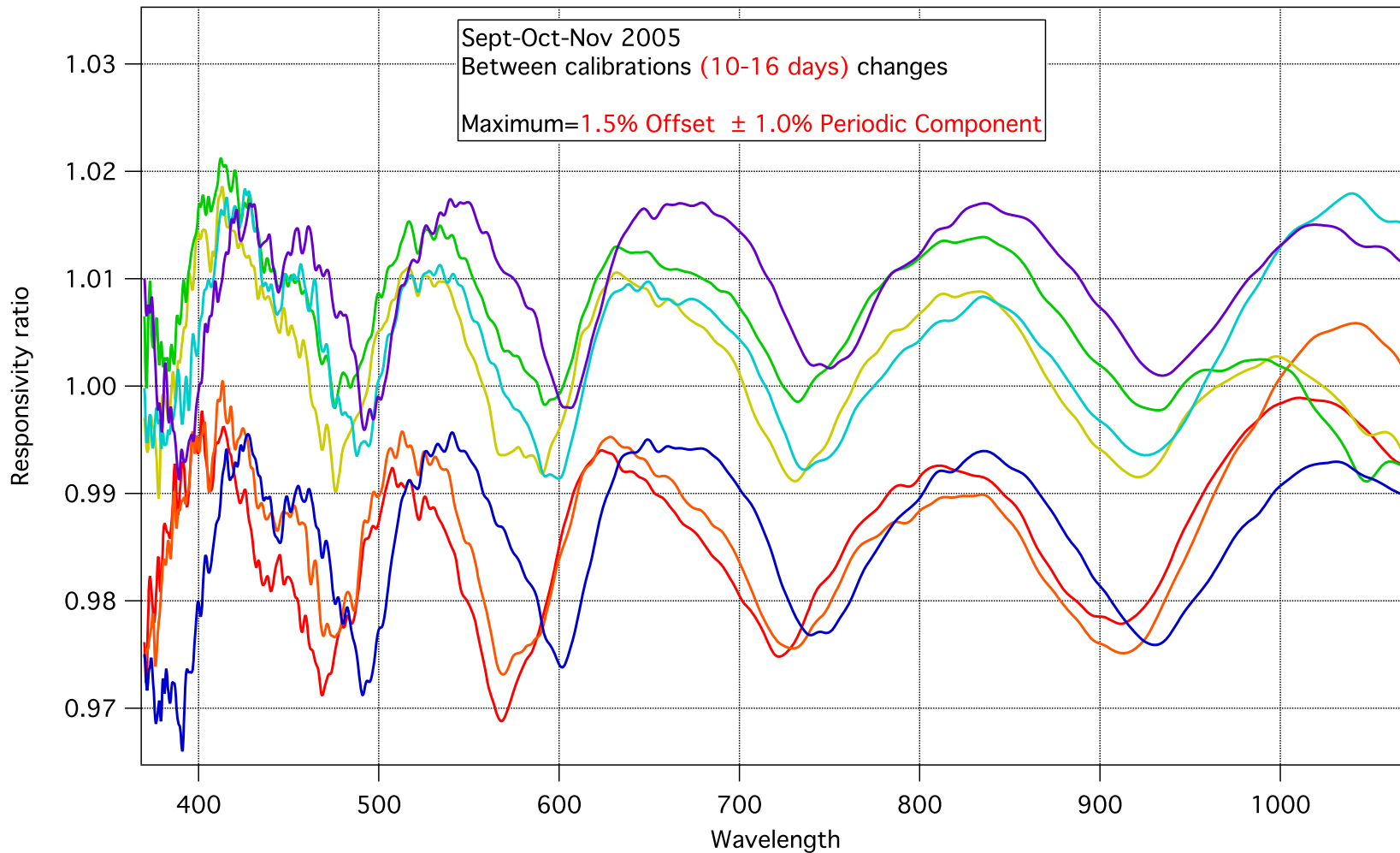
Fall 2005 Stability Experiment



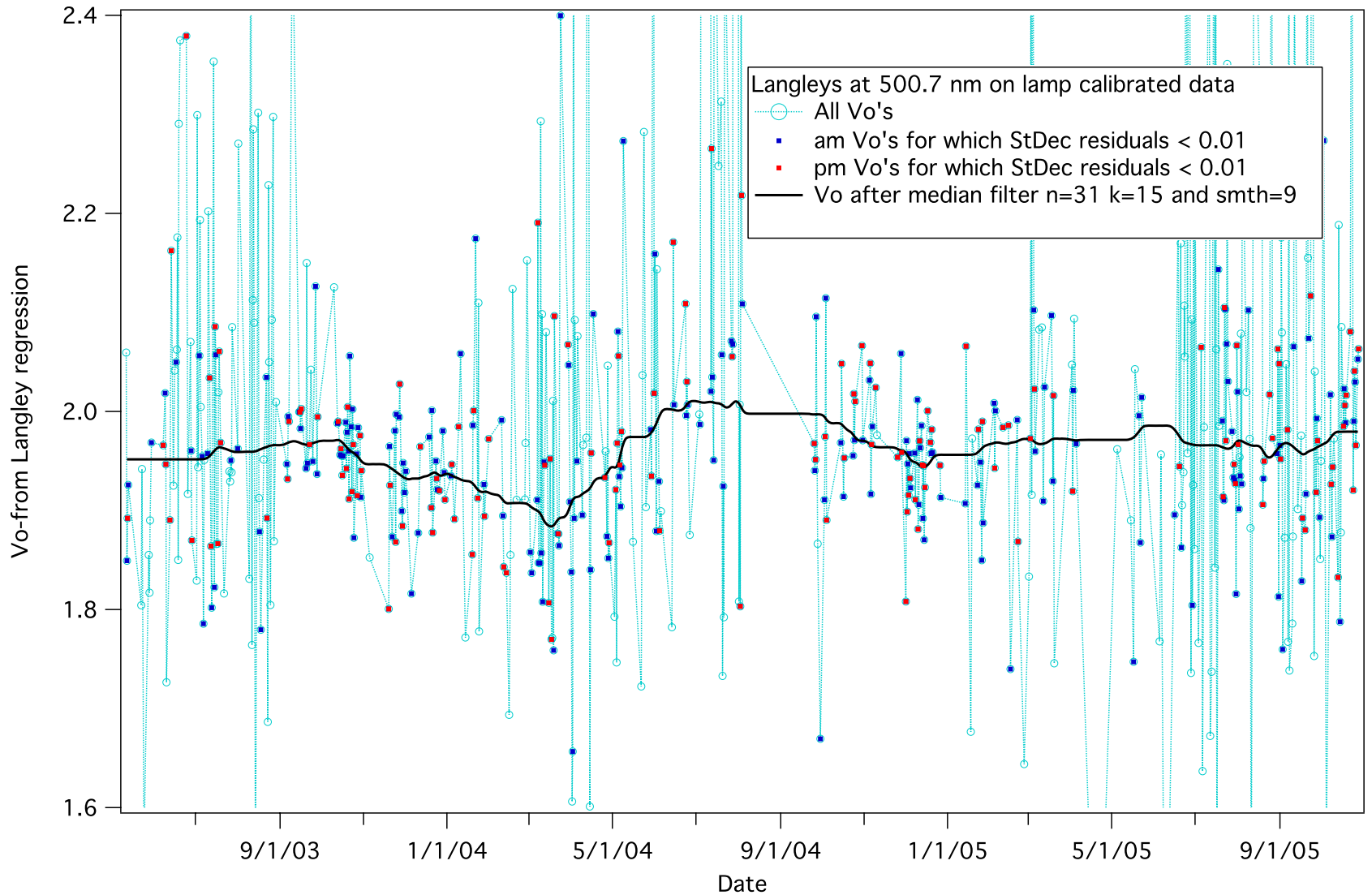
Responsivity Weekly Changes



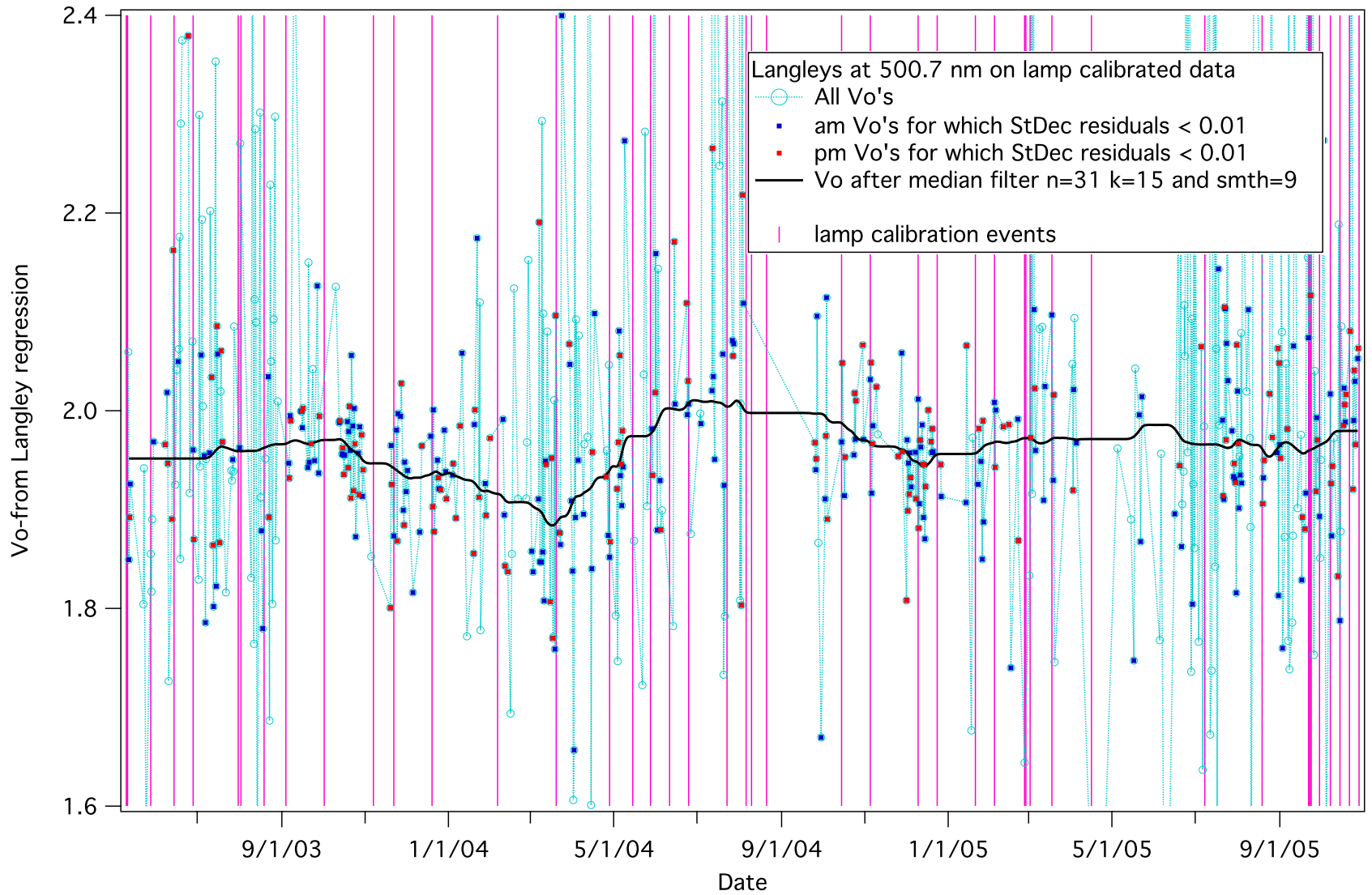
Responsivity bi-Weekly Changes



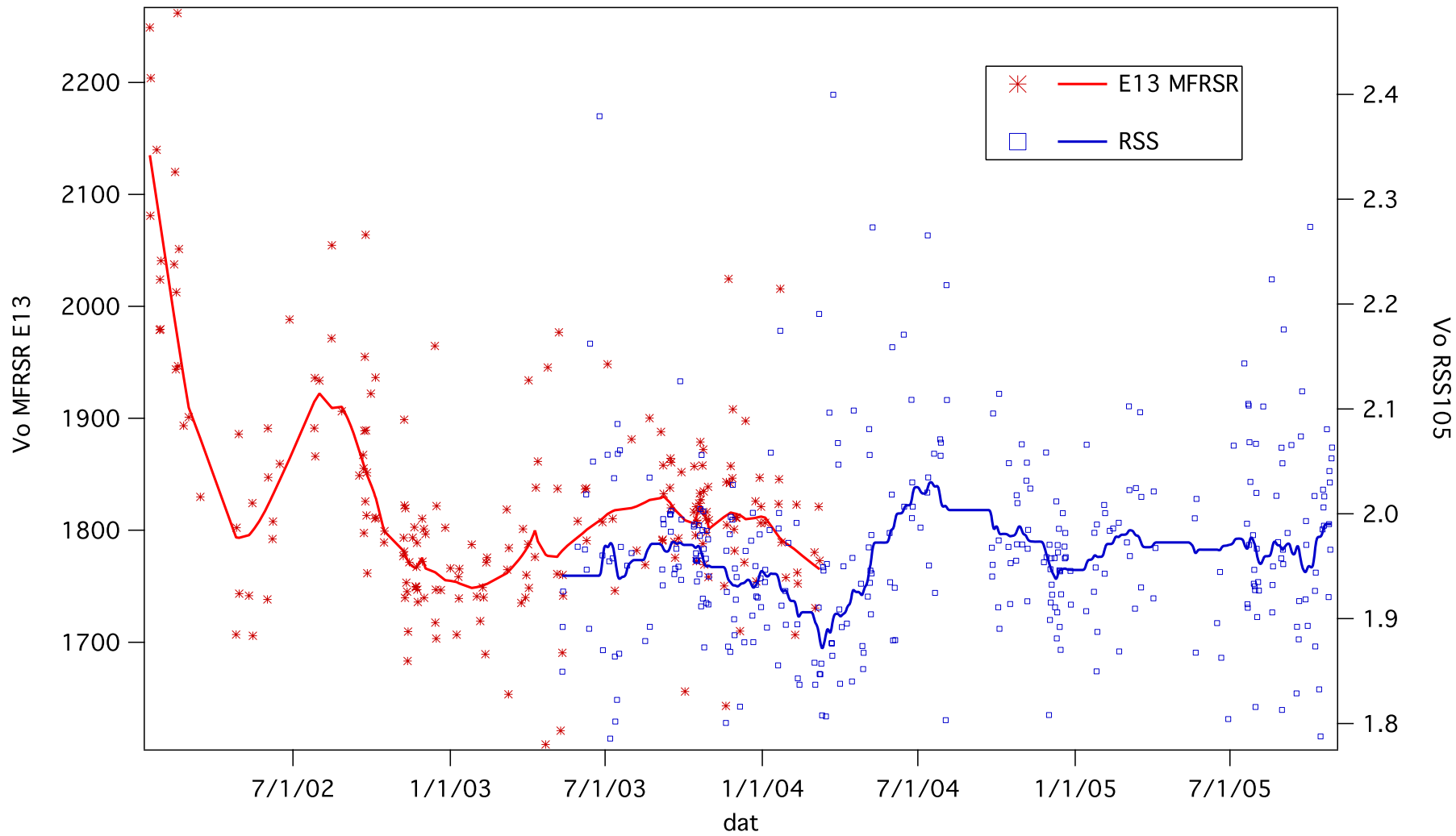
