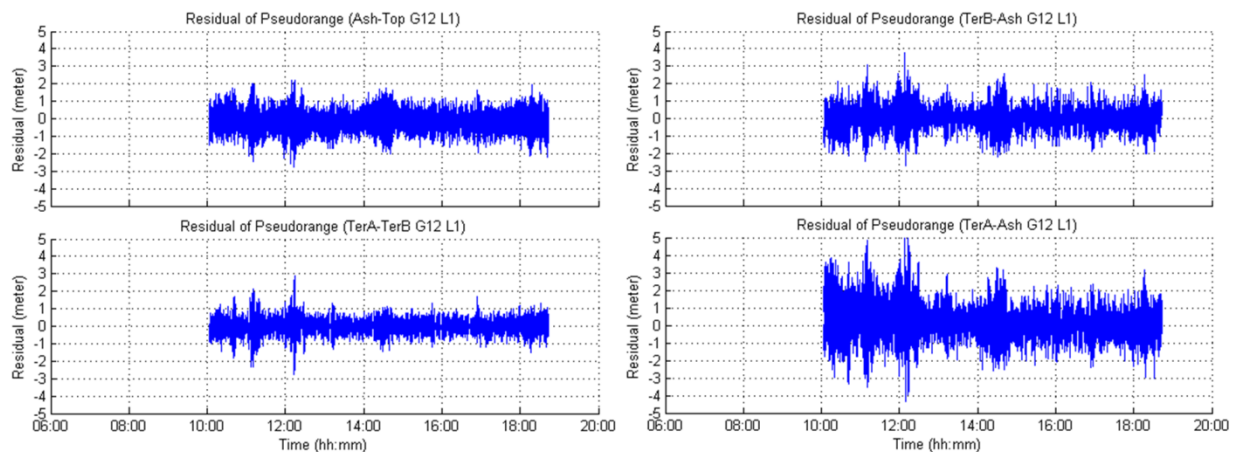# ITB, Indonesia

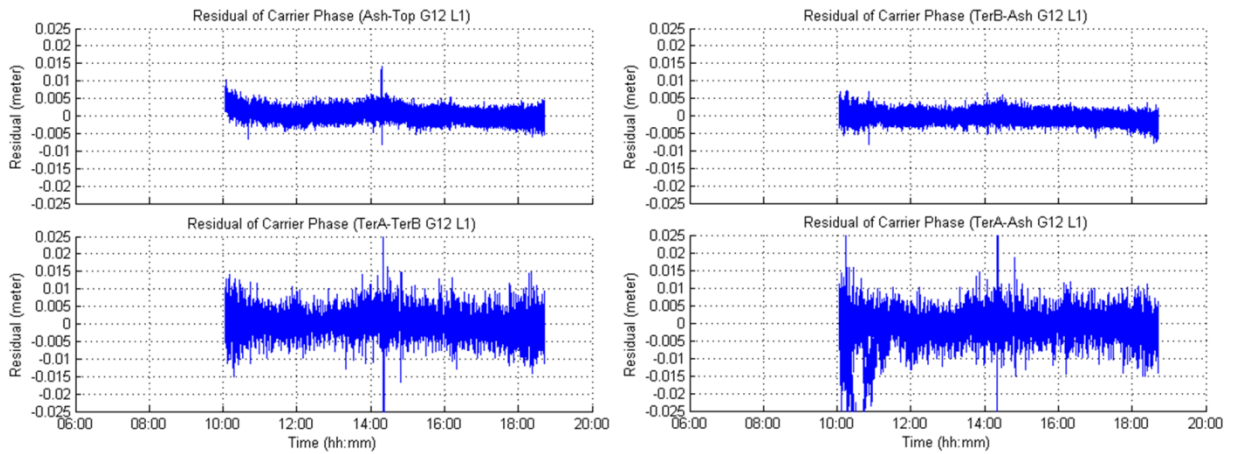## *Zero-baseline Test Result of BX305 GNSS RTK Boards*

ITB (abbreviation of the company) is an engineering educational school in Indonesia. Daniel, a student of ITB has done a zero-baseline test of Precis-BX305 as part of his undergraduate thesis. The test involved 4 GNSS receivers. He used zero-baseline test in order to obtain noise of receiver by single-differencing the raw. Then he found out the characteristic of noise for each receiver by analyzing its spectrum.

