

# Digitizing Resolution of the Topcon NET-G3A Receiver

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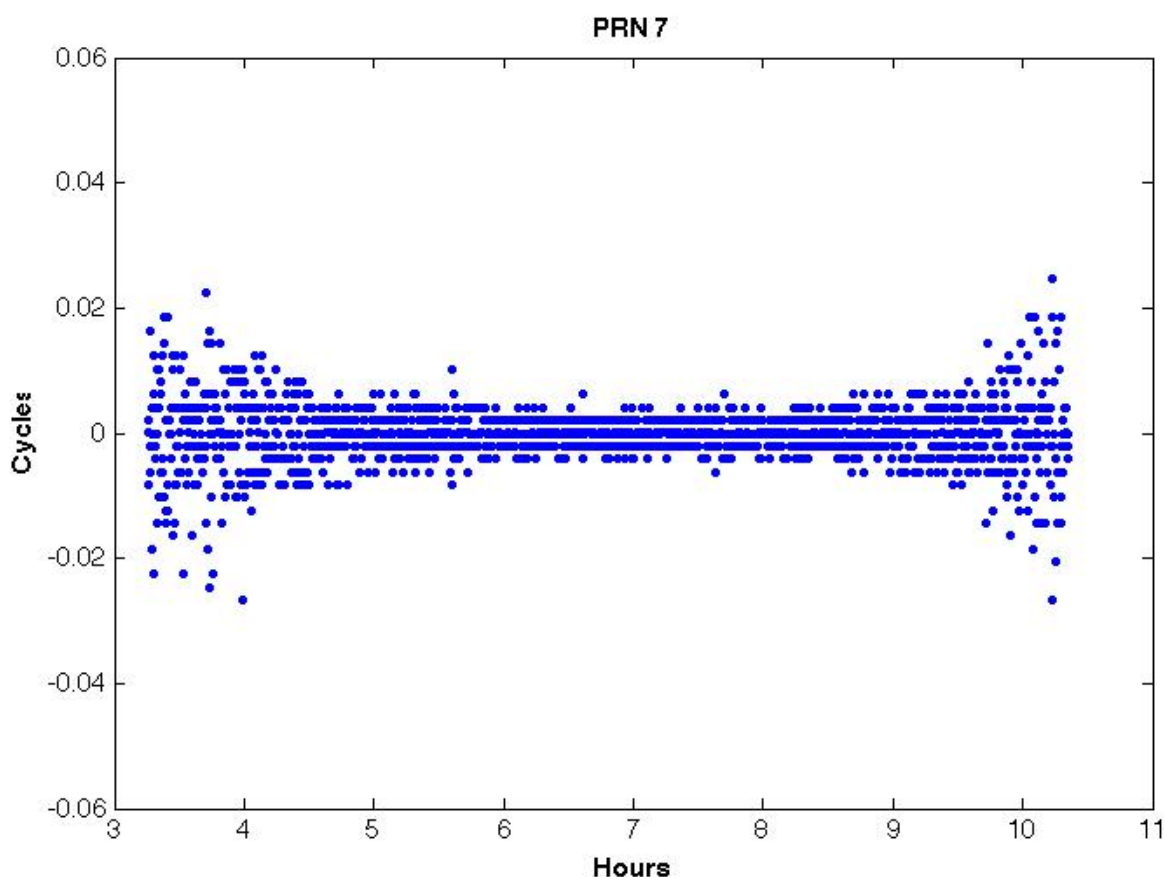
While differencing the L2 and L2C carrier phase measurements made with a Topcon NET-G3A receiver, we have observed a banding pattern; the difference between each band is  $\sim 0.002047434$  cycles.

Multiplying  $0.002047434$  cycles with the L2 wavelength we find that  $0.002047434$  cycles =  $0.5$  mm

This banding demonstrates that the digitizing resolution of the NET-G3A receiver is  $0.5$  mm for the L2 signal.

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

The following figure shows the difference between the L2 and L2C carrier phase measurements for PRN 7 from a NET-G3A receiver.



Online URL: <https://kb.unavco.org/article/digitizing-resolution-of-the-topcon-net-g3a-receiver-694.html>