GEOID MODEL
FOR
SURVEYING IN
LATVIA

MODELLING AREA
East longitude
20 - 30
North latitudes
55 - 59
Cooperation needed for gravity DATA

TACKLE AND DATA FOR GEOID MODELLING:
✓ GRAVSOFT
✓ EGM 1996 or newer
✓ Terrestrial gravity data, etc.
✓ DGPS/DGNSS or network LATPOS
✓ Levelling data
✓ Adjustment / fitting to geodetic points

\[ h - H - N = 0 \]
On Baltic Sea

First with success satellite altimetry from ERS-1 already in 1995 was used
Now we go for better fitting points!

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Accuracy 6 cm

Gradient up to 20 mm/km

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FUTURE TASKS

- Territory of LV ~ 64 000 km²
- Complete levelling ~ 3 000 km
- Connect to first and second DGPS network
- Evaluate EGM start 1996 up to 2008 …
- Obtain more precise geoid model 1 -2 cm

COOPERATION FOR FUTURE

- Within Baltic countries and Nordic Commission of Geodesy – NKG
- Within IAG sub-commission EUREF
- Practical and theoretical implementation of geoid models together with FIG WG
- To solve global questions and give feedback on demands of society
Thank You!

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