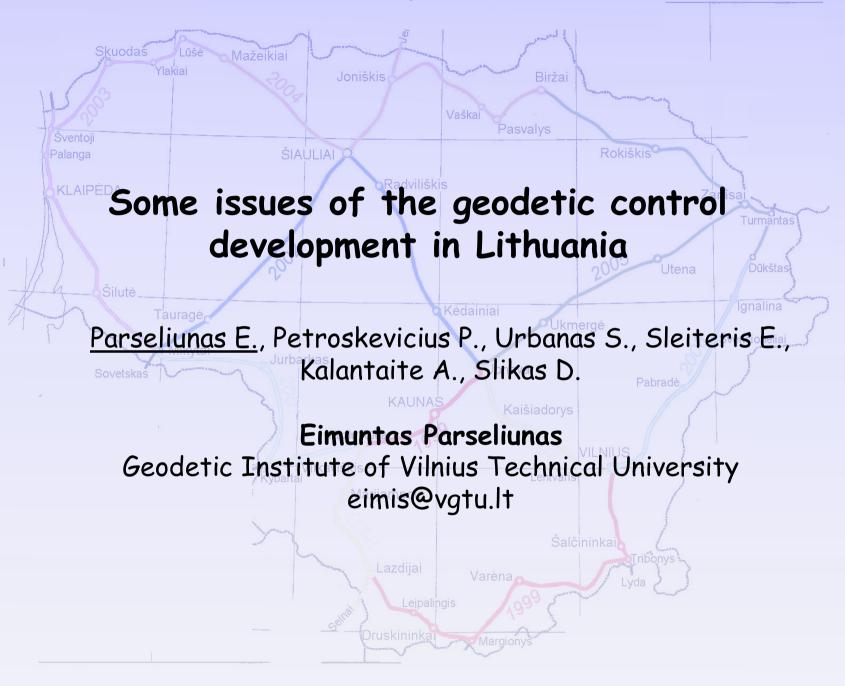
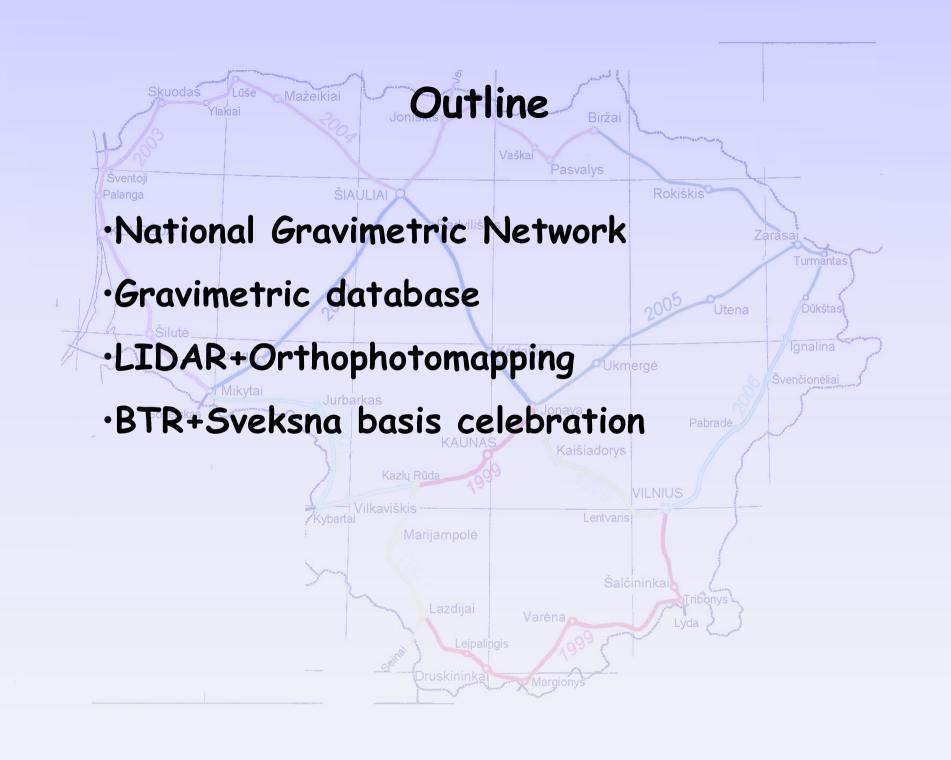
National report of LITHUANIA



