

# **SOP #4**

AERONET Sun Photometer Data

All SPARTAN analysis is completed using level 2.0 data when available, otherwise level 1.5 can be used. A description of the main difference between level 1.0, 1.5 and 2.0 data is shown in Table 4. Data is downloaded for full years, even though the files may not be complete. All-point spectral deconvolution algorithm data is used. AOD at 550 nm is inferred from AOD retrieved at 500 nm and 675 nm using the angstrom exponent. All-point data is averaged into hourly means, and then into averages during satellite-overpass times (10:00 – 12:00 and 13:00 – 15:00 local time).

<b>Level</b>	<b>AERONET Quality-Assured?</b>	<b>Description of Data Product</b>
<b>1.0</b>	<b>No</b>	<b>Unscreened and may not have final calibration applied</b>
<b>1.5</b>	<b>No</b>	<b>Automatically cloud cleared but may not have final calibration applied.</b>
<b>2.0</b>	<b>Yes</b>	<b>Pre- and post-field calibrated, automatically cloud cleared and manually inspected.</b>

<b>REVISION HISTORY</b>			
<b>Revision No.</b>	<b>Change Description</b>	<b>Date</b>	<b>Authorization</b>
1.0		July 11, 2015	Graydon Snider