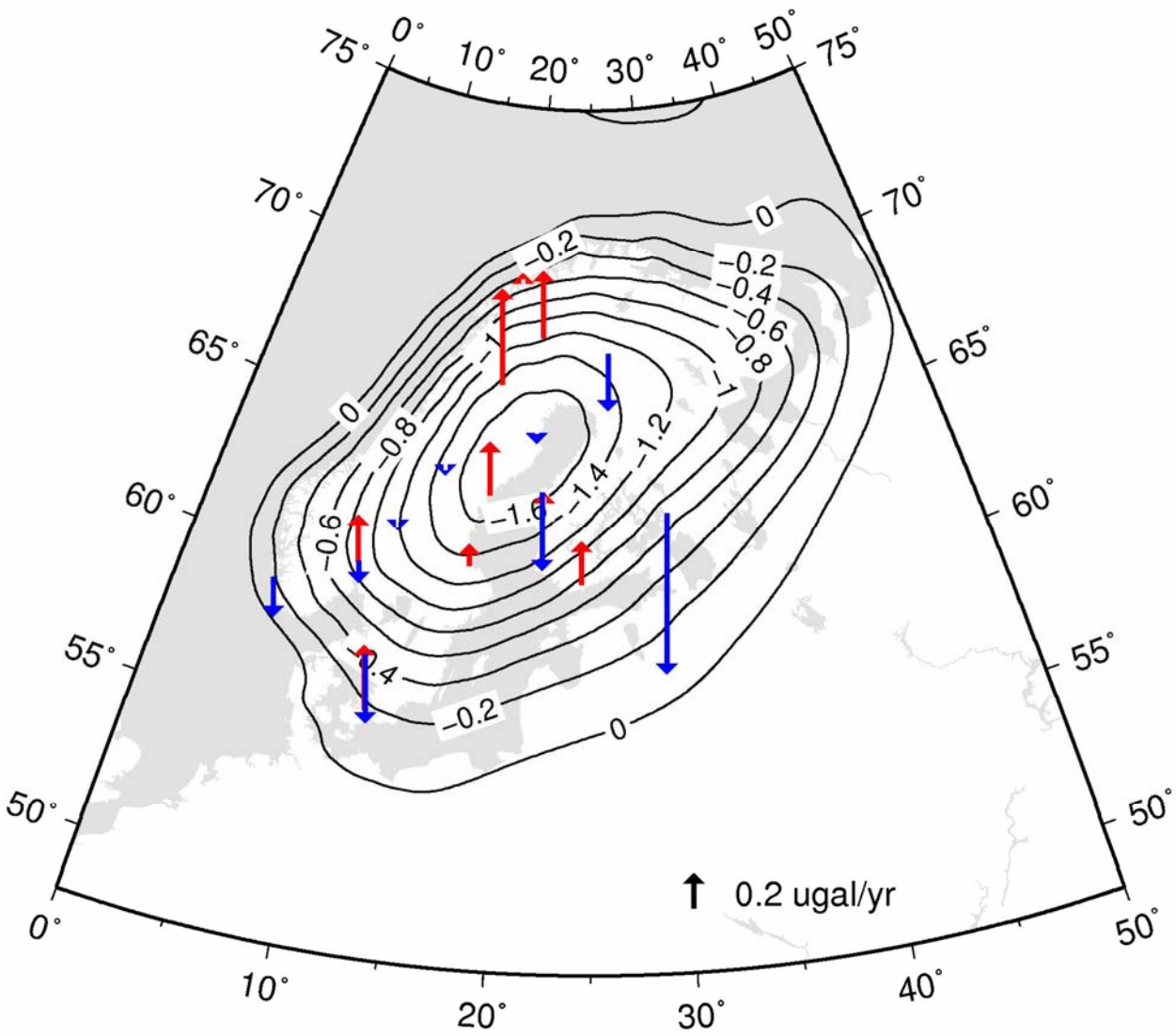
EGU2009 Poster

Some results possibly for showing

1	*2*	*3*	*4*	*5*	*6*	*7*	*8*	*9*	*10*	*11*
Copenhagen_V	55.69	12.44	OG	0.2	0.6	5	1.26	0.16	-0.24	0.53
Joensuu	62.39	30.10	MBK	-1.6	0.7	8	4.50	3.31	4.06	0.19
Metsähovi	60.22	24.40	MBK	-0.5	0.2	15	5.21	4.05	4.26	0.23
Sodankylä	67.42	26.39	MBK	-1.6	0.4	15	8.53	7.29	7.12	0.31
Vaasa_AA	63.08	21.65	MBK	-2.1	0.3	19	9.28	8.09	8.62	0.19
Vaasa_AB	62.96	21.77	MBK	-1.6	0.2	14	9.28	8.09	8.62	0.19
Tromsö	69.66	18.94	HW	-0.4	0.3	11	4.61	3.35	2.30	0.49
Stavanger	59.02	5.60	HW	-0.4	0.2	12	2.19	1.05	1.18	0.51
Trysil	61.42	12.38	HW	-1.2	0.3	9				
Hönefoss_AB	60.17	10.38	HW	-1.0	0.3	9				
Hönefoss_AC	60.13	10.36	HW	-0.6	0.3	9				
Arjeplog	66.32	18.12	OG	-0.9	0.7	4	9.11	7.88	7.65	0.24
Kiruna	67.88	21.06	AE	-0.8	0.2	12	7.72	6.48	6.36	0.28
Mårtsbo	60.60	17.26	AE	-1.2	0.2	12	8.86	7.69	6.74	0.15
Onsala	57.40	11.93	AE	-0.8	0.2	14	4.05	2.93	2.66	0.31
Östersund	63.44	14.86	OG	-1.5	0.7	4	9.55	8.35	8.26	0.17
Skellefteå	64.88	21.05	AE	-1.8	0.2	15	10.95	9.74	9.61	0.18
Kramfors	62.85	18.10	OG	-1.4	0.7	4				

4 source
5 gravity rate µgal/yr
6 stde (by JM)
7 spans years

8 vertical rate mm/yr Martin Lidberg Ph.D. thesis ITRF2005
9 previous transformed to ITRF2000 by JM
10 Martin Lidberg J. Geodesy and NKG2005LU ITRF2000
11 stde of previous