EUREF Symposium, 2010, Gavle, Sweden



Lithuanian National Gravity First Order Network (48 points)

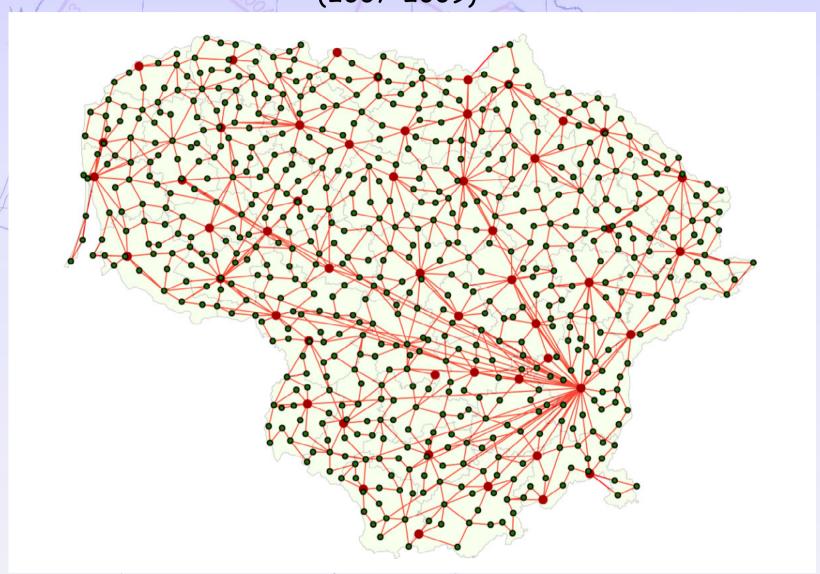


Lithuanian National Gravity Second Order Network (636 points)

Kuodas Lūšė Mažeikiai Ylakiai

(2007-2009)

Biržai



Gravity acceleration corrections at the first order gravimetric points, μGal	Gravity accelerate	ion corrections at t	he first order gravi	imetric points, μGal
--	--------------------	----------------------	----------------------	----------------------

Punkto	Punktas	Pataisa,
kodas		μGa1
24G-0001	ŠILUTĖ	15
25G-0002	KRETINGA	25
26G-0005	SKUODAS	5
34G-0001	TAURAGĖ	0
35G-0001	ŠILALĖ	10
35G-0002	RIETAVAS	11
36G-0003	TELŠIAI	-10
36G-0004	MAŻEIKIAI	3
43G-0005	ŠAKIAI	0
43G-0006	VILKAVIŠKIS	5
44G-0005	JURBARKAS	21
44G-0006	GIRKALNIS	22
45G-0003	STULGIAI	21
45G-0004	KELMĖ	-3
46G-0005	KURŠĖNAI	0
51G-0001	DRUSKININKAI	2
52G-0009	LAZDIJAI	-3
52G-0010	MARIJAMPOLĖ	2
54G-0006	KĖDAINIAI	0
55G-0006	ŠEDUVA	5
55G-0007	ŠIAULIAI	5
56G-0005	PAKRUOJIS	4
56G-0006	JONIŠKIS	-14
56G-0007	ŽAGARĖ	- 7

order gravimenta pontis, acom				
62G-0008	VARÉNA	-11		
62G-0009	ALYTUS	0		
63G-0004	ŻIEŻMARIAI	14		
63S-1435	PILIUONA	5		
64G-0006	UKMERGĖ	-4		
64G-0007	JONAVA	7		
65G-0006	ŠILAI	-11		
66G-0002	SALOČIAI	-2		
66G-0003	BIRŽAI	-2		
66G-0004	PASVALYS	8		
72G-0008	ŠALČININKAI	6		
72G-0009	EIŠIŠKĖS	0		
72G-0010	PIRČIUPIAI	6		
73G-0006	MAIŠIAGALA	22		
73G-0007	VIEVIS	9		
74G-0004	ŠIRVINTOS	5		
74G-0005	MOLĖTAI	9		
75G-0005	KUPIŠKIS	3		
76G-0003	PANDĖLYS	8		
76G-0004	ROKIŠKIS	2		
83G-0003	PABRADĖ	4		
84G-0003	VIDIŠKĖS	-1		
85G-0005	UTENA	1		
85G-0006	ZARASAI	0		





