



# Natural Science Institute of Iceland

**Náttúrufræðistofnun (NATT)**



## Natural Science Institute of Iceland (NSII)

1<sup>st</sup> of July this summer a merging of Institutes took place:

Náttúrurannsóknarstöðin við Mývatn – Mývatn Research Station

Náttúrufræðistofnun Íslands – Icelandic Institute of Natural History

Landmælingar Íslands – National Land Survey of Iceland



# Natural Science Institute of Iceland

## Scope of Operations:

- Biodiversity and Ecology
- Geology and Geodiversity
- Environmental Monitoring
- Geodetic services and Spatial data
- Public Education and Data Dissemination
- Consultation and reviews



# PROJECTS 2024-2025



# Successful Aerial Images Tender in 2024

Contracts signed with Meixner and Hexagon for acquisition  
2024-2026

## Flights in September

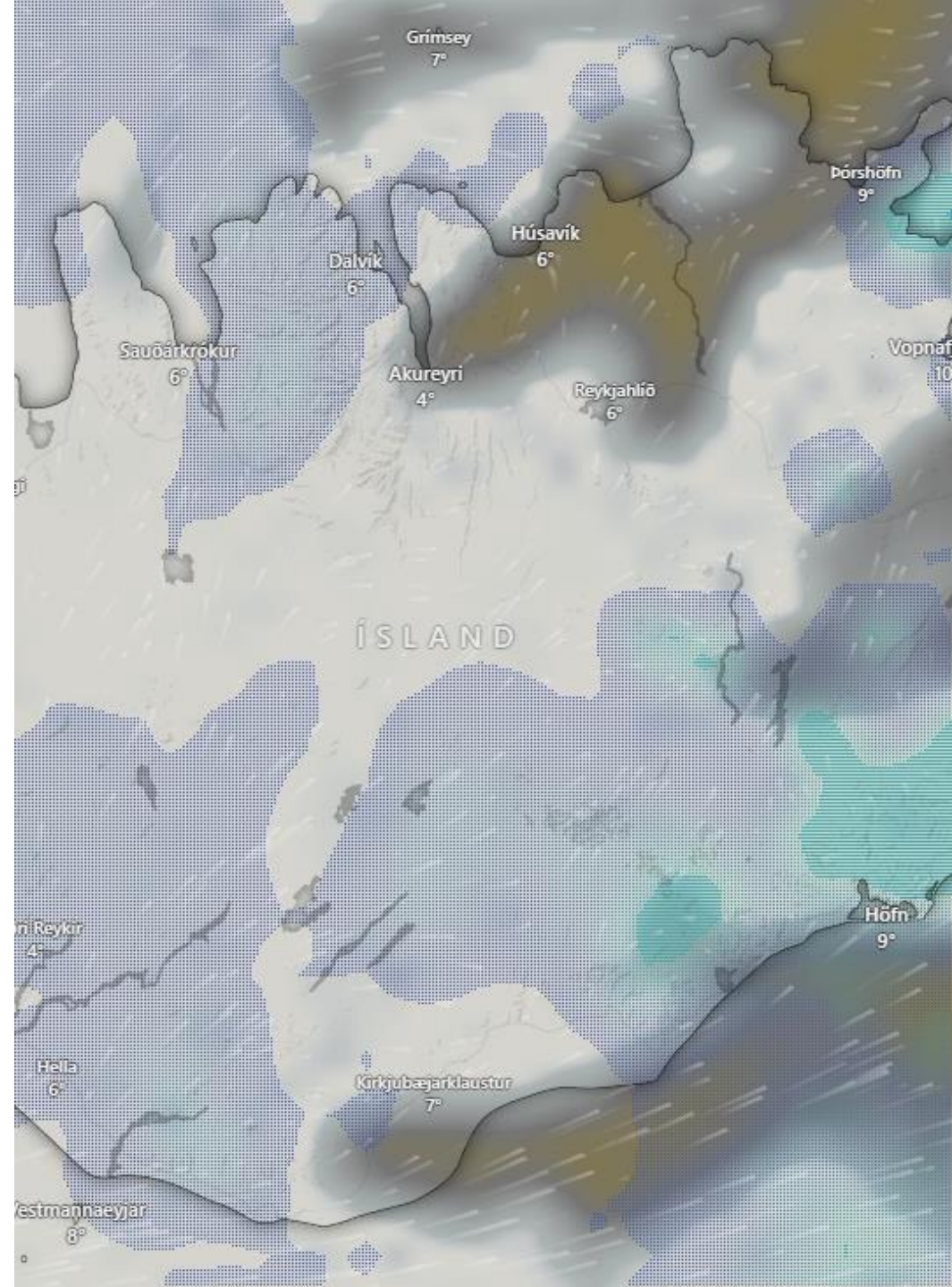
2730 km<sup>2</sup>

Vestmannaeyjar/Surtsey,  
Mýrdalssandur,  
Melrakkaslétta og  
Látrabjarg

**Total Project Cost: €2M**



Natural Science  
Institute of Iceland



# IceCORS

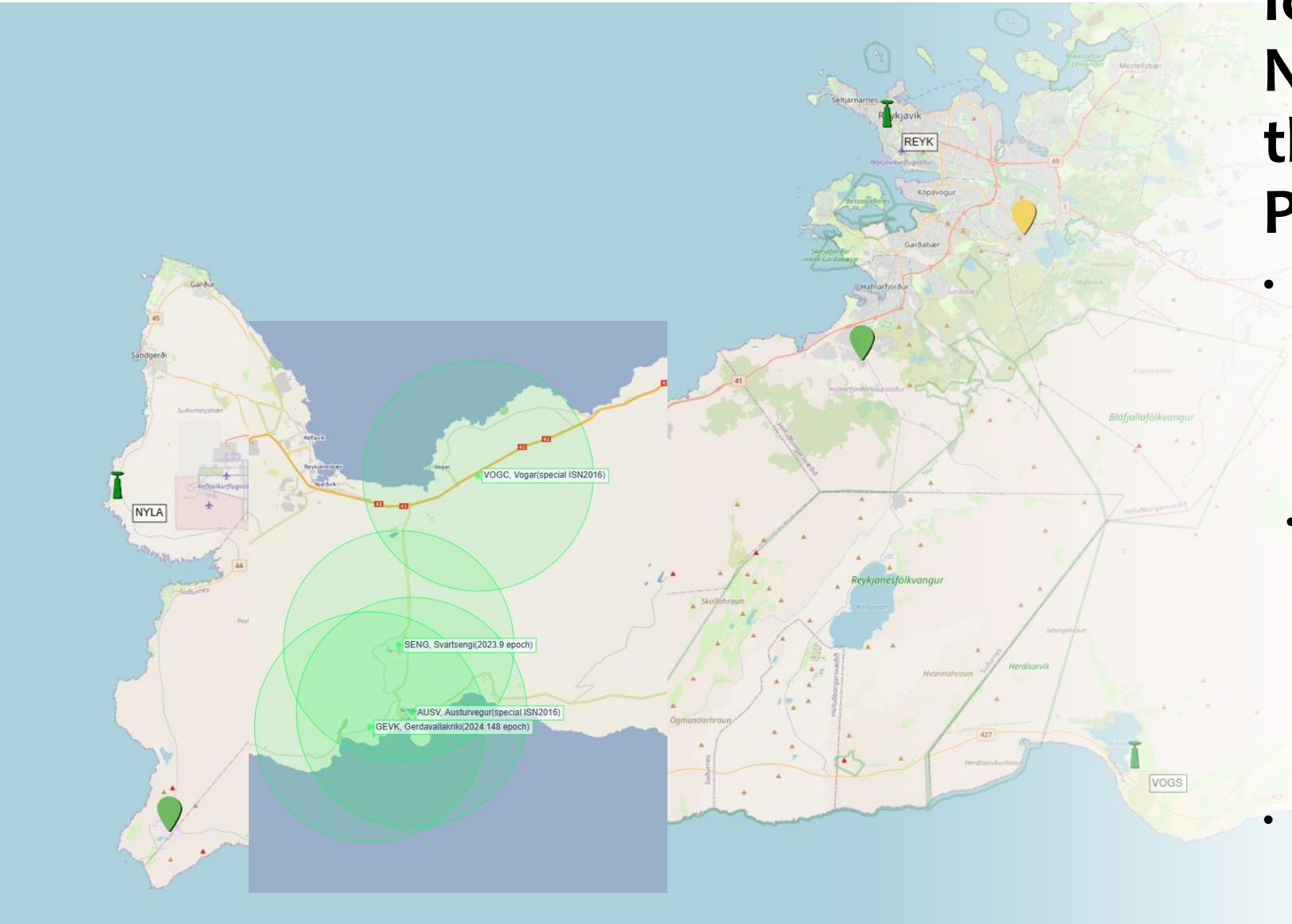
- 6 receivers have been replaced with Trimble NETR9
- KALT – a new station has been added to the network
- In the coming years, 11 more receivers will be replaced, along with antennas if needed, to ensure Galileo reception from each station in the network.