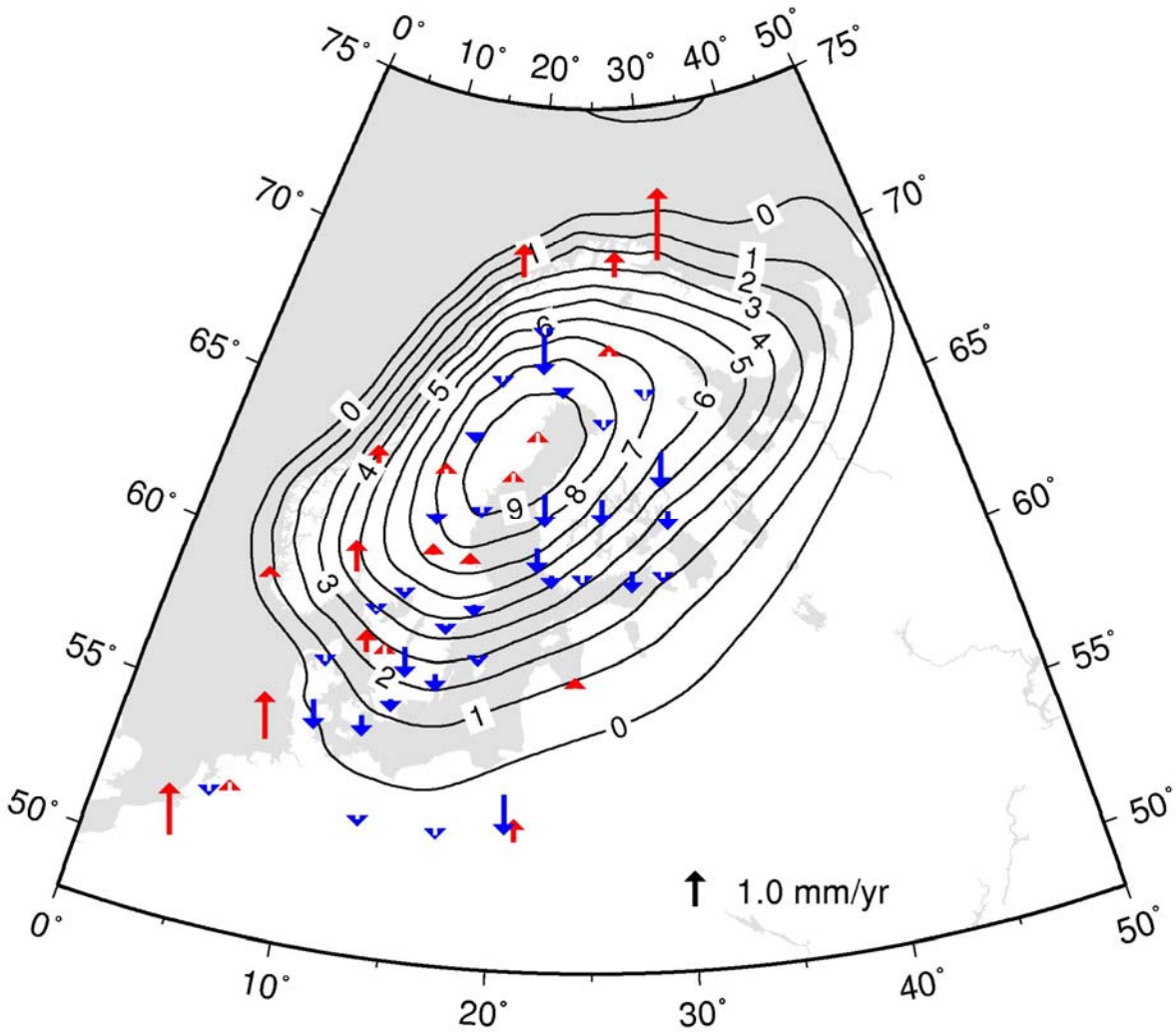


Spatial distribution

NKG2005LU_ABS

Converted to gravity by multiplying with –0.18 µgal/mm

Gravity residuals