Vo's filtering and smoothing



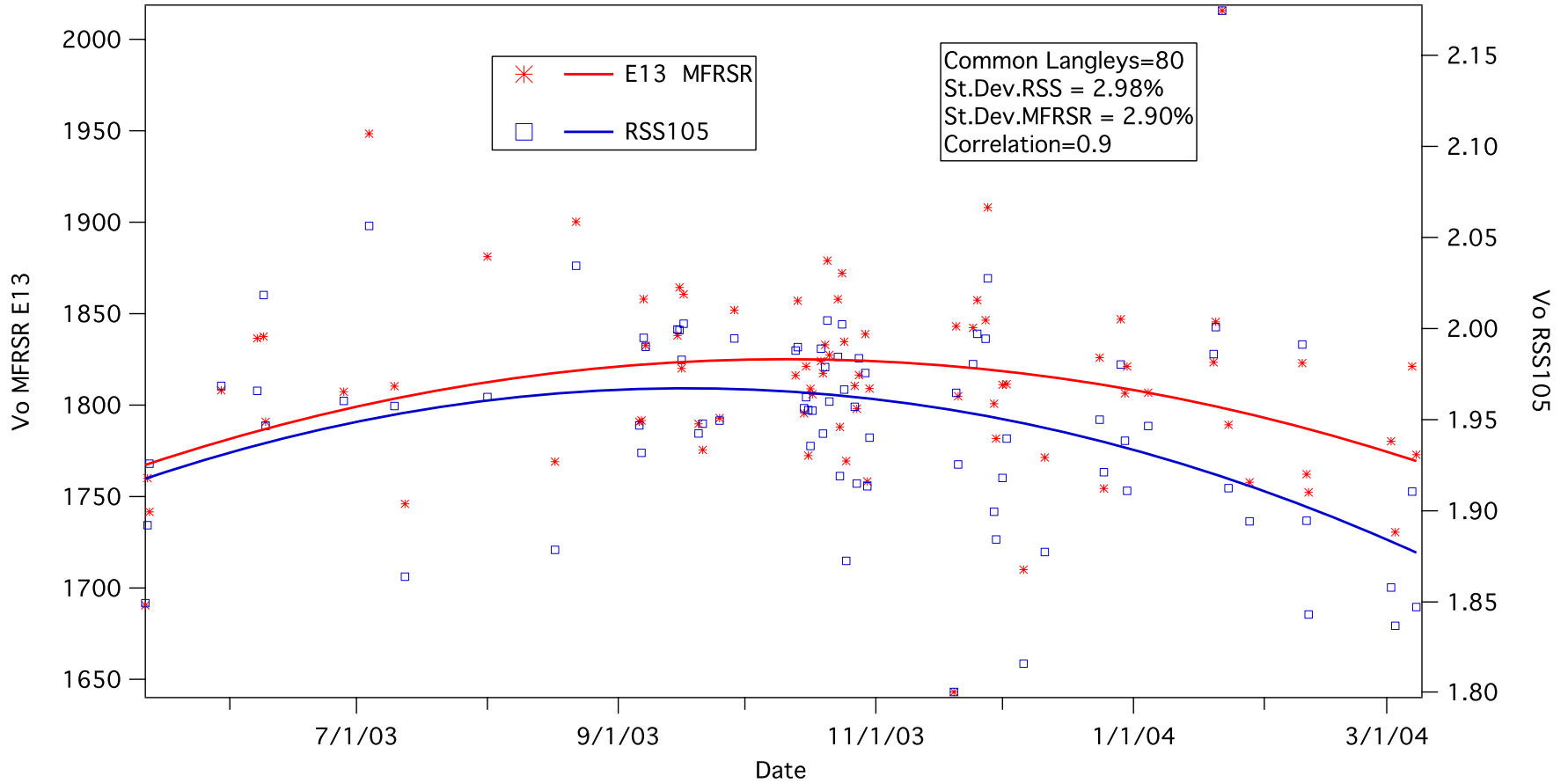
Vo's filtering and smoothing



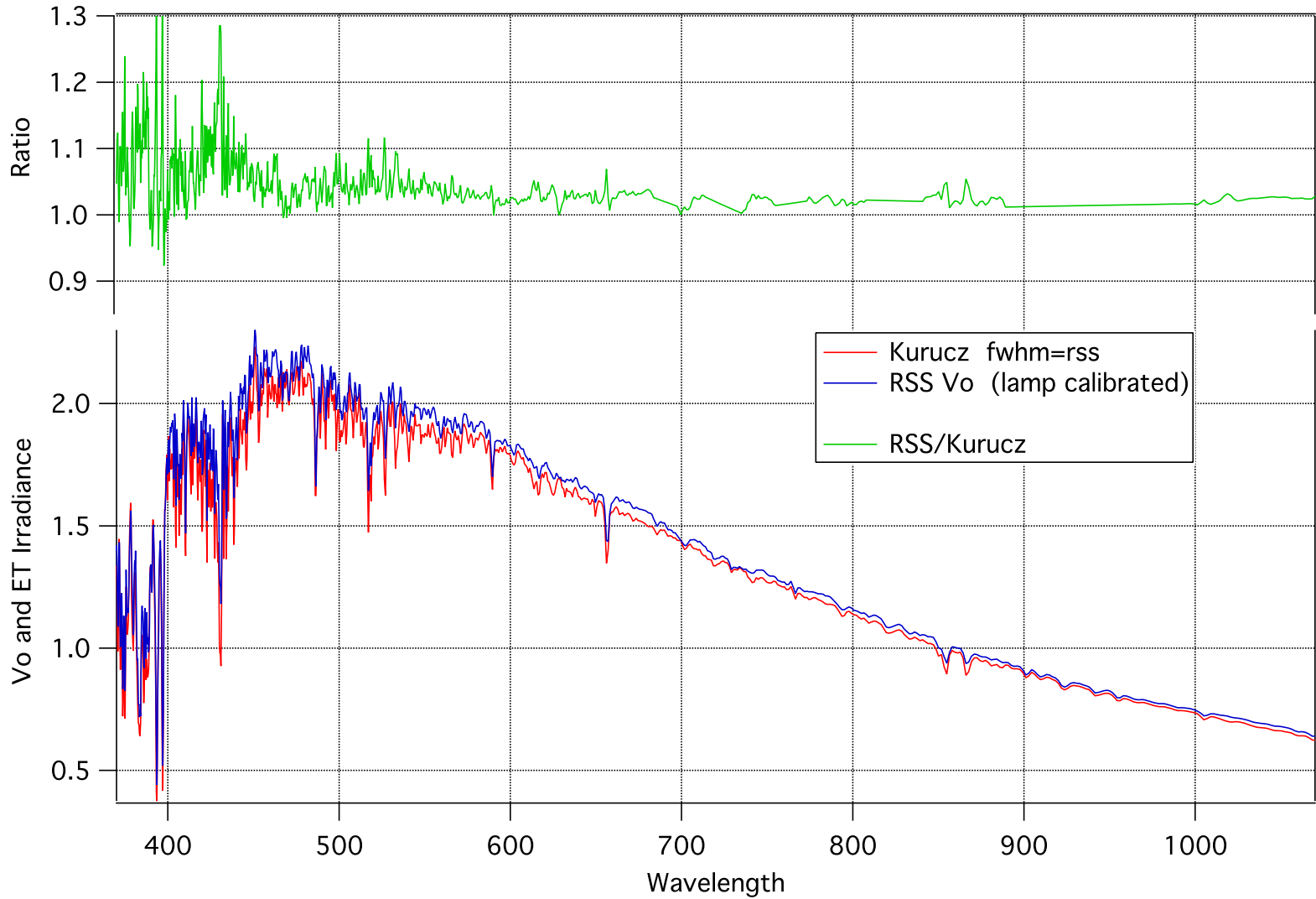
Langley's false trends?



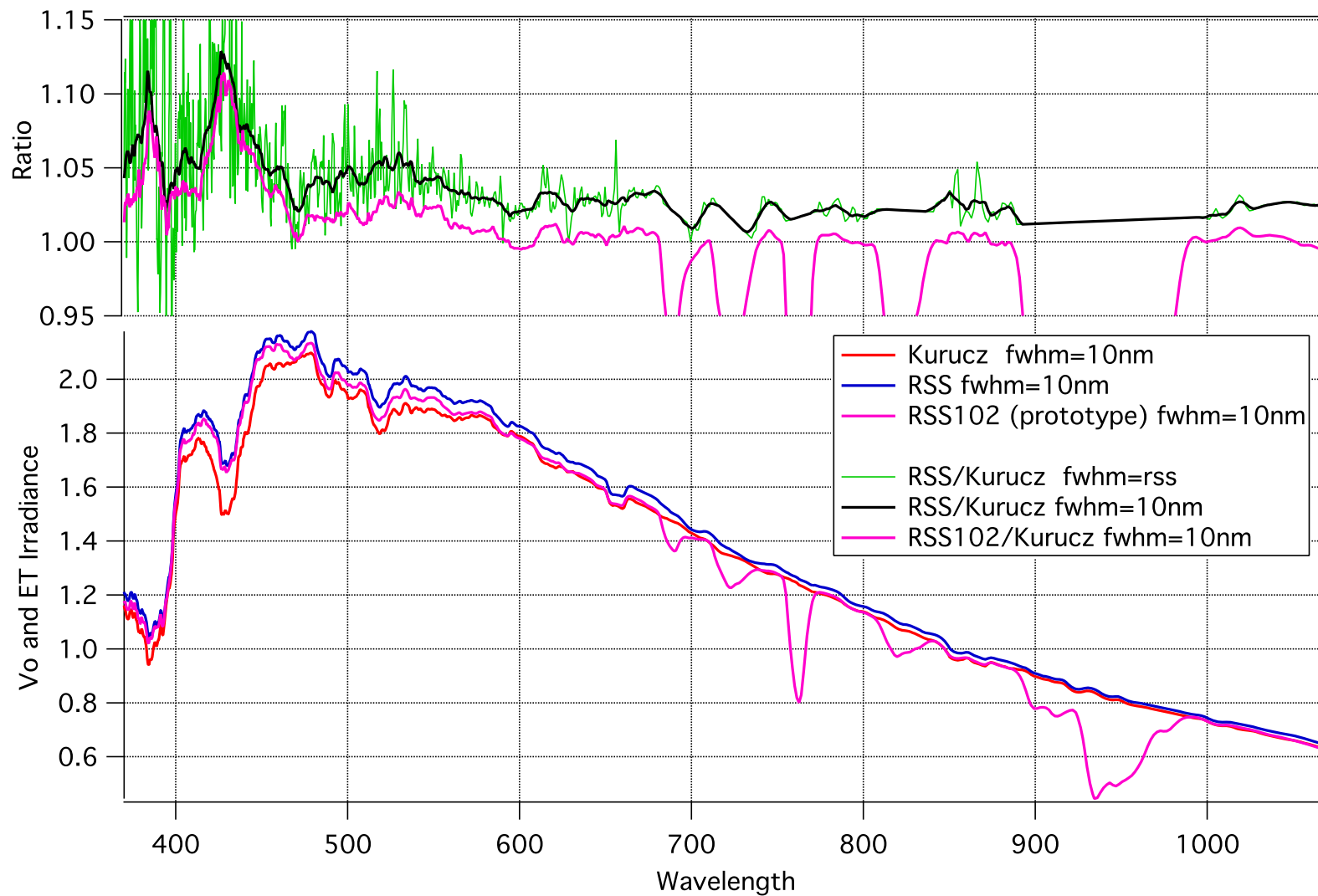
Langley's false trends?



