Satellite Aerosol Validation

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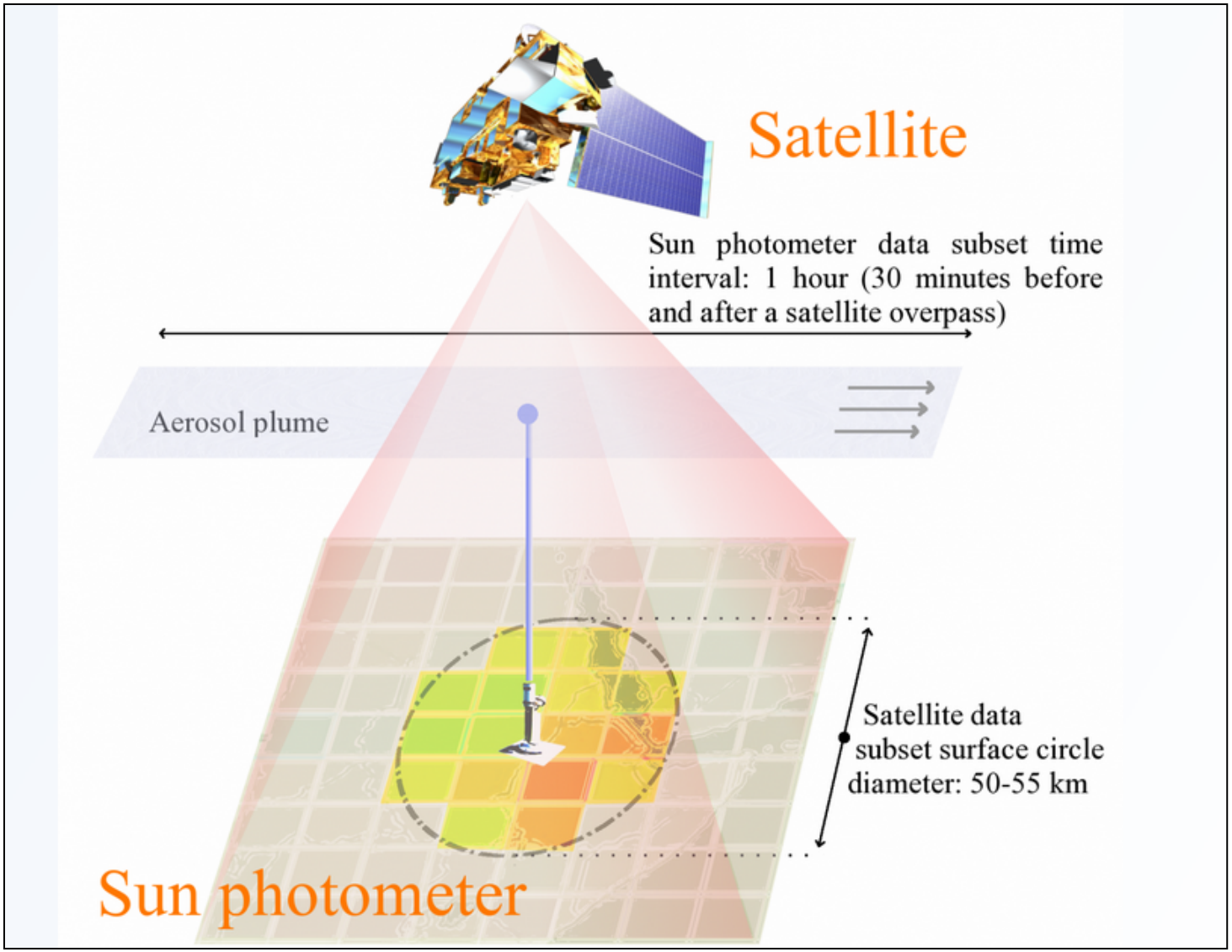
http://darktarget.gsfc.nasa.gov/

Spatial and Temporal Collocation



MODIS Dark Target AOD Uncertainties

MODIS 10 Km Product

	Collection 5		Collection 6 (Interim Values)	
	Ocean	Land	Ocean	Land
Aqua	+/- (0.03 τ + 5%)	+/-(0.05 τ + 15%)	(-0.02 τ - 10%) (+0.04 τ + 10%)	+/-(0.05 τ + 15%)
Terra	+/- (0.03 τ + 5%)	+/-(0.05 τ + 15%)	Data not yet available	Data not yet available