# IceCORS

## Natural hazards on the Reykjanes Peninsula

- Three organizations monitor the area
  - Natural Science Institute of Iceland
  - Icelandic Met Office
  - University of Iceland
- GNSS Single Base RTK Stations (do not belong to network)
  - VOGC, Vogar
  - SENG, Svartsengi
  - AUSV, Austurvegur
  - GEVK, Gerðavallakriki
- In 2025, the coordinates for NYLA, VOGS, and other local points in this area will be remeasured.



# Reykjanes Peninsula unrest

Eruptions: Occur every 8–12 weeks

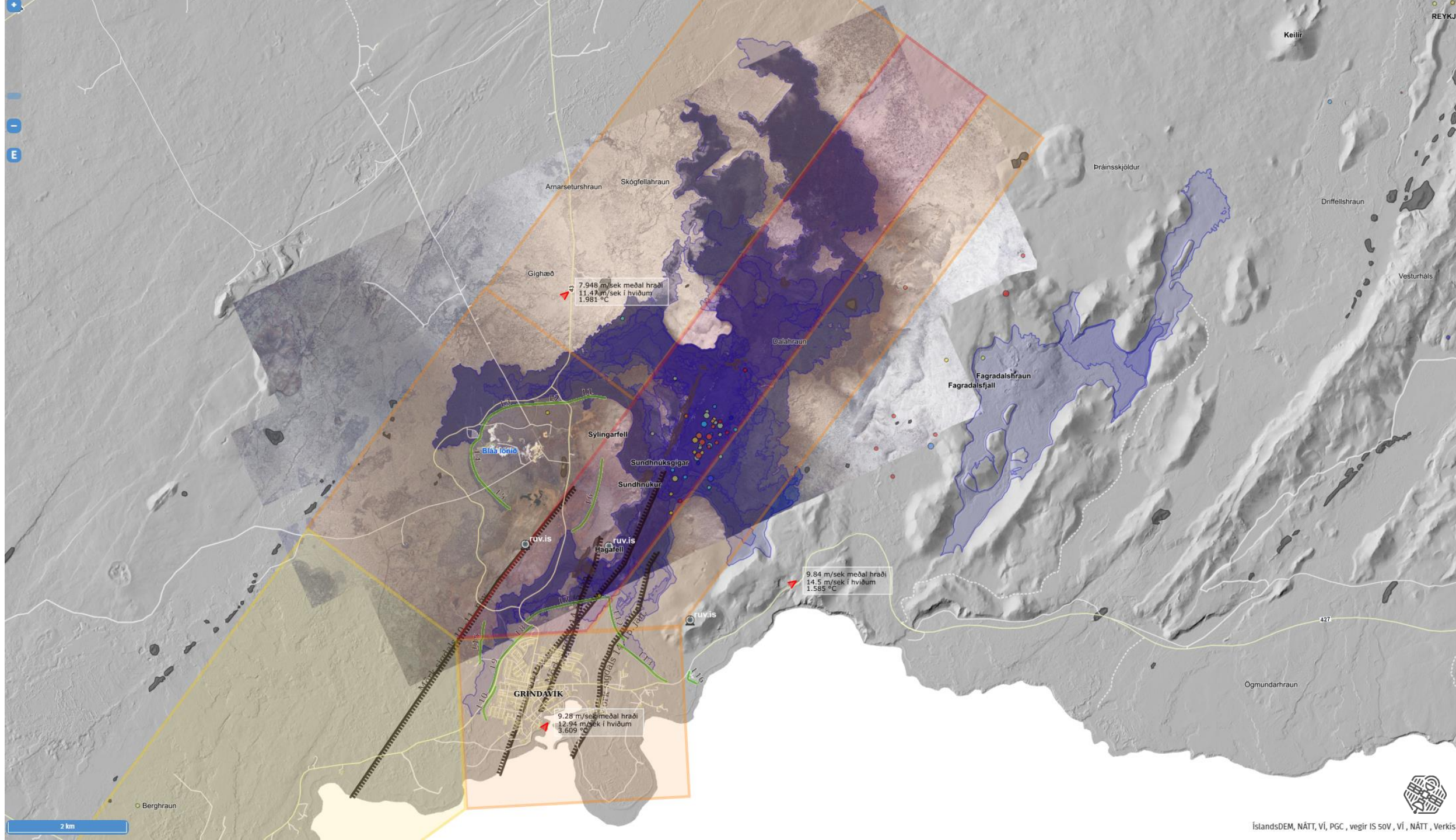
Same-Day Imaging: Provided by NSII for rapid assessment

