



EVE 2018 Rocket Comparisons

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With significant help from others!

Comparison Spectra

■ Measurements:

□ **EVE Rocket**

- June 18, 2018
- Version 3.9

□ **TIMED-SEE**

- Daily average for June 18, 2018, Version 6
- 5-27 nm from XPS L4 Model
- 27-105 nm from EGS L2

□ **SDO-EVE**

- Daily average for June 18, 2018, Version 11
- MEGS-B only

■ Models:

□ **NRLEUV2**

- Solar Minimum Reference Spectrum

□ **FISM2**

- Daily model for June 18, 2018

□ **WHI**

- Reference Spectrum
- Primarily from EVE Rocket on April 14, 2008



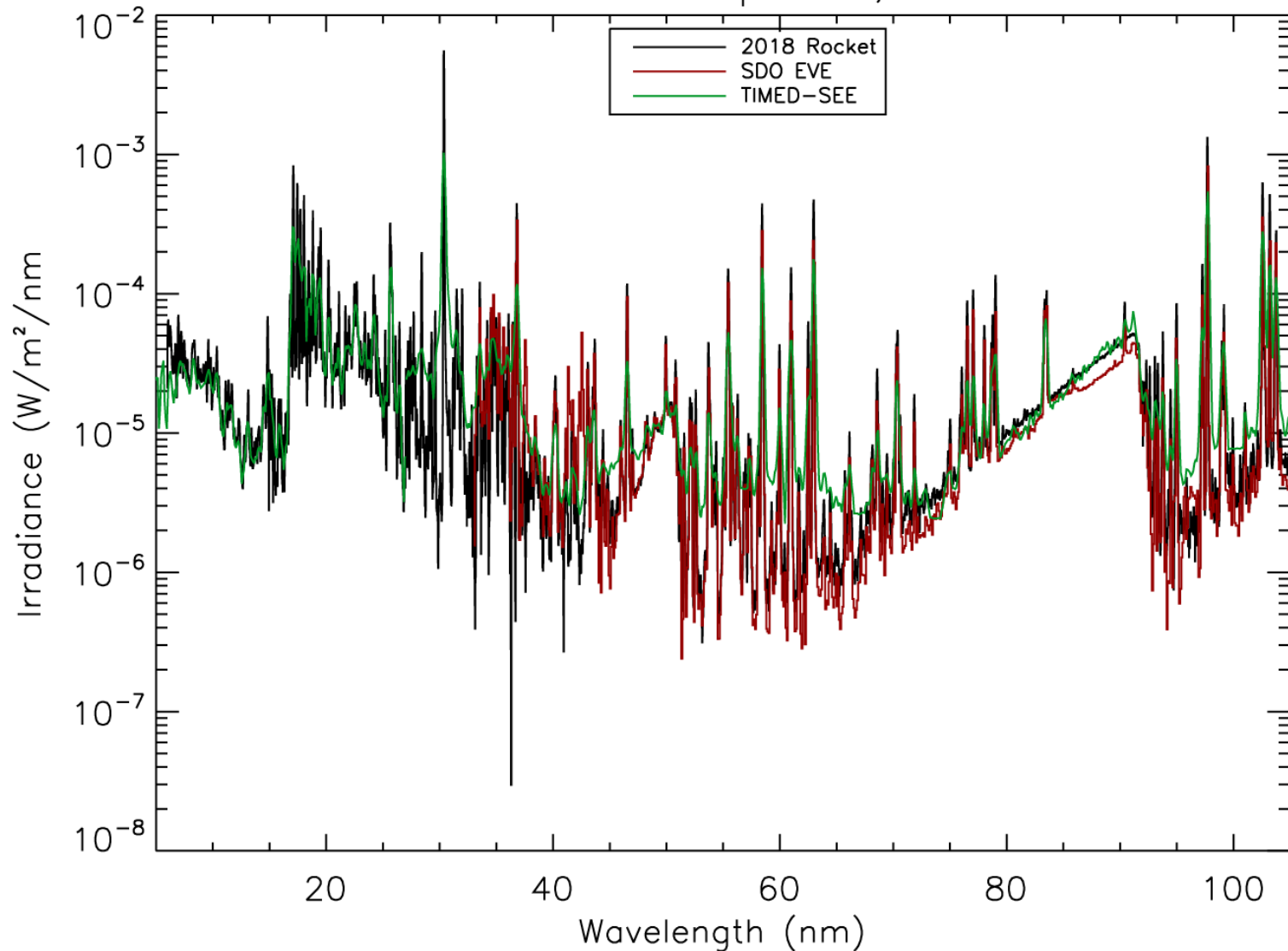
Improved Calibration Analysis for 2018 Rocket

- More robust dark removal algorithm
- Enhanced field of view analysis
- Modified order sorting routine
- Modified diffraction mask algorithm
- Better time offset adjustments between SSIM and SURF beam acquisition computer.

