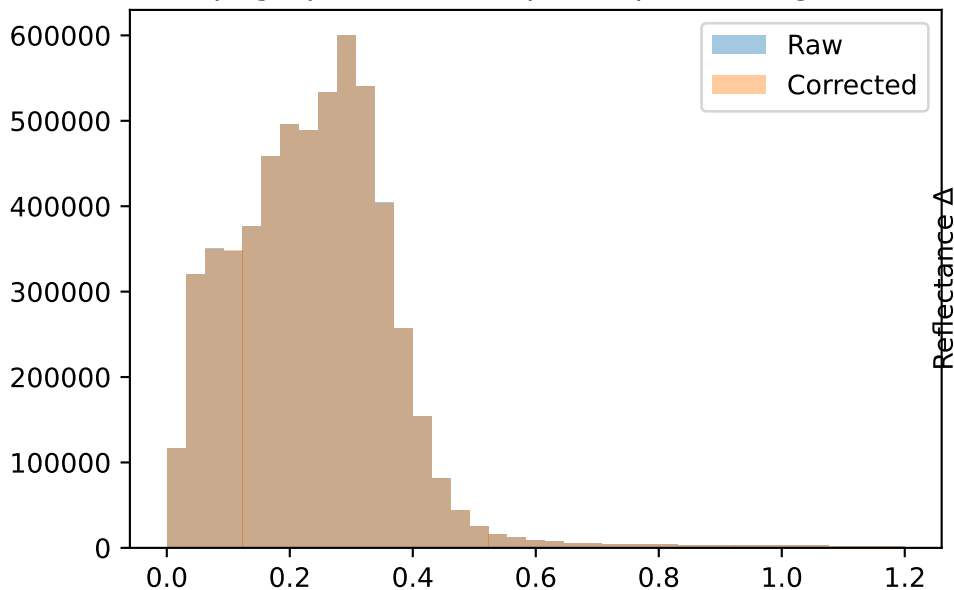


ENVI product overview - NEON_D10_R10C_DP1_L002-1_20210915_directional_reflectance



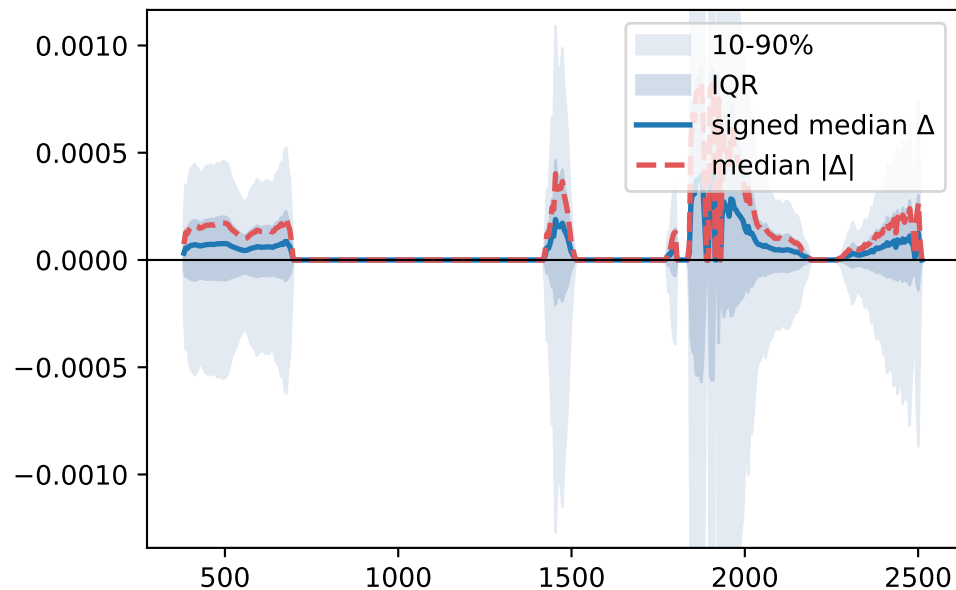
Topographic + BRDF diagnostics - NEON_D10_R10C_DP1_L002-1_20210915_directional_reflectance

