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- Atmospheric electricity

Description

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- The variations of temperature, pressure and density during descent are highlighted in the next few slides.

Temperature

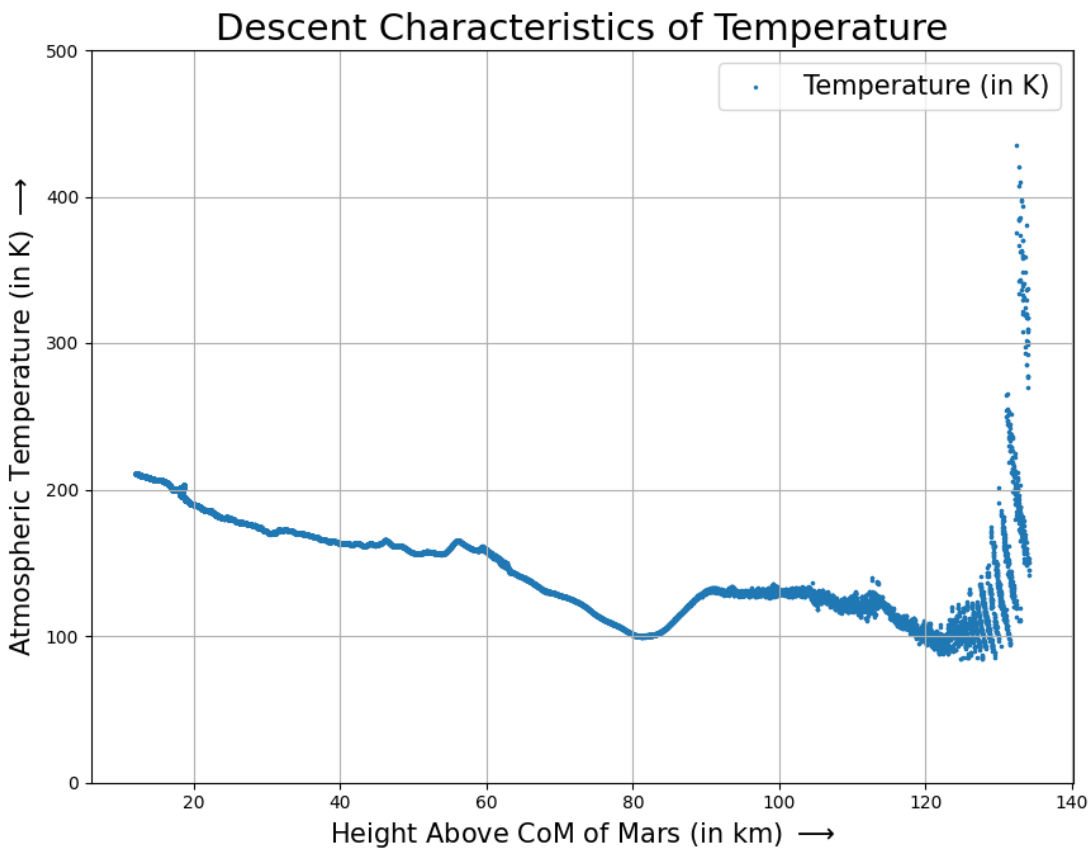