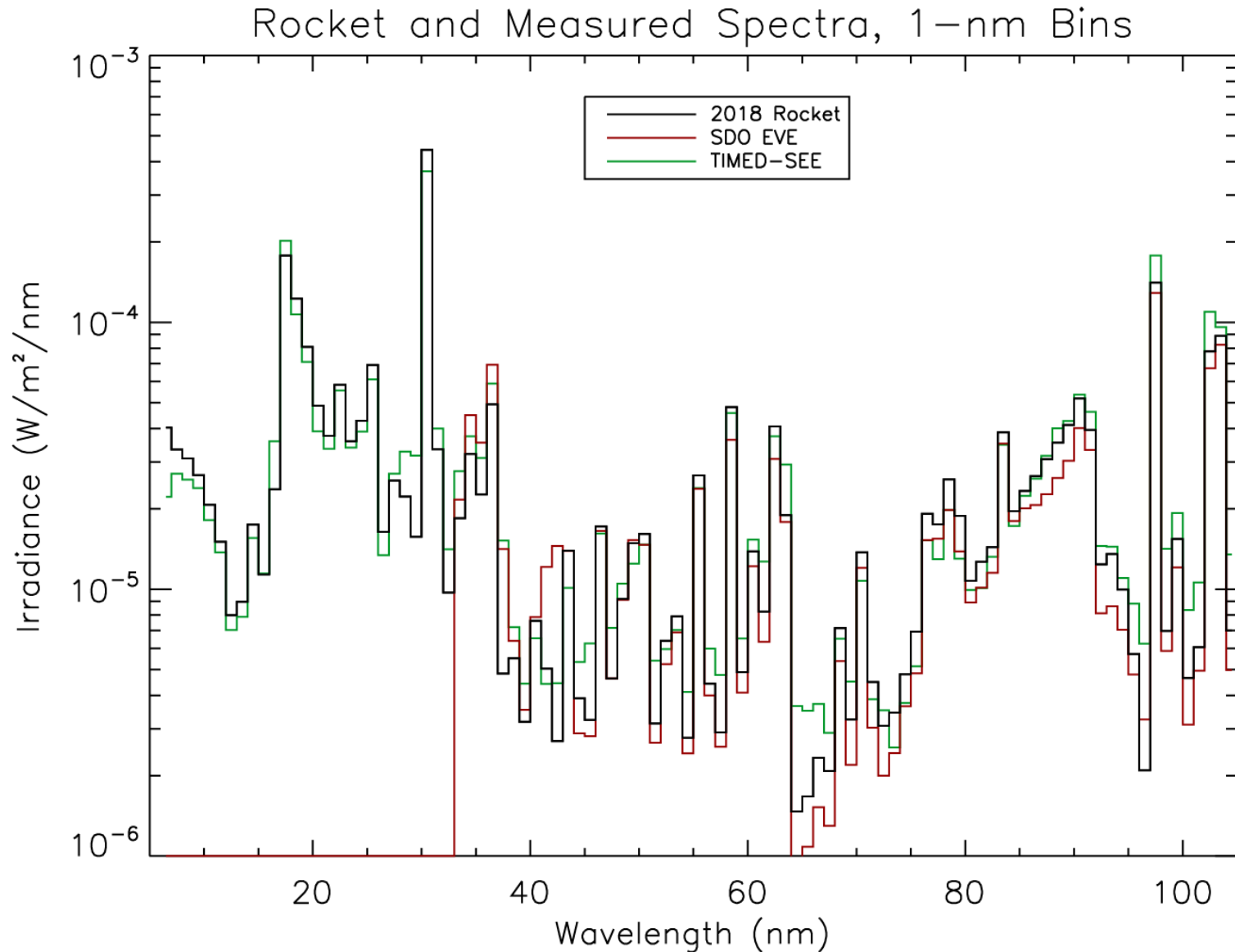


Full Resolution Spectra: Rocket and Measurements

