Digitizing Resolution of the Septentrio PolaRx3e Receiver

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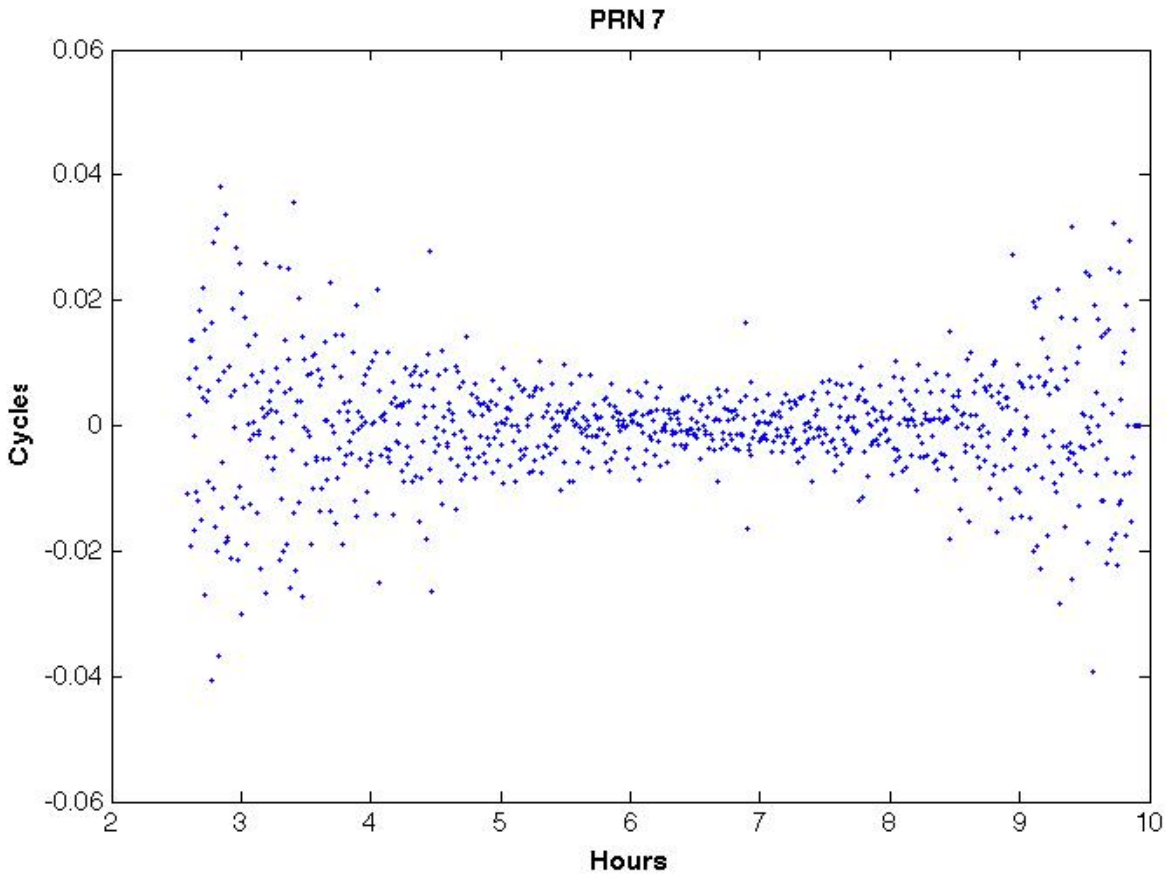
While differencing the L2-Y and L2C carrier phase measurements made with a Septentrio PolaRx3e receiver, we have not been able to resolve a banding pattern in the differences or estimate the digitizing resolution of the PolaRx3e.

This analysis was done using a translation of sbf-format data using extended resolution on the phase values beyond the usual 0.001 cycle resolution available in the RINEX observation format

The following figure shows the difference between the L2 and L2C carrier phase measurements for PRN 7 from a PolaRx3e receiver.



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