

NGU Report 97.002

Interpretation of two gravity profiles across the
Engbøfjellet rutile-bearing eclogite deposit

Report no.: 97.002		ISSN 0800-3416	Grading: <i>Åpen</i>
Title: Interpretation of two gravity profiles across the Engebøfjellet rutile-bearing eclogite deposit			
Authors: Eirik Mauring, Jomar Gellein & Are Korneliussen		Client: DuPont	
County: Sogn & Fjordane		Municipality: Naustdal	
Map-sheet name (M=1:250.000) Florø		Map-sheet no. and -name (M=1:50.000) 1117 I Dale	
Deposit name and grid-reference: Engebøfjellet 32V 3103 68229 (WGS84)		Number of pages: 21	Price (NOK): <i>80,-</i>
		Map enclosures: 2	
Fieldwork carried out: August 1996	Date of report: 3/2-1997	Project no.: 1900.05	Person responsible: <i>Jens S. Kvernåen</i>
<p>Summary:</p> <p>Gravity measurements have been carried out along two profiles across the Engebøfjellet rutile-bearing eclogite deposit. The main objective of the investigations was to delineate the morphology and subsurface extension of the eclogite body, given results and constraints from surface mapping and drillholes. Two alternative models are proposed for both profiles. The volume and mass estimates for the models given must not be mistaken for the total volume and mass of the whole eclogite deposit, which is larger. This is because the eclogite deposit extends to the east at a longer distance than would affect the calculated response.</p> <p>For model 1 of the easternmost profile, a density of 3400 kg/m³ was used in the modelling of the massive eclogite body. Length of the body along the dip is on the order of 250-275 m. The average width (horizontal cross section) and length of the body are 250 m and 900 m respectively. With these dimensions the total volume of the massive eclogite body is 52-62·10⁶ m³. This is equivalent to a mass of 190-210 Mt. For model 2 the density of the massive eclogite body was increased to 3500 kg/m³. To get a match between the calculated model response and the observed values, the length of the body along the dip direction had to be reduced to 200-225 m, yielding a volume and a mass of 45-51·10⁶ m³ and 158-177 Mt respectively.</p> <p>For the westernmost profile, density values were inconclusive in determining representative estimates for densities of the different bodies in the model. Model 1 was constructed using arithmetic mean density values for the modelled bodies. Length of the massive body is 900 m. The average width and length along the dip is 140 m and 375 m respectively, giving a volume of c. 47·10⁶ m³ and a mass of c. 160 Mt (with a density of 3400 kg/m³ for the massive eclogite). In the second model, the highest probable density values were used in the modelling. The density of the massive eclogite body was set to 3500 kg/m³, reducing the length along the dip to 250 m. This yields a volume and a mass of c. 32·10⁶ m³ and c. 110 Mt respectively.</p>			
Keywords: Geofysikk	Gravimetri	Eklogitt	
Rutil	Modellforsøk		
		Fagrapport	

CONTENTS

1 INTRODUCTION.....	4
2 DATA ACQUISITION	4
3 PROCESSING	5
4 INTERPRETATION.....	6
4.1 Densities and geological constraints	6
4.2 Profile 2	6
4.3 Profile 3	8
5 CONCLUSIONS.....	10
6 REFERENCES.....	11

Appendices

1. Table of terrain function values
2. Table of co-ordinates, absolute gravity, corrections and Bouguer anomalies
3. Terrain corrected Bouguer anomaly values and regional gradient
4. Terrain correction and Bouguer anomaly values
5. Gravity profile 2, model 1
6. Gravity profile 2, model 2
7. Gravity profile 3, model 1
8. Gravity profile 3, model 2

Maps

- 97.002-01: Location of Engebøfjellet, scale 1:50 000
97.002-02: Gravity profiles and stations, scale 1:5000

1 INTRODUCTION

Gravity measurements have been made along two profiles across the Engebøfjellet rutile-bearing eclogite deposit in Naustdal municipality, Sogn & Fjordane county. The work is a part of a collaborative program between NGU and DuPont. Previous gravity measurements have been carried out across the eastern part of the deposit (Mauring & Gellein, 1996). Results from a drillhole program is presented in Korneliussen et al. (1996). The main objective of the investigations was to delineate the morphology and subsurface extension of the eclogite body, given results and constraints from surface mapping and drillholes.

Data acquisition was conducted by Jomar Gellein in august 1996. Data processing was carried out by Jomar Gellein and Eirik Mauring. Interpretation of the gravity profiles was done by Eirik Mauring and Are Korneliussen.