Fig. 1: Temperature During Descent

Pressure

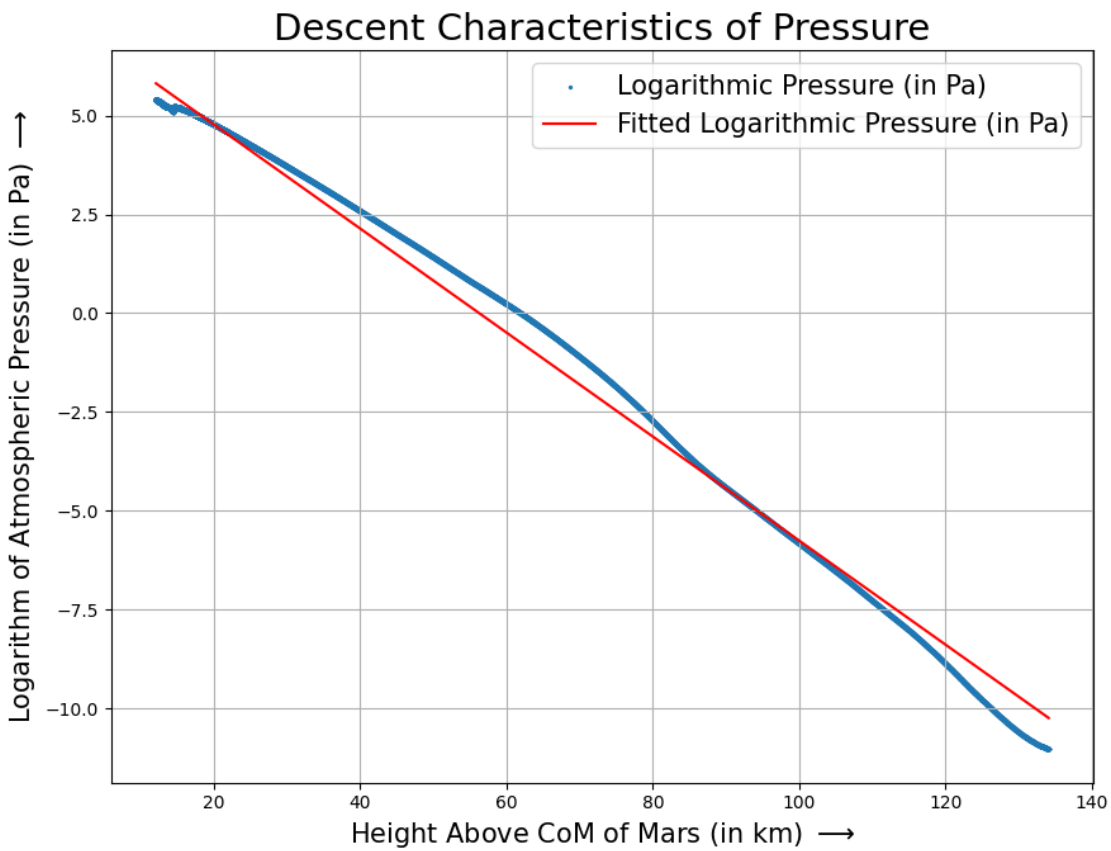

Fig. 2: Pressure During Descent

Density

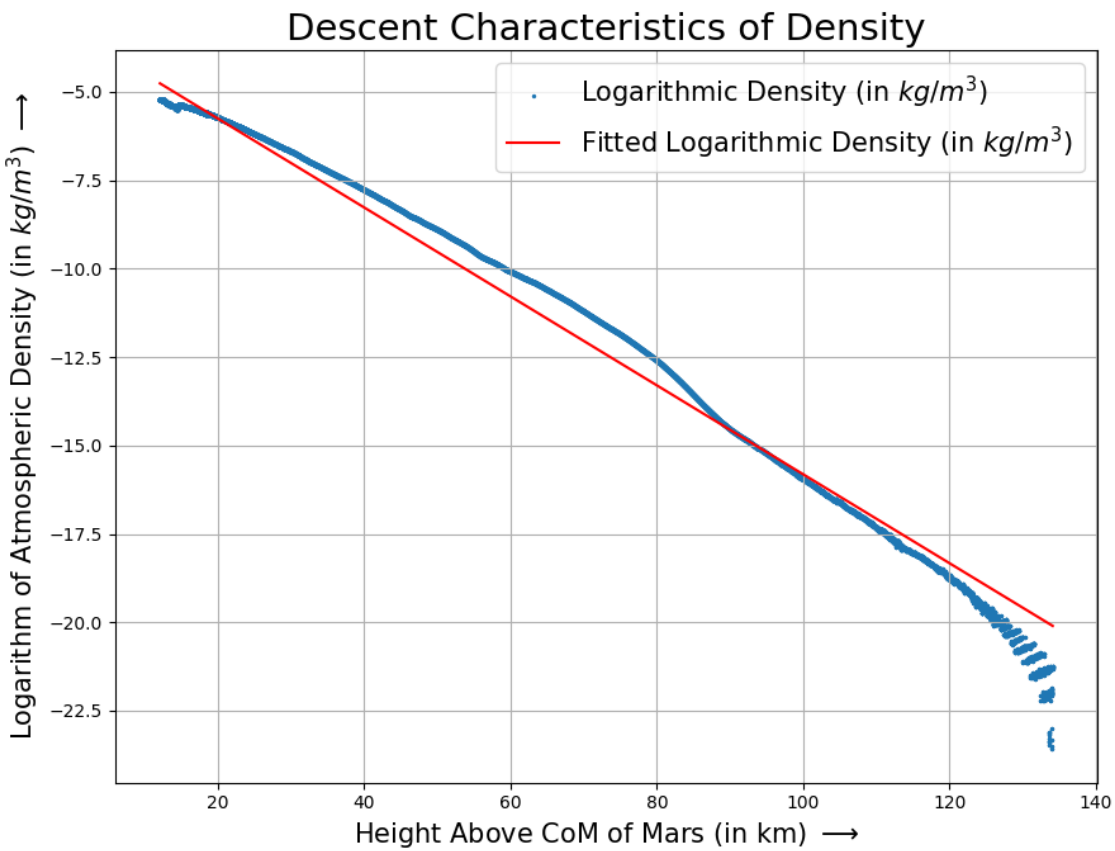

Fig. 3: Density During Descent

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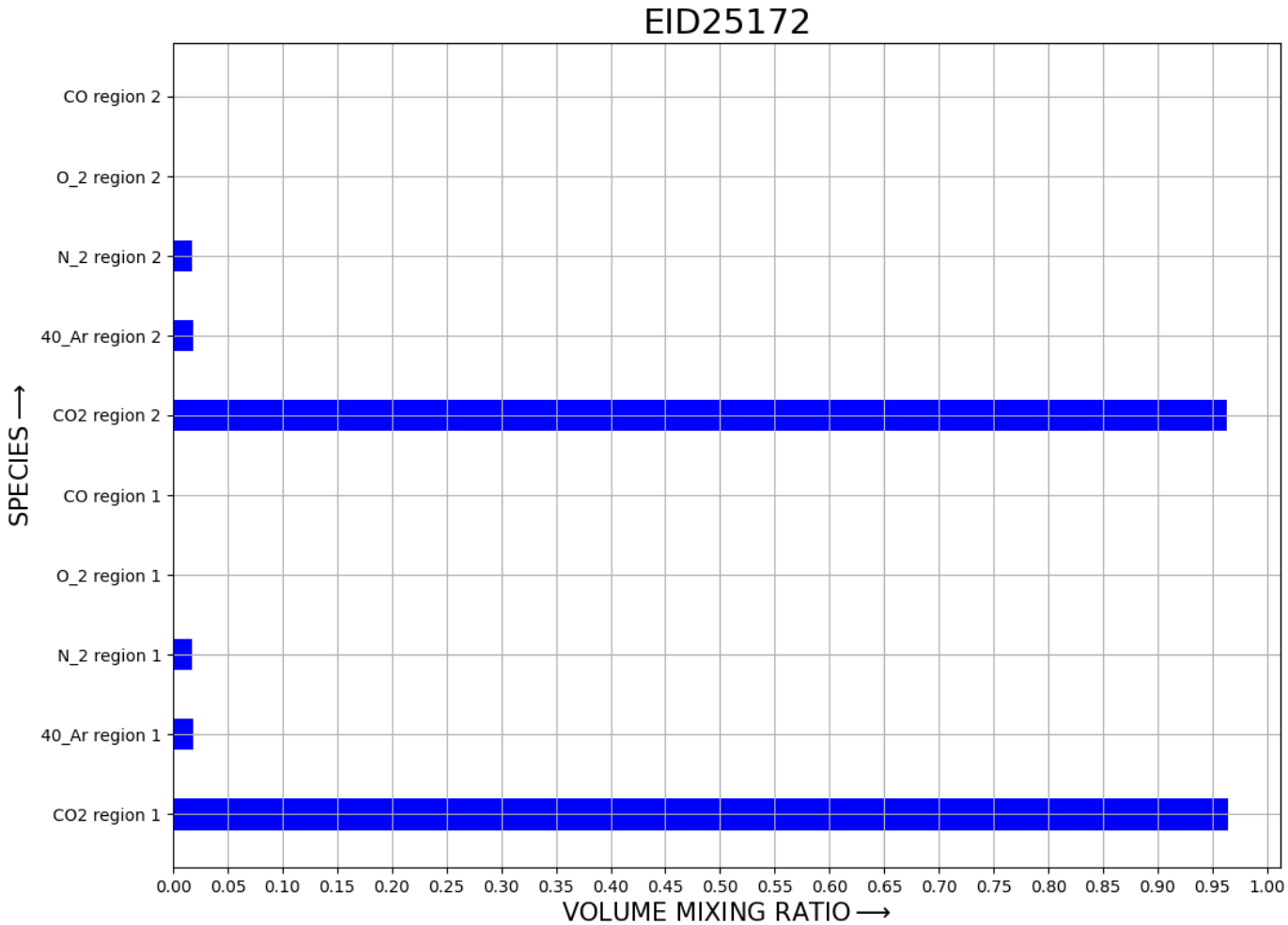
- The final data presented are the **volume mixing ratios** of various compounds in the Martian atmosphere obtained using the Quadrupole Mass Spectrometer (QMS) present on the rover.
- The next few slides give few representative plots of the volume mixing ratios of various compounds collected across 29 QMS experiments.

