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# The isotopic composition of atmospheric nitrous oxide observed at the high-altitude research station Jungfraujoch, Switzerland

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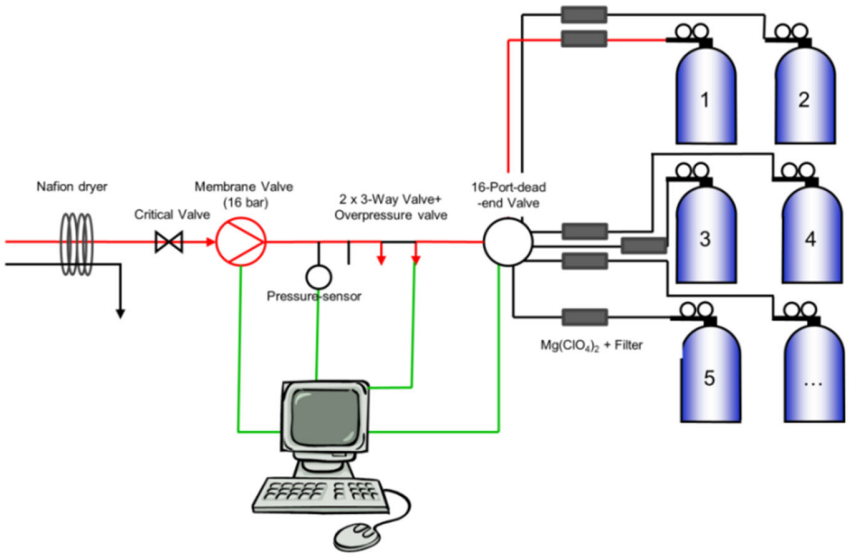


Figure S1 Set-up schematic of the auto-sampler for $N_2O$ isotopic measurements at the Sphinx observatory at Jungfraujoch research station.

