



# National Report of Great Britain

M. Greaves & C. Fane, R. Bingley & D. Baker, G. Appleby, M. King and R. Ioannides

Presentation to EUREF 2007, June 2007

# National Report of Great Britain (1)

## National GPS network and RTK network developments

- OS Net™ now 98 stations – most of GB covered
- Full GB coverage by end 2007 ~110 stations in total
- Public RTK services provided by 2 commercial partners
- all stations submit RINEX to www
- zero order sub network (~15 to 20 stations) planned
- GPS/GLONASS sub net in Thames Gateway and Olympics
- upgrade whole network to GNSS next year

## Other geodetic work

- New geoid model later this year
- Channel Tunnel levelling

### OS Net Stations

- = operational station
- = planned station

0 50 100  
km



## 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 2009
- 128 stations - 3 IGS, 7 EPN and 4 IGS TIGA
- Submissions to ESEAS, COST 716 and TOUGH

Herstmonceux Space Geodesy Facility

- SLR laser upgrade to short pulse, 2 kHz repetition rate
- First to observe Galileo GIOVE-A
- Facility now an ILRS Analysis Centre
- Upgrade to HERS and HERT considered
- FG5 gravity meter now fully operational

# National Report of Great Britain (3)

## Newcastle University

- GNSS error studies
- No net rotation reference frame determination
- New GNSS station MORG near to IGS station MORP
- GNSS monitoring of tectonic deformation

## University of Leeds

- Ionospheric effects on GNSS

## University College London

- Vertical offshore reference frames