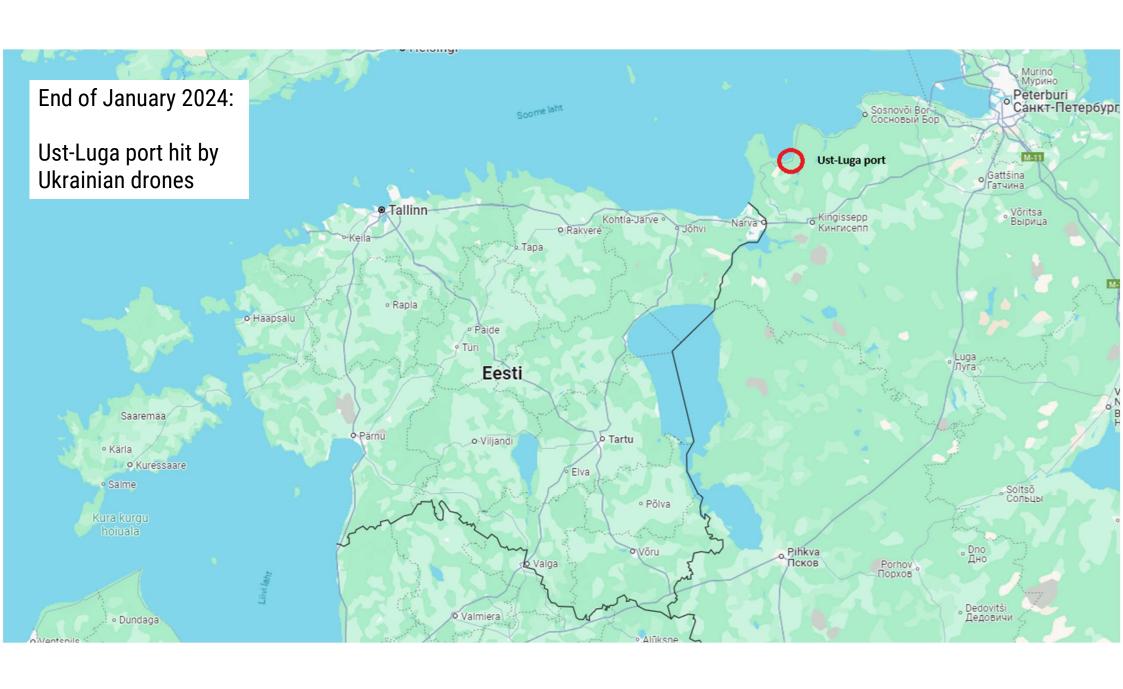


GNSS interference in Estonia

Jaanus Metsar



End of April 2024:

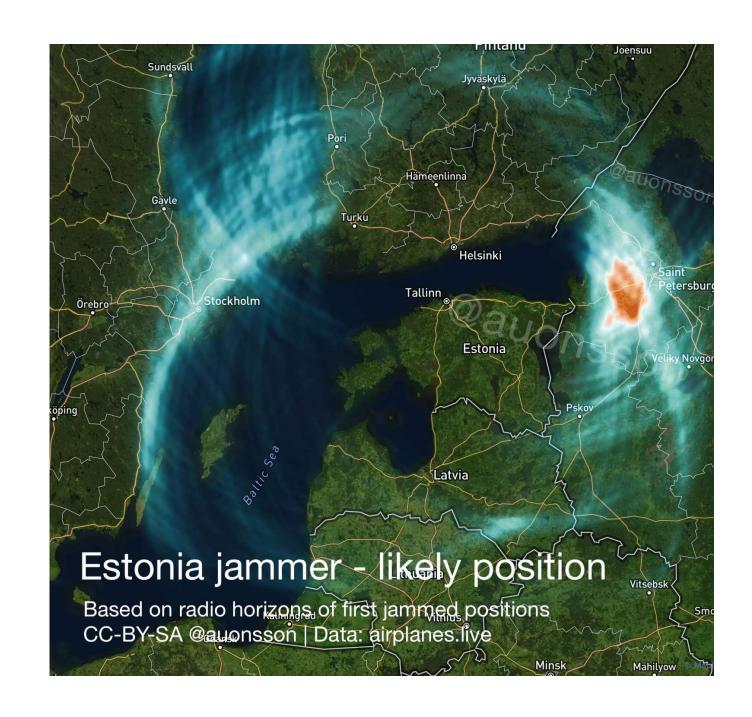
Heavy GNSS jamming detected in Estonian and Finnish airspace

