

## KAIMEI KM17-04 Precipitable water vapor (GNSS water vapor)

Last Modified: 2018-02-03

[ReadMe](#) [Observation Data](#) [Data Format](#)

Cruise ID: [KM17-04](#)

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

### For Using Data

#### Principal Investigator

Data Management Office

#### Use Constraints

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

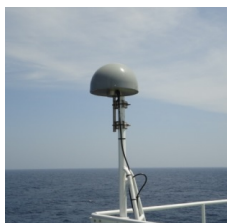
#### Data Citation

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

### Instrument

Instrument:

GPS water vapor observation system



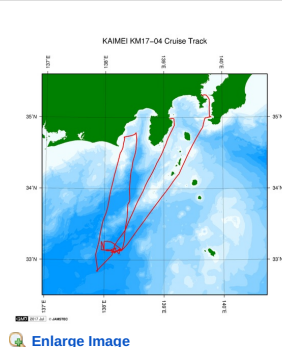
### Overview

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



#### KM17-04

Ship Name: KAIMEI

Period: 2017-05-04 - 2017-05-10

Chief Scientist: Katsuhisa Maeno (JAMSTEC)

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### Update History

2018-02-03	An observation data was registered.
2018-02-02	An observation data was registered.
2018-01-31	An observation data was registered.

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### Information of the Ships

[NATSUSHIMA](#)

[KAIYO](#)

[YOKOSUKA](#)

[MIRAI](#)

[KAIREI](#)

[CHIKYU](#)

[KAIMEI](#)

[SHINSEI MARU](#)

[HAKUHO MARU](#)

### Information of the Submersibles

[KAIKO](#)

[SHINKAI 2000](#)

[SHINKAI 6500](#)

[DEEP TOW](#)

[HYPER-DOLPHIN](#)

[URASHIMA](#)

[YOKOSUKA DEEP TOW](#)

[6K Camera DEEP TOW](#)

[6K Sonar DEEP TOW](#)

[KM-ROV](#)

[POWER GRAB SAMPLER \(SHELL\)](#)

[POWER GRAB SAMPLER](#)

### Go to a Cruise Information

Cruise ID:

### Go to a Dive Information

Dive ID:



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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*

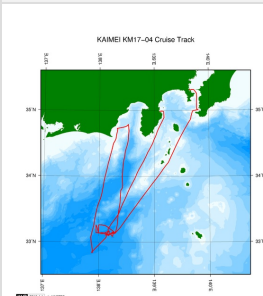
Data Example

```

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



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[POWER GRAB](#)  
[SAMPLER \(CLOW\)](#)  
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### Observation Map



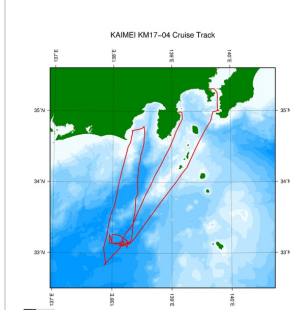
### Data List

Add to Basket

### File names

KM17-04 gnsspww.dat

### Related Information



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