

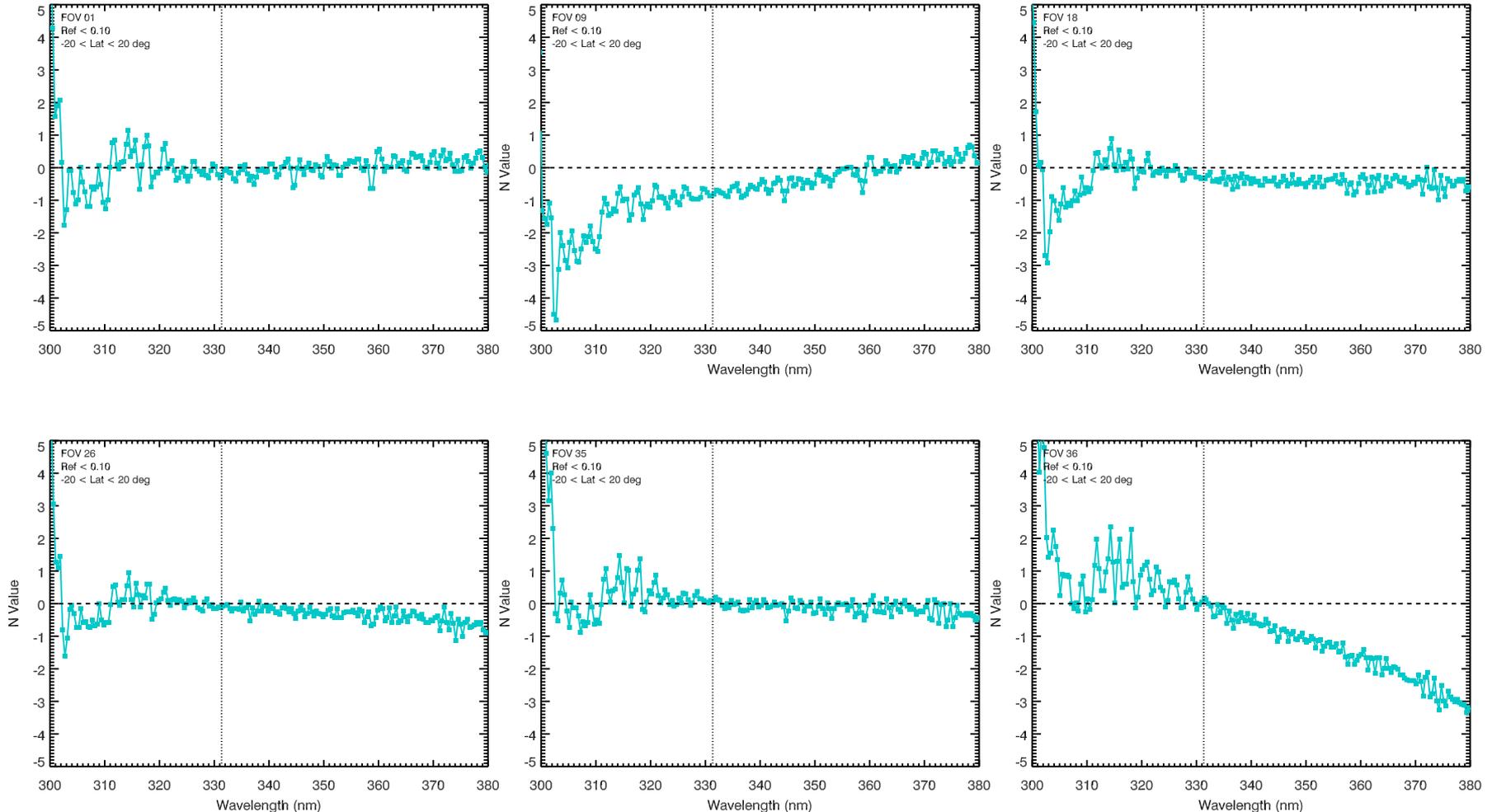


Where are we now?

- ▶ One and a half year's of data have been reprocessed
 - V8.6 total ozone / V8 nadir profile algorithms currently in place
- ▶ L2/L3 quality currently being assessed
- ▶ Analysis of L1B data currently underway
 - Results indicate wavelength-dependent normalized radiance errors within 2% (except for FOV 36)
 - "Soft" calibration being determined
 - Ice radiance for long wavelengths (> 340 nm)
 - OMPS/MLS matchups for short wavelengths (< 340 nm)
 - Validation from Steve Taylor

