Water vapor isotope experiment was conducted during STRASSE cruise (Ship name: R/V Thalassa) between Aug 2012 and Sep 2012 over the Atlantic Ocean (40 W - 20 W; 18 N - 40 N).

## 1. Time stamps

Data files are stored in 15 min resolutions using 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	Start time	1	-	-	UTC
Column 2	Latitude	degree (°C)	-	-	-
Column 3	Longitude	degree (°C)	-	-	-
Column 4	Water mixing ratio	ppmv	Picarro L2130-i	17	_
Column 5	Water vapour isotopic ratio (180)	per mil	Picarro L2130-i	17	Normalized to V-SMOW; Humidity dependence correlation: Non-linear regression
Column 6	Standard deviation of 180	per mil	Picarro L2130-i	17	15 min
Column 7	Water vapour isotopic ratio (D)	per mil	Picarro L2130-i	17	Normalized to V-SMOW; Humidity dependence correlation: Non-linear regression

Column 8	Standard deviation of D	per mil	Picarro L2130-i	17	15 min
Column 9	Air temperature	Celsius (°C)	Batos	18	-
Column 10	Relative humidity	<=1	Batos	18	-
Column 11	Air pressure	kPa	Batos	18	_
Column 12	Precipitation	mm	Batos	18	-
Column 13	Net radiation	W/m2	Batos	18	-
Column 14	Wind speed	m/s	Batos	18	-
Column 15	Wind direction	degree (°C)	Batos	18	-

## 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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