Sweden (SWEN08_RH70)

Authors: J. Ågren **Created:** 2008 **Resp:** J. Ågren
Status: PUBLIC

Description:

SWEN08_RH70 is a Swedish height correction model that has been computed by adapting the Swedish gravimetric quasigeoid model KTH08 to the Swedish three-dimensional reference system SWEREF 99 (ETRS89 realization) and to the **old Swedish height system RH 70**. It is referred to the GRS 80 ellipsoid and extends from 54°N to 74°N and from 10°E to 25°E with a grid spacing of 1.2'x2.4'. The model has been computed from the model SWEN08_RH2000 by taking care of the difference between the Swedish height systems RH 2000 and RH 70. The model includes permanent tide and postglacial land uplift corrections as well as an interpolated smooth representation of the Swedish GNSS/levelling residuals. See the description of SWEN08_RH2000 for more details.

References:

J. Ågren (2009) Beskrivning av de nationella geoidmodellerna SWEN08_RH2000 och SWEN08_RH70 (in Swedish). Reports in Geodesy and Geographic Information Systems, 2009:1, Gävle, Sweden.

J. Ågren, L E Sjöberg and R Kiamehr (2009) The New Gravimetric Quasigeoid Model KTH08 over Sweden. Journal of Applied Geodesy 3: 143-153.

Grid formats:

The grid is made available in three different formats:

1. GRAVSOFT ASCII-format (*.txt)
2. GRAVSOFT binary format (*.grd)
3. A row-wise ASCII format with one height anomaly per row with the latitude and longitude explicitly given using the same order as in the GRAVSOFT ASCII-format (*.dat)