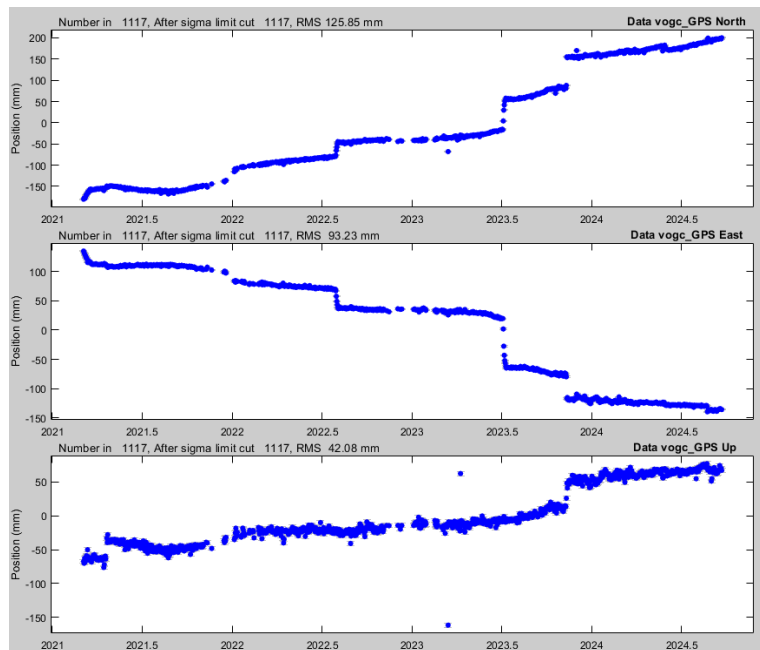
Deformation: Horizontal shifts up to 3.5 meters