GRAVIMETRINIO ANTROSIOS KLASĖS TINKLO PUNKTAS

KERNAVĖ 73G-0018

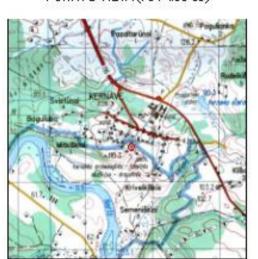
LSS 07 sunkio pagreitis (2007 m. gravimetriniai matavimai) **g = 981 470,629 mGal**

LAS 07 normalinis aukštis (2004 m. geoido modelis) *H*_n = **111,56 m** LKS 94 geodezinės koordinatės (2007 m. GPS matavimai (Lit POS RTKNet paslauga)) **B** = 54 53 05,583 **x** = 6 083 531,10 m

 $L = 24^{\circ}51^{\circ}07,897^{\circ}$ $y = 554^{\circ}679,79^{\circ}$ m

Elipsoidinis aukštis (2007 m. GPS matavimai (Lit POS RTKNet paslauga)) *H*_e = **136,49 m**

PUNKTO VIETA (70-74/35-39)



PASTATO FASADAS



ZENKLO VIETA





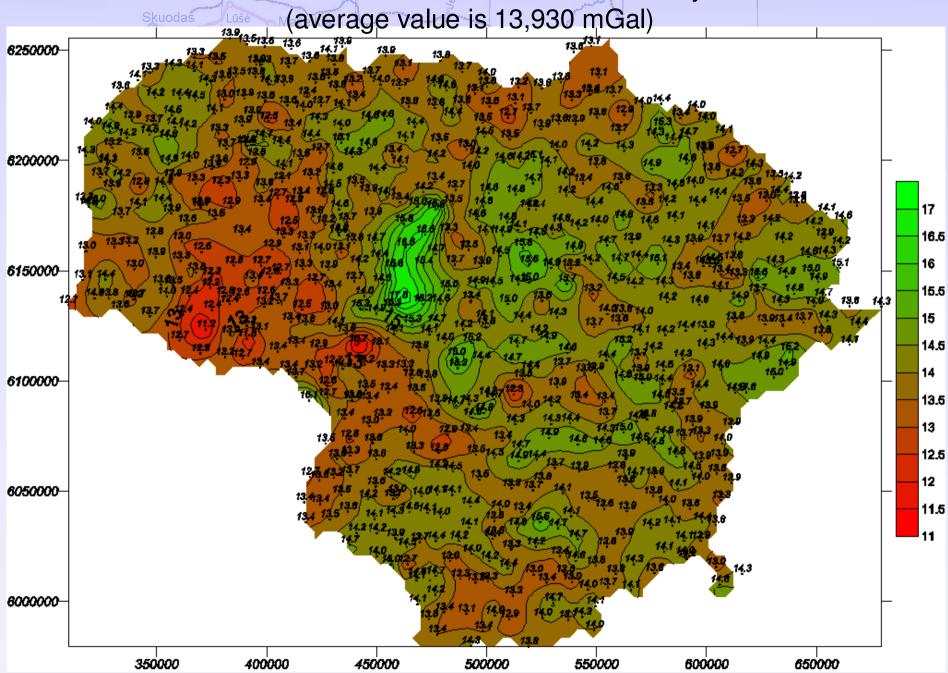
Svc. Mergeles Manjos Skapliennes baznycios kainojo įejimo desinėje pusėje. Kemiaus $g, \theta,$ Kemavė, Širvintų r, sav.

