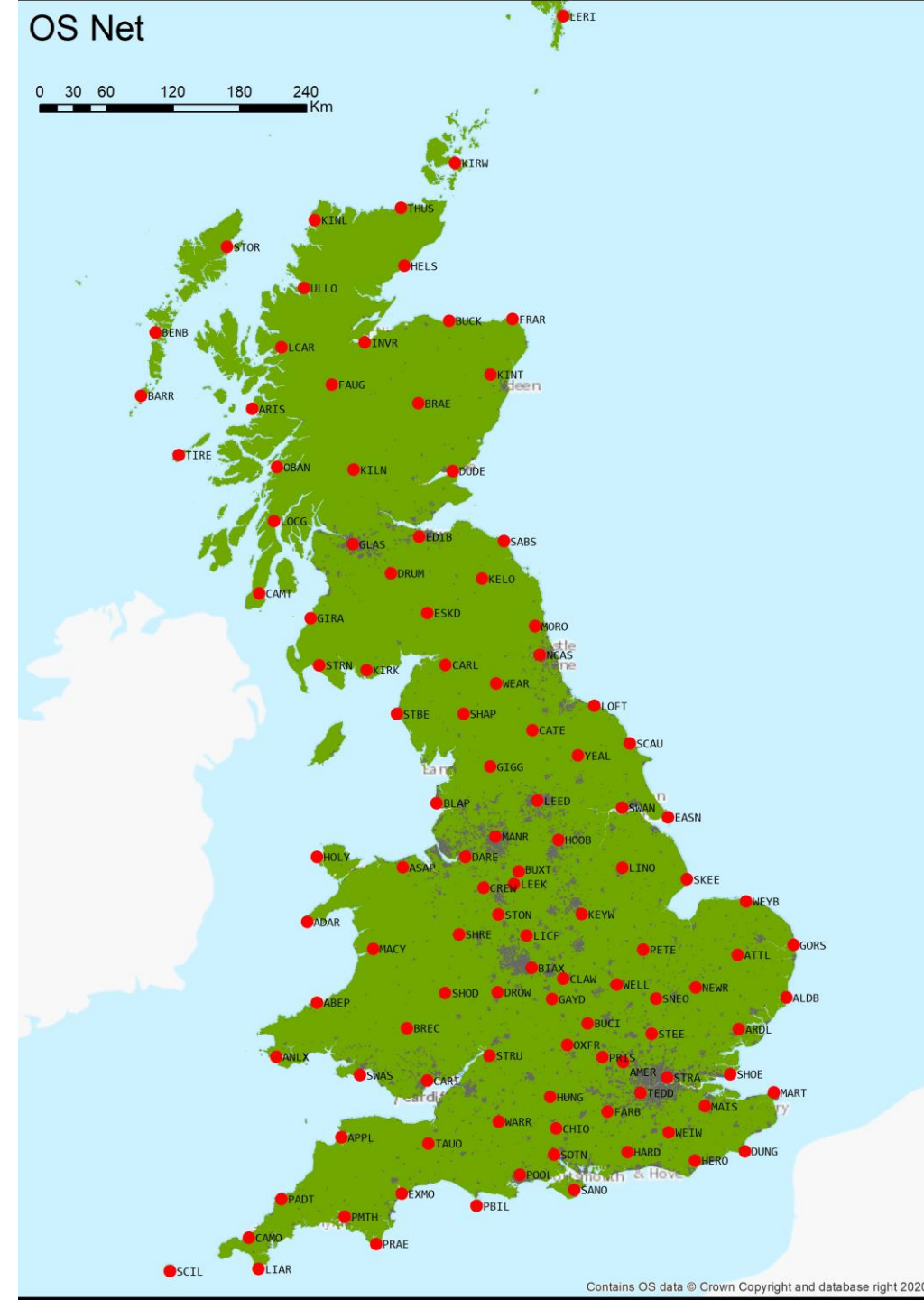


National Report of Great Britain

M. Greaves
Presentation to EUREF 2023

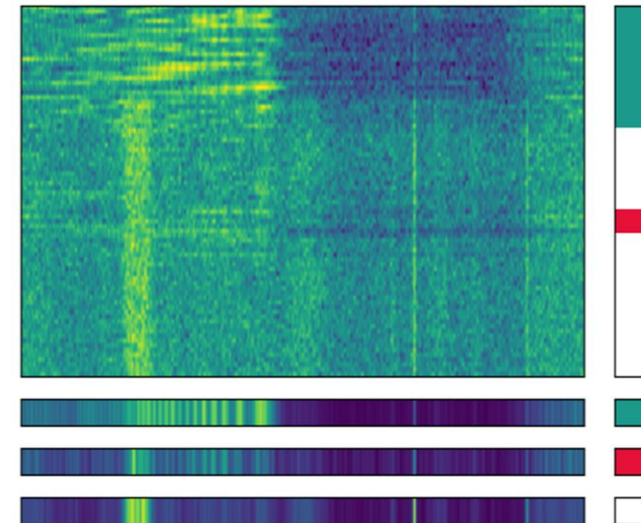
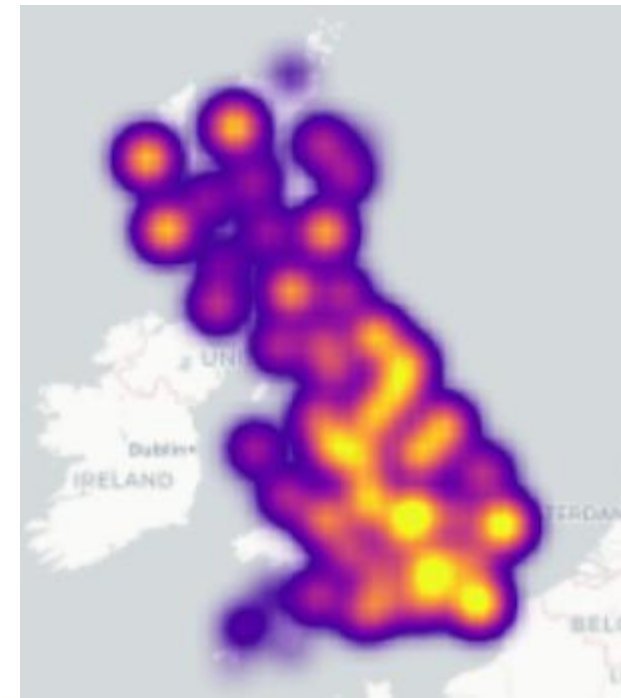
OS Net activity

- Continuing to replace older choke ring antennas that are having corrosion issues
- All historic OS Net data (back to 2000) is now available through EPOS
- The BIGF archive of UK GNSS data is now run by British Geological Survey. Intention is to carry out more data processing and analysis.
- New communications links currently being installed at all stations. Higher bandwidth, lower latency and built in 4G back up link
- New server cluster being built. “n+2” solution – 3 clustered live servers plus disaster recovery server in the Azure cloud.



GNSS Interference Monitoring

- Initially started under ESA sponsored project with support from the UK Space Agency under the NAVISP programme
<https://navisp.esa.int/project/details/116/show>
- OS Net raw GNSS spectrum data feeds is integrated with OS Net RTCM data and other nationally available sensors.
- The spectrum data analysis is automated using machine learning and AI techniques to automatically recognise, alert for and categorise interference events.
- Along with the interference being categorised the receiver's real time PNT response to interference is also being studied
- Interference / jamming is perhaps more prevalent than expected. However, CORS are usually protected to some extent from serious impacts by the robust receiver tracking and multi constellation/observable operation, but the inherent GNSS vulnerabilities remain



Reminder, resolutions at:
<https://tinyurl.com/EUREF2023Resolutions>
and
<https://shorturl.at/duEIN>

Thank you

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