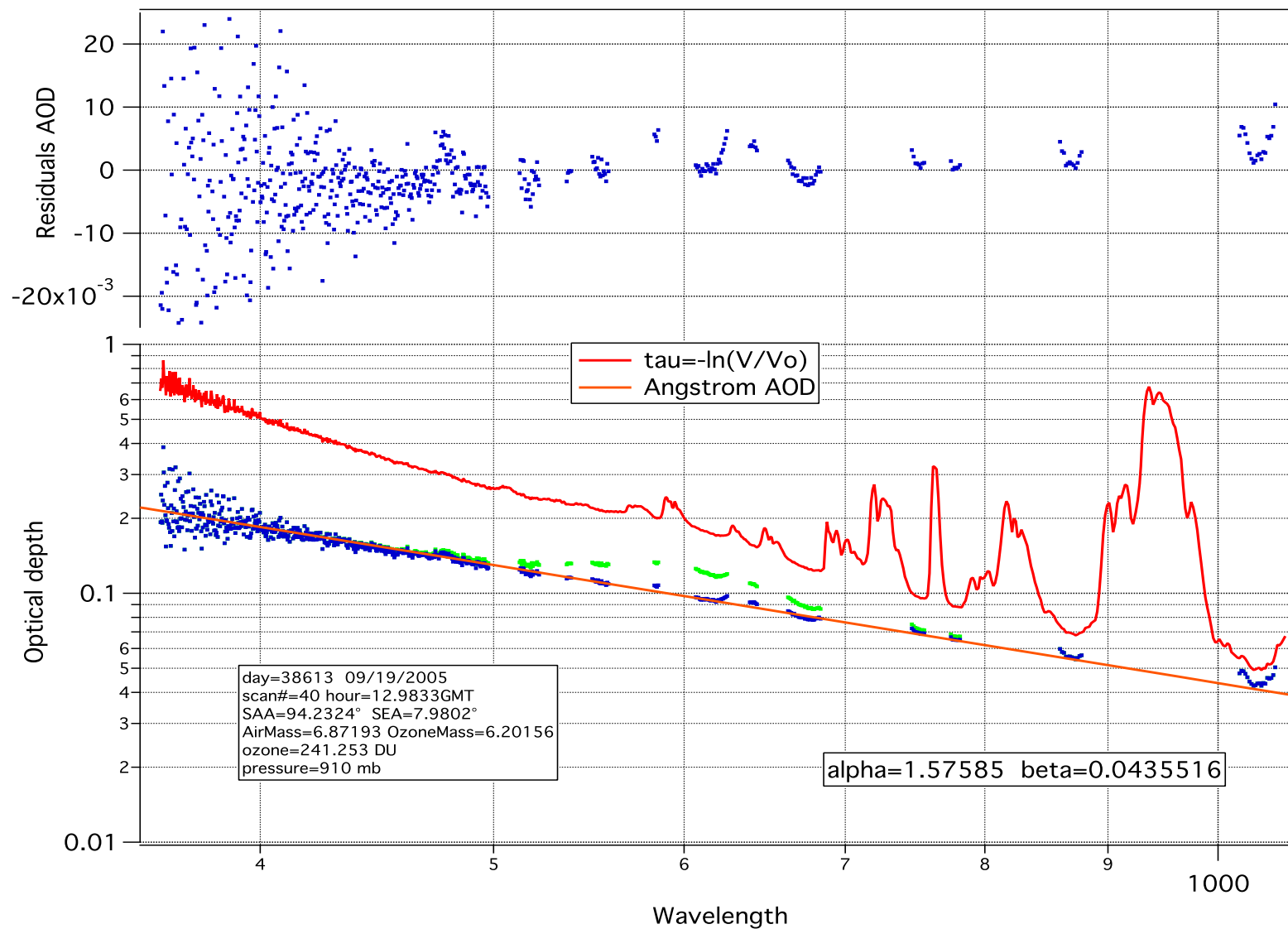
Vo's and Extraterrestrial Irradiance



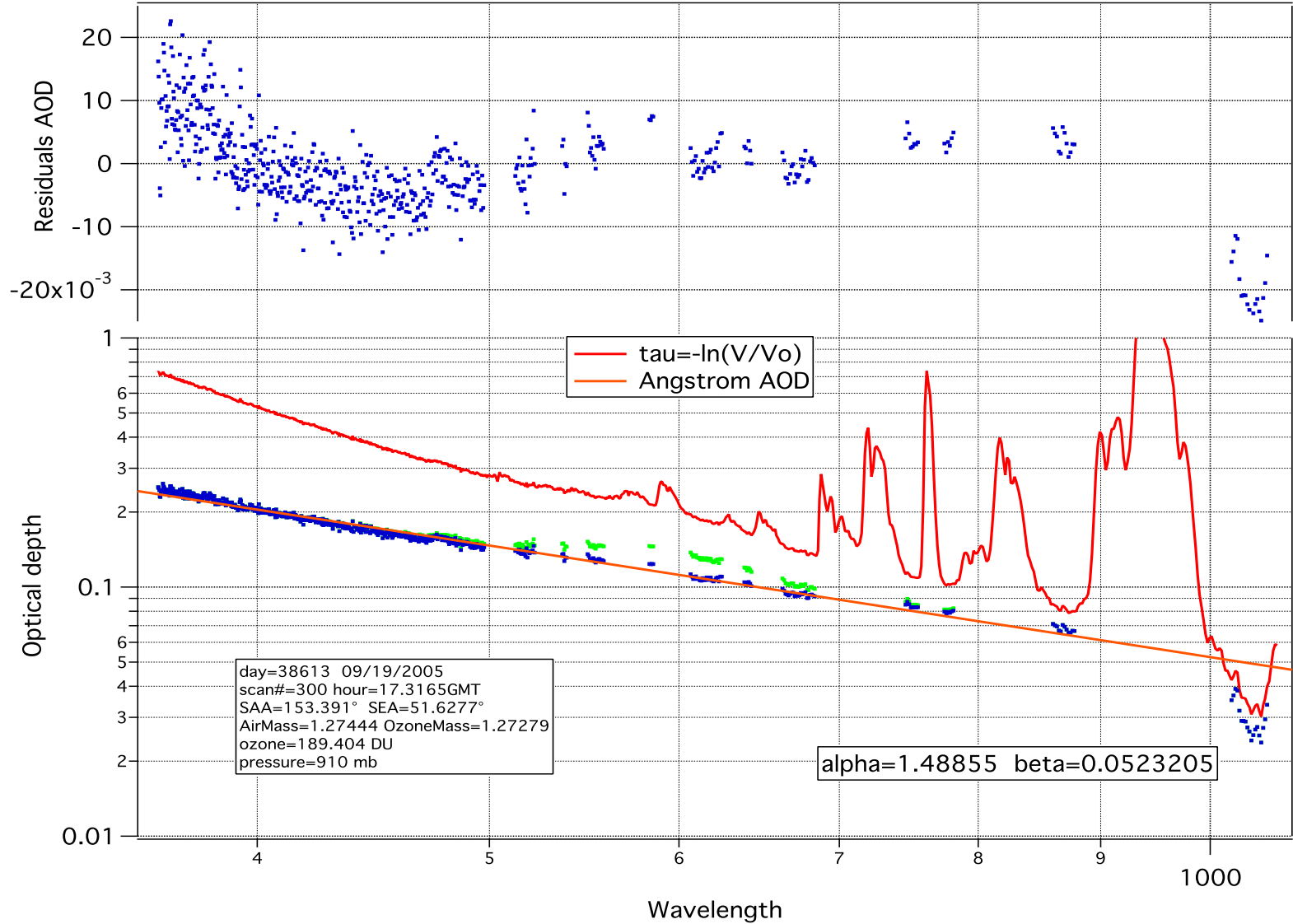
Vo's and Extraterrestrial Irradiance



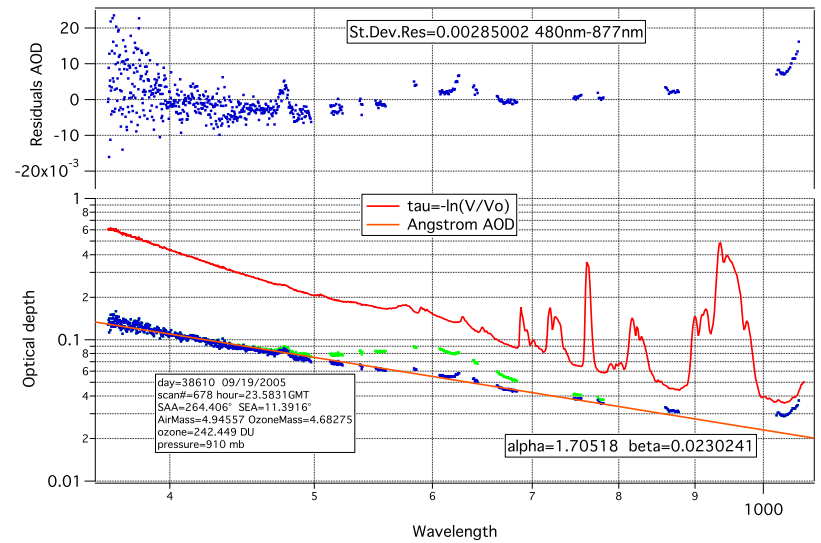
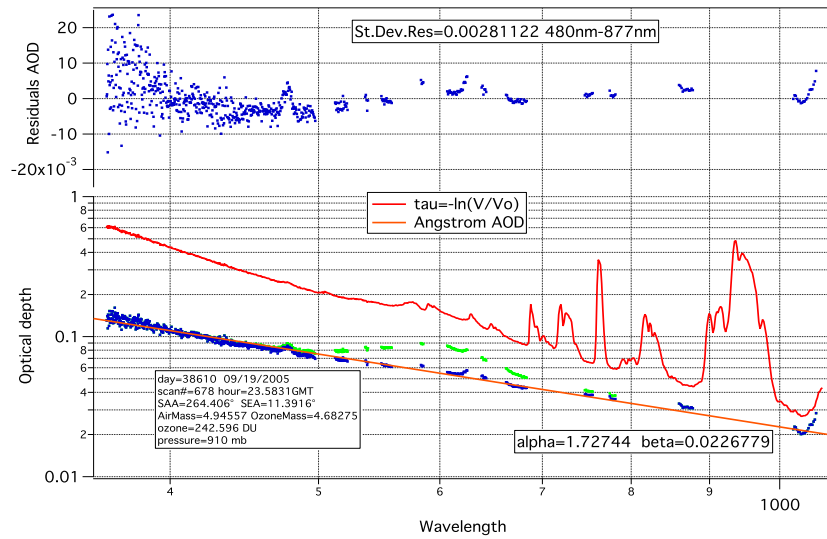
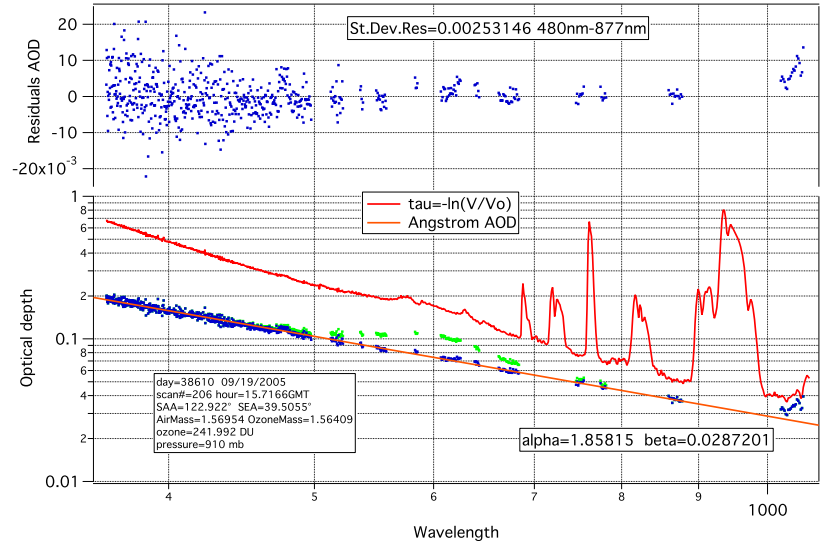
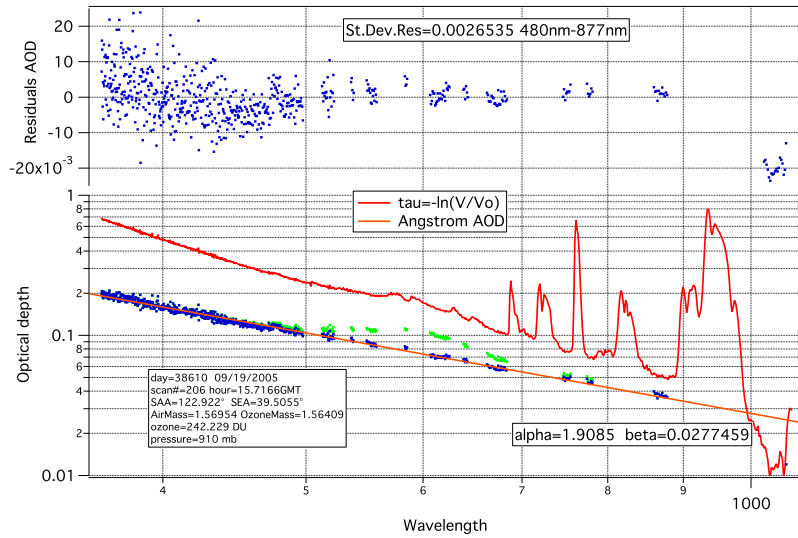
AOD Retrieval