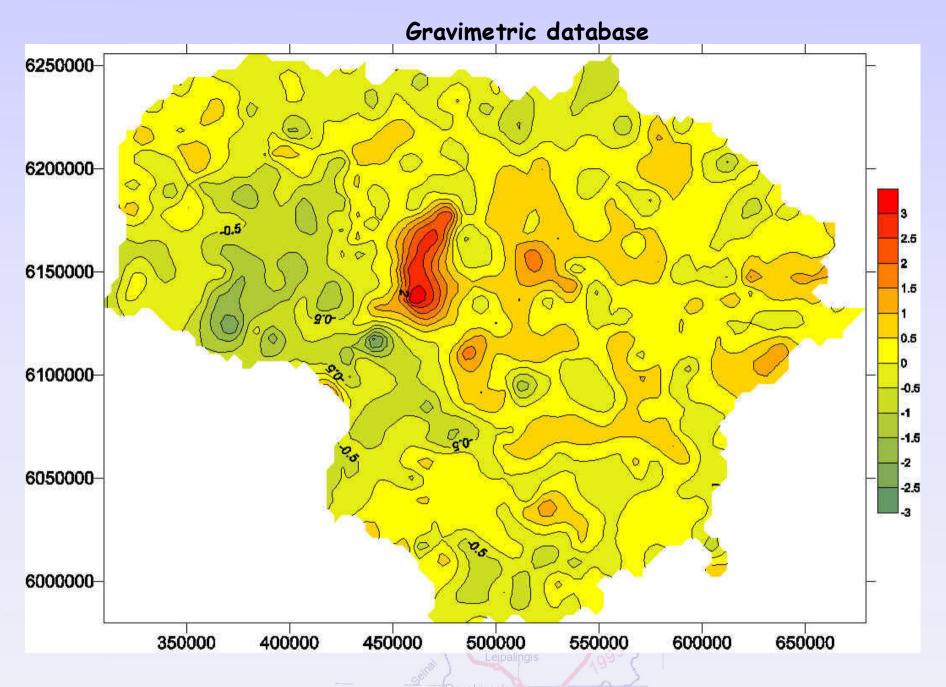
Punkto vieta aprašė P. Viskortas, 2007 00

ure plans



Differences between Potsdam and IGSN71 systems





Differences of Bouguer anomalies at 686 points (Bmap-Bnew)

Gravimetric database 6250000-6200000-2.5 6150000-1.5 0.5 6100000--0.5 -1.5 6050000-

Differences of Bouguer anomalies at 10645 points (Bmap-Bmodel)