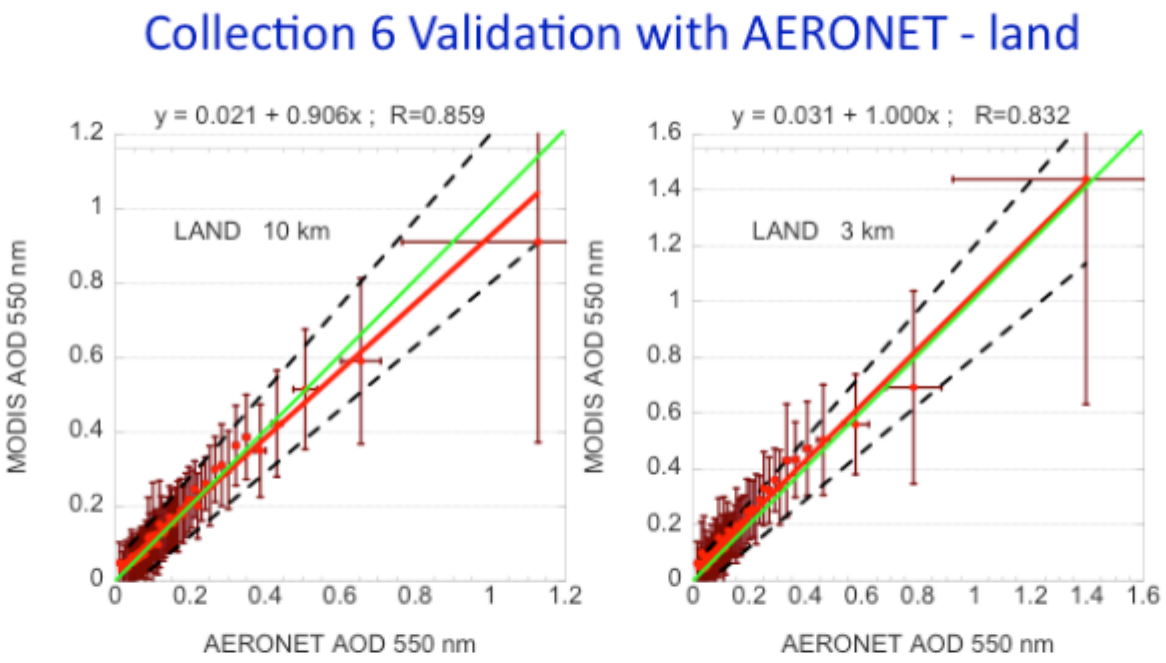
MODIS 3 km Product Uncertainty Values for Collection 6 (Interim Values)

	Ocean	Land
Aqua	+/- (0.04 τ +5%)	+/- (0.05 τ + 20%)
Terra	Data not yet available	Data not yet available