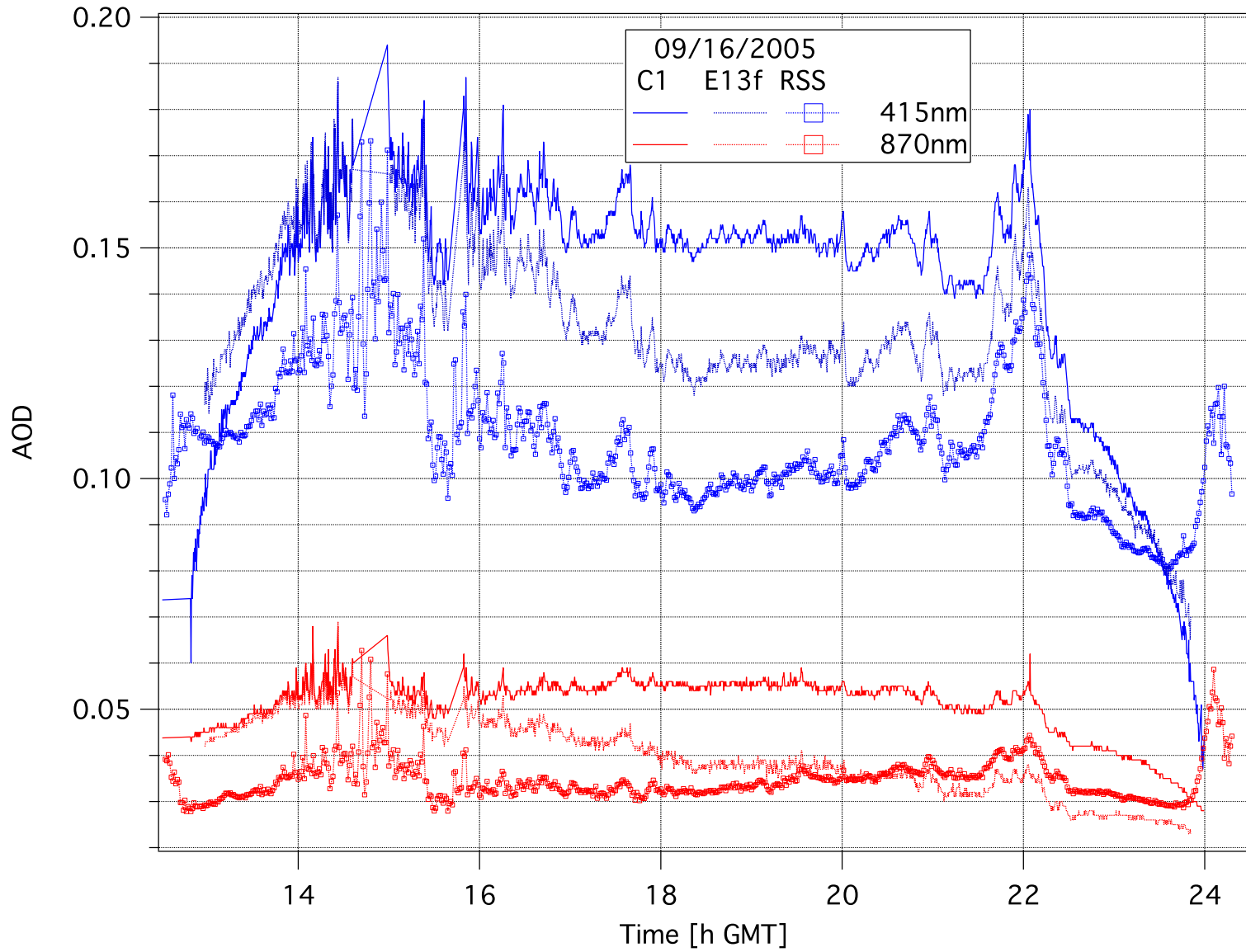
AOD Retrieval



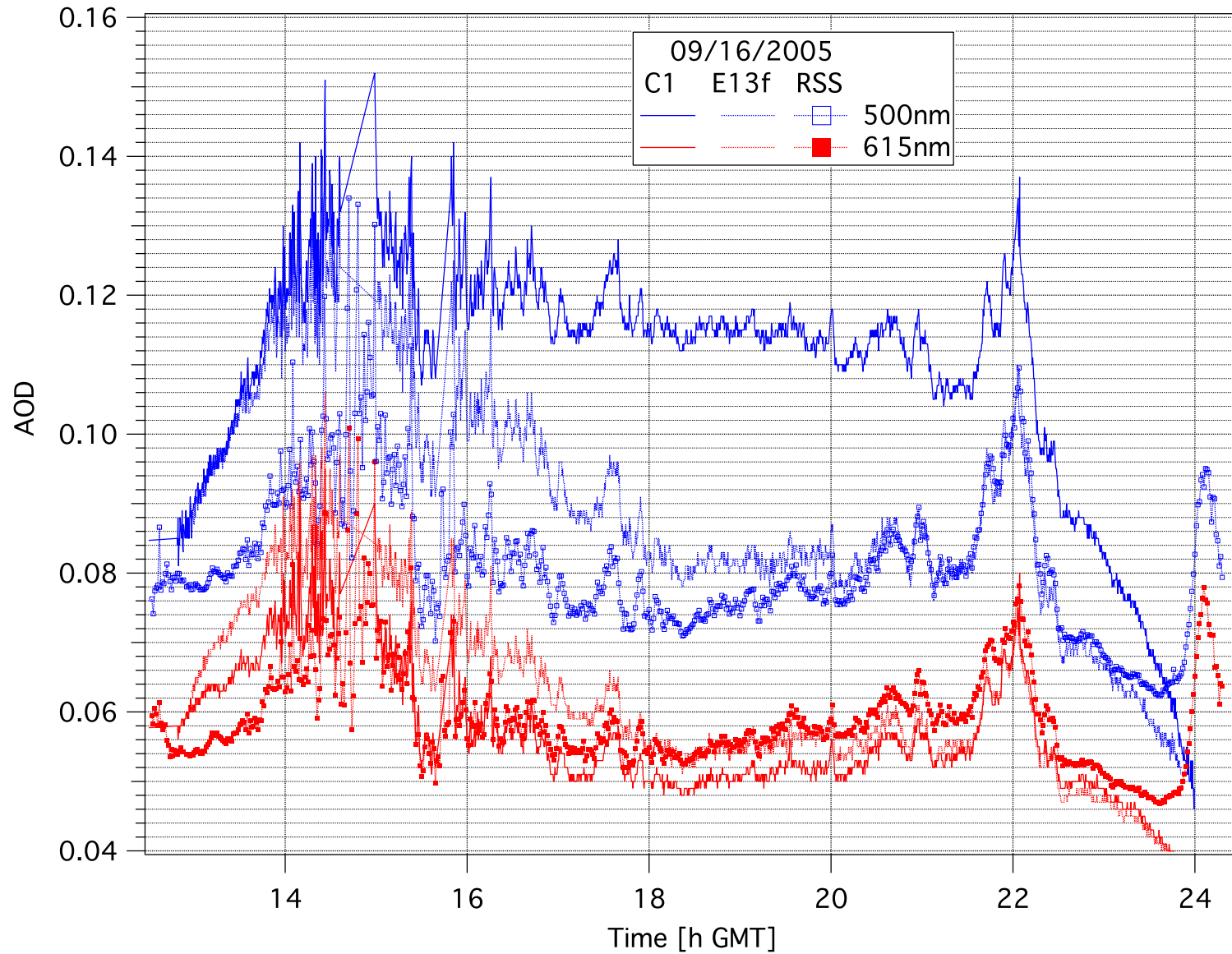
Avg<Vo> or <Vo>Sept19



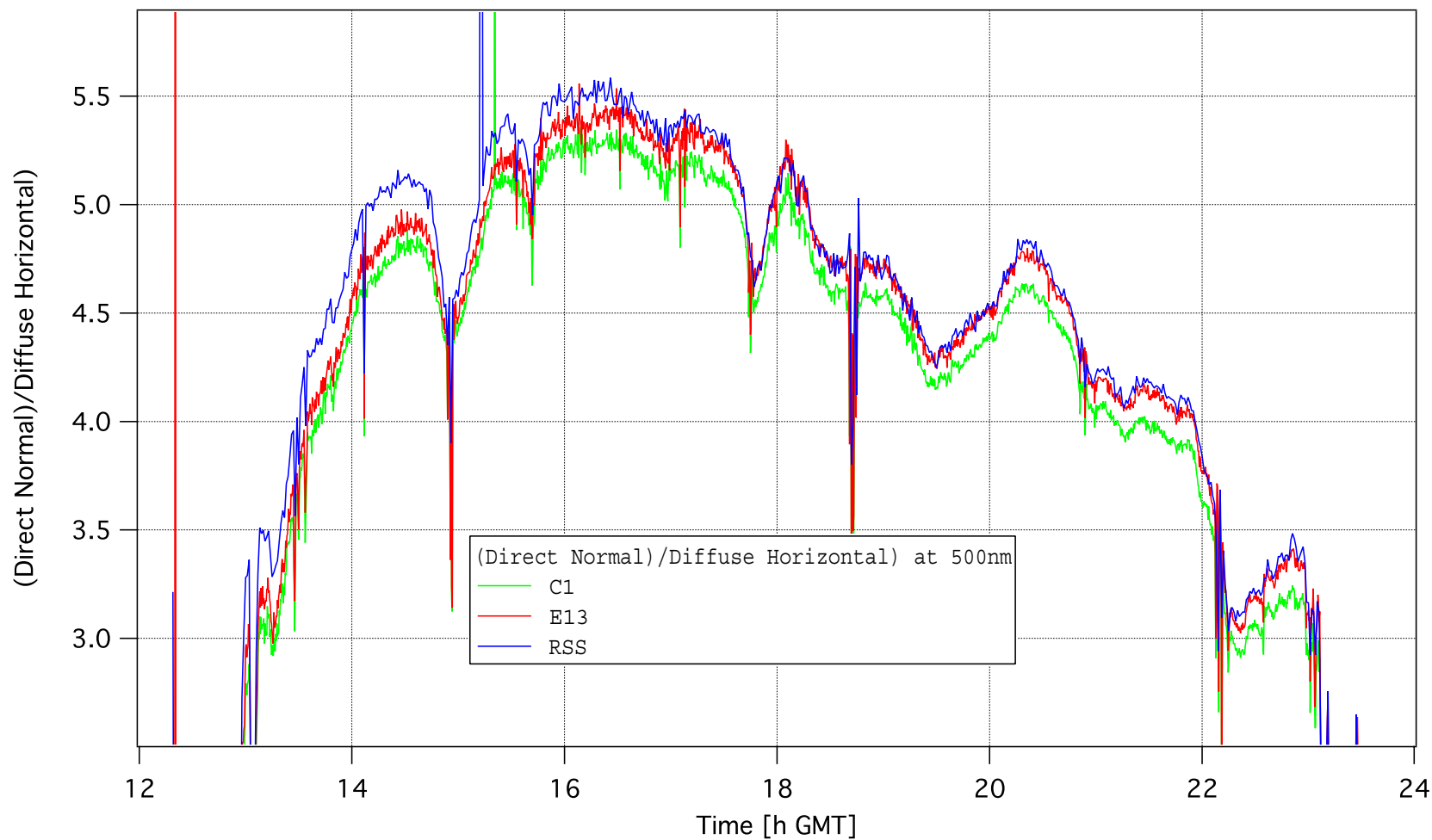
3 Instruments AOD Retrieval Comparison



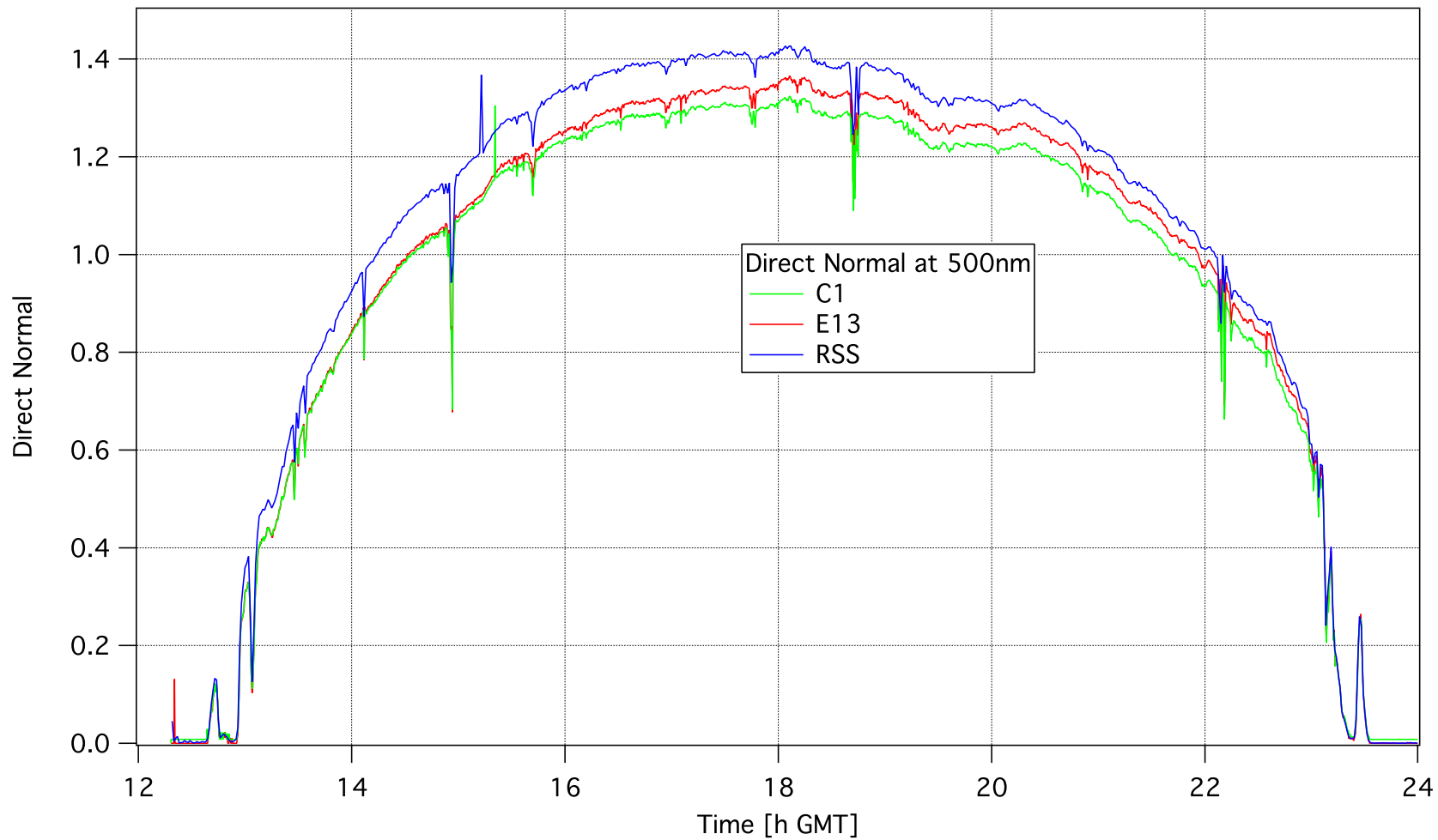
3 Instruments AOD Retrieval Comparison