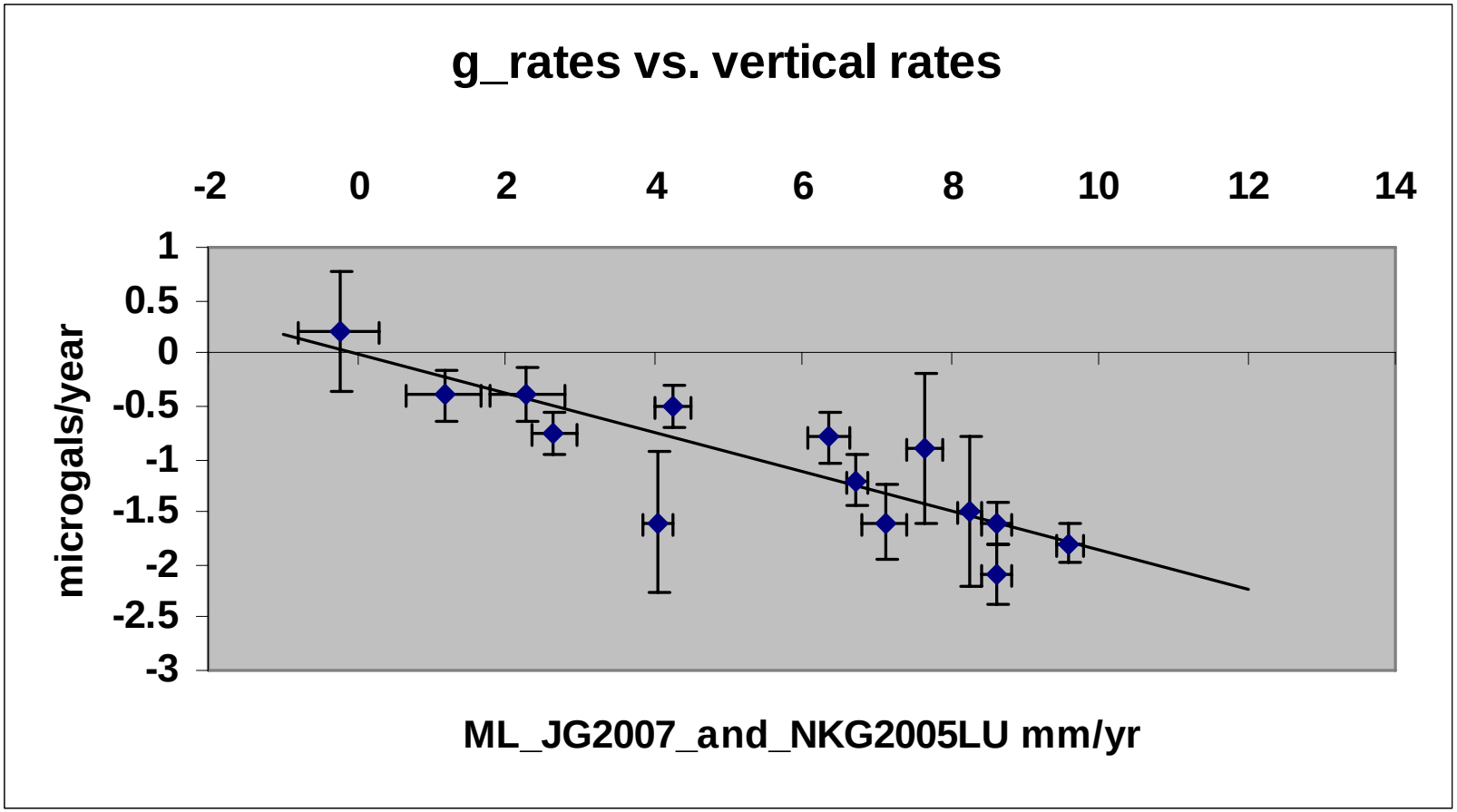


NKG2005LU_ABS

New GPS solution by Martin Lidberg (Ph.D. thesis) transformed to ITRF2000

Residuals relative to NKG2005LU_ABS

