MIRAI MR08-02 Precipitable water vapor derived from GPS

Last Modified: 2014-03-06

ReadMe | Observation Data

Cruise ID: MR08-02
Precipitable water vapor derived from GPS : Processed (PI)
Data Policy: JAMSTEC
Observation Items:
Science Keywords:

Data Information

GPS-PWV was caluclated from observed GPS signals and surface meteorological data.
Data taken before June 12 were missing.

Cruise Report

http://www.godac.jamstec.go.jp/catalog/data/doc_catalog/media/MR08-02_all.pdf

For Using Data

Principal Investigator

Mikiko Fujita (JAMSTEC/RIGC)

Use Constraints

See data citation below.

Data Citation

When you use GPS-PWV data, you should refer the following article which describes the calculation of PWV from GPS data.
FUjita, M., F. Kimura, K. Yoneyama, and M. Yoshizaki, 2008: Verification of precipitable water vapor estimated from shipborne GPS measurements. Geophys. Res. Lett., 35, L13803, doi:10.1029/2008GL033764.

Instrument

Instrument:
GPS receiver and antenna
Instrument Information:
Ashtech Z-Xtreme dual-frequency receiver, and Dorne Margolin choke-ring antenna.

Data Format

Text. Data contains date/time in UTC, precipitable water vapor (mm), surface specific humidity (g/kg), surface air temperature (deg-C), and surface pressure (hPa).
Missing values are expressed as "999.99".

Related Information

Enlarge Image

MR08-02
Ship Name: MIRAI
Period: 2008-05-26 - 2008-06-30
Chief Scientist: Kunio Yoneyama (JAMSTEC)
Project Name: [MJO Research]
Proposal Title: ▶ Observational Study on the Air-Sea Interaction in the Tropical Western Pacific Ocean

Update History

2014-03-06	An observation data was registerd.
2012-10-27	An observation data was registerd.

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Observation Map

Imagery reproduced from ...

... Observation Line ... Navigation ... Observation, Dive Point, Hole

Data List

Add to Basket

File names
MR08-02_gps.zip

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Enlarge Image

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