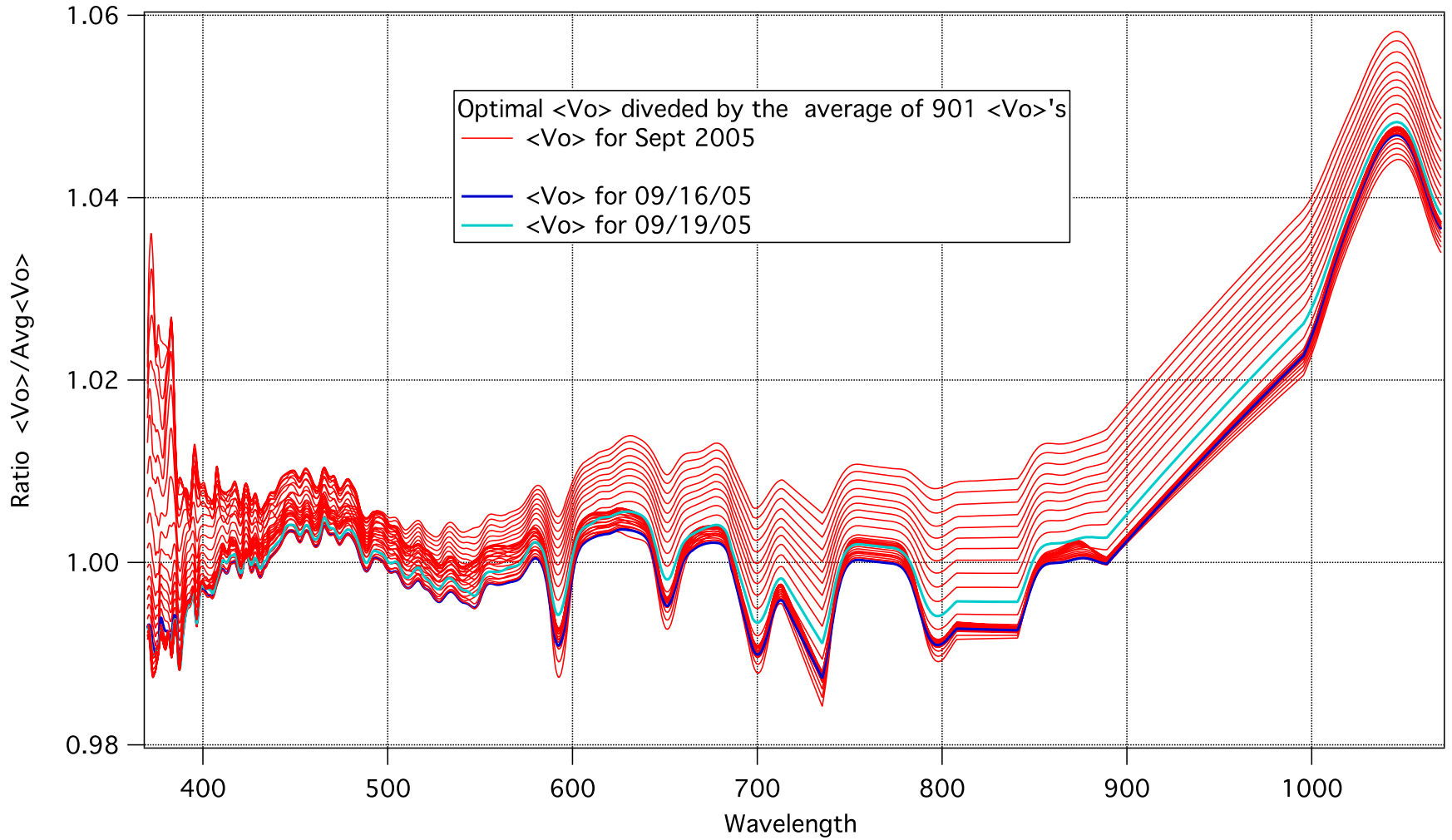
3 Instruments Dir-to-Dif 09/19/05



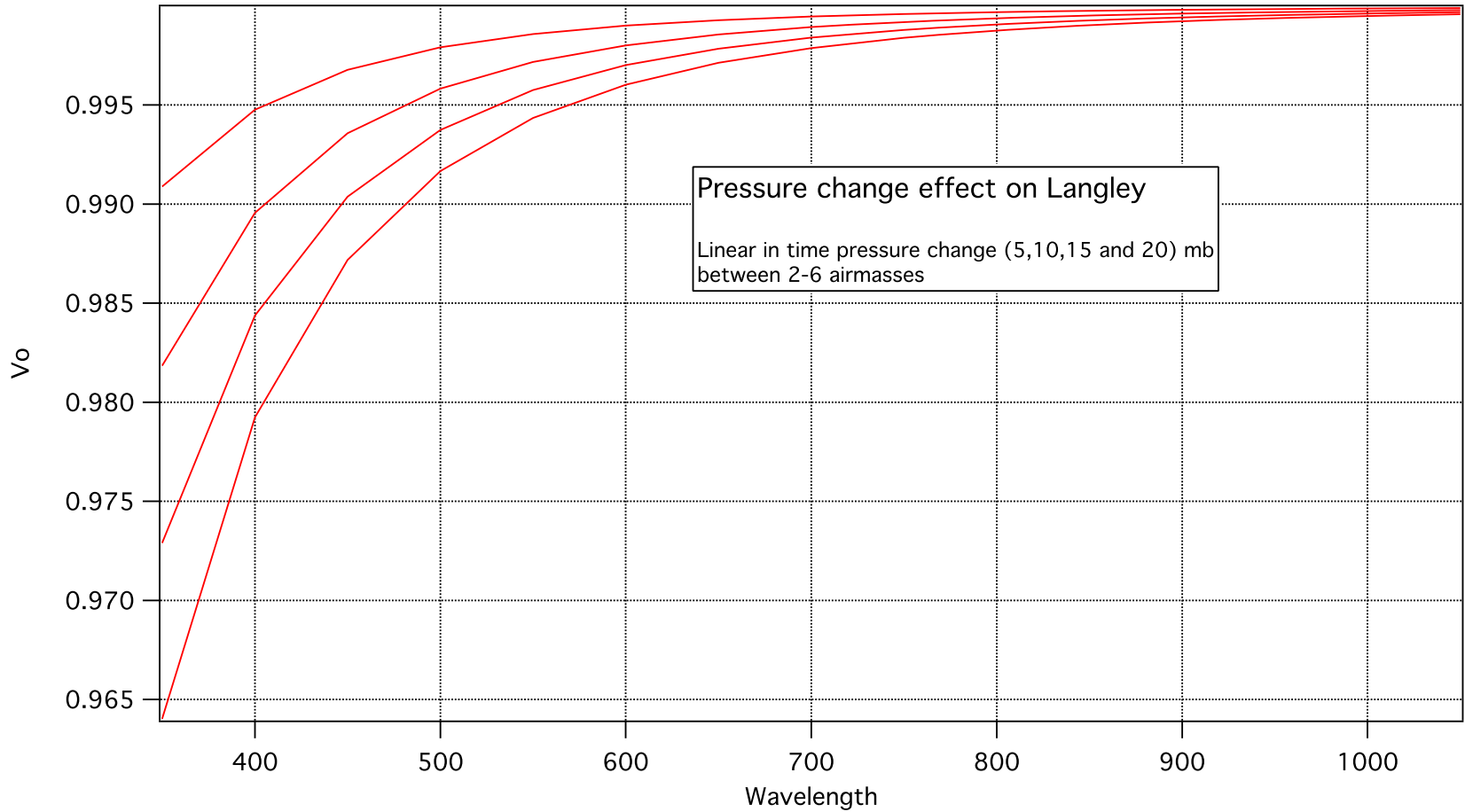
3 Instruments DirNorm 09/19/05



$\langle V_o \rangle$ drift in September 2005

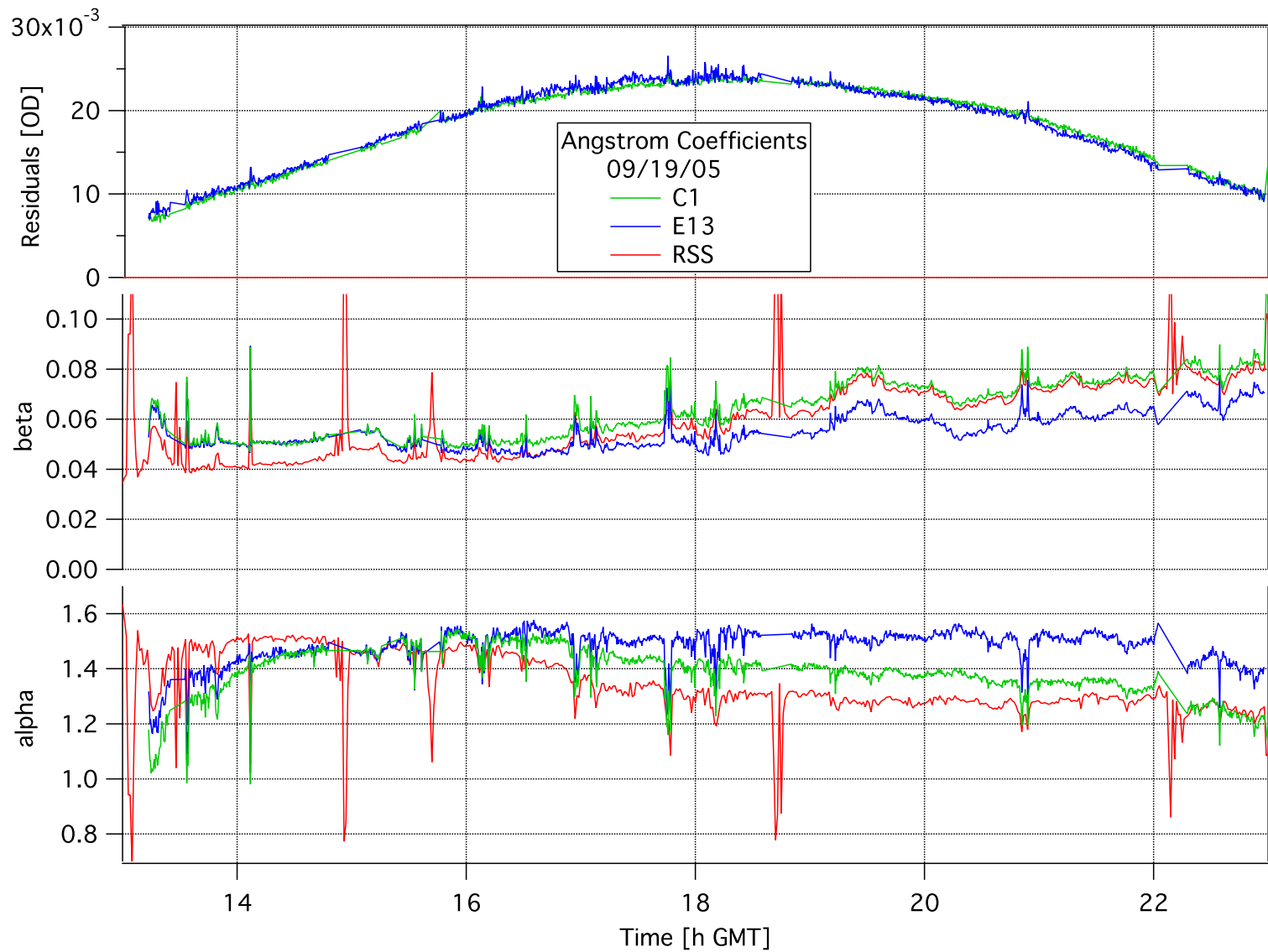


Pressure change effect



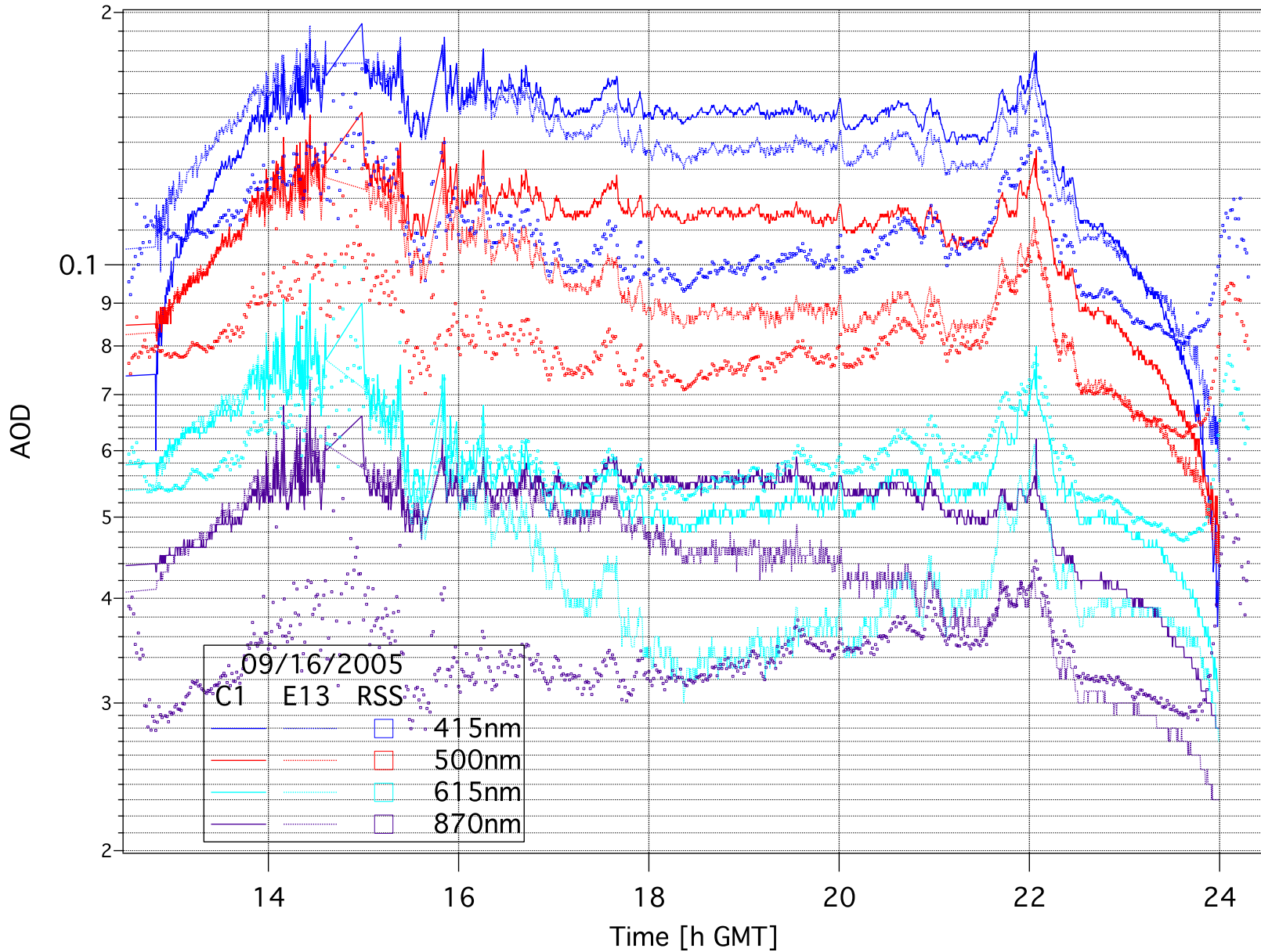
