Water vapor isotope experiment was conducted at Trinity Beach (Coast, about 0.5km inland), Australia, Cairns region (-16.7916667N, 145.6966667E) from April 10–13, 2014.

1. Time stamps

Data files are stored in hourly 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	Time	1	-	1	ИТС
Column 2	Water mixing ratio	ppmv	Picarro L2130-i	17.0	-
Column 3	Water vapour isotopic ratio (180)	per mil	Picarro L2130-i	17.0	Normalized to V-SMOW; Humidity dependence correlation: No
Column 4	Standard deviation of 180	per mil	Picarro L2130-i	17.0	25 sec
Column 5	Water vapour isotopic ratio (D)	per mil	Picarro L2130-i	17.0	Normalized to V-SMOW; Humidity dependence correlation: No
Column 6	Standard deviation of D	per mil	Picarro L2130-i	17.0	25 sec
Column 7	Air temperature	Celsius (°C)	HMP45C	3	Will be updated
Column 8	Relative humidity	<=1	HMP45C	3	Will be updated
Column 9	Air pressure	kPa	HMP45C	3	Will be updated

Column 10	Precipitation	mm	Tipping bucket	-	Will be updated
Column 11	Net radiation	W/m2	CNR4	1	Will be updated
Column 12	Wind speed	m/s	CSAT3	-	Will be updated
Column 13	Wind direction	°C	CSAT3	-	Will be updated
Column 14	Time	-	-	-	итс
Column 15	Precipitation	mm	-	-	10 min
Column 16	Time	-	-	-	итс
Column 17	pressure	Кра	_	-	10 min

6. Reference papers

Munksgaard, N. C., Zwart, C., Kurita, N., Bass, A., Nott, J., & Bird, M. I. (2015). Stable isotope anatomy of tropical cyclone Ita, North-Eastern Australia, April 2014. **PLoS One**, 10(3), e0119728. doi:10.1371/journal.pone.0119728.

7. Site contact

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