Jammer believed to be near Ust-Luga port

Location confirmed by authorities

Jamming ongoing

All L1 frequency GNSS singnals affected



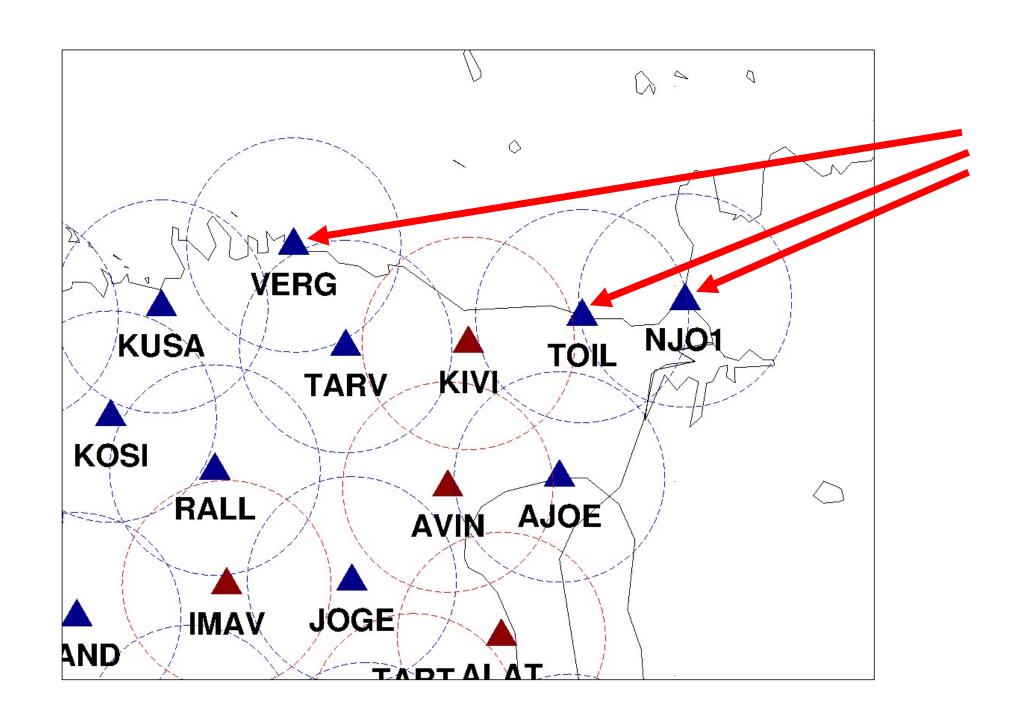
In the spring of 2024 ELB planned to do aerial surveying mostly in the North-Eastern part of Estonia

