

Start

(a) SAGE III/ISS
level 2 extinction
profile ($k(z)$)

(b) Find altitude (z),
where $k(z) > 2 \times 10^{-2}$
 km^{-1} or LOS OD > 7

(c) If (b) = True

No

(d) Set all $k(z)$ be-
low z to missing

Yes

(e) Identify tropopause
altitude ($\text{trp}(z)$)

(f) Identify negative
extinction values between
25 km and $\text{trp}(z) = k_{n(z)}$

(g) $k_{n(z)} \geq \text{trp}(z)$

No

(h) Set $k_{n(z-1)}$, $k_{n(z)}$, and
 $k_{n(z+1)}$ to missing values

(i) Set all values below
 $k_{n(z+1)}$ to missing values

Stop