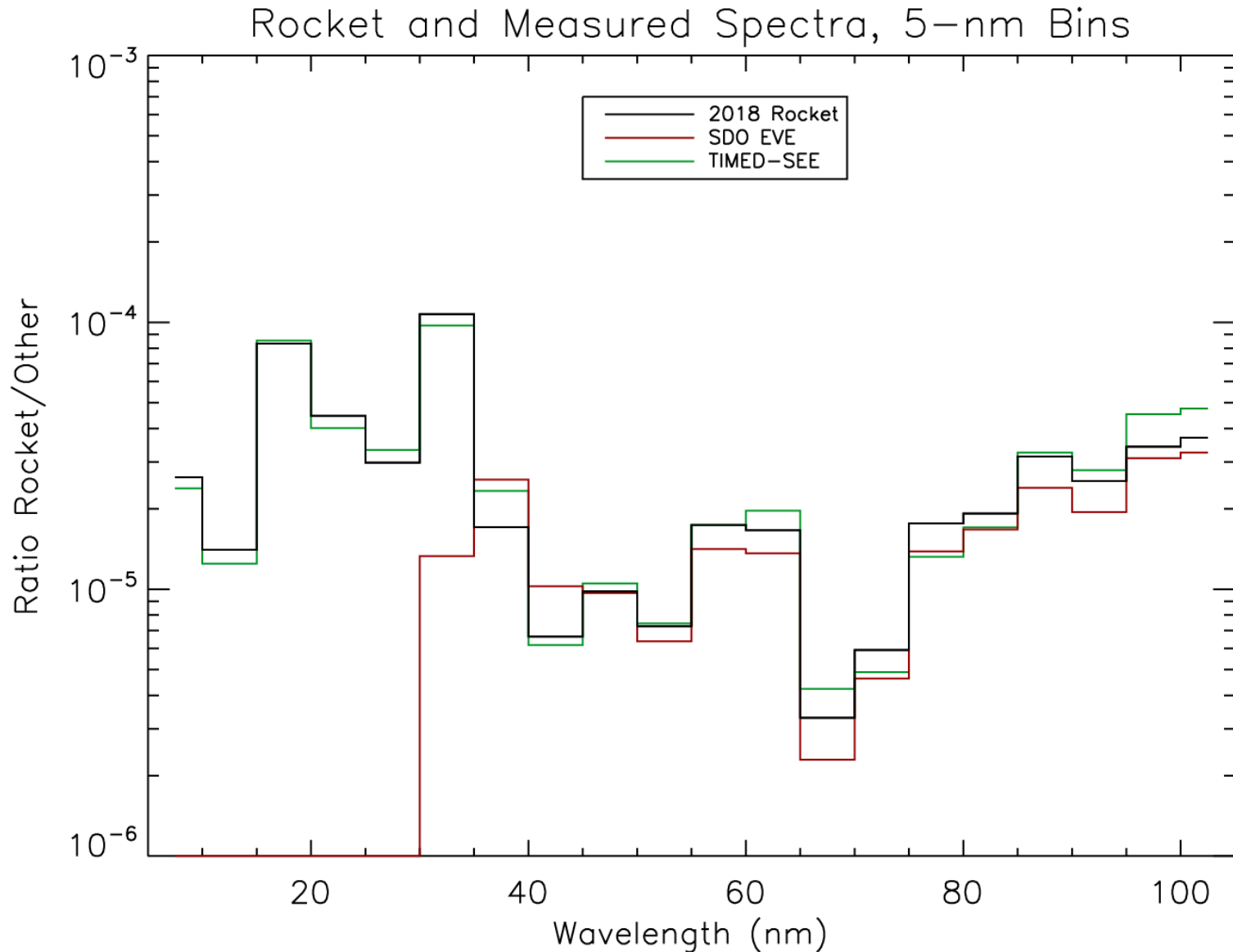
Rocket and Measured Spectra, Full Resolution