Volume Mixing Ratios



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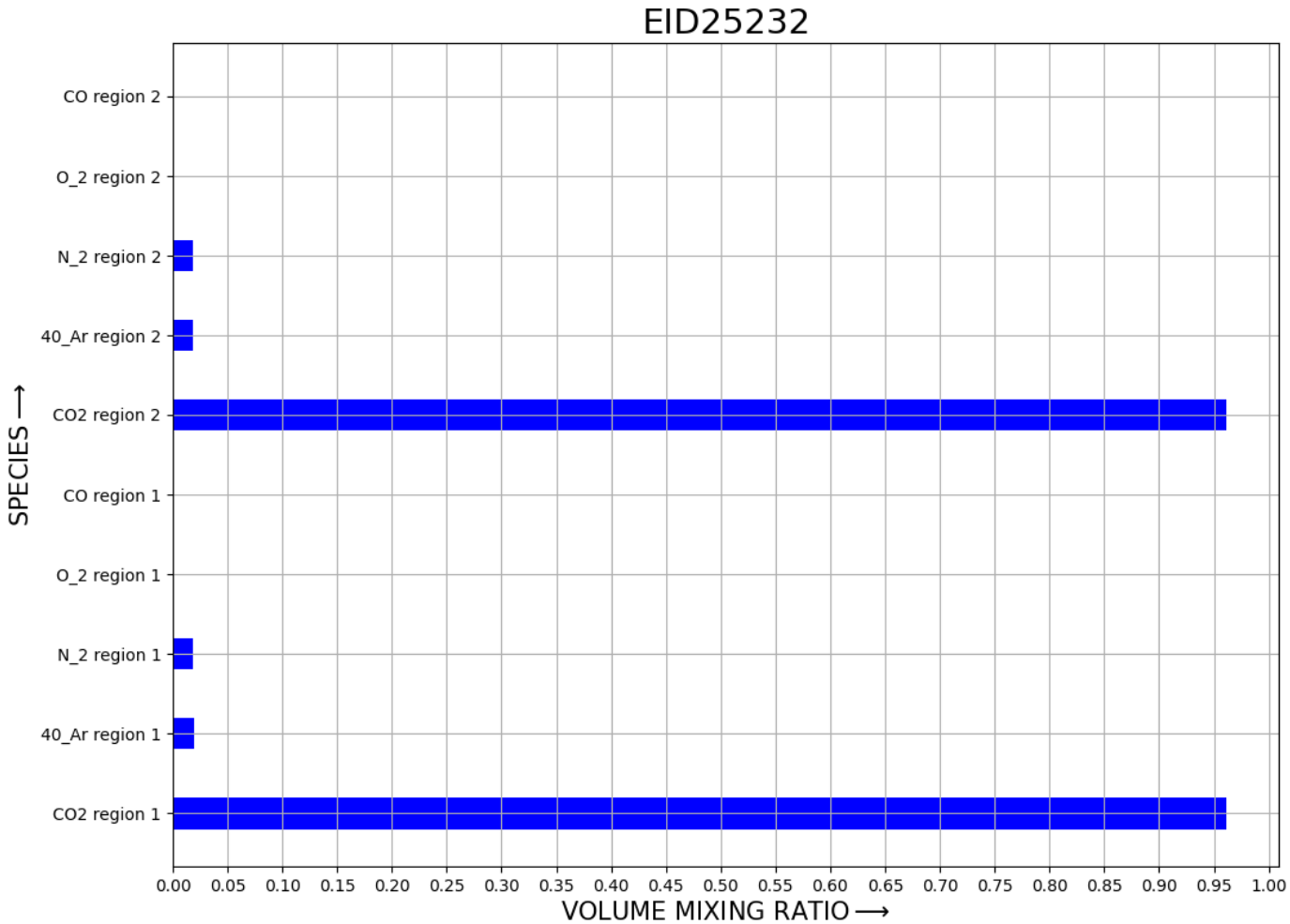
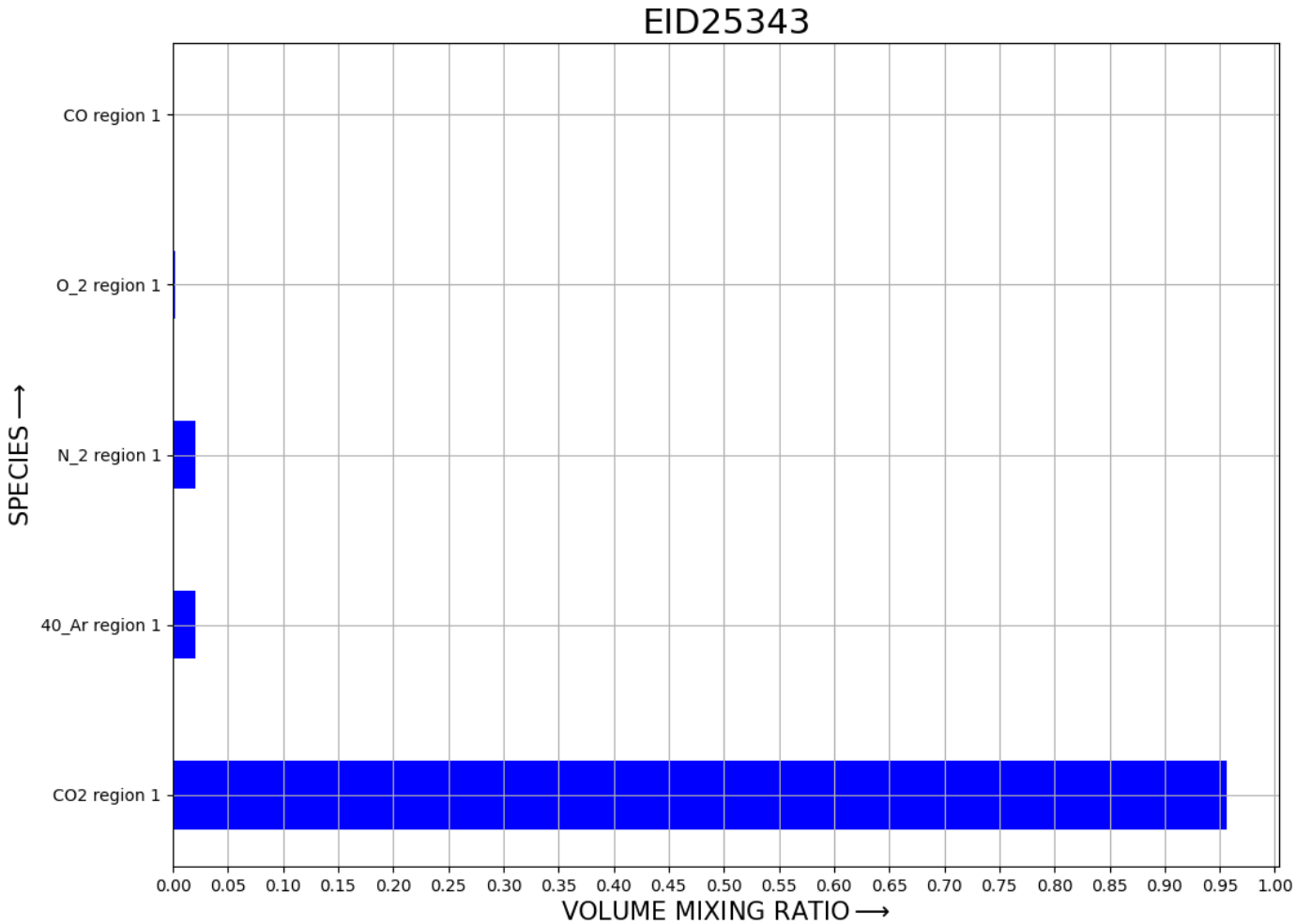