2 DATA ACQUISITION

Data acquisition was carried out using a LaCoste & Romberg gravity meter (model G No. 569). Measurements were made along two profiles (labelled P2 & P3 in map -02) with 41 stations along P2 and 39 stations along P3. The lengths of P2 and P3 were 882 m and 669 m respectively. The location of the profiles and stations is shown in maps -01 and -02. The stations are labelled on map -02. The station spacing is 12.5 m in the southern parts of the profiles which cross the outcrop of the eclogite body. In the northern parts of the profiles the station spacing is 25 m. Severe topography to the south limited the number of stations.

To correct for diurnal variations in the gravity field and instrument drift, base station readings were made before and after measurements along the gravity profile at a station located close to the profile (UTM 32V 3105 68224 WGS84). This base station was tied to a gravity base station at Mo School of Agriculture in Førde (UTM 32V 3390 68147 WGS84) where the value of absolute gravity was known. Absolute gravity values could thus be obtained for all stations. Station levelling was performed by Jomar Gellein and Jomar Staw (NGU).

3 PROCESSING

Bouguer anomaly values were calculated using software from the Norwegian Mapping Authority (Statens Kartverk, Mathisen 1976). Bouguer and terrain corrections were carried out using a standard density of 2670 kg/m^3 . Within 1 km of each station, circle radii of 50, 100, 200, 400 and 800 m were used for terrain corrections. The relatively high number of circle radii was used due to severe topography in the area. For terrain corrections, 1:5000 scale maps were used as basis for manually elevations on the circle radii. In addition, elevations from the Norwegian Mapping Authority's database were used for terrain corrections. A table of terrain correction function values is shown in appendix 1. A table of co-ordinates (geodetic datum ED50), absolute gravity, corrections and Bouguer anomalies is shown in appendix 2. Prior to modelling the data, the regional gravity gradient was subtracted from the terrain corrected Bouguer anomaly values (see appendix 3).

The regional gravity gradient is very difficult to determine in this area, because just a few gravity stations could be measured to the sides of the eclogite deposit, not giving the complete shape of the gravity anomaly. The proximity to the sea also made this determination difficult. The gradient for profile 2 was partly based on prior measurements (P1, Mairing & Gellein 1996). This gradient could not be applied to profile 3. The residual anomaly would be too small compared to the calculated response from the smallest possible model given the constraints from surface mapping and drillholes (see chapter 4). The most reasonable (although somewhat debatable) gradient for P3 is shown in appendix 3 page 2. For both profiles, the gradient curve lies well above the value of station 1. This is because this value must be considered a part of a large negative anomaly due to the sea water. The gradient curve at the northern end of P3 lies lower than on P2. This is due to the presence of a bog at the end of P2 which 'pulls down' the Bouguer anomaly values in this area.

Modelling of the data was performed using the GMM (Gravity and Magnetic Modelling) program from Swedish Geological Co. (1991). For the presentation of the models and the model response curves, the GRAPHER program from Golden Software Inc. was employed.

4 INTERPRETATION

4.1 Densities and geological constraints

The background material for the interpretation of the gravity profiles is presented in a report in preparation (Korneliussen et al. 1997). The report will cover results from core-drillings, petrophysical measurements, surface mapping, chemical analysis and gravity modelling to yield an interpretation of the three-dimensional extension and chemical quality of the orebody. In the present report, density values measured on 70 samples from drillholes 10 and 12 (DH10 & DH12 in appendix 7 & 8) were applied in the modelling of gravity profile 3. The drillholes were placed in the close vicinity of this profile. Density values from 33 samples in drillhole 8 were used for the modelling of gravity profile 2 (drillhole 8 is placed c. 100 m offset to the east of the profile and is not shown in this report). The density values of massive eclogite body is in the area of 3400-3500 kg/m³ in the surveyed area (orange colour in appendix 5-8). Close to the main orebody - or interfingering with it - are layers or lenses of leucogabbroic eclogite with average densities in the range of 3150-3200 kg/m³ (yellow colour in appendix 5-8). To the north and south of the massive eclogite and leucogabbroic eclogite bodies the rocks comprise mostly banded amphibolitic eclogite with gneissic zones and gneiss with eclogite layers. The density of this rock unit is between 2850 kg/m³ and 3000 kg/m³ with the heaviest rocks north of the orebody (different green colours in appendix 5-8). Constraints from drillholes 10 & 12 are used to lock model parameters in the interpretation of gravity profile 3. Observations of geological structures at the surface indicate that the rocks are steeply dipping towards north-northwest. Because of the proximity to the fjord, a sea water body with a density of 1025 kg/m³ had to be added to the models. Sea water depths were read from a sea map (scale 1:50 000). The sea water bodies in appendix 5-8 are not shown to their full extent as they actually appeared when performing the model calculation. The models were constructed using the information and constraints mentioned above. In the appendices (5-8), number tags on the observed values refer to stations on map -02. The volume and mass estimates for the models given later in this report must not be mistaken for the total volume and mass of the whole eclogite deposit, which is larger. This is because the eclogite deposit extends to the east at a longer distance than would affect the calculated response.