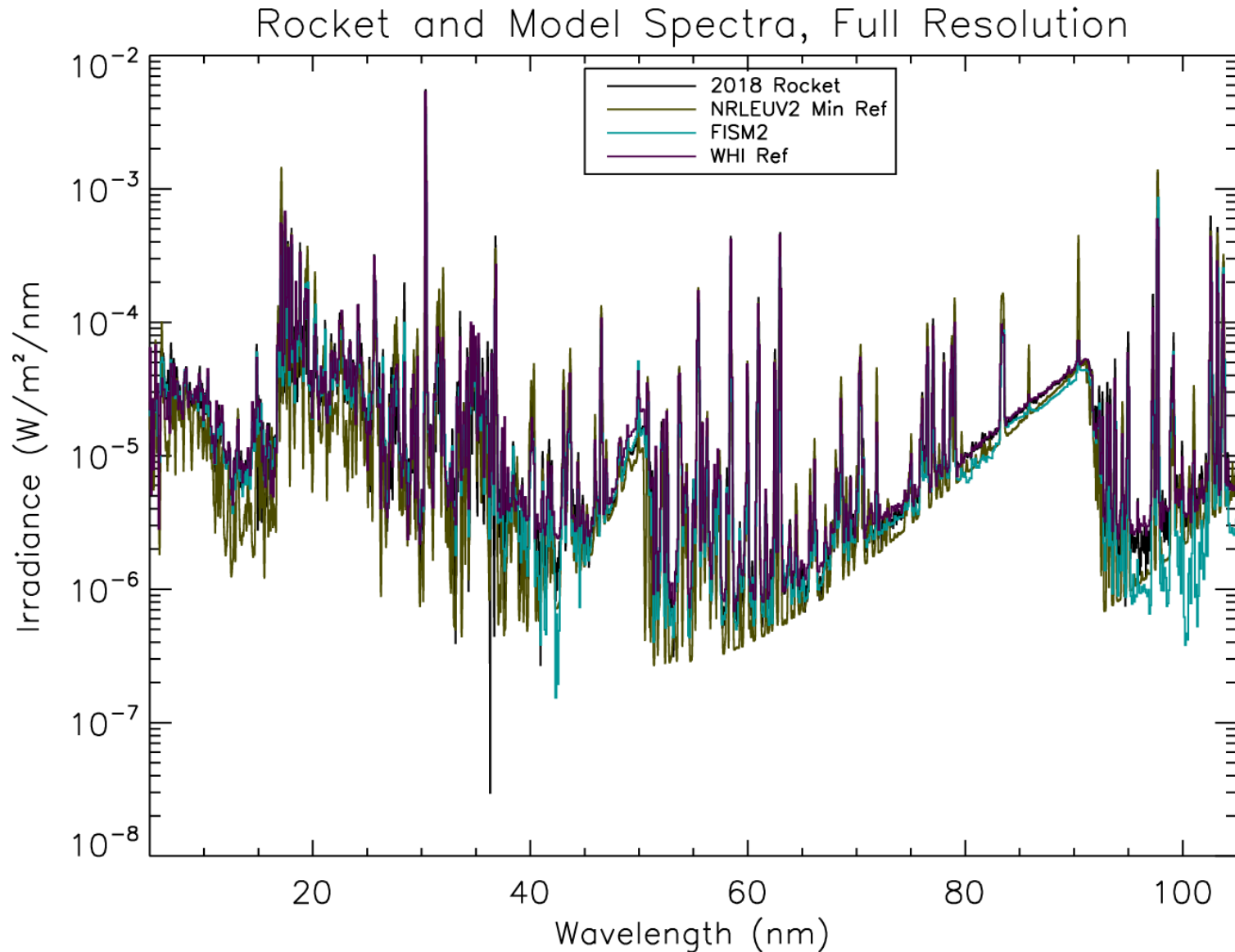
1-nm Binned Spectra: Rocket and Measurements