Vertical Deformation: Up to 1 meter



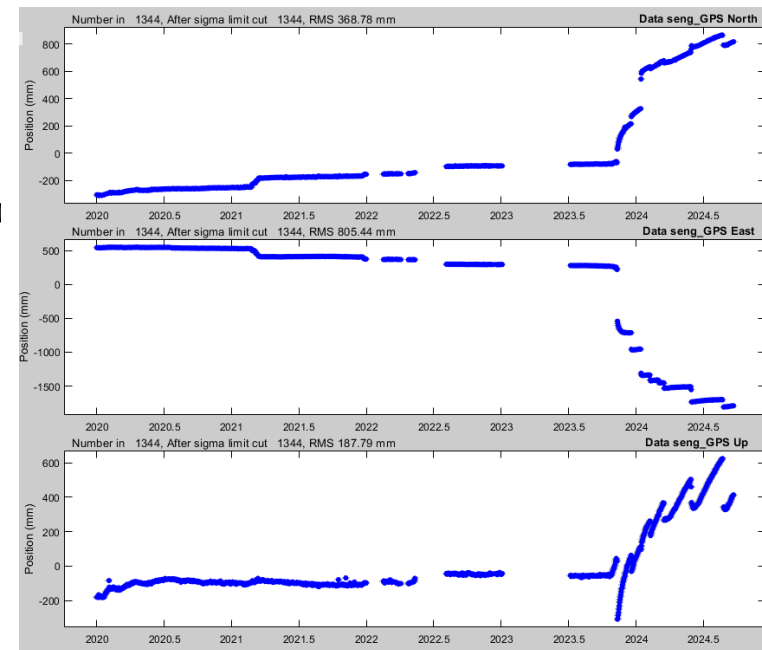




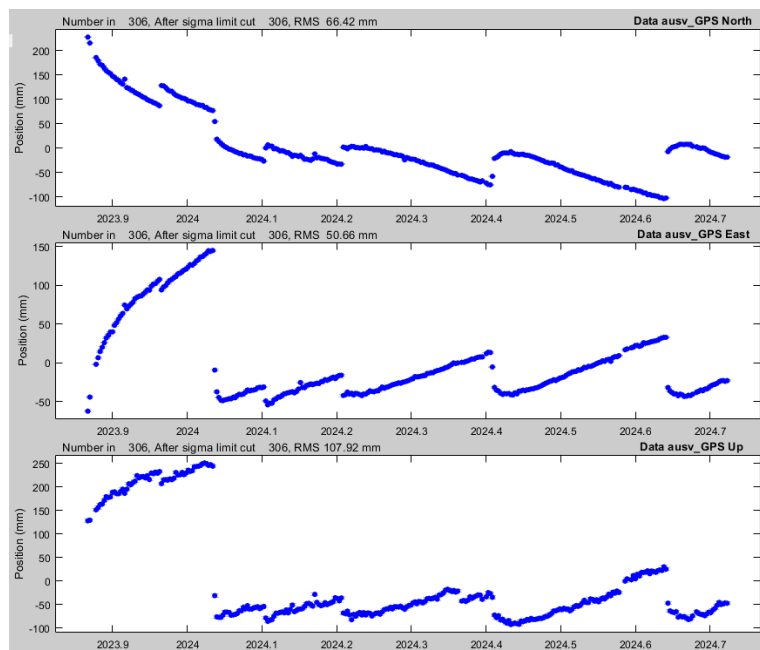


VOGC

SENG

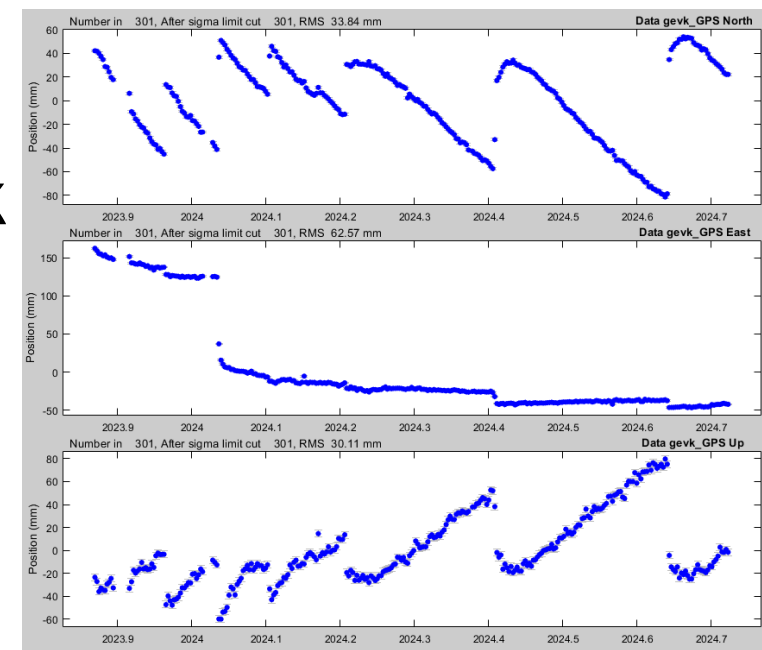


Time series



AUSV

GEVK





# NKG GNSS AC

NKG re-processing: Completed for weeks 1042-2237

NKG operational processing: Completed at week 2346

# Thank you

dalia.prizginiene@natt.is



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