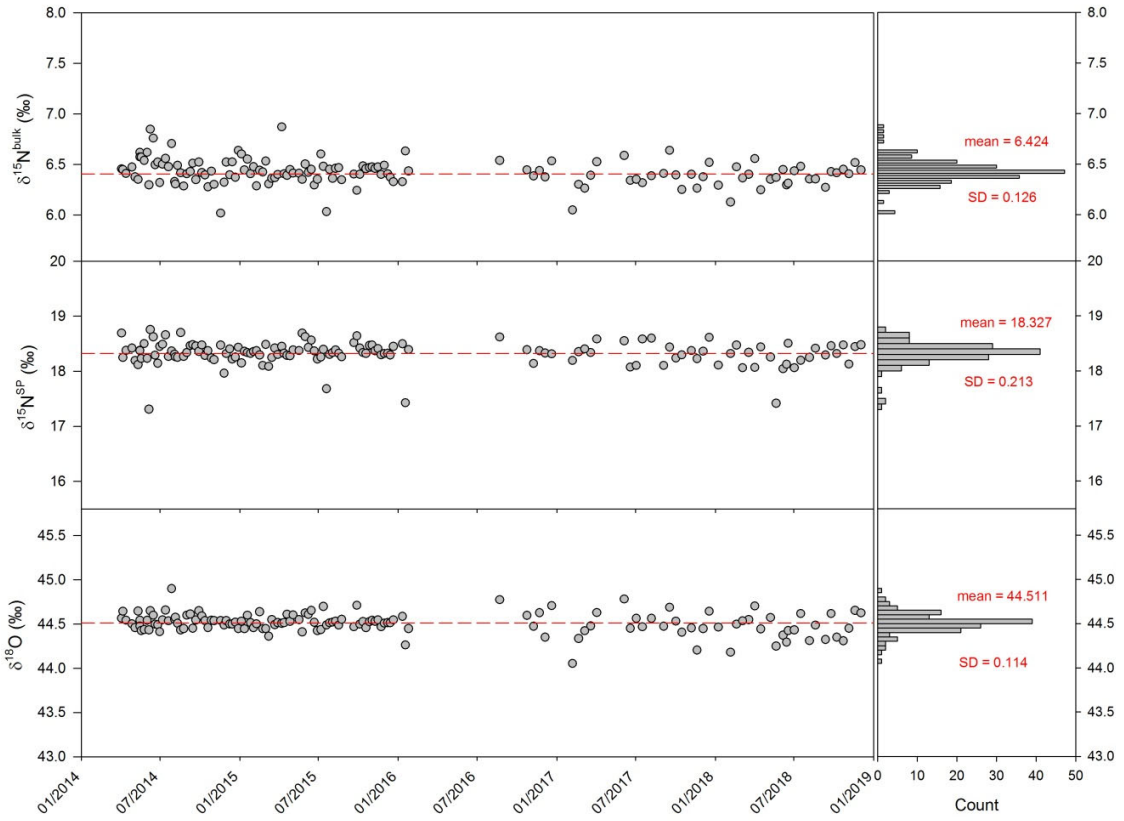


Figure S2 Repeated target gas measurements together with sample measurements; time axis is fit to the same time scale as the sample collection period to show the long-term stability of the isotopic measurements. Target measurements span a period of about four years. Histogram of all target gas measurements are shown on the right side of each figure, with mean and one standard deviation.

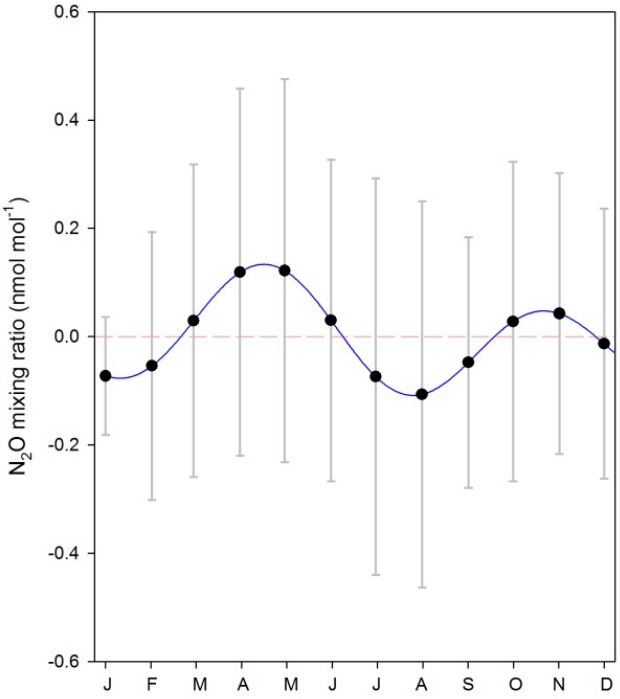


Figure S3 Seasonality of $N_2O$ mixing ratios with discrete measurements; error bars indicate one standard deviation of monthly residuals from the NLS model simulation for time-series.

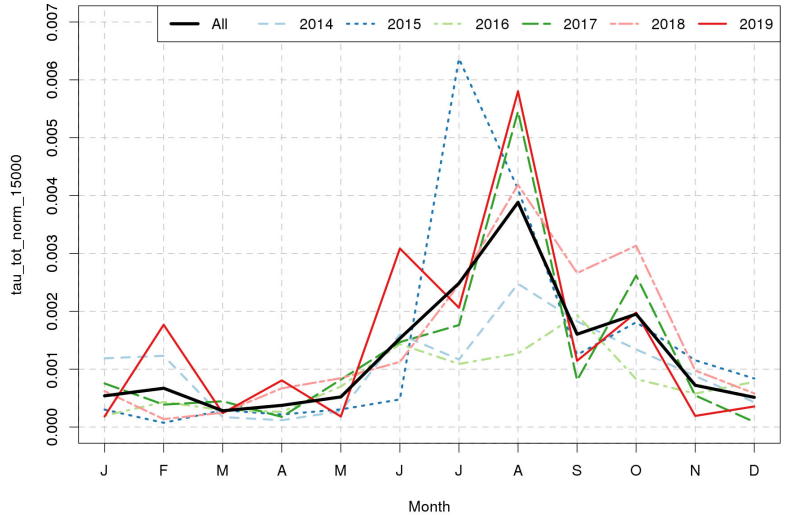


Figure S4 Contributions of upper tropospheric air (15 km) to the sampled air at Jungfraujoch estimated by FLEXPART transport model (derived from Henne et al., Personal Communication).