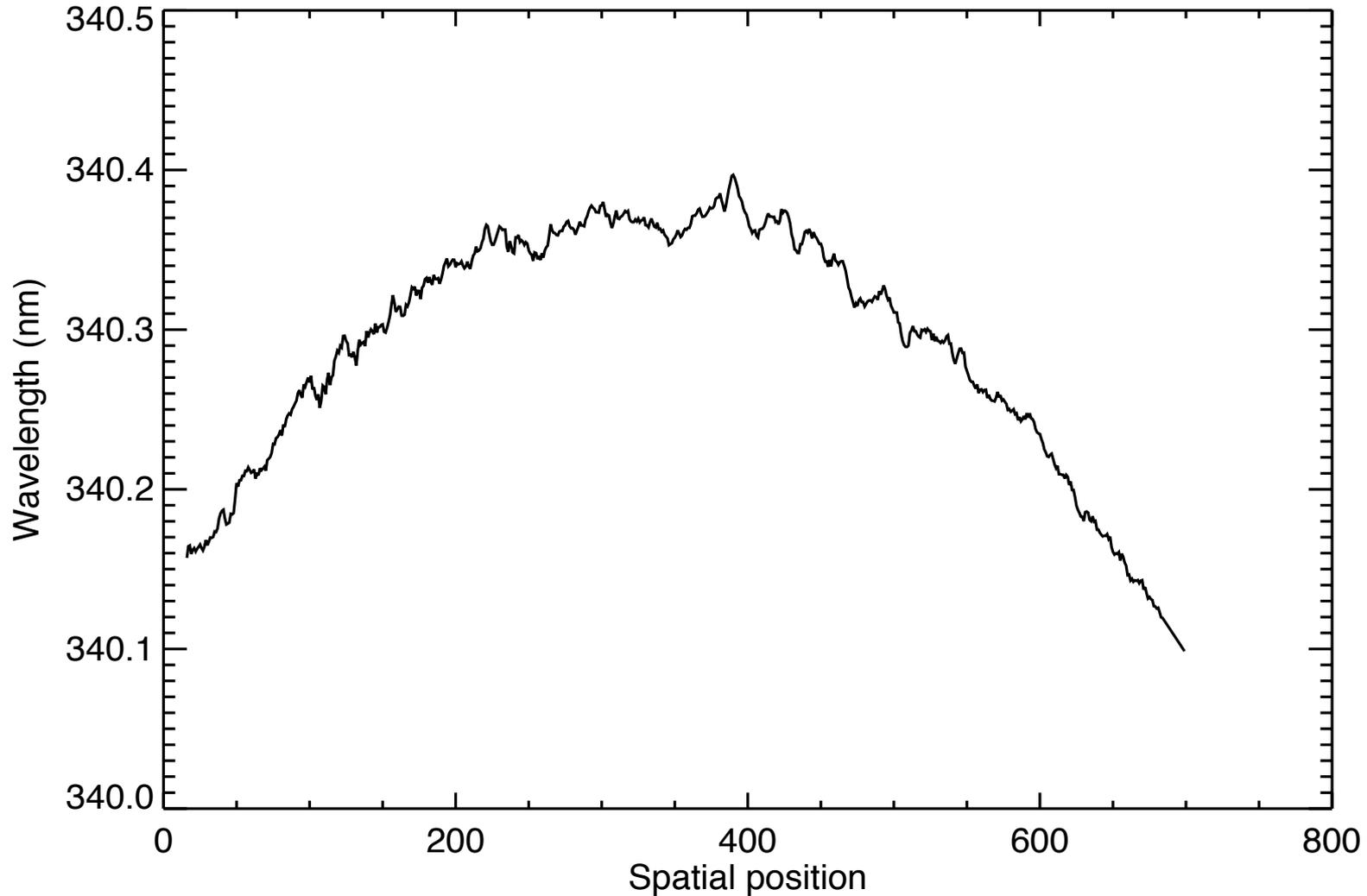


OMPS/MLS matchup for NM shows overall good performance





Wavelength registration out at end of CCD somewhat problematic



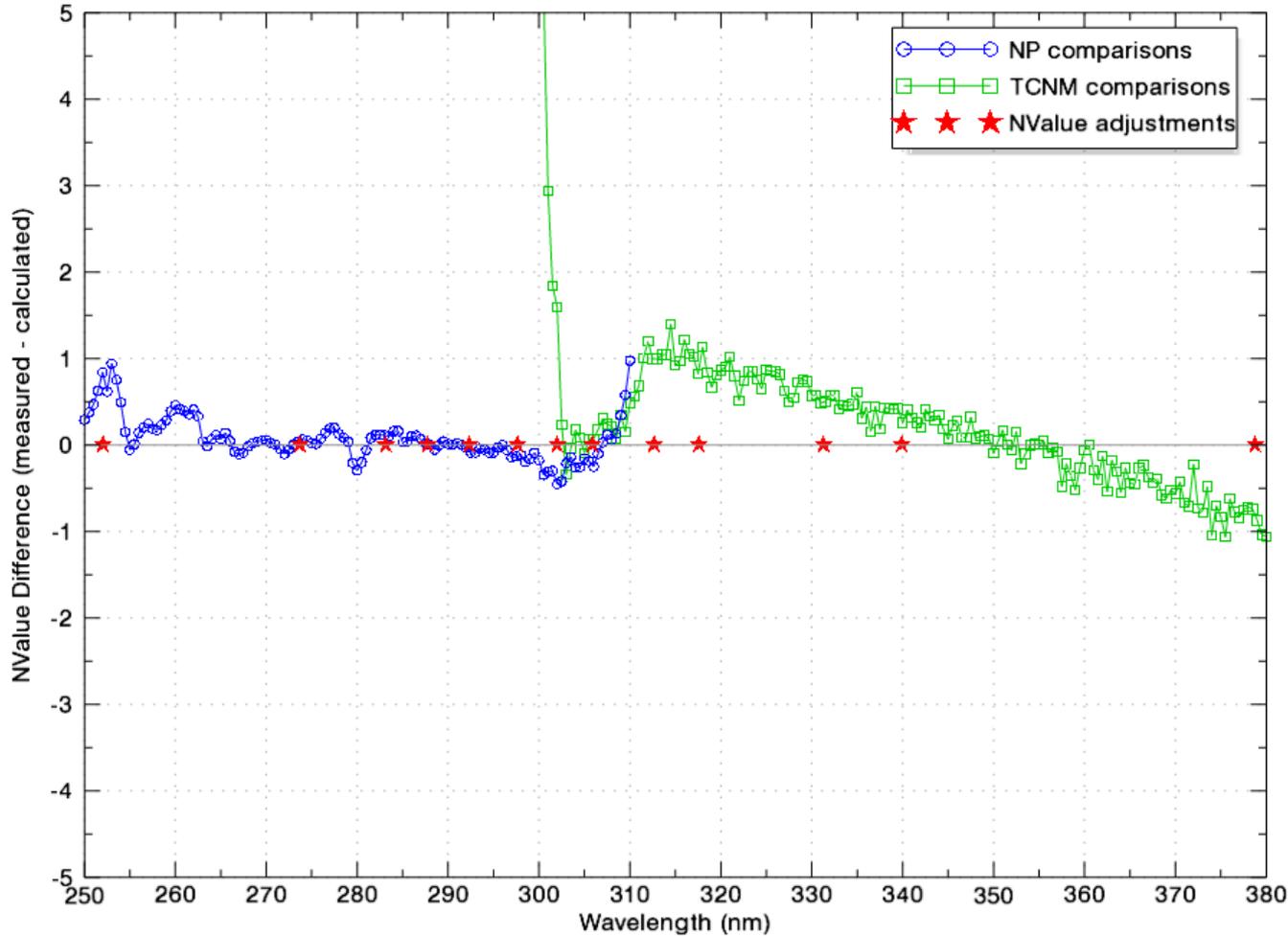


OMPS/MLS for NP matchup also shows good performance



OMPS and MLS Matchup NValue Differences for 04/2012

(latitudes = -60.0° to +60.0° // nMatchups = 157 // AS 85605)





Remaining NP issue



- ▶ Ball measured bandpass at various points across CCD
 - Fit to the measured data provided bandpasses for the full CCD
- ▶ Analysis indicated measurements incorrect at 295 nm
- ▶ We refit the data, excluding 295 nm
 - Different fits were applied
 - Currently analyzing which fit produces the best data
 - Make new tables for NP algorithm, run an orbit (maybe a day), look at residuals
 - Once best fit is determined, will redo soft calibration, L2



Where are we going?



► Version 2

■ Forward processing

- Once soft calibration in place, freeze V2 system
- Begin forward processing, continue through ozone hole season
- Still using V8.6 total ozone / V8 nadir profile algorithms
- NASA has just begun (within the last week) providing RDRs directly to the SIPS
 - In “Near real-time” mode (session-based)
 - In 2-hour “chunks”
 - Usually within 6 hours of measurement
 - **We will now do away with our 4-day processing delay**

■ Reprocessing

- Process rest of dataset through to L1B
- Once soft calibration in place, reprocess whole dataset through L2/L3



Where are we going?



► Version 3

- ROSES proposal pointed to V9 total ozone algorithm for released NASA product
 - V9 ready to be implemented with OMPS data
 - Needs testing / analysis / etc
- New version of L1A will be in place
 - Will “catch” a little bit more of the data
- Will probably want to tweak L1B
 - There is a newer version of the stray light correction
- Optimistically speaking, we may have V3 by Spring 2016
 - More likely summer 2016