500000

550000

650000

600000

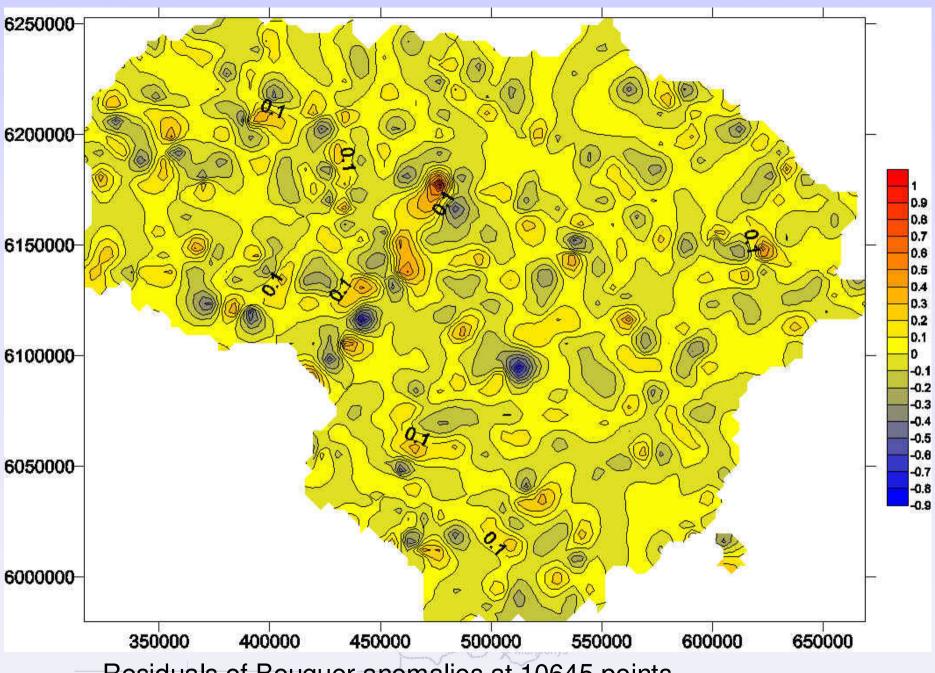
450000

400000

350000

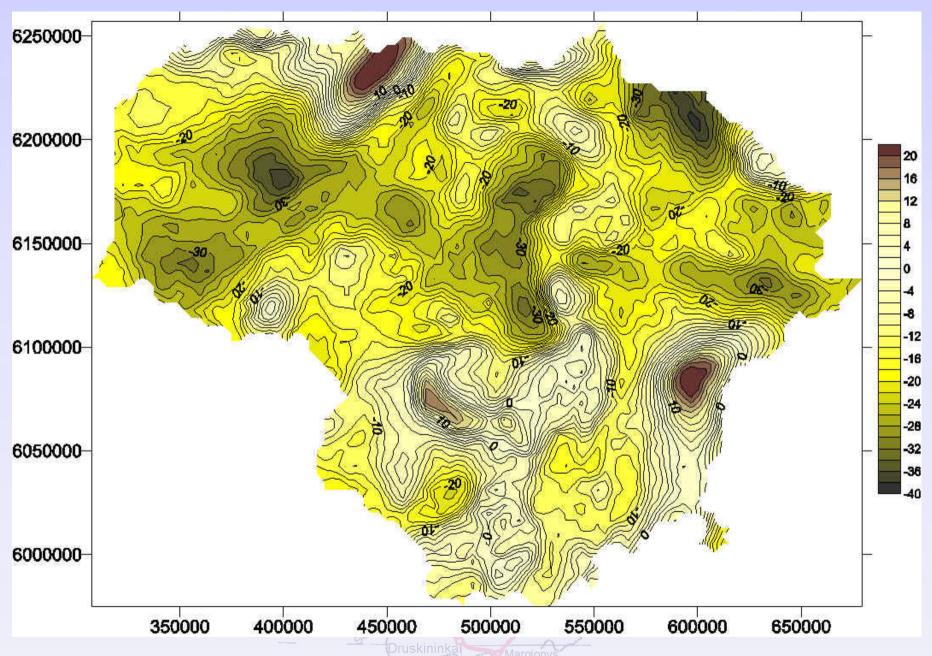
6000000-

Gravimetric database



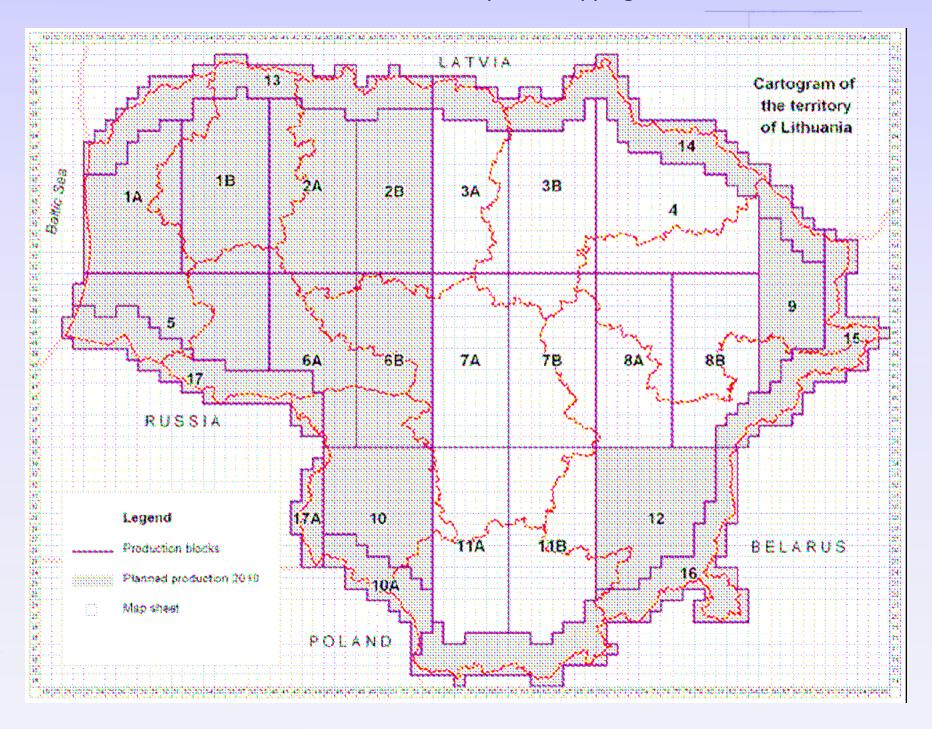
Residuals of Bouguer anomalies at 10645 points

