

SOFIE Level 3 Product Description

Revision: 5 February 2008

The SOFIE level 3 products are daily longitude versus altitude cross section plots.

The plots include cross sections of:

1. Temperature (K)
2. H₂O mixing ratio (ppmv)
3. Ice mass density (ng m⁻³)
4. O₃ mixing ratio (ppmv)
5. CH₄ mixing ratio (ppbv)

NO and CO₂ will be added in upcoming versions

Overlain on each cross section plot are:

1. Mesopause height (altitude of the temperature minimum in SOFIE T profiles)
2. Altitude of the peak 3.064 μm ice extinction (Z_{\max}),
3. Vertical extent of the ice layer

An example SOFIE level 3 plot is shown below