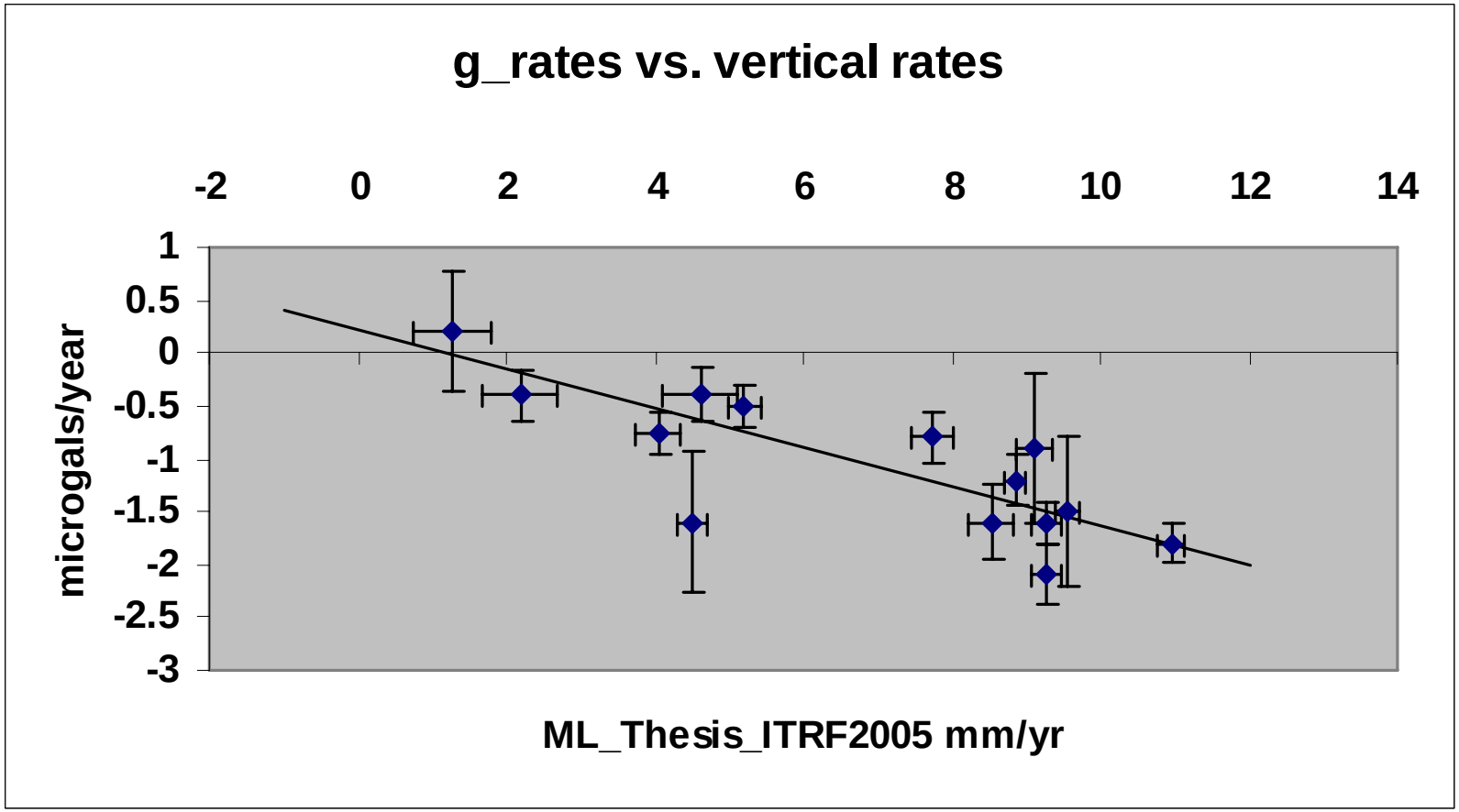
Fitting of linear relationship abs_g vs. GPS, part I



Slope –0.185 ± 0.025 µgal/mm (1-sigma)