Extras

3 Instruments AOD Retrieval Comparison

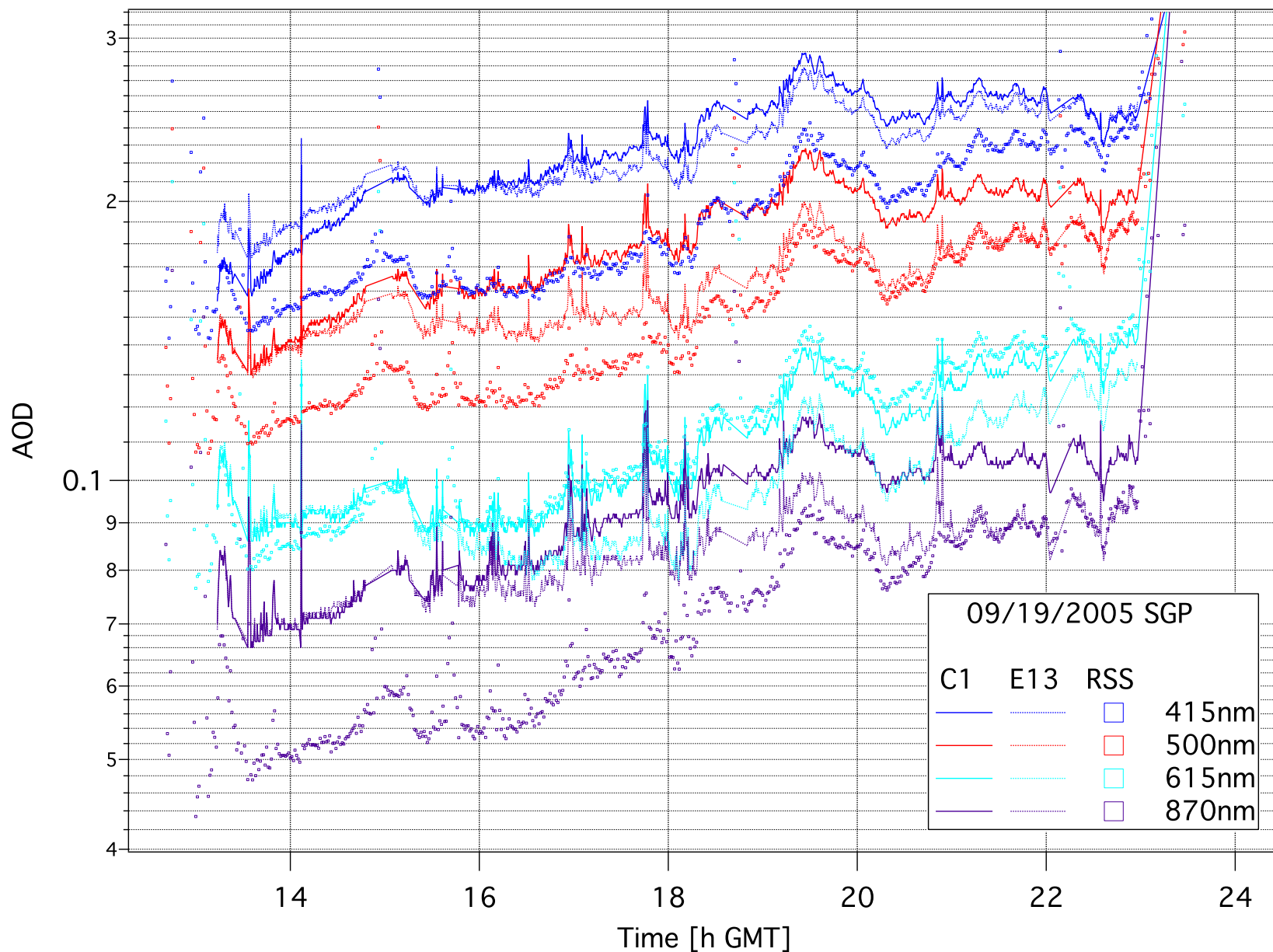


3 Instruments AOD Retrieval Comparison

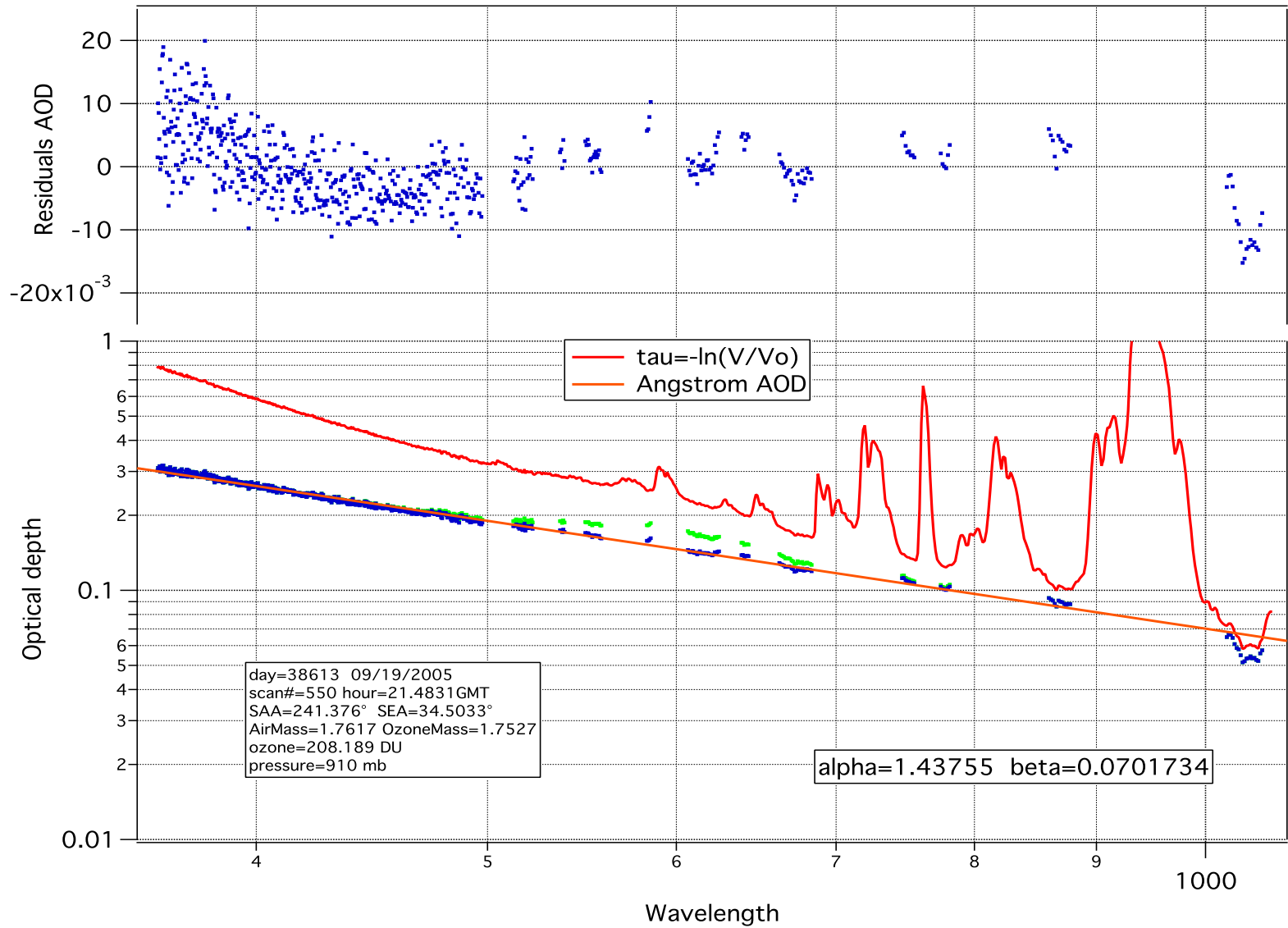
E13 to be fixed



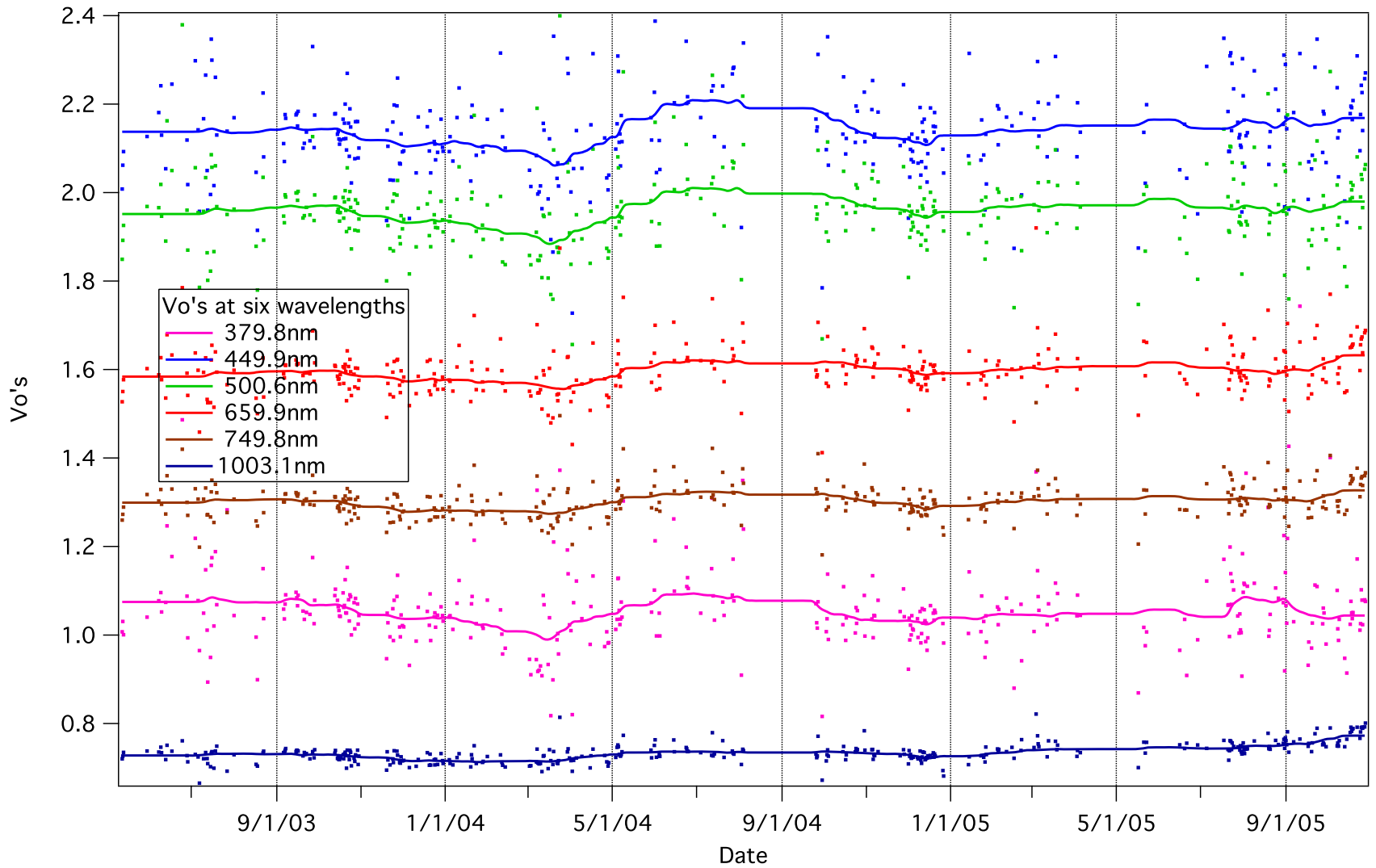
3 Instruments AOD Retrieval Comparison



