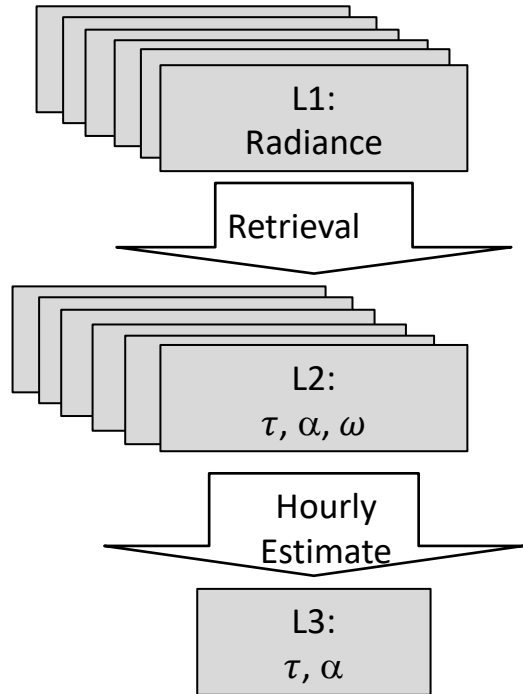


### Original Retrieval process ( $T=T_0$ )

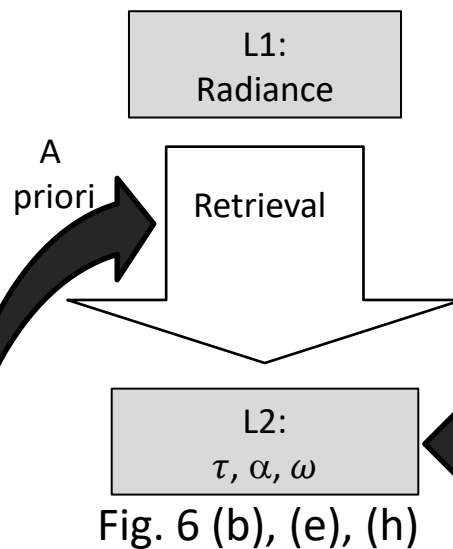


Data Assimilation  
( $\tau$ )

L4 Analysis:  
 $\tau$  (Sulfate, BC, Organic Aerosol,  
Sea Salt, Dust)

**Aerosol assimilation system**

### Improved Retrieval process ( $T=T_1$ )

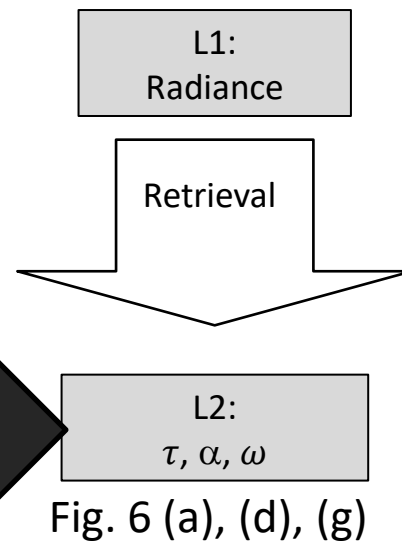


**Forecast**

L4 Forecast:  
 $\tau$  (Sulfate, BC, Organic  
Aerosol, Sea Salt, Dust)

Fig. 6 (c), (f), (i)

### Original Retrieval process ( $T=T_1$ )



**comparison**