Intercept –0.01 ± 0.16 µgal

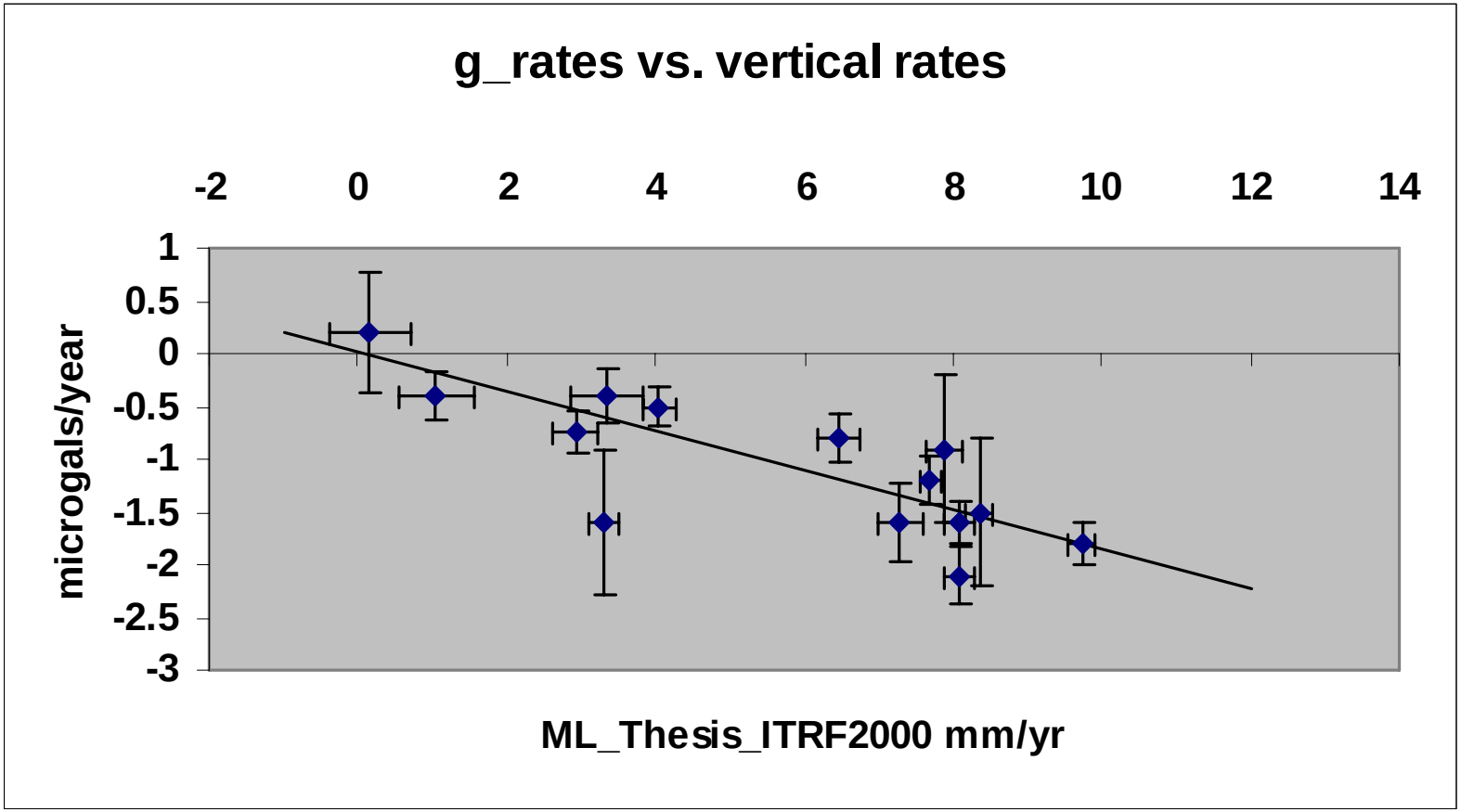
Fitting of linear relationship abs_g vs. GPS, part II