Test/Experiment Overview: He connected 4 GNSS receivers, including two Precis-BX305 boards (indicating as TerA & TerB in all charts) to one antenna with a one-to-four RF splitter. Then he formed four double different zero baselines between every two receivers and analyzed the quality of the double different observations. Part of the results shown below.
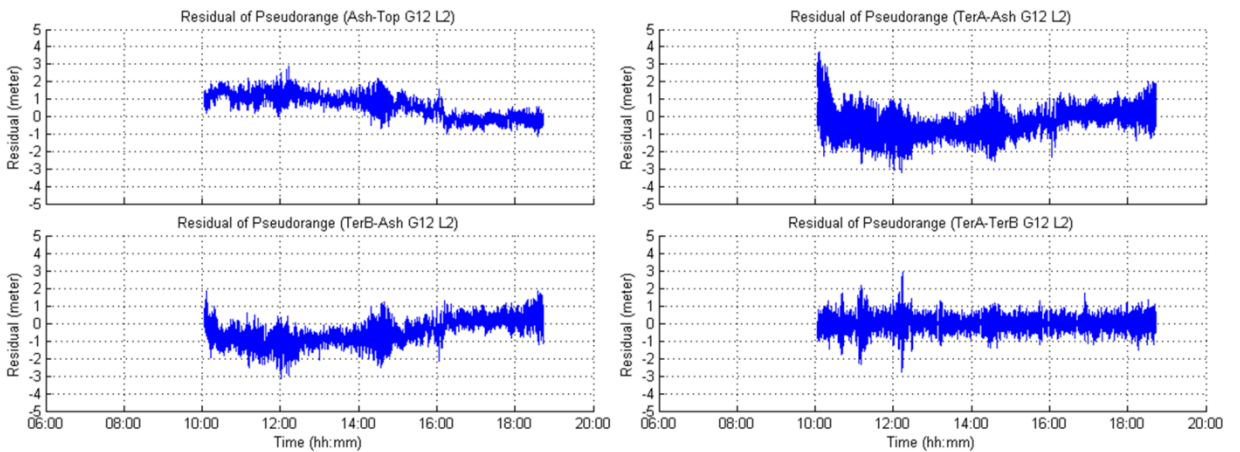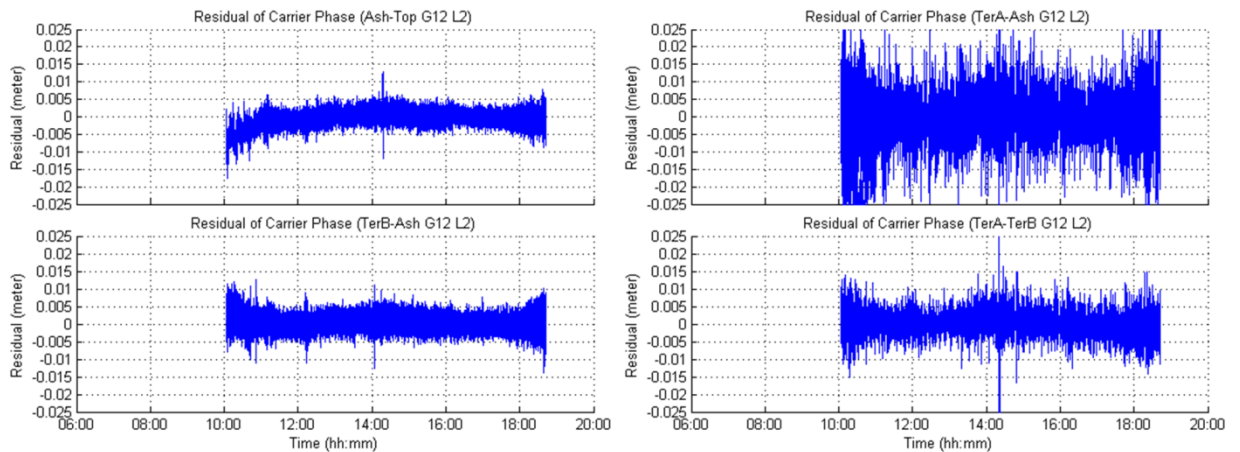
Residual (L1-Pseudorange)

Residual (L1-Carrier Phase)

Residual of Carrier Phase (Ash-Top G12 L1)

Residual of Carrier Phase (TerB-Ash G12 L1)

Residual of Carrier Phase (TerA-TerB G12 L1)

Residual of Carrier Phase (TerA-Ash G12 L1)

Residual (L2-Pseudorange)

Residual of Pseudorange (Ash-Top G12 L2)

Residual of Pseudorange (TerA-Ash G12 L2)

Residual of Pseudorange (TerB-Ash G12 L2)

Residual of Pseudorange (TerA-TerB G12 L2)

Residual (L2-Carrier Phase)

Residual of Carrier Phase (Ash-Top G12 L2)

Residual of Carrier Phase (TerA-Ash G12 L2)

Residual of Carrier Phase (TerB-Ash G12 L2)

Residual of Carrier Phase (TerA-TerB G12 L2)

The content, including image, chart and data are from Daniel with his consent for communication.

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