Water vapor isotope experiment was conducted at Taihu site (lake), Wuxi, China (31.42N, 120.21E) from Aug 2012 to Dec 2016.

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 local standard time (UTC+08:00).

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	-	-	-	υтс
Column 3	Water mixing ratio	ppmv	Campbell TGA-100A	3.5	_
Column 4	Water vapour isotopic ratio (180)	per mil	Campbell TGA-100A	3.5	Normalized to V-SMOW; Humidity dependence correlation: Dripper system
Column 5	Standard deviation of 180	per mil	Campbell TGA-100A	3.5	Hourly
Column 6	Water vapour isotopic ratio (D)	per mil	Campbell TGA-100A	3.5	Normalized to V-SMOW; Humidity dependence correlation: Dripper system
Column 7	Standard deviation of D	per mil	Campbell TGA-100A	3.5	Hourly
Column 8	Air temperature	Celsius (°C)	HMP45C	3.5	-

Column 9	Relative humidity	<=1	HMP45C	3.5	-
Column 10	Air pressure	kPa	-	3.5	-
Column 11	Precipitation	mm	-	3.5	-
Column 12	Net radiation	W/m2	CNR-1	3.5	-
Column 13	Wind speed	m/s	CSAT3	3.5	-
Column 14	Wind direction	degree (°C)	R M Young	3.5	-
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

Xiao, W., Lee, X., Liu, S., Wang, W., and Wen, X., 2017. In-situ isotopic measurement reveals a larger role of lake evaporation than in previous assessments of the terrestrial hydrological cycle. In review.

7. Site contact

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