Gravimetric database



Bouguer anomalies based on 686+10645 points

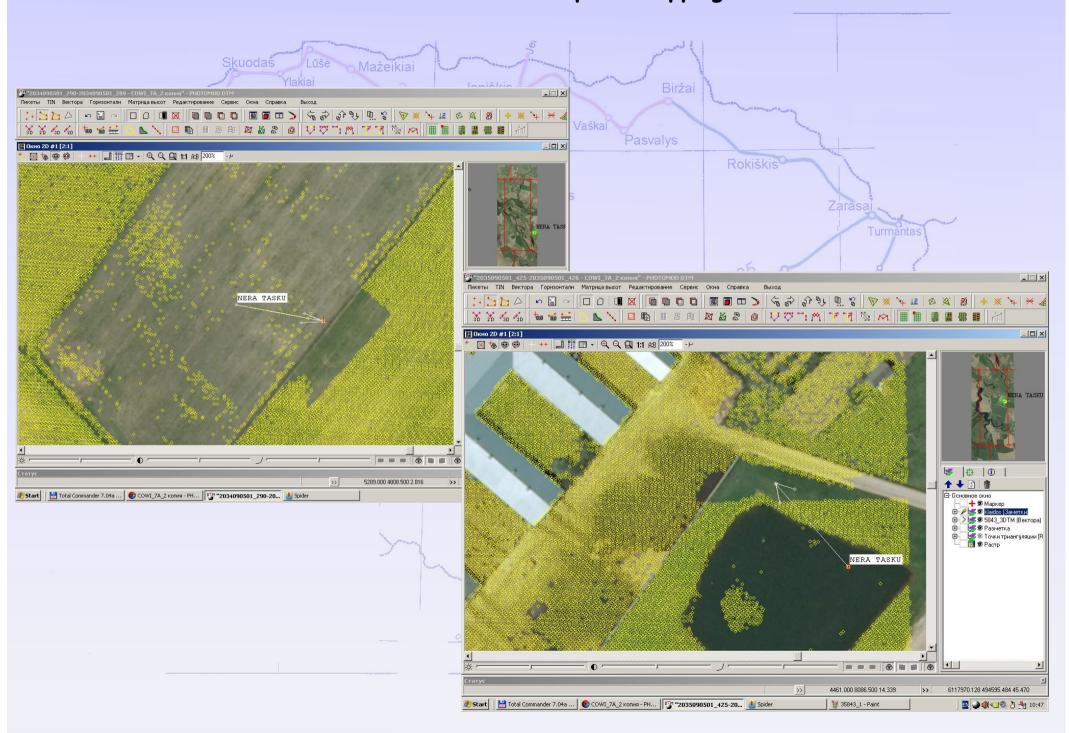
LIDAR+Orthophotomapping

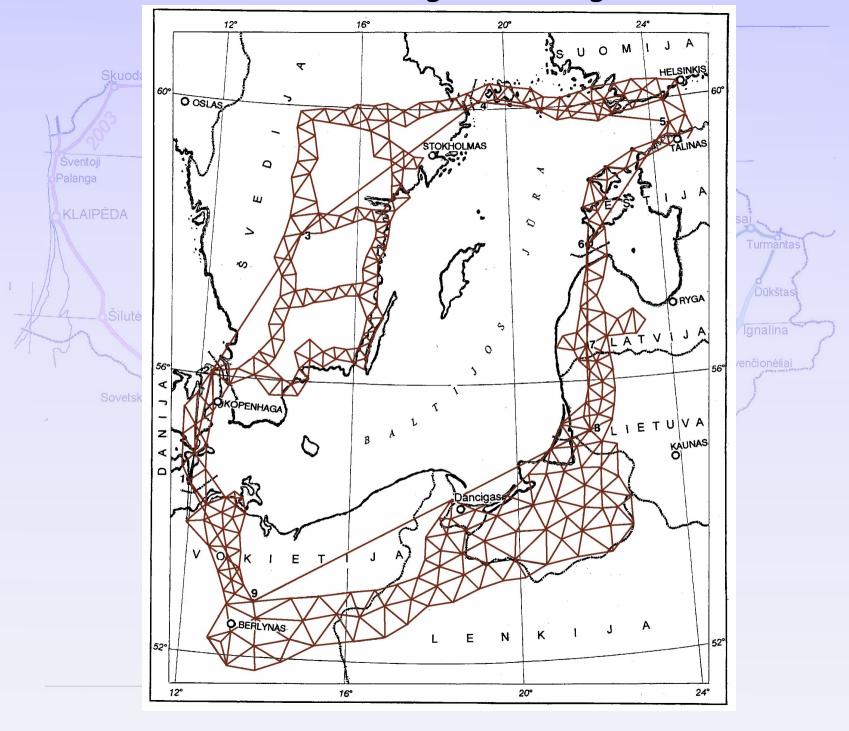


LIDAR+Orthophotomapping



LIDAR+Orthophotomapping









Founder of the Baltic Geodetic Commission, **prof. Toivo Ilmari Bonsdorff** (1879–1950) was a doctor honour of Kaunas university from 1934 11 14. Also he was awarded a Gediminas medal by Lithuanian Government.



Two end-points of Sveksna basis are in the list of the Culture heritage of Lithuania from 2004.



Conferences, dedicated to the Baltic Triangulation Ring Sveksna basis geodetic measurements, were held in Sveksna gymnasium in June 5, 2009 and in Vilnius technical university in October 23, 2009!



