

## National Report of Finland

M. OLLIKAINEN, M. VERMEER, J. KÄÄRIÄINEN<sup>1</sup>

During the period reported the following EUREF-related activities took place in Finland:

- The Finnish Permanent GPS Monitoring Network FINNREF<sup>®</sup> operated reliably, downloading every 24 hours 30 second data from all twelve stations to the headquarters in Masala. Four stations of FINNREF<sup>®</sup> belong to the EUREF permanent GPS network
- The results of the EUREF densification network, comprising the observations and coordinates of 100 densification points, were published in the series of the FGI. A subset of the network was accepted as official EUREF points in Prague meeting 1999. The computations of the new densification network measured in 1998-99 were completed. The number of the points included in the second phase densification is 344. The points were chosen in easily accessible locations, mainly from the list of the points proposed by the sister institutes: National Land Survey and National Board of Navigation.
- The satellite laser, GPS and DORIS observations were continued at the Metsähovi research station. A GPS/GLONASS receiver was purchased in 1998 and it has been used for measuring experiments concerning satellite positioning systems (International GLONASS experiment).
- A total of 402 km double-run precise leveling was performed. The field works of the Third Precise Levelling of Finland are planned to be completed in three years, after which the revision of the Finnish height system will become actual.

The inter-agency working group, which carried representatives from many state institutes and agencies involved in coordinate related work, gave its final report to the director of the FGI. The report includes proposals for the future coordinate and reference system to be used in Finland.

---

<sup>1</sup> Matti Ollikainen, Martin Vermeer, Jussi Kääriäinen: Finnish Geodetic Institute, Geodeetinrinne 2 (PL 15), FIN-02431 Masala, Finland; Fax: +358 9 29 555 200, Tel.: +358 9 29 555 217, E-mail: matti.ollikainen@fgi.fi/martin.vermeer@hut.fi