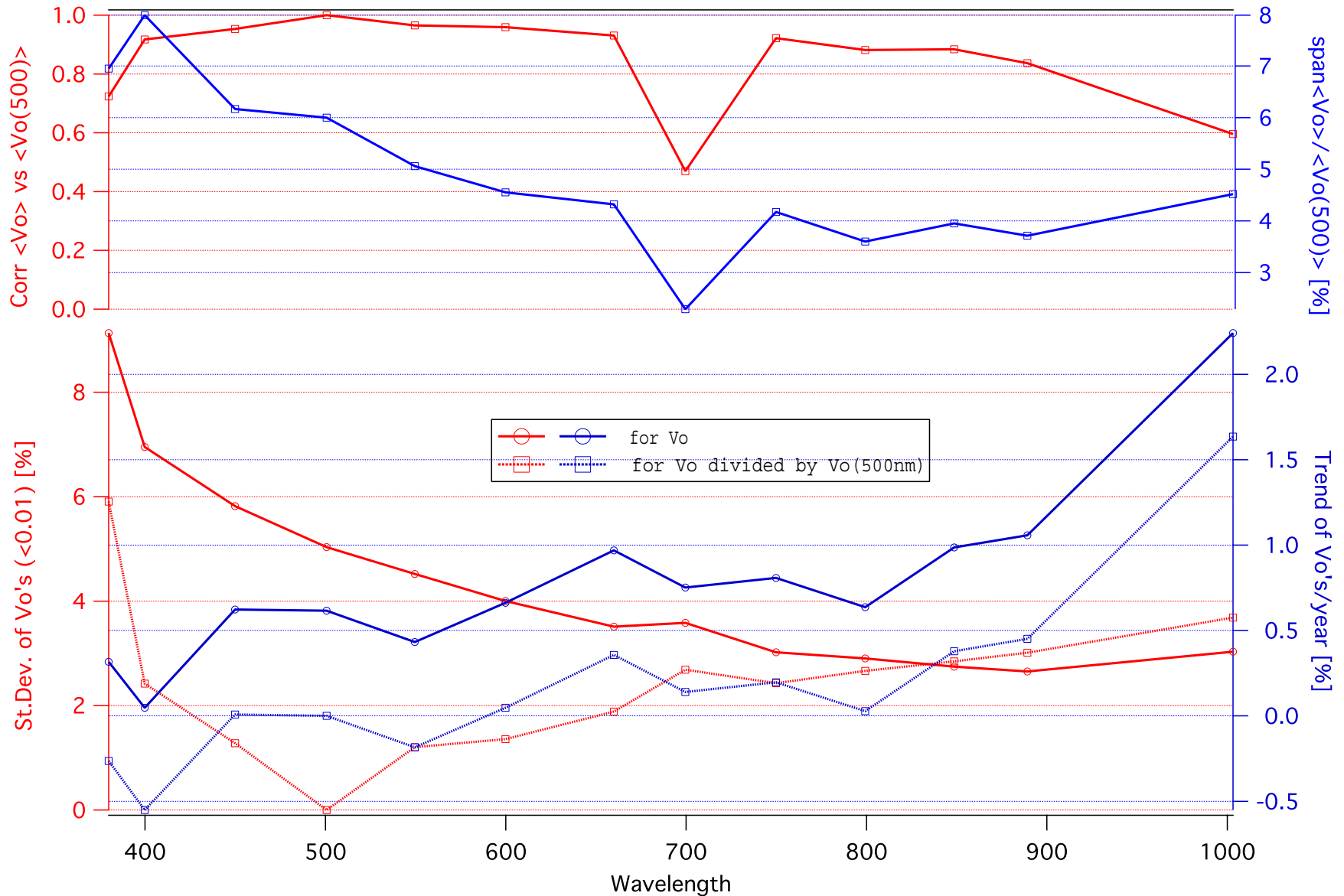
AOD Retrieval



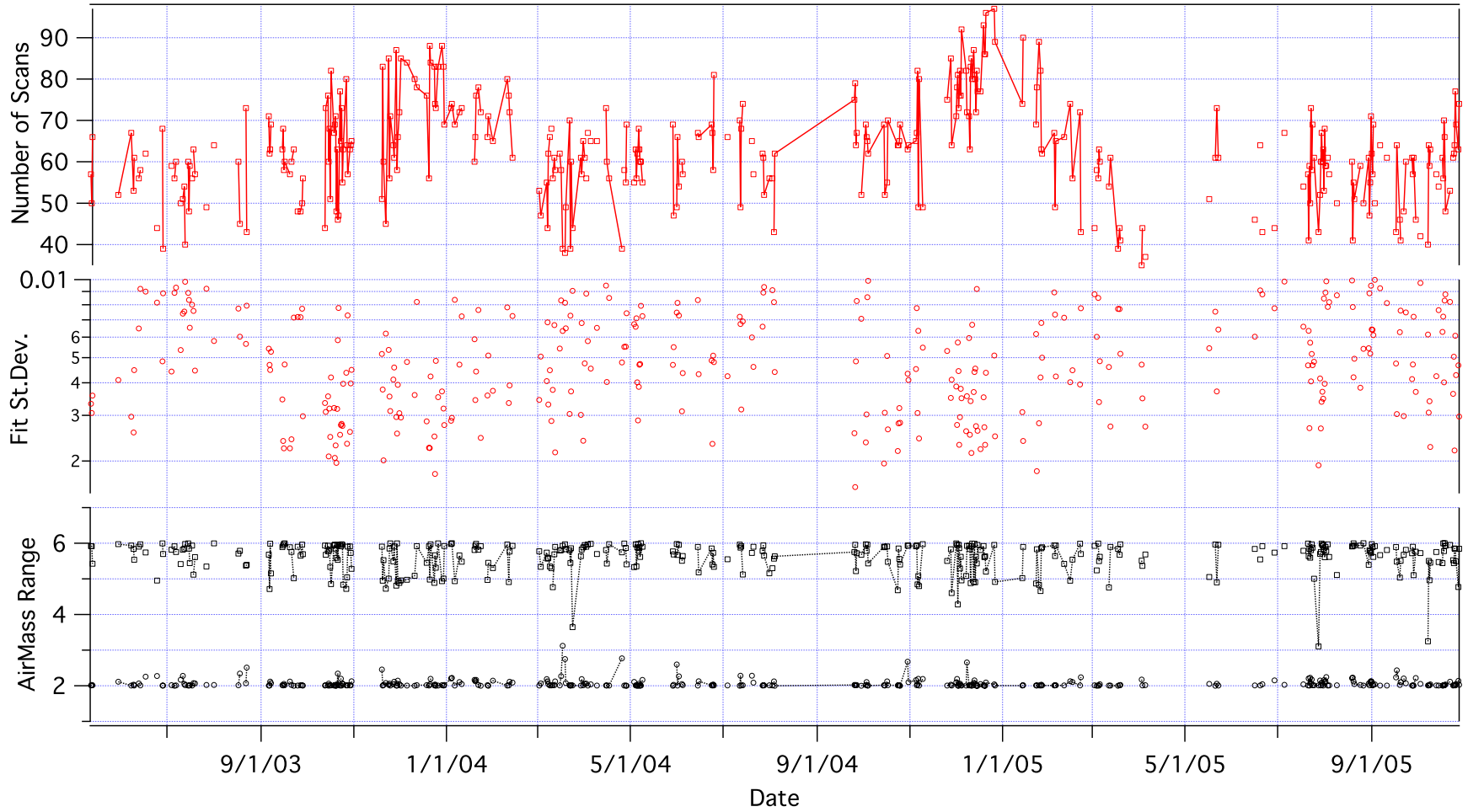
Selected wavelengths



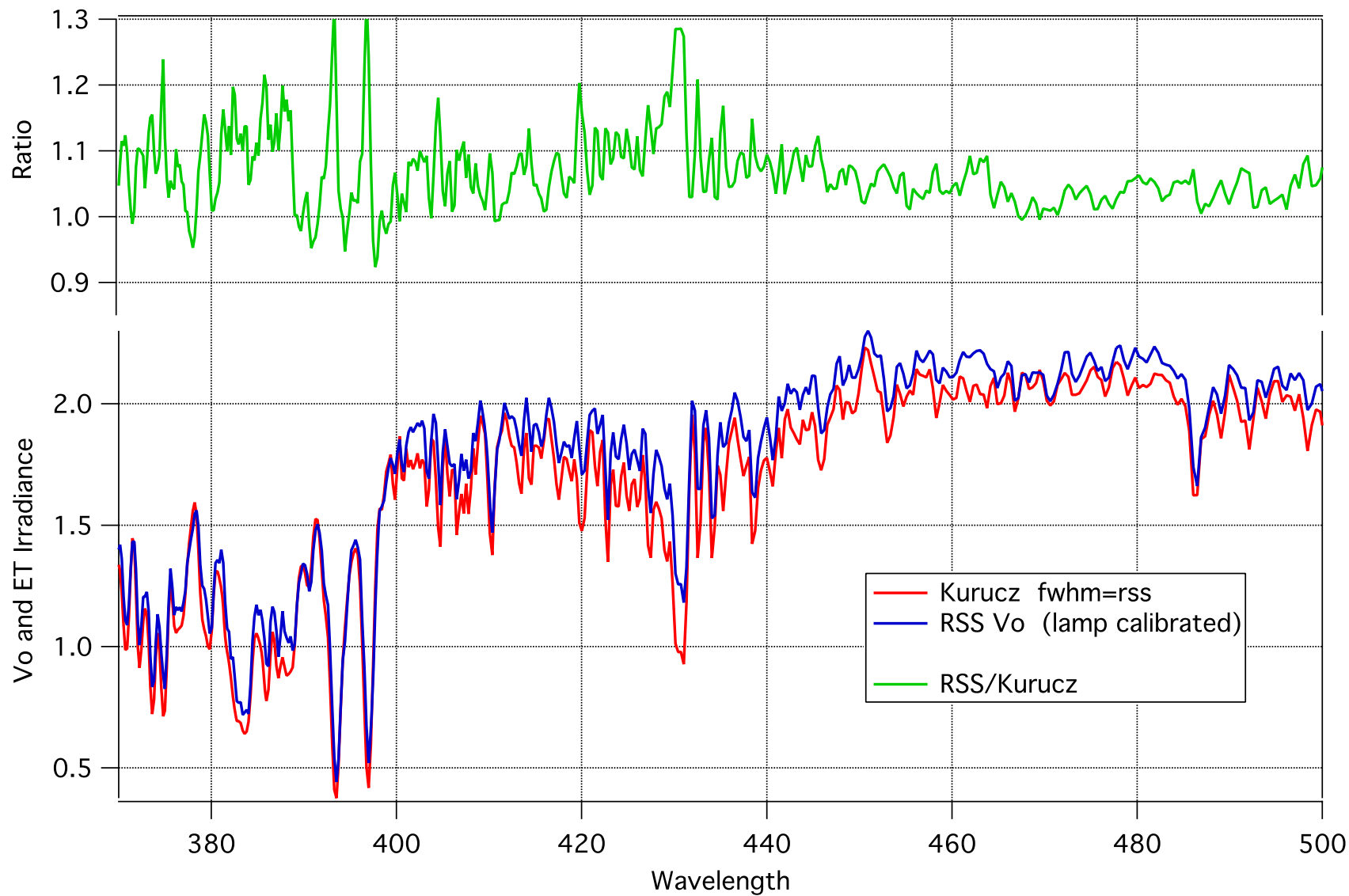
Stats of raw Vo's and filtered <Vo>'s



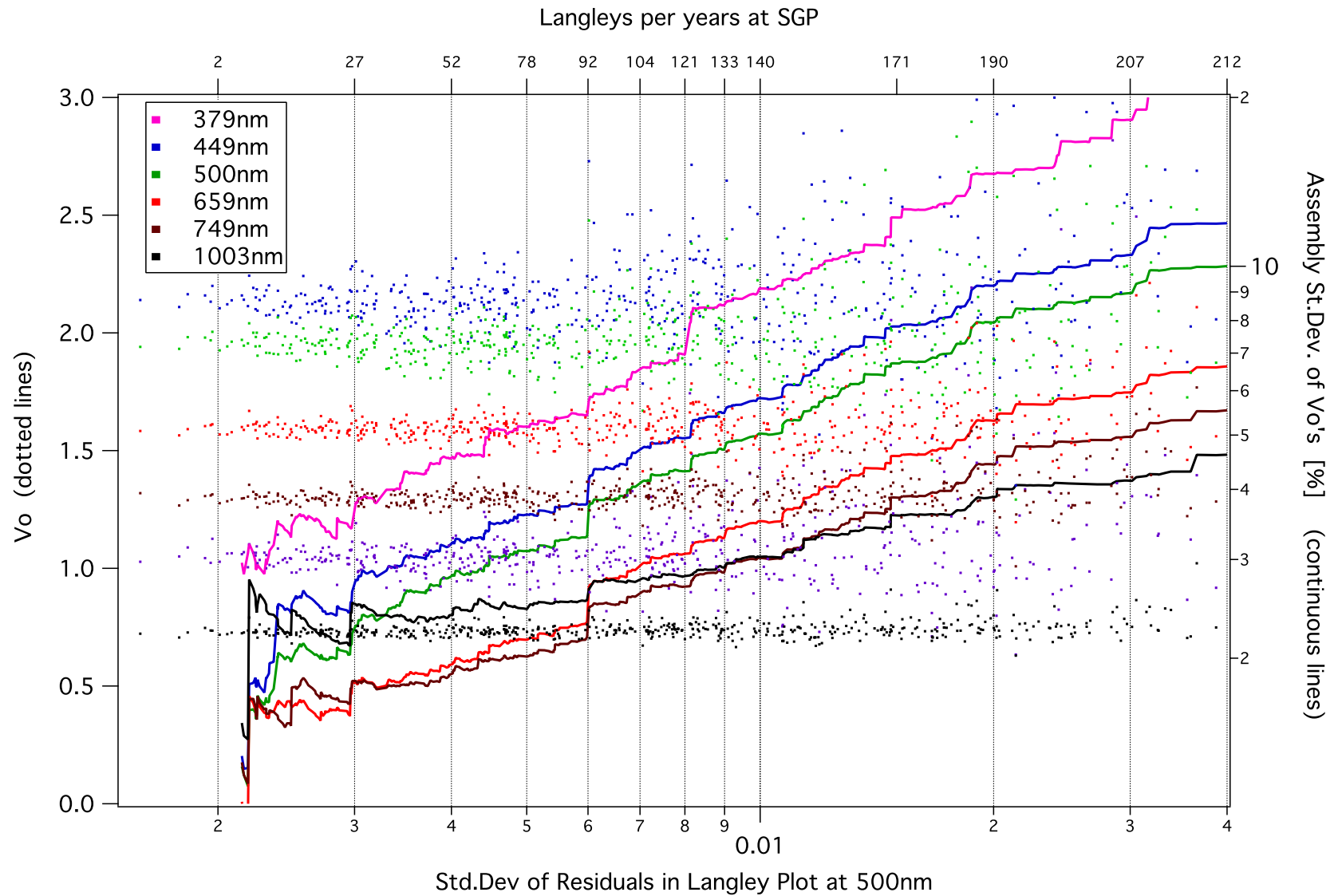
Air mass range, Std.Dev. and Npoints