5-nm Binned Spectra: Rocket and Measurements

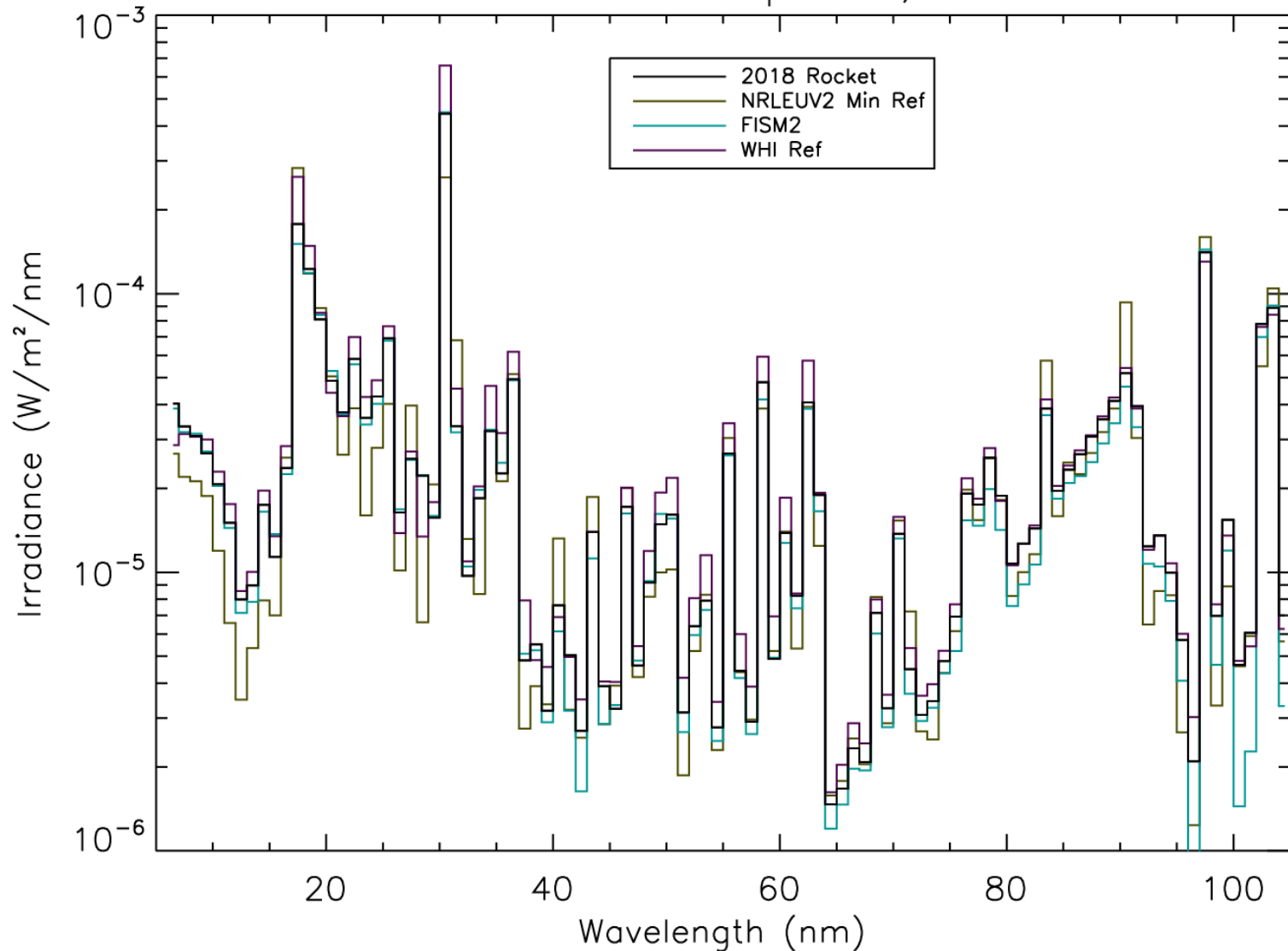


Full Resolution Spectra: Rocket and Models

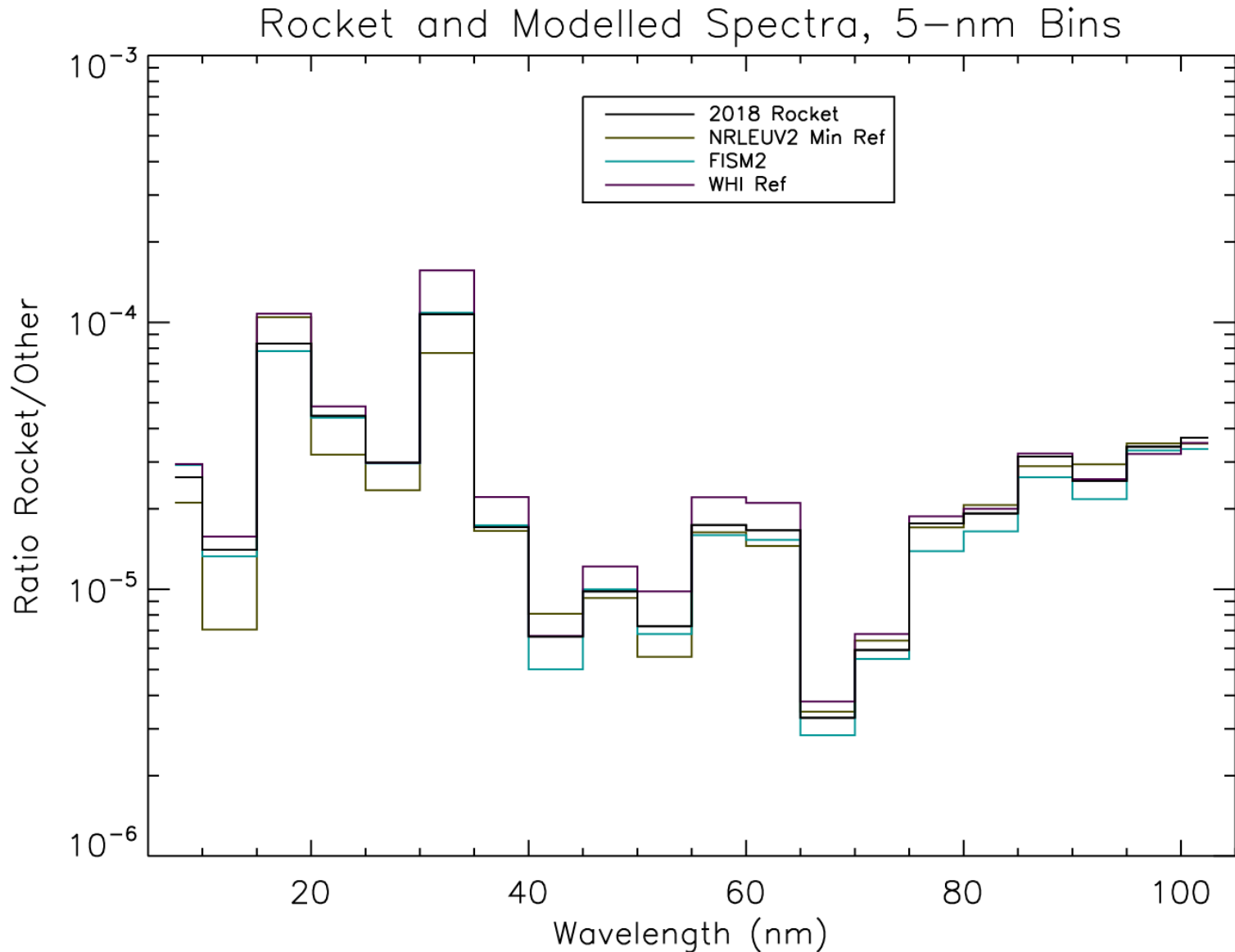


