

KAIMEI KM17-13 Precipitable water vapor (GNSS water vapor)

Last Modified: 2018-06-10

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Cruise ID: [KM17-13](#)

Precipitable water vapor (GNSS water vapor): Processed (DMO)-Corrected

Data Policy: [JAMSTEC](#)

Observation Items: Precipitable water vapor (GNSS water vapor)

Science Keywords:

ATMOSPHERE > ATMOSPHERIC WATER VAPOR > WATER VAPOR

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/KM17-13_all.pdf

[For Using Data](#)

Principal Investigator

Data Management Office

Use Constraints

See [Terms and Conditions](#) about constrain of use.

Data Citation

See [Terms and Conditions](#) about data citation.

Instrument

Instrument:

GPS water vapor observation system



Overview

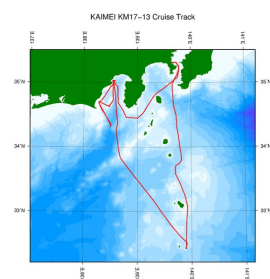
The data provided here is precipitable water vapor (column water vapor) estimated from GNSS observation on R/V KAIMEI. See [here](#) for detailed processing methods.

Measurement System

| | |
|------------------------------------|---|
| GNSS receiver [model/manufacture]: | NetR9 Ti-1/Trimble |
| GNSS antenna [model/manufacture]: | GNSS-Ti Choke Ring Antenna with radome/Trimble |
| Antenna location: | compass deck (18 meters high from sea surface) |
| Received satellite: | GPS, GLONASS, QZSS |
| Sampling interval: | 30 sec |
| Elevation mask: | 5 degrees (However, set to 10 degrees in the data processing provided here) |

Related Information

☒ Cruise Data ☐ Dive Data



[Enlarge Image](#)

[KM17-13](#)

Ship Name: KAIMEI
Period: 2017-12-03 - 2017-12-10
Chief Scientist: Fujio Yamamoto (JAMSTEC)

Update History

| | |
|------------|-------------------------------------|
| 2018-06-10 | An observation data was registered. |
|------------|-------------------------------------|

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Go to a Cruise Information

Cruise ID:

Go to a Dive Information

Dive ID:

(SHELL)
POWER GRAB SAMPLER
(CLOW)
BMS

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Precipitable water vapor (GNSS water vapor)

Single space separated.

| No. | Column | Content | Unit | Format (nodata or baddata) | Remarks |
|-----|--------|---|--------|-------------------------------|--|
| 1 | 1-8 | Date [YYYYMMDD] | | i8 | Every 10 minutes* * Time stamp is set at the end of average |
| 2 | 10-13 | Time [hhmm] | | i4 | Every 10 minutes* |
| 3 | 15-24 | Longitude [-180 to 180] | degree | f10.5 (999.99999) | Location at time stamp +:East longitude -:West longitude |
| 4 | 26-34 | Latitude [-90 to 90] | degree | f9.5 (999.99999) | Location at time stamp +:North latitude -:South latitude |
| 5 | 36-41 | Precipitable water vapor (column water vapor) | mm | f6.2 (999.99) | 10-minute mean* |

Data Example

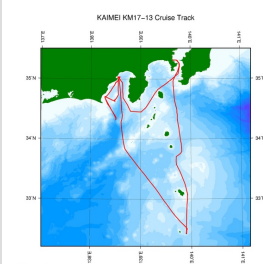
```

YYYYMMDD hhmm Lon Lat PWV
20170422 0030 130.92555 33.93327 15.15
20170422 0040 130.93252 33.94054 15.20
20170422 0050 130.95647 33.95871 15.28
20170422 0100 130.99144 33.97308 15.47

```

Related Information

[Cruise Data](#) [Dive Data](#)



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SAMPLER (SHELL)
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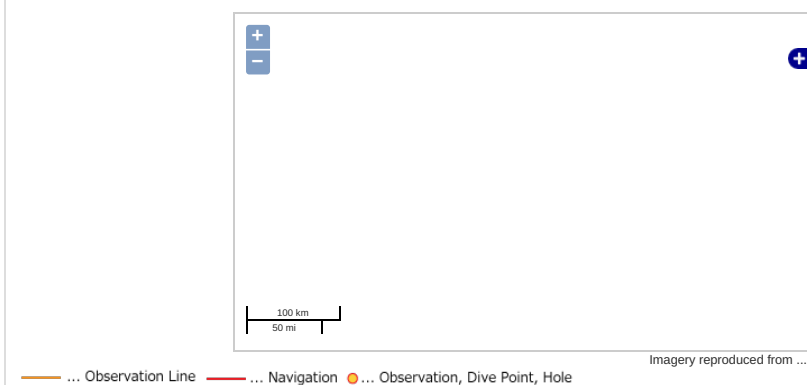
Data Policy: [JAMSTEC](#)

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Observation Map



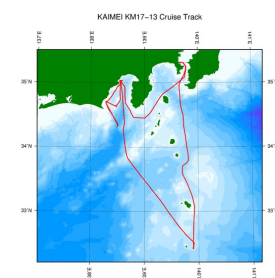
Data List

File names

☐ KM17-13_gnsspww.dat

Related Information

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