Struve Geodetic Arc



Struve Geodetic Arc



Struve Geodetic Arc

THE STRUVE ARC COORDINATING COMMITTEE MEETING

September 15-17, 2010, VILNIUS, LITHUANIA

Programme overview 15th September

Arrival to Vilnius 20.00 - Welcome drink

16th September

9.00-17.00 – The Struve Arc Coordinating Committee meeting Day I 20.00 – Dinner Mikutai

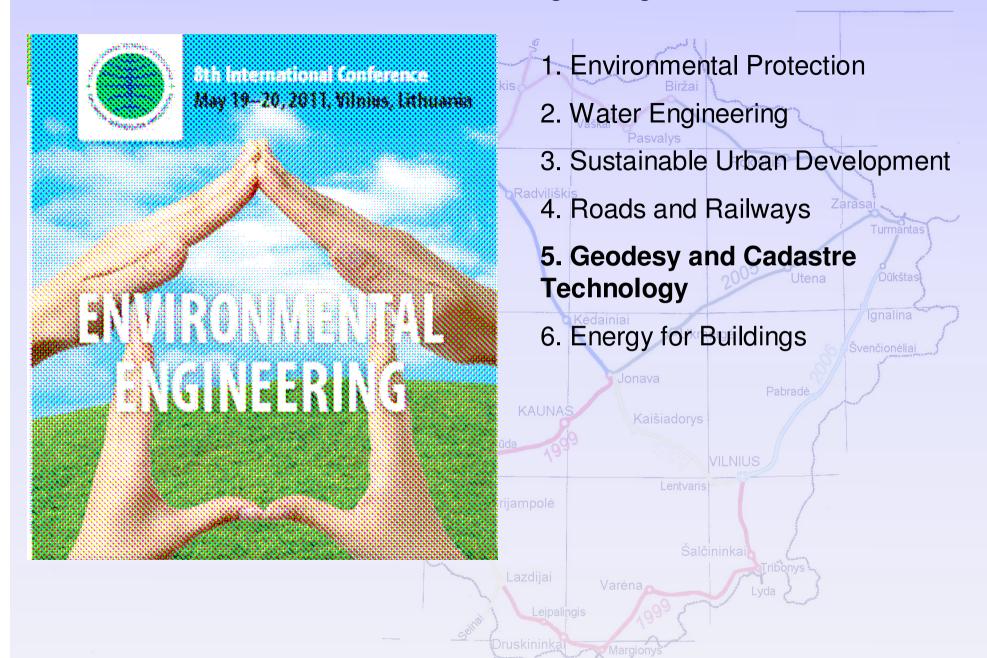
17th September

9.00-14.00 – The Struve Arc Coordinating Committee meeting Day II 15.00-21.00 – Sightseeing tour to the Struve Arc point MESKONYS, Geographical Centre of Europe, historical capitals of Lithuania: Kernavė and Trakai.

