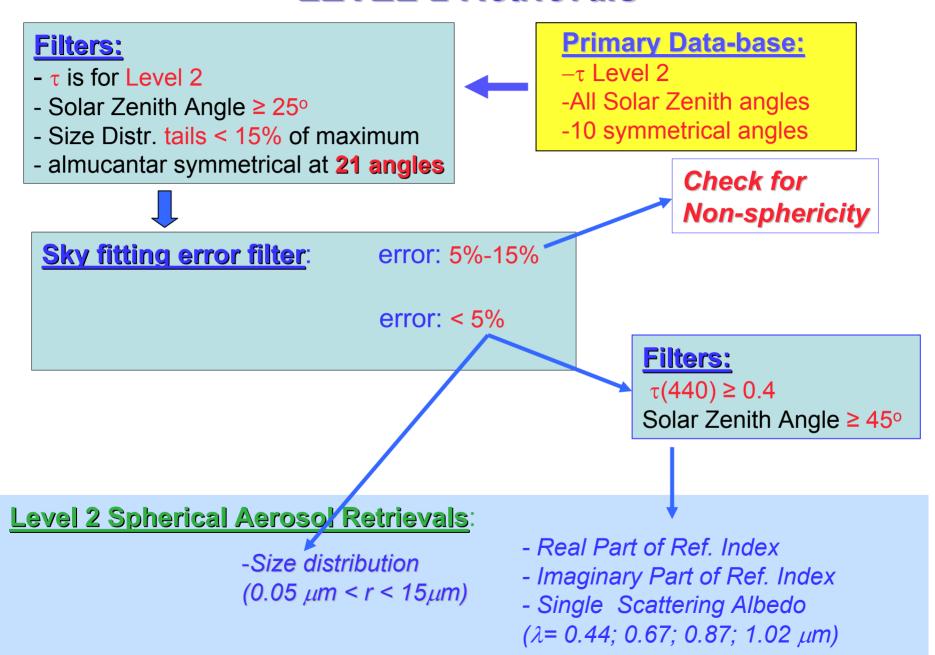
### LEVEL 2 Retrievals



# Level-2 Non-Spherical Aerosol Checks and Processing

#### **Check for NON-SPHERICITY:**

- Ångström parameter ≤ 0.6
- Solar Zenith Angle ≥ 45°
- Sky fitting error 5%-15%

#### <u>Processing almucantars</u> <u>as non-spherical:</u>

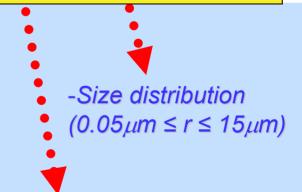
(using model of randomly oriented spheroids)

### **Filter:** $\tau(440) \ge 0.4$

### Spherical Model Retrievals

- -Size distribution  $(\sim 0.6 \mu \text{m} \le r \le 15 \mu \text{m})$
- Real Part of Ref. Index  $(\lambda = 0.87; 1.02 \mu m)$
- -Imaginary Part of Ref. Index
- Single Scattering Albedo (λ= 0.44; 0.67; 0.87; 1.02 μm)

## Spheroid Model Retrievals



- Real Part of Ref. Index
- Imaginary Part of Ref. Index
- Single Scattering Albedo (λ= 0.44; 0.67; 0.87; 1.02 μm)