

NOMAD/UVIS ozone retrievals and GEM-Mars GCM simulations of ozone on Mars during the 2018 global dust storm and one year later, for Daerden et al., 2022

Dataset description.

Data files:

- nomad_wolff_for_daerdenetal2022.zip

Unpacks to a directory containing individual retrieval files (one per occultation) in text format, selected between $L_s=160^\circ$ - 250° in Martian years 34 and 35. There is a self-explaining header followed by vertical profile information. Ozone number densities are in cm^{-3} .

- gematnomad_ozone_daerdenetal2022.h5

This file in hdfv5 format contains GEM-Mars ozone number density (m^{-3}) profiles interpolated to the corresponding observed profiles.

Figures data files:

- daerden_etal_2022_o3_fig1.h5
- daerden_etal_2022_o3_fig2.h5
- daerden_etal_2022_o3_fig3.h5
- daerden_etal_2022_o3_fig4.h5

Extended Data Figures data files:

- daerden_etal_2022_o3_figs1.h5
- daerden_etal_2022_o3_figs2.h5
- daerden_etal_2022_o3_figs3.h5
- daerden_etal_2022_o3_figs4.h5
- daerden_etal_2022_o3_figs5.h5
- daerden_etal_2022_o3_figs6.h5
- daerden_etal_2022_o3_figs7.h5
- daerden_etal_2022_o3_figs8.h5

These files contain the gridded data that is plotted in Figures 1-4 and Supporting Figures 1-8 shown in the Supporting Information.

Units in the files are as in the figures (e.g. heights are in km, number densities are in cm^{-3}).