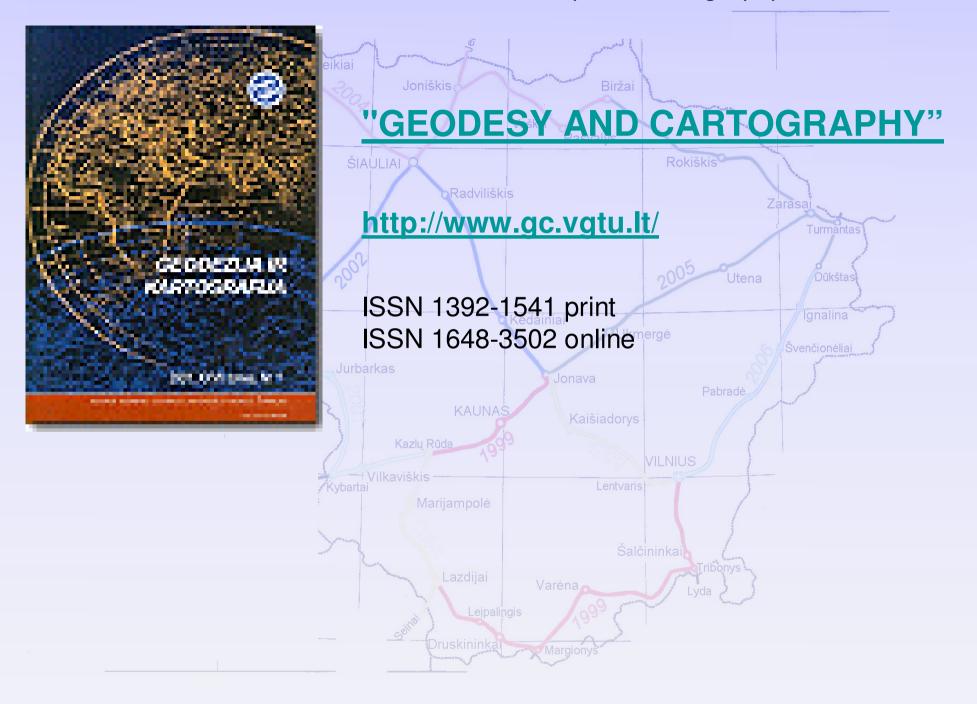
Registration

Please register by fax +370 5 2391331 or email **vitalijaj@zum.lt** to the Struve Arc Coordinating Committee Meeting not later than 15th July 2010.

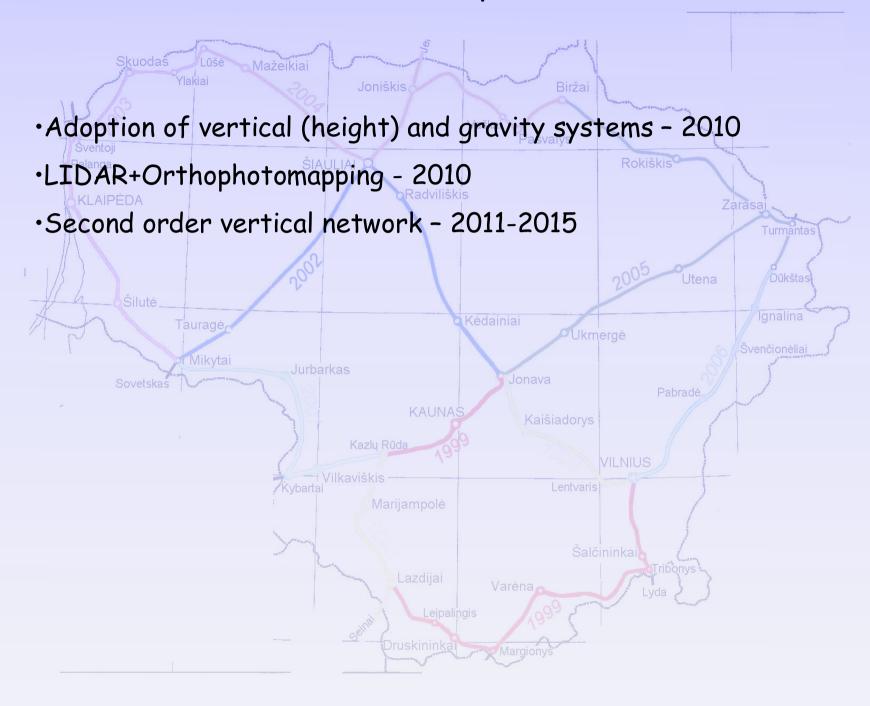
Environmental Engineering Conference



International Journal "Geodesy and Cartography"



Future plans



Thanks...

