

5.7 GPS meteorology

(1) Personnel (*: Leg-1, **: Leg-2, ***: Leg-1+2)

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(2) Objective

Getting the GPS satellite data to estimate the total column integrated water vapor content of the atmosphere.

(3) Method

The GPS satellite data was archived to the receiver (Ashtech Xstream) with 5 sec interval. The GPS antenna (Margrin) was set on the deck at the part of stern. This observation was carried out all thru the cruise.

(4) Results

We will calculate the total column integrated water from observed GPS satellite data after the cruise.

(5) Data archive

Raw data is recorded as RINEX format every 5 seconds during ascent. These raw datasets are available from Kazu. Yasunaga of JAMSTEC. Corrected data will be submitted to JAMSTEC Marine-Earth Data and Information Department and will be archived there. A List of raw data files is as follows.

<u>File name</u>	<u>File size</u>
1111290000A.T02	7.852 MB
1111280000A.T02	7.812 MB
1111270000A.T02	7.574 MB
1111260000A.T02	7.520 MB
1111250000A.T02	7.828 MB
1111240000A.T02	7.655 MB
1111230000A.T02	7.546 MB
1111220000A.T02	7.811 MB
1111210000A.T02	7.756 MB
1111200000A.T02	7.668 MB
1111190000A.T02	7.746 MB
1111180000A.T02	7.670 MB
1111170000A.T02	7.717 MB
1111160000A.T02	7.784 MB
1111150000A.T02	7.776 MB
1111140000A.T02	7.865 MB
1111130000A.T02	7.734 MB
1111120000A.T02	7.716 MB
1111110000A.T02	7.692 MB

1111100000A.T02	7.471 MB
1111090000A.T02	7.651 MB
1111080000A.T02	7.825 MB
1111070000A.T02	7.732 MB
1111060000A.T02	7.675 MB
1111050000A.T02	7.659 MB
1111040000A.T02	7.818 MB
1111030000A.T02	7.724 MB
1111020000A.T02	7.647 MB
1111010000A.T02	7.713 MB
1110310000A.T02	7.582 MB
1110310000A.T02	7.582 MB
1110300000A.T02	7.819 MB
1110290000A.T02	7.763 MB
1110250000A.T02	7.598 MB
1110240000A.T02	7.175 MB
1110230000A.T02	7.348 MB
1110220000A.T02	7.394 MB
1110210000A.T02	7.537 MB
1110200000A.T02	7.646 MB
1110190000A.T02	7.607 MB
1110180000A.T02	7.609 MB
1110170000A.T02	7.815 MB
1110160000A.T02	7.789 MB
1110150000A.T02	7.810 MB
1110140000A.T02	7.626 MB
1110130000A.T02	7.455 MB
1110120000A.T02	7.724 MB
1110110000A.T02	7.629 MB
1110100000A.T02	7.669 MB
1110090000A.T02	7.639 MB
1110080000A.T02	7.711 MB
1110070000A.T02	7.637 MB
1110060000A.T02	7.587 MB
1110050000A.T02	7.646 MB
1110040000A.T02	7.591 MB
1110030000A.T02	7.576 MB
1110020000A.T02	7.601 MB
1110010000A.T02	7.672 MB
1109300000A.T02	7.987 MB
1109290000A.T02	7.919 MB
1109280000A.T02	7.573 MB
1109270000A.T02	7.718 MB
1109260000A.T02	7.515 MB