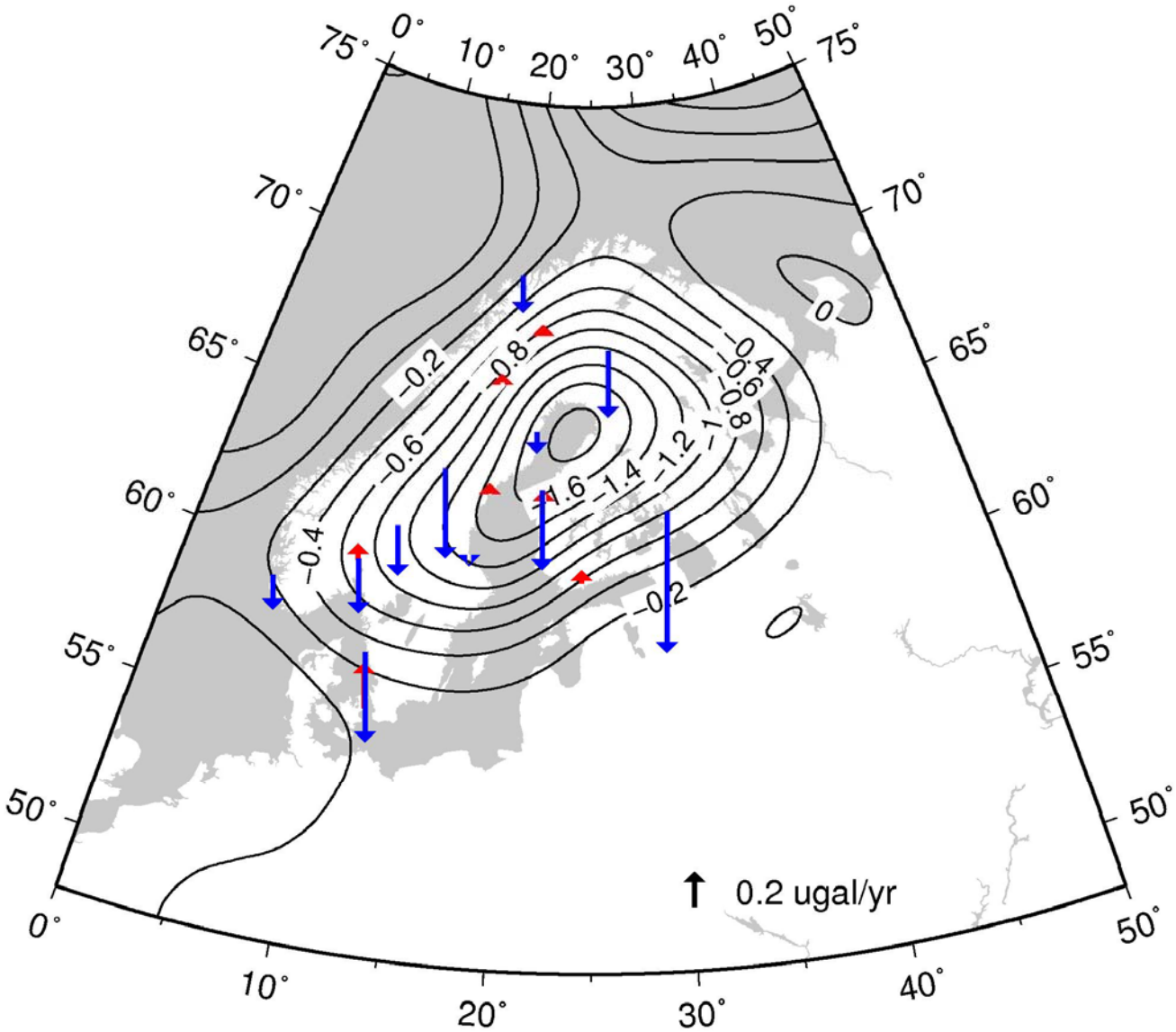
Slope –0.185 ± 0.025 µgal/mm (1-sigma)