Volume Mixing Ratios



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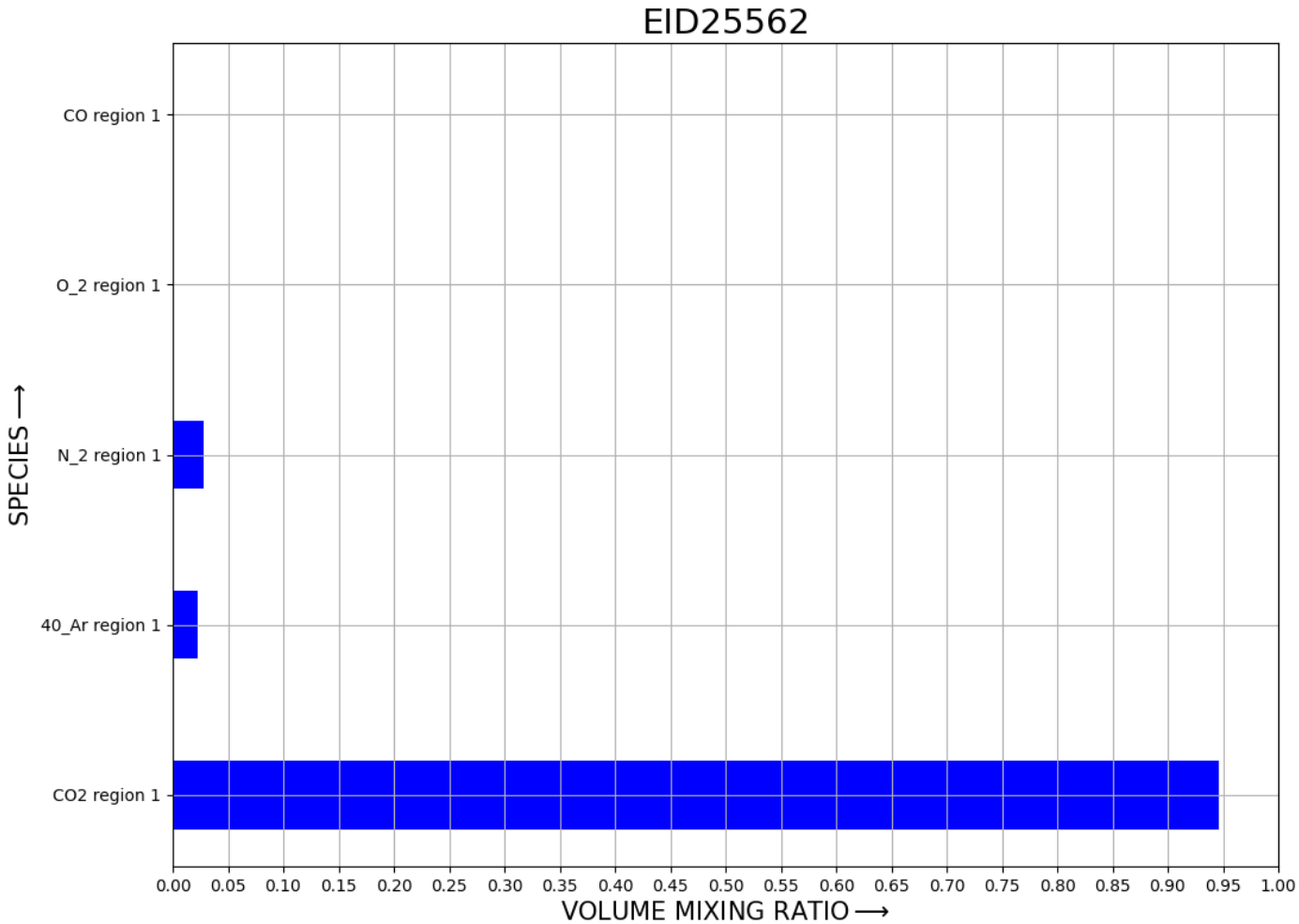

[1] C Holstein-Rathlou, A Maue, and P Withers.
Atmospheric studies from the mars science laboratory entry, descent and landing atmospheric structure reconstruction.
Planetary and Space Science, 120:15–23, 2016.

[2] SAM Reduced Data Record RDR.
Mars science laboratory (msl) software interface specification.
2013.