



National Report of Turkey

to

EUREF 2012 Symposium

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Activities After 2011 Symposium



Connection of national levelling network to the UELN



Workshop on height modernization





Levelling Network Connection



Meeting on 15 April 2010

- Construction of benchmarks at two border gates
- Field measurements of spirit levelling and gravity in 2011 summer
- Exchange data for individual processing
- Report preparation









Levelling Network Connection

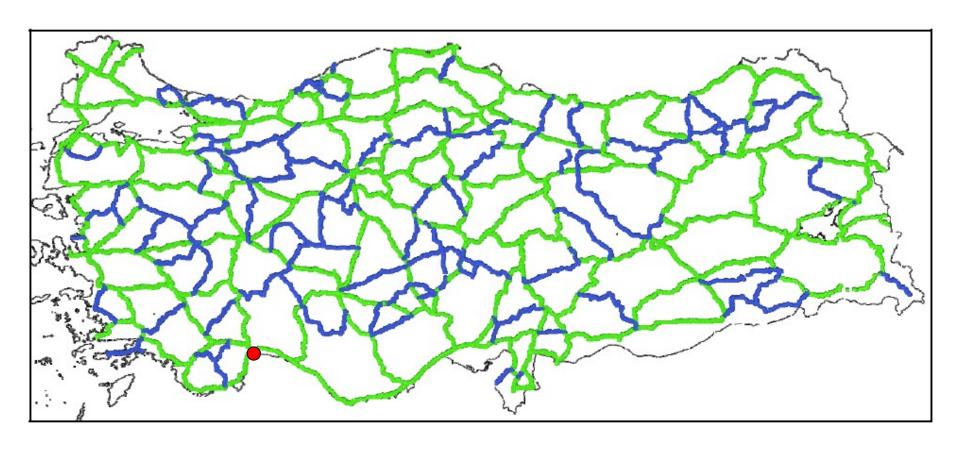


$$H_{EVRF2007} = H_{TUDKA99} + a_1$$

BM	H _{TUDKA99}	H _{EVRF2007}	a_1
NR10	48.2634	47.8574	-0.406 m.
NR07	653.9477	653.5430	-0.404 m.





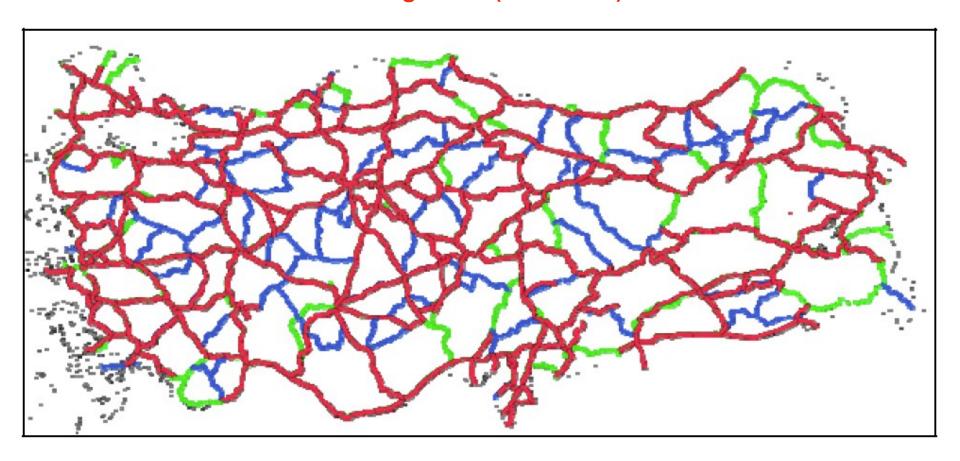


Continuous Damage in Levelling Network
Current way of height determination not sustainable





Roads Enlargement (2003-2011)



~63% destructed







- Held in March 2012 in Zonguldak Karaelmas University

Topics:

- Current situation of the national vertical reference system,
- Recent and presently conducted modernization projects throughout the world,
- Suggestions for the definition and realization of the new vertical CRS





The general conclusion;

- Improve the geoid model
- Make field works to increase quality and quantity of the gravity data,
- Re-level some part of the existing network and increase GNSS/levelling sites,
- Measure deflection of vertical by digital zenith camera.





Thank You