1-nm Binned Spectra: Rocket and Models

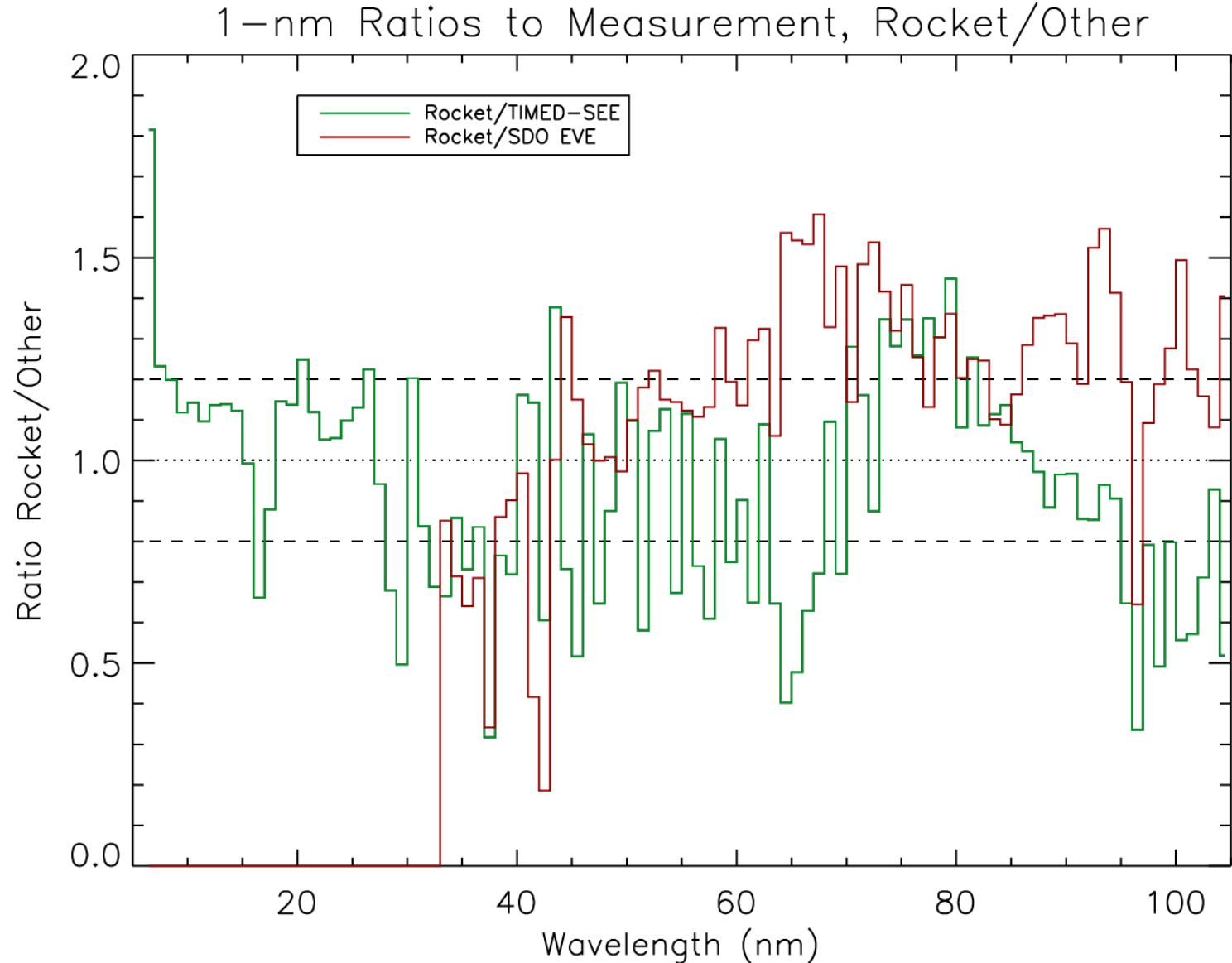
Rocket and Modelled Spectra, 1-nm Bins



5-nm Binned Spectra: Rocket and Models

