

MAA-AMET
Estonian Land Board

National report of Estonia

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Topics

- Reference networks
- Long term Peipsi water level variations
- Interdisciplinary study with geologists, archaeologists

2

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Geodetic networks in Estonia

- Geodetic reference network
- Height network, geoid model
- Gravity network

See [talk yesterday](#) (Geoid WG meeting)

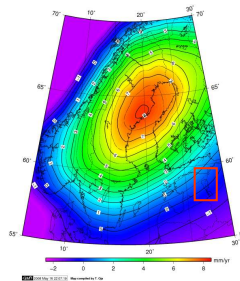
3

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Peipsi water level variations

- "Land uplift on Lake Peipsi using water level observation data", Master's Thesis, R.Raamat, 2009, EULS (dept. Geomatics, supervisor T. Kall)
- Lake level observation and heights of the local benchmarks were digitized (from EMHI archive) and analysed (stations along the Estonian and Russian coasts)
- The longest timeseries 83 yrs

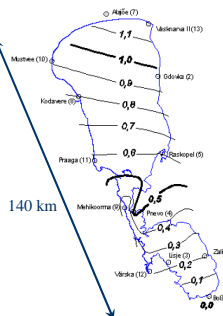


4

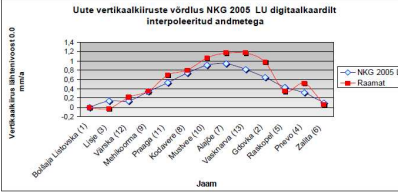
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Peipsi water level variations



140 km



Uute vertikaalkiiruste võrdlus NKG 2005 LU digitaalkaardilt interpoleeritud andmetega

Y-axis: Vertikaalkiiruste nihkemäär (mm/a)

X-axis: Jaam

Legend: NKG 2005 LU (blue line), Raamat (red squares)

5

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Interdisciplinary study with geologists, archaeologists

- "Development of the Baltic Sea coastline in Estonia through time: palaeoreconstructions and predictions for future" (ETF7294, www.etis.ee), period 2008 - 2012
- Geological-archaeological evidences (palaeo-shorelines, settlements) of water-level change from study areas (Narva, Pärnu etc) are collected and used to compile a new shore displacement curves
- GIA modeling should be included to combine palaeogeographic and present-day geodynamics information

6

2010-03-11