

Table 1. Statistics Comparing the Satellite Angstrom Exponent Observations Using Lowest Cost Speciation (LC) and Our New Speciation (NEW) Against Level 2 AERONET Ground-Based Observations Between January 2004 and January 2008 Over Ascension Island and Cape Verde

Location	Speciation	Correlation	RMS	Mean Difference (Retrieval - AERONET)	Mean Absolute Difference
Ascension Island	LC	0.26	0.46	0.07	0.37
Ascension Island	NEW	0.40	0.45	0.17	0.36
Cape Verde	LC	0.13	0.48	0.30	0.35
Cape Verde	NEW	-0.10	0.33	0.22	0.29

aRetrieved daily mean Angstrom Exponent is averaged over a 0.25 degree box centered on the AERONET location.