

Water vapor isotope experiment was conducted at Beijing site (urban), Beijing, China (40.00N, 116.38E) from Dec 2006 to Dec 2007

1. Time stamps

Data files are stored in hourly resolutions using start and 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	–	–	–	UTC
Column 2	End time	–	–	–	UTC
Column 3	Water mixing ratio	ppmv	Campbell TG A-100A	2	–
Column 4	Water vapour isotopic ratio (18O)	per mil	Campbell TG A-100A	2	Normalized to V-SMOW; Humidity dependence correlation: Dripper system
Column 5	Standard deviation of 18O	per mil	Campbell TG A-100A	2	Hourly
Column 6	Water vapour isotopic ratio (D)	per mil	Campbell TG A-100A	2	Normalized to V-SMOW; Humidity dependence correlation: Dripper system
Column 7	Standard deviation of D	per mil	Campbell TG A-100A	2	Hourly

Column 8	Air temperature	Celsius (°C)	Davis weather station	20	Model Vantage Pro
Column 9	Relative humidity	<=1	Davis weather station	20	Model Vantage Pro
Column 10	Air pressure	kPa	Davis weather station	–	Model Vantage Pro
Column 11	Precipitation	mm	Davis weather station	–	Model Vantage Pro
Column 12	Net radiation	W/m2	–	–	–
Column 13	Wind speed	m/s	–	–	–
Column 14	Wind direction	degree (°C)	–	–	–
Column 15	Air temperature	Celsius (°C)	–	2	ERA5
Column 16	Relative humidity	<=1	–	2	ERA5
Column 17	Air pressure	kPa	–	2	ERA5
Column 18	Precipitation	mm	–	–	ERA5
Column 19	Net radiation	W/m2	–	–	ERA5
Column 20	Wind speed	m/s	–	–	ERA5
Column 21	Wind direction	°C	–	10	ERA5

6. Reference papers

Wen, X.F., Zhang, S.C., Sun, X.M., Yu, G.R. and Lee, X., 2010. Water vapor and precipitation isotope ratios in Beijing, China. Journal of Geophysical Research: Atmospheres, 115(D1).

7. Site contact

Name: Xuhui Lee and Xuefa Wen

Email: xuhui.lee@yale.edu (Xuhui Lee); wenxf@iqsnrr.ac.cn (Xuefa Wen)