SZA = 75° SZA = 50° SZA = 30° SZA = 15°

New hybrid sky radiance scans – only possible with the new Model-t cimel instrument

This allows for significantly larger scattering angle measurements at smaller SZA

Black: 0<= angle <6.5
Red: 6.5 <= angle <31
Blue: 31 <= angle <81
Green: angle >= 81

These ranges are similar to the scattering angle bin ranges used for V2 level 2.0 inversion criteria:

Minimum binned scattering angle requirements for each λ:
≥3.2 to 6.0: at least 2 in range
≥6.0 to 30.0: at least 5 in range
≥30.0 to 80: at least 4 in range
≥80.0: at least 3 in range