**File explanation:**

UTC time

Latitude in degrees

Longitude in degrees

Solar Zenith Angle in degrees

Surface type: 0=land, 1=ocean, 2=mixed

Surface Pressure in hPa

Surface Temperature in K

Total Column of O3 in molecules/cm2

Tropospheric Column of O3 in molecules/cm2

Tropopause altitude in km

% of cloud coverage

Pressure (hPa), Altitude (km), Temperature (k), H2O vmr, O3 vmr, O3 IRK (W/m2/ppb)

**Important Notes:**

* Pressure, Altitude, Temperature and H2O vmr refer to levels
* Temperature and H2O profiles as given by EUMETSAT for IASI (used for IASI/FORLI-O3 retrievals)
* O3vmr and IRK refer to the average vmr/IRK of the layer between the lower and upper level, that’s why the O3vmr and IRK values are n-1 compared to the rest that are n. Normally the O3 vmr/IRK values are assigned at the middle of the layer, e.g. if layer is 1km to 2km, then the O3vmr is at 1.5km. There’s also the possibility to be assigned at the bottom, though I don’t usually do that.

I remembered in one of the emails in the beginning that you said you need pressure and temperature in levels to define your model layers, that’s why I wrote the profiles like this. Pressure, Alt, Temp and VMR can be easier interpolated, if needed, compared to IRKs.