Intercept –0.22 ± 0.19 µgal

Fitting of linear relationship abs_g vs. GPS, part III



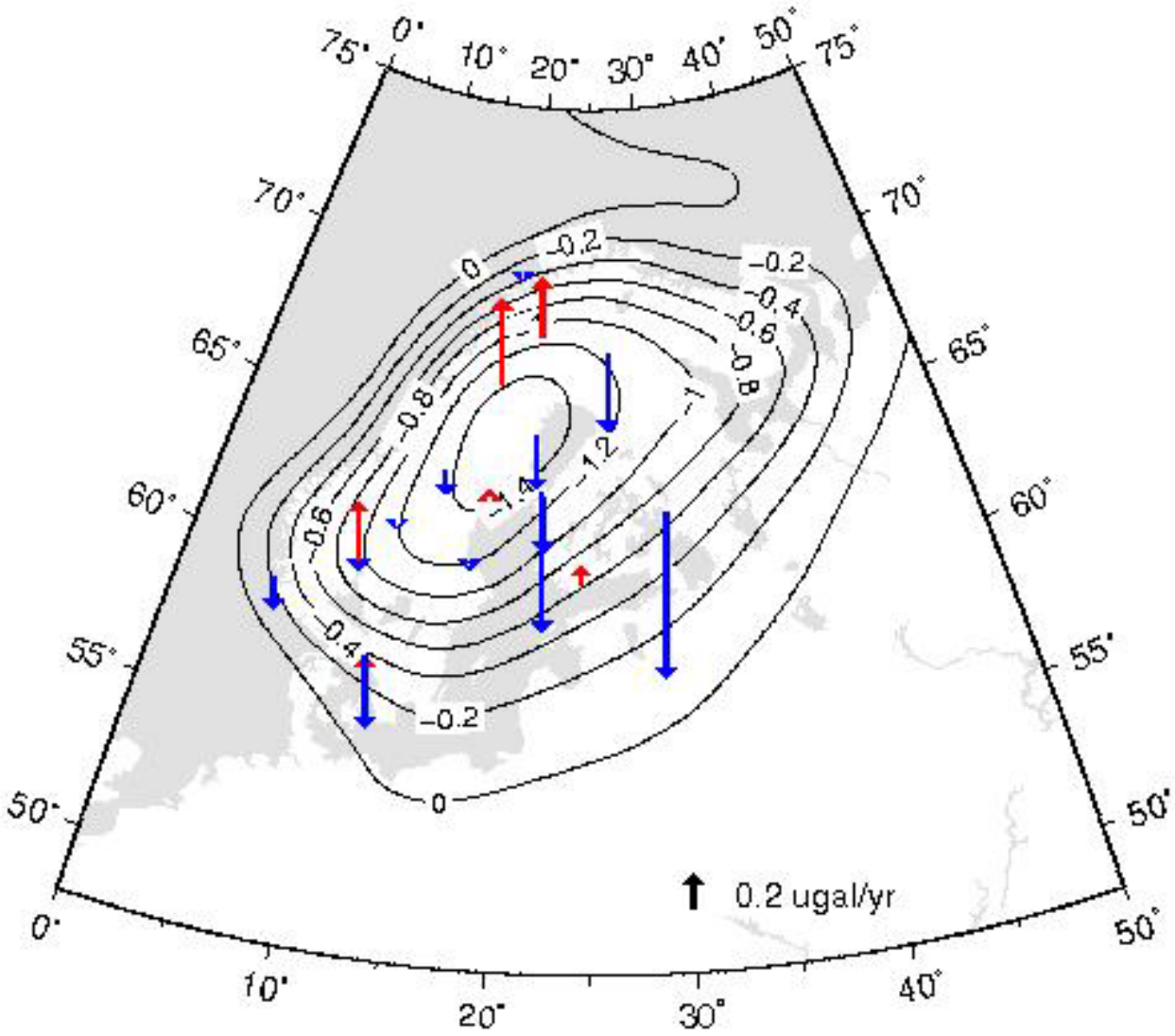
Slope –0.187 ± 0.026 µgal/mm (1-sigma)
Intercept –0.01 ± 0.16 µgal



Peltier ICE-5G(VM2) converted with –0.154 µgal/mm

g_dot as independent data to discriminate between GIA models?

mean -0.17 gal/yr
RMS 0.32 µgal/yr



Lambeck et al. (1998) converted with
–0.154 µgal/mm
+1.1 mm/yr MSL
6% geoid rise

g_dot as independent data to discriminate between GIA models?

mean -0.11 µgal/yr
RMS 0.39 µgal/yr