Topographic + BRDF: pre vs post histograms

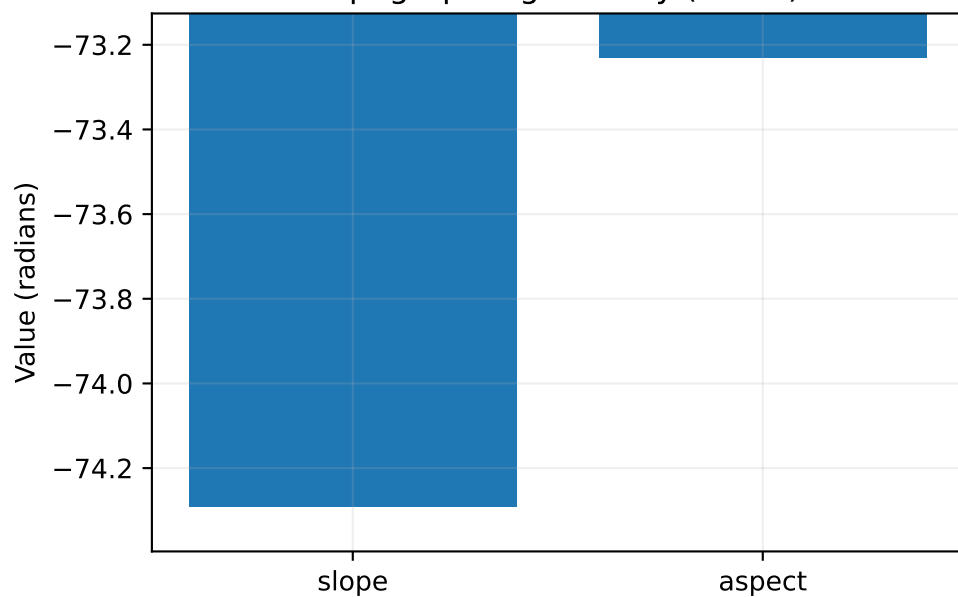


Topographic + BRDF: Δ median vs λ (before filtering)

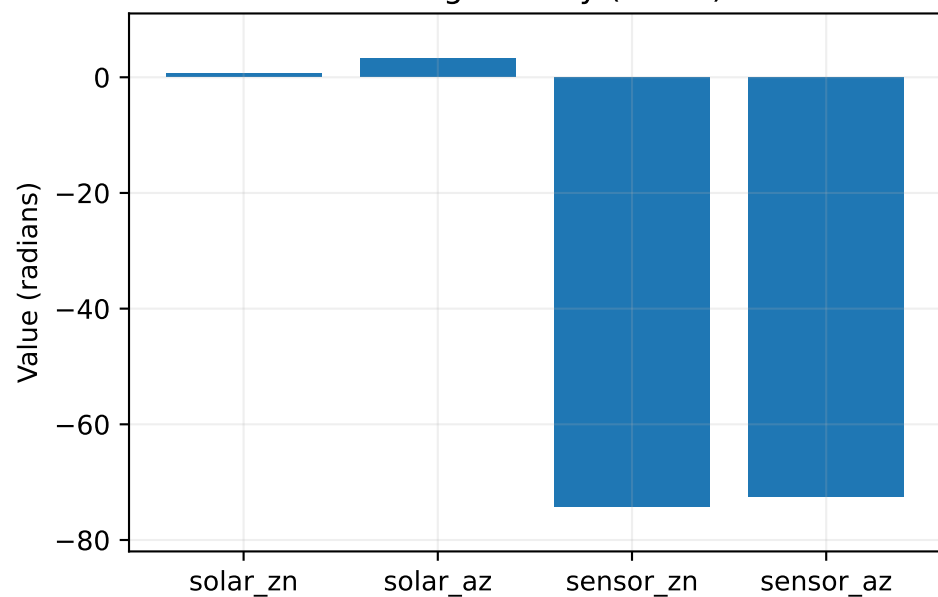
(Note: -9999 values excluded from delta calculation)



Topographic geometry (mean)

