Water vapor isotope experiment was conducted during Bermuda cruise (Ship name: R/V Atlantic Explorer) between Sep 2014 and Oct 2014 over the Atlantic Ocean (80 W - 60 W; 16 N - 38 N).

1. Time stamps

Data files are stored in 15 min resolutions using the end time stamps (YYYYMMDDHHmm).

2. Data format

Data files are CSV formatted.

3. Time zone convention

Time is reported in UTC.

4. Missing data

Missing data is replaced with -9999.

5. Variable definitions

Column	Description	Unit	Equipment	Height (m)	Additional description
Column 1	Time	–	–	–	UTC
Column 2	Latitude	degree (°C)	–	–	–
Column 3	Longitude	degree (°C)	–	–	–
Column 4	Water mixing ratio	ppmv	Picarro L2120-i	11	–
Column 5	Water vapour isotopic ratio (18O)	per mil	Picarro L2120-i	11	Normalized to V-SMOW; Humidity dependence correlation: Non-linear regression
Column 6	Standard deviation of 18O	per mil	Picarro L2120-i	11	15 min
Column 7	Water vapour isotopic ratio (D)	per mil	Picarro L2120-i	11	Normalized to V-SMOW; Humidity dependence correlation: Non-linear regression

Column 8	Standard deviation of D	per mil	Picarro L2120-i	11	15 min
Column 9	Air temperature	Celsius (°C)	RM Young	11	–
Column 10	Relative humidity	<=1	RM Young	11	–
Column 11	Air pressure	kPa	RM Young	11	–
Column 12	Precipitation	mm	RM Young	11	–
Column 13	Net radiation	W/m2	RM Young	11	–
Column 14	Wind speed	m/s	–	–	–
Column 15	Wind direction	degree (°C)	–	–	–

6. Reference papers

Benetti, M. et al. Stable isotopes in the atmospheric marine boundary layer water vapour over the Atlantic Ocean, 2012–2015. Sci. Data 4:160128 doi: 10.1038/sdata.2016.128 (2017).

7. Site contact

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