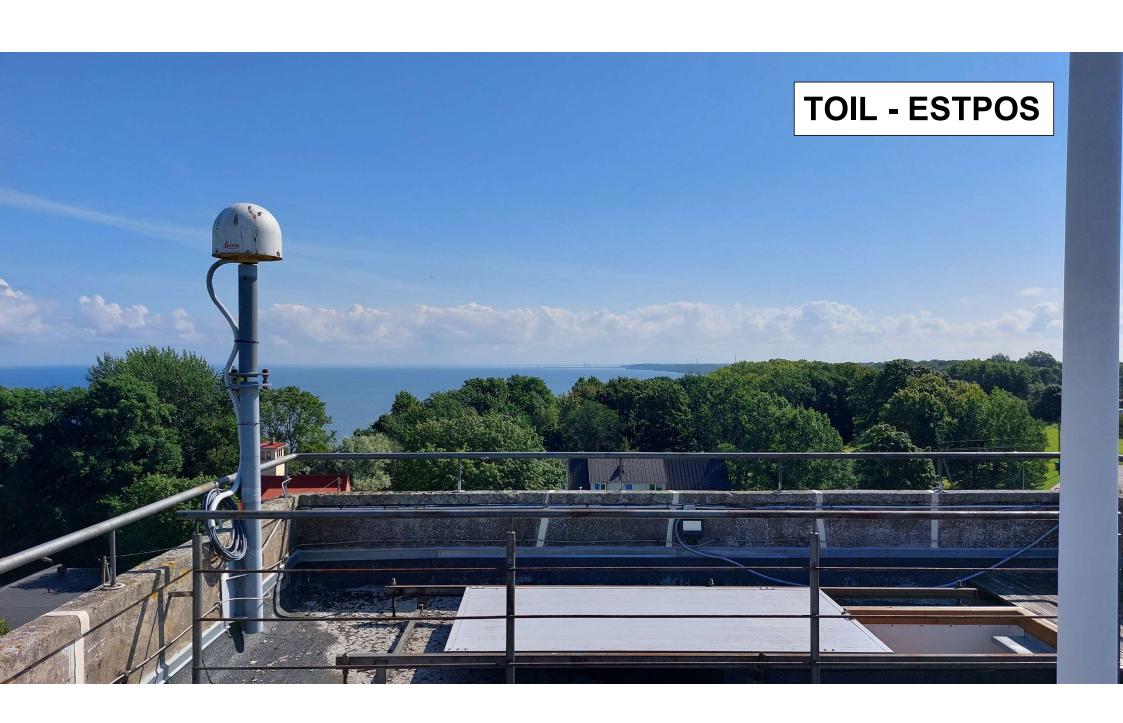
Some flights could be done on lower altitudes or when jammer was not working

A lot of the flights had to be cancelled

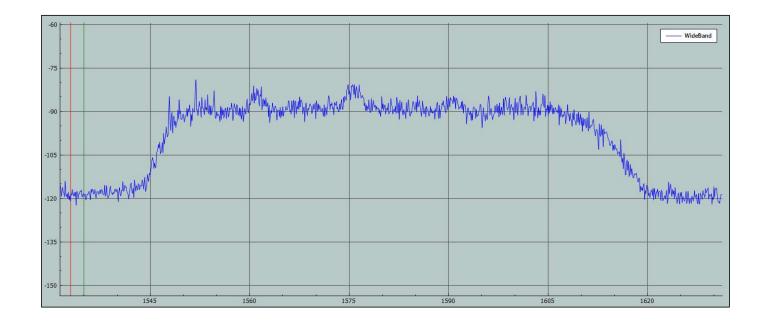
No solution to the problem





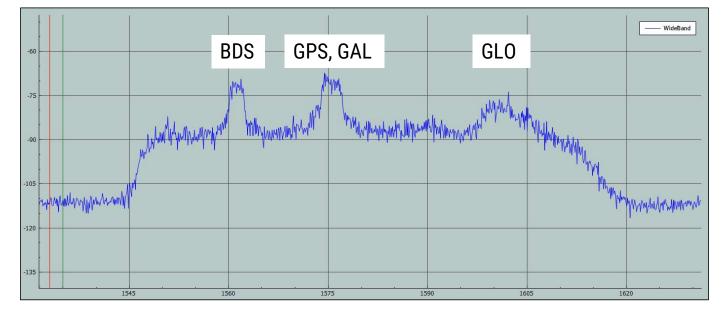




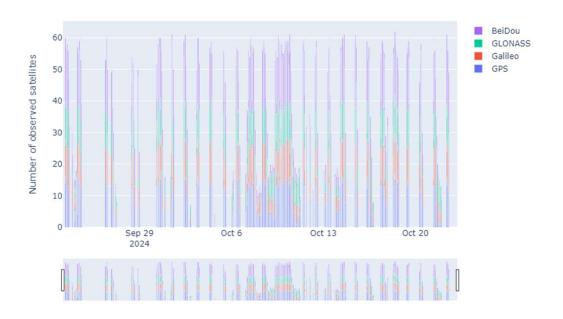




L1 - normal



Number of observed satellites



Signal-to-noise ratio



Network RTK measurement tests in august 2024

Ca 30 km radius from TOIL station

On the ground the situation is fine

If one station is affected there should be little to no affect on network RTK corrections quality

