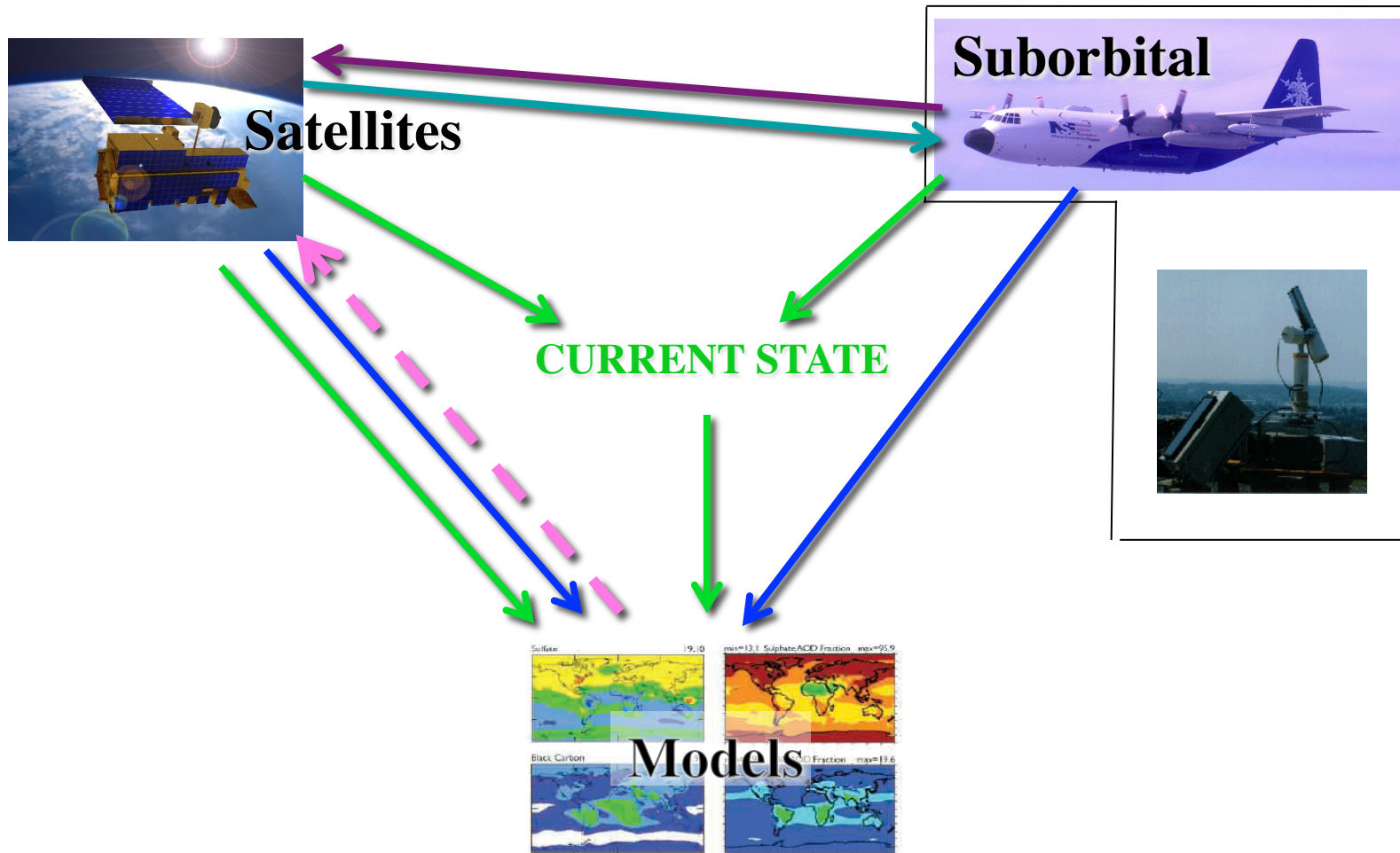# Session 13

Challenges for AeroSat − Remote-Sensing Perspective

Ralph Kahn / NASA-GSFC

- **Providing *Consistent, Global, 3-D Aerosol Amount and Type* products**

- **Providing *Quantitative, Credible Uncertainty Estimates* (*Level 2*; *Level 3*)**

- **Producing *Long-term* satellite data records**

- **Applying satellite datasets to *Constrain* and/or *Validate Models***

- ***Using Models* to supplement measured quantities**

- **Providing *"Deliverables"* (results) on zero budget...**

AeroSat Experiments
(Session 15)

Satellites

Suborbital

CURRENT STATE

Models

Slide 1 – More Detail

Session 13

Challenges for AeroSat − Remote-Sensing Perspective

Ralph Kahn / NASA-GSFC

- **Providing *Consistent* satellite *AOD, ANG***

- **Constraining *Aerosol Type* with satellite data**

- **Providing *Consistent Aerosol Type* satellite products**

- **Finding *CNN proxies***

- **Mapping aerosol *Vertical Distribution***

- **Deriving Level 2 & 3 *Pixel-level Uncertainties***

- **Producing *Long-term* satellite data records**

- **Applying individual satellite datasets to *Models***

- **Using *Multiple Data Sources* to constrain models**

- **Providing *"Deliverables"* (results) on zero budget...**