



# National Report of Great Britain

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# National Report of Great Britain (1)

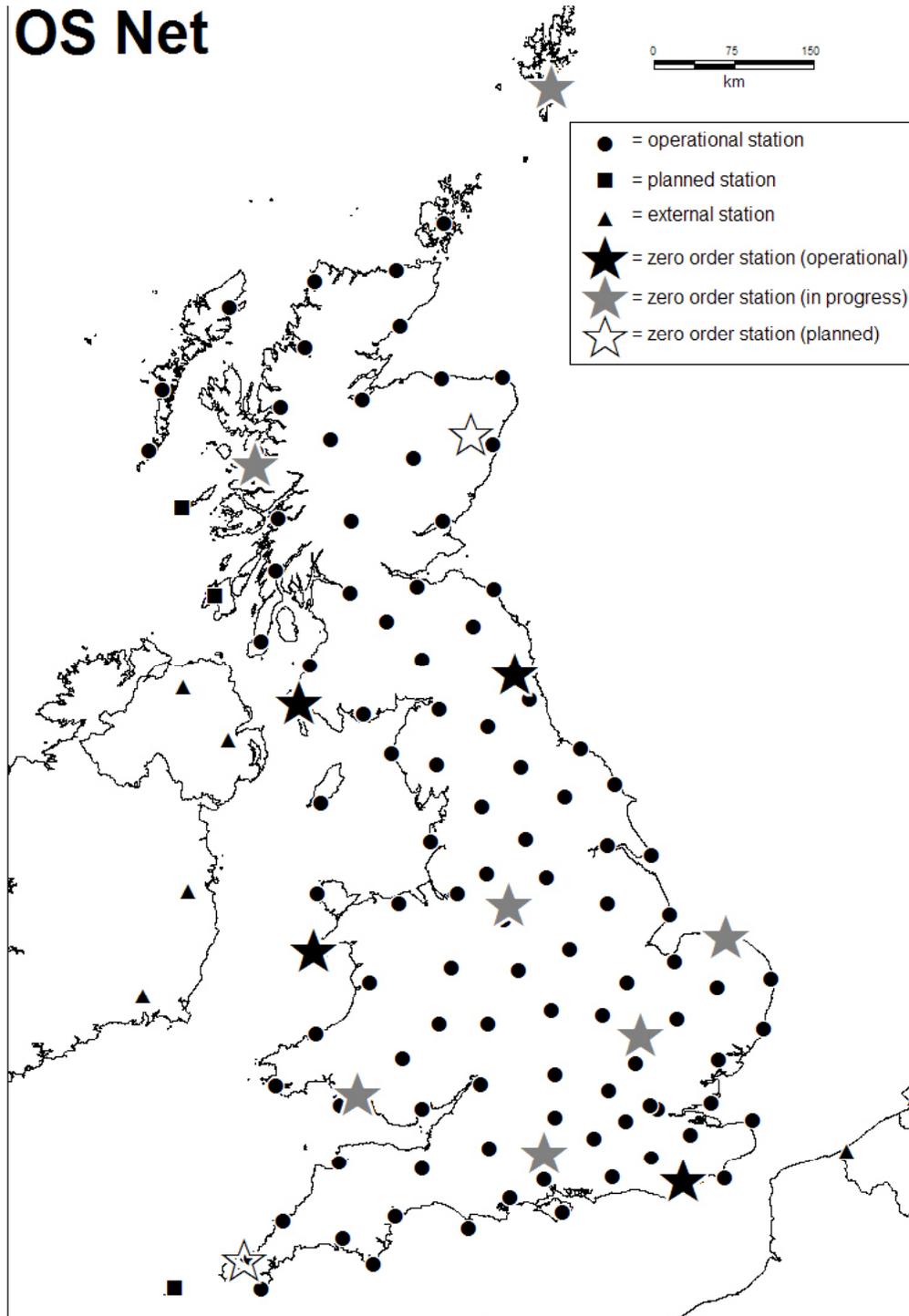
## National GPS network and RTK network developments

- OS Net™ 107 stations – all of GB covered
- Only 3 stations remain to be built
- whole network recently upgraded to GNSS
- Public RTK services provided by 3 commercial partners
- all stations submit RINEX to www – soon to be upgraded
- zero order sub network (GeoNet) underway

## Other geodetic work

- New ETRS89 realisation planned (EUREFGGB2009)
- New geoid model will follow – will allow Channel Tunnel link to be completed

# OS Net



Typical OS Net sites:



Typical GeoNet sites:



## National Report of Great Britain (2)

NERC BIGF British Isles GPS archive Facility, [www.bigf.ac.uk](http://www.bigf.ac.uk)

- Hosted by IESSG at the University of Nottingham
- Long term national archive until at least 2014
- 155 stations - 6 IGS/EPN and 4 IGS TIGA
- Submissions to E-GVAP and ESEAS

Herstmonceux Space Geodesy Facility

- Re-analysis of all post 1983 laser data underway
- Old HERT receiver re-sited for local network studies
- Upgrade to H-maser frequency source has been approved
- FG5 gravity analysis to date shows lower than expected seasonal hydrological changes.

# National Report of Great Britain (3)

## Newcastle University

- Network RTK studies and guidelines
- Tidal and surface mass loading studies

## University of Nottingham

- Land and sea level change monitoring
- Mitigation of ionospheric scintillation effects on GNSS

## University College London

- Geoid model improvements
- Vertical offshore reference frame work