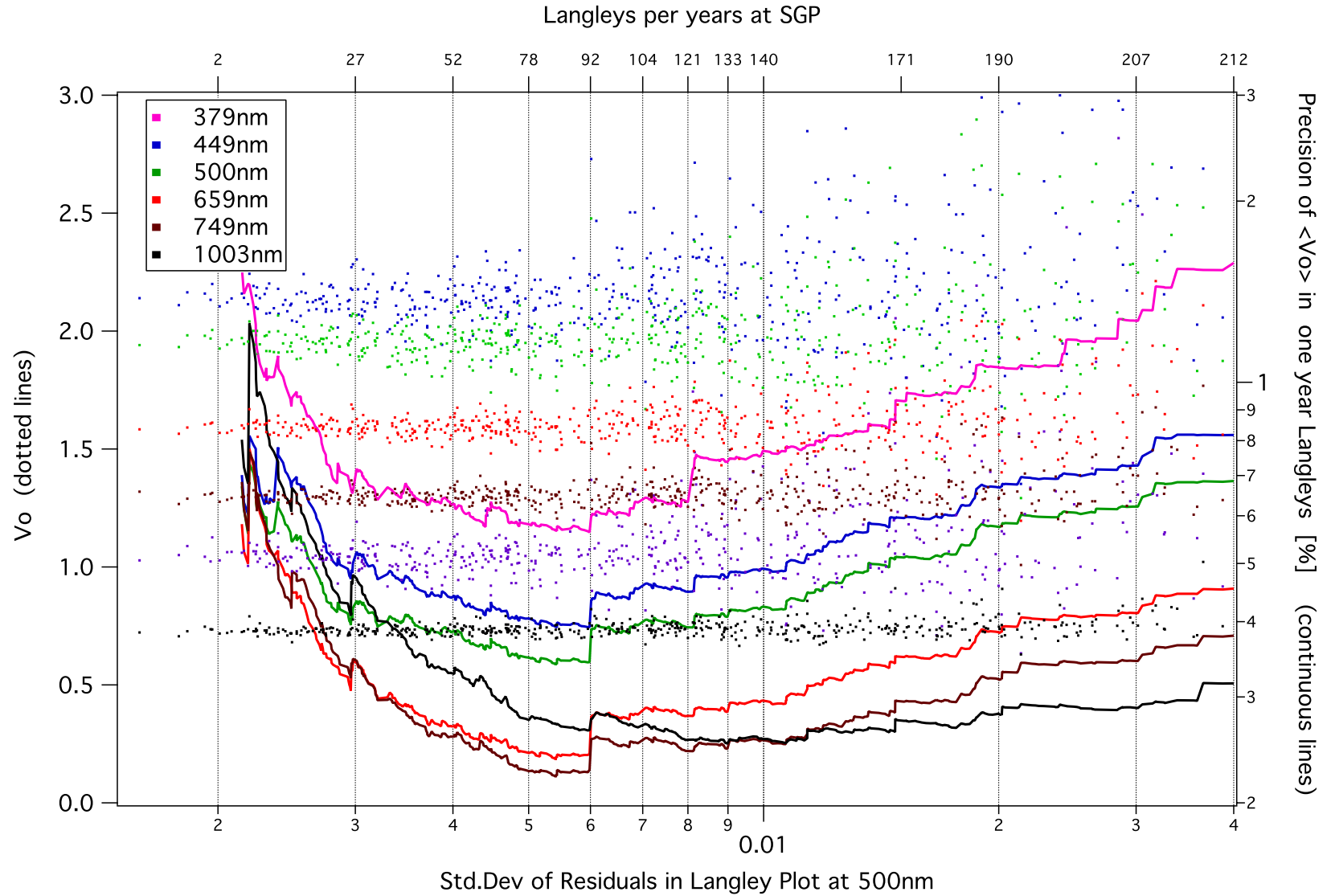
Vo's and Extraterrestrial Irradiance



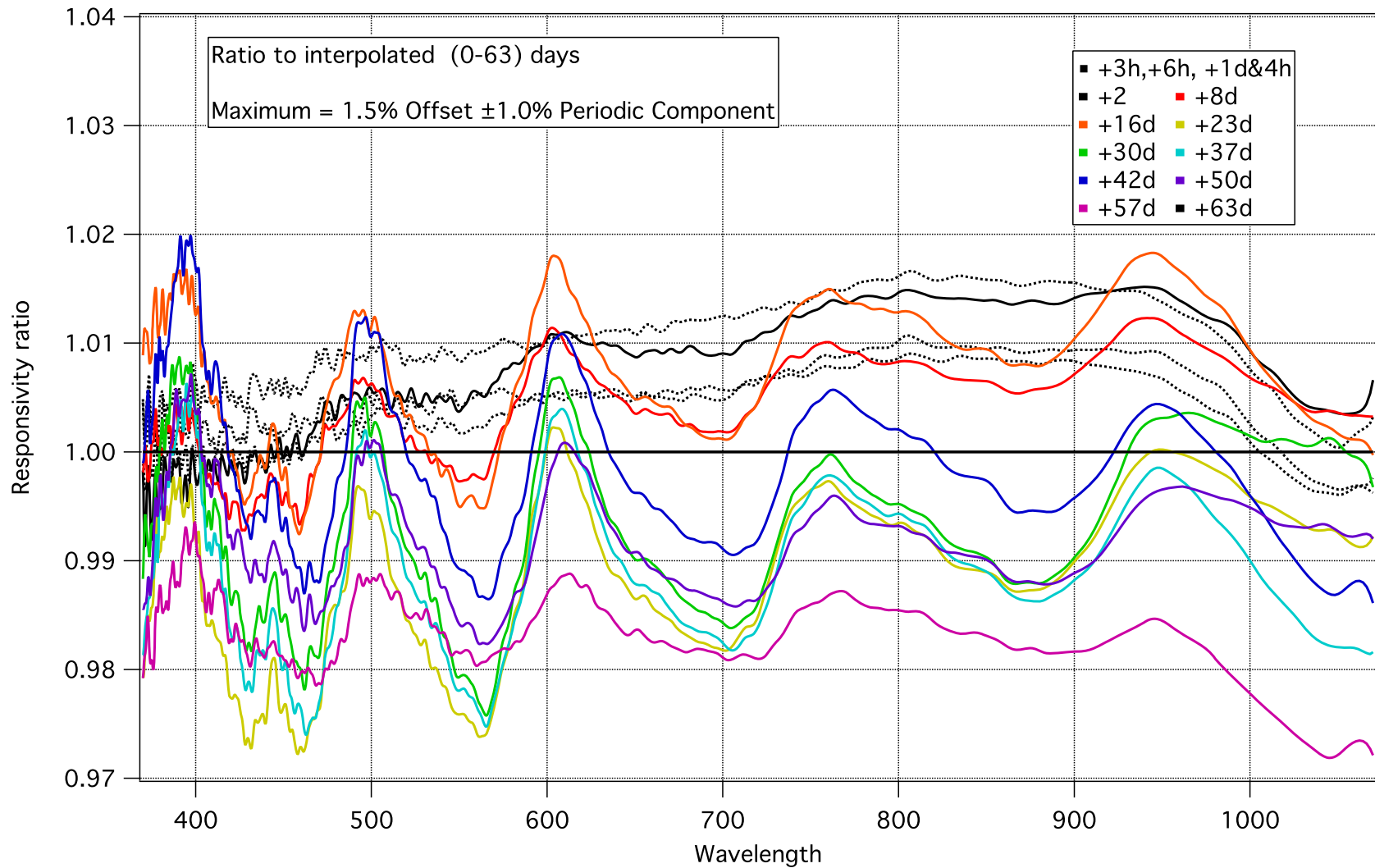
Langley Precision at SGP



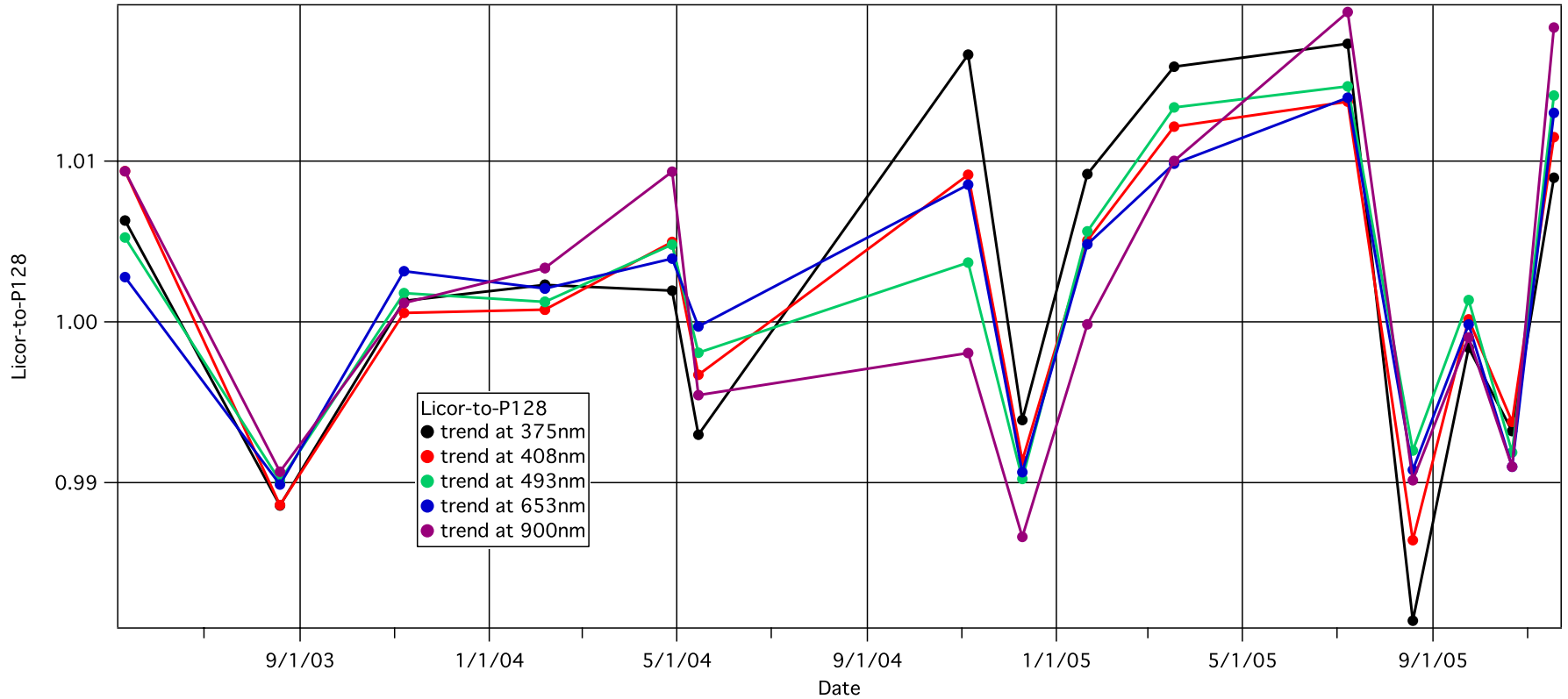
Langley Precision at SGP



Interpolated Responsivity



Calibrators Ratio Trend



Responsivity trends