Preliminary Validation Results of Collection 6

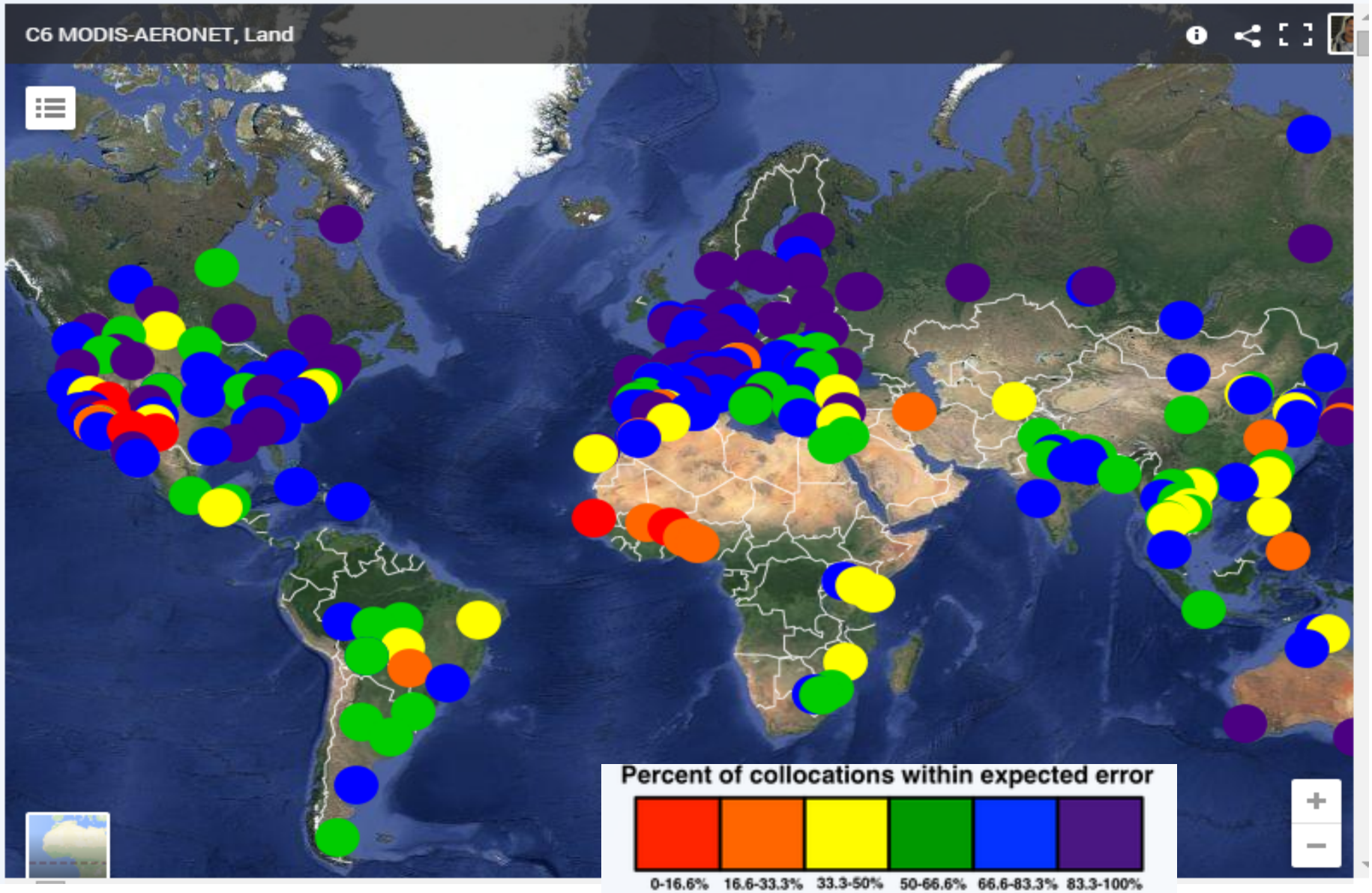
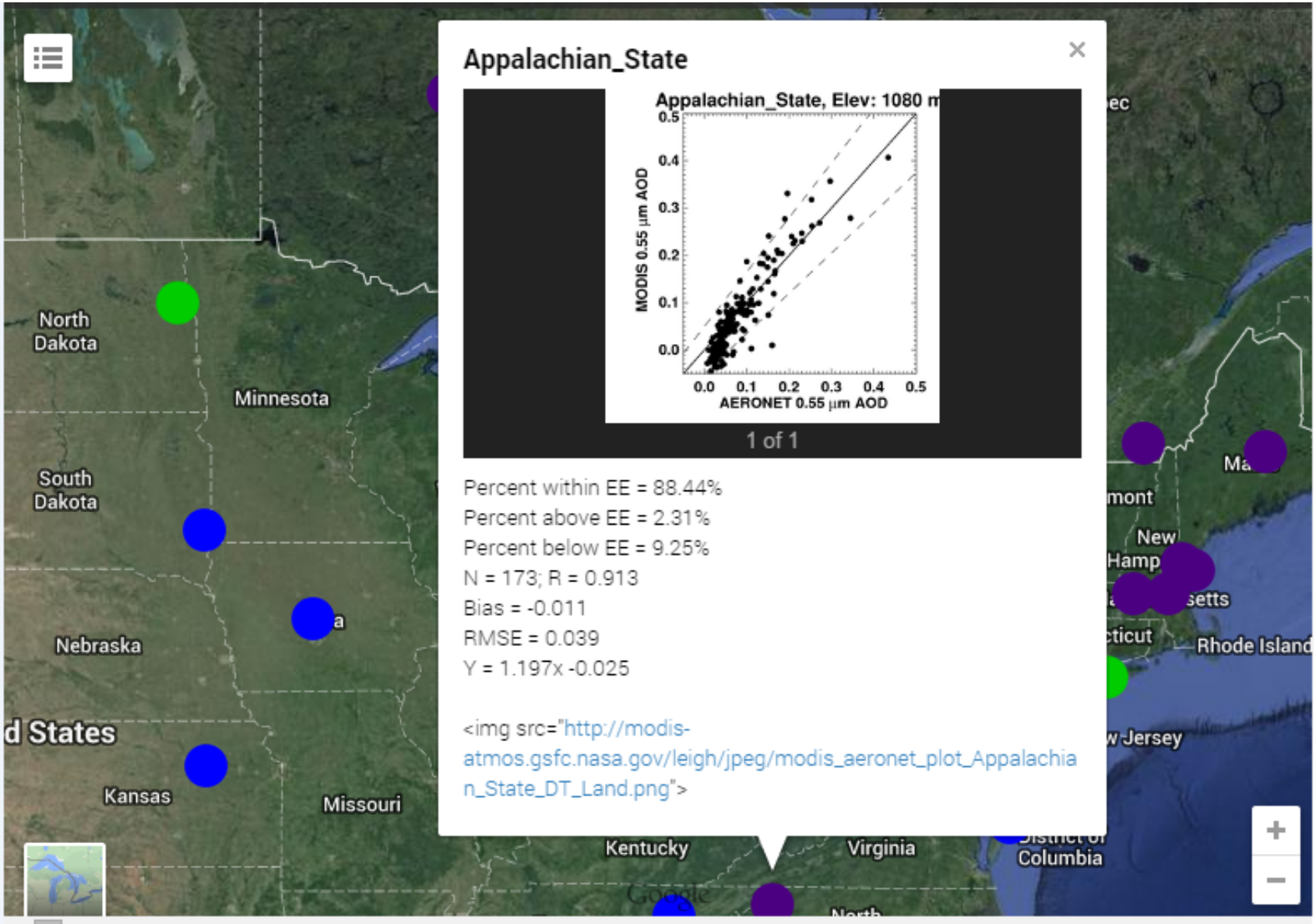
Validation Plots for Collection 6 Products

Collection 6 preliminary validation results are based on only 6 months of data: June and July of 2003, 2008 and 2010.



- **Both 10 km and 3 km products are well correlated with AERONET**
- **3 km shows slight high bias and a bit more uncertainty**

Validation Maps



Scatter Plot