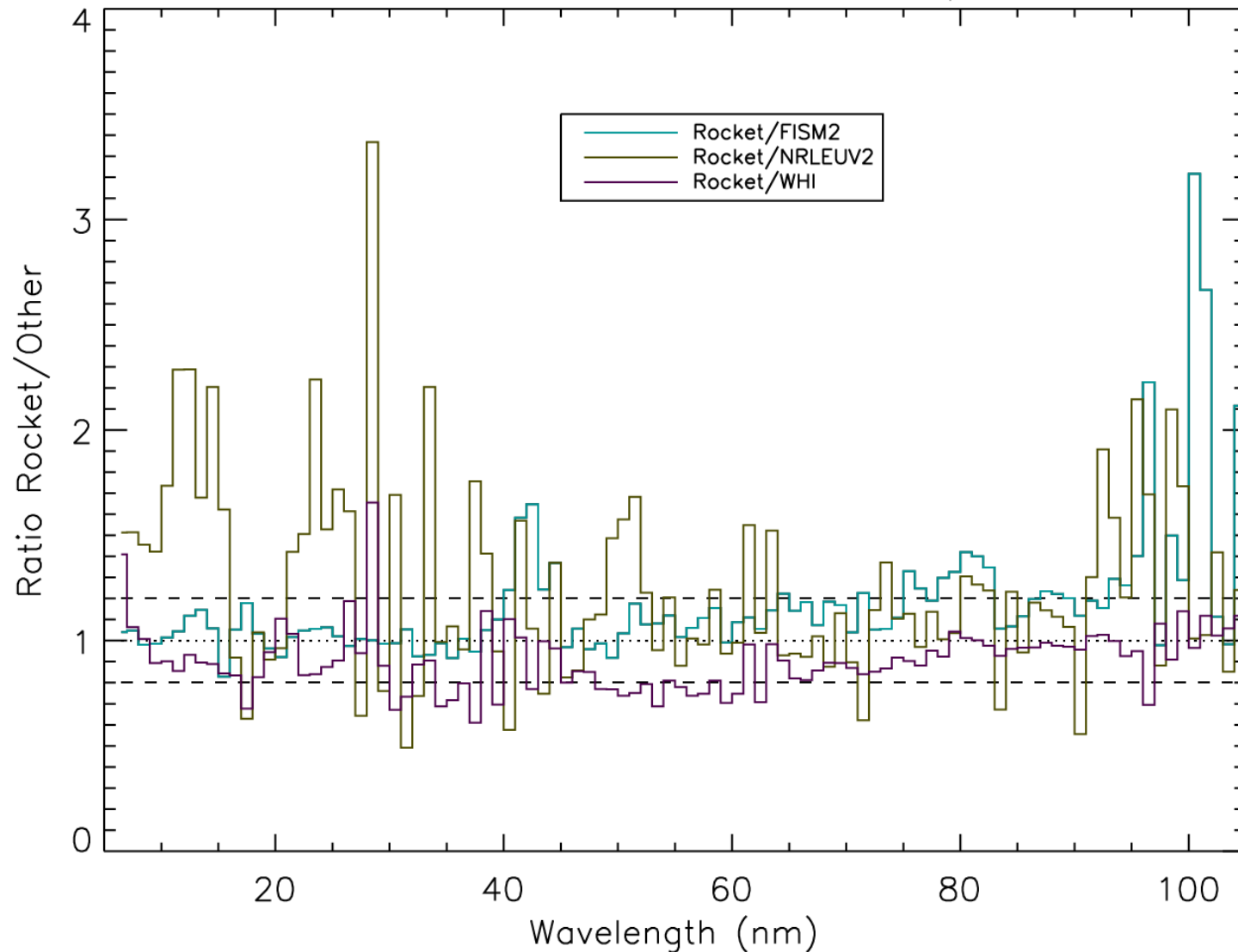


Ratios of 1-nm Spectra: Rocket to Measurements

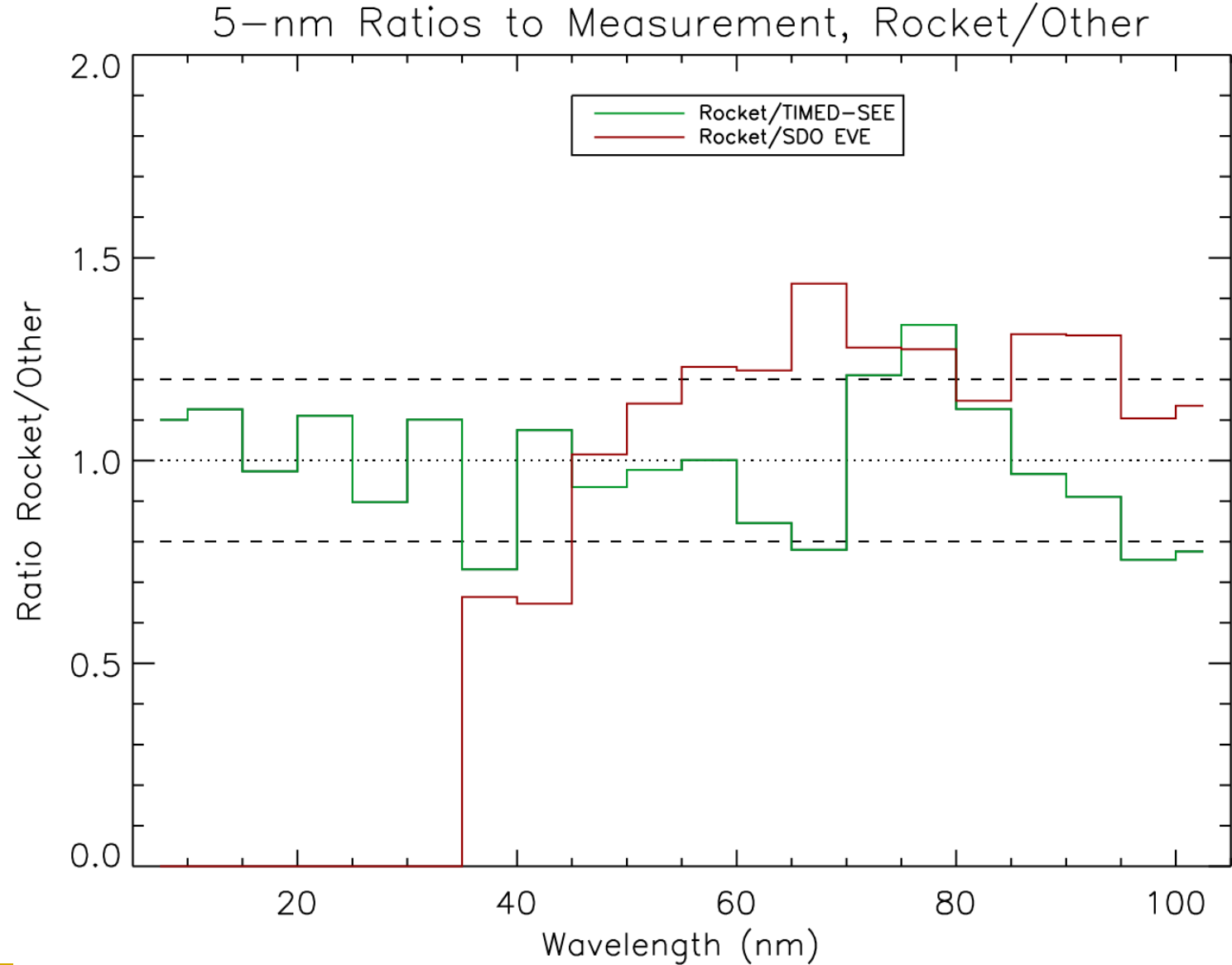


Ratios of 1-nm Spectra: Rocket to Models

1-nm Ratios to Models, Rocket/Other



Ratios of 5-nm Spectra: Rocket to Measurements



Ratios of 5-nm Spectra: Rocket to Models