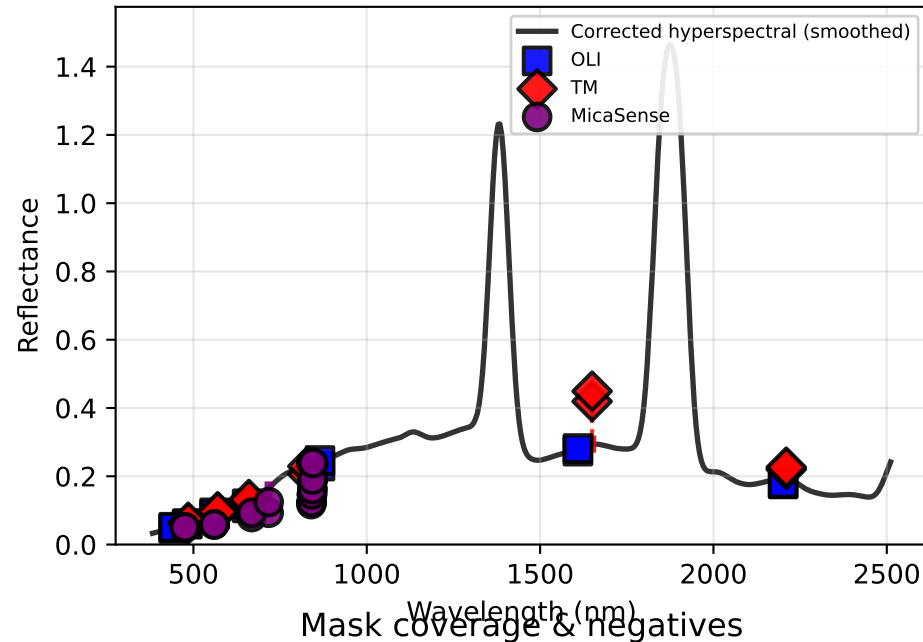


BRDF geometry (mean)



Additional QA diagnostics - NEON_D10_R10C_DP1_L002-1_20210915_directional_reflectance

Corrected Reflectance vs Wavelength
(Convolved bands marked on spectrum)



=== ENVI Cube (Before Filtering) ===

Total pixels: 2,541,671,490

Valid pixels: 1,459,261,296

Valid %: 57.41%

Negatives %: 0.00%

>1.2 reflectance %: 5.93%

=== Filtered Parquet (After Filtering) ===

Rows: 25

Spectral columns: 484

Valid %: 100.00%

Negatives %: 0.00%

>1.2 reflectance %: 99.98%

No-data %: 0.00%

Header / wavelength integrity

Header keys present: wavelength, fwhm

Header keys missing: band names

Wavelength unit: nanometers

n_bands: 426

finite wavelengths: 426

first_nm: 381.67059326171875

last_nm: 2510.847412109375

monotonic: True

source: header

Issues & brightness adjustments

⚠ Header missing: band names

⚠ 5.93% pixels > 1.2 reflectance

No brightness adjustment applied.

Parquet File Inventory

=== Parquet Files ===
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.6 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.6 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
NEON_D10_R10C_DP1_L002-1_20210915_directional_refl: 0.0 MB
... and 3 more files

Total: 18 files, 2.0 MB

Merge Status

=== Merge Status ===
OK: Merged file exists
Rows: 25
Columns: 929

=== Input Files ===
Original: 0
Corrected: 1
Resampled: 16
Total inputs: 17

Column Listing & Summary

=== Column Summary ===
Total columns: 929

Spectral columns:
Total: 910
Raw: 426
Corrected: 426
Convolved: 58

Metadata columns: 19

=== Sample Column Names ===
Corrected (showing 8 of 426):
• corr_b001_wl0382nm
• corr_b002_wl0387nm
• corr_b003_wl0392nm
• corr_b004_wl0397nm
• corr_b005_wl0402nm
• corr_b006_wl0407nm
• corr_b007_wl0412nm
• corr_b008_wl0417nm
... and 418 more

Convolved sensors:
ETM+ (12 bands):
• etm+etm+_b001_wl0485nm
• etm+etm+_b002_wl0560nm
• etm+etm+_b003_wl0660nm
• etm+etm+_b004_wl0835nm
• etm+etm+_b005_wl1650nm
... and 7 more
MicaSense (20 bands):
• micasense_b001_wl0475nm
• micasense_b002_wl0560nm
• micasense_b003_wl0668nm
• micasense_b004_wl0717nm
• micasense_b005_wl0840nm
... and 15 more
OLI (14 bands):
• olioli_b001_wl0443nm
• olioli_b002_wl0482nm
• olioli_b003_wl0561nm
• olioli_b004_wl0655nm
• olioli_b005_wl0865nm
... and 9 more
TM (12 bands):
• tmtm_b001_wl0485nm
• tmtm_b002_wl0570nm
• tmtm_b003_wl0660nm
• tmtm_b004_wl0830nm
• tmtm_b005_wl1650nm
... and 7 more

Metadata (showing 8 of 19):
• col
• crs
• description
• epsg
• flight_id
• fwhm_nm
• lat
• lon
... and 11 more

Quality Checks

OK: Merged parquet exists
WARN: Original ENVI: 0 files
OK: Corrected: 1 file(s)
WARN: No resampled products found