4.2 Profile 2

Two alternative models are proposed in the interpretation of the gravity data for this profile. These are shown in appendices 5 & 6 (scale 1:5000). The primary difference between the two models is the density of the massive eclogite body, which is set to 3400 kg/m³ for model 1 and 3500 kg/m³ for model 2.

Model 1

The model is shown together with the reduced Bouguer anomaly values and the calculated response curve in appendix 5. There are no severe mismatches between the observed values and the calculated response from the model. The small mismatches can probably be attributed to insufficient or erroneous terrain correction, especially for stations 29 to 38. This becomes more evident when comparing the terrain correction values with the Bouguer anomaly values. In appendix 4, page 1, these two sets of values are plotted. The plot shows that the shapes of the two curves yield good correlation between station 29 and 38, indicating that the Bouguer anomaly values could be affected by erroneous or insufficient terrain corrections. The model in appendix 5 is largely based on a preliminary interpretation based on cores from drillhole 8 and surface geological mapping. Only minor adjustments had to be made to the preliminary model to achieve optimum curve fit. The modelled massive eclogite body has an average width (horizontal cross section) of c. 250 m and a length along its dip in the order of 250-275 m. Lenses of lighter bodies extending towards the surface (leucogabbroic eclogite with a density of 3150 kg/m^3) are placed within the massive eclogite body in accordance with surface mapping. The length of the model in the strike direction is set to 900 m, with 450 m to each side of the profile. The latter parameter is probably the most uncertain one, since the morphology of the orebody seems to change rather rapidly along the strike direction, which is evident from surface mapping and core drillings. The model could be made longer with little or no effect on the calculated response. Given the dimensions of the modelled eclogite body, the total volume is $52\text{-}62 \cdot 10^6 \text{ m}^3$, equivalent to a mass of 190-210 Mt.

Model 2

The model is shown in appendix 6. For this model, the density of the massive eclogite body is increased to 3500 kg/m^3 , which is considered to be the maximum probable density to be used in the modelling. Clearly, to get a good curve fit, the depth extent of the massive eclogite now has to be diminished compared to model 1. The length along its dip is now in the order of 200-225 m. However, with this reduction the calculated response curve falls off too rapidly towards north. To get optimum match between observed values and the calculated response, the modelled body to the north of the massive eclogite (i.e. banded amphibolitic eclogite with gneissic zones and gneiss with eclogite layers) had to be extended towards north in a distance of c. 30 m. This is justified because the position of the body's northern termination is not exactly determined from surface mapping. The volume of the eclogite body is now $45\text{-}51 \cdot 10^6 \text{ m}^3$, equivalent to a mass of 158-177 Mt.

4.3 Profile 3

Two drillholes have been placed close to this profile and density values have been provided from measurements on cores. Despite this, representative densities for the different lithologic units (bodies) are not conclusive, so two alternative models are proposed for this profile as well. One model (model 1) uses arithmetic mean density values for the bodies, while the other model (model 2) uses the highest probable density values. In the latter case, a minimum size of the massive eclogite body is modelled.

Model 1

Model with calculated response curve and reduced Bouguer anomaly values (observed values) are shown in appendix 7. The worst mismatch between observed values and calculated response is seen between station 21 and station 30. In this area there is a depression in the observed values, with the lowest value at station 26. In order to get the calculated response curve to match these values, a shallow, low density body has to be inserted. An outcropping body with a density of 2000 kg/m^3 and a depth of 20-30 m between position 390 and 450 will accomplish this (not shown in this report). This body would represent Quaternary deposits. However, such a thick sediment cover is not present in the area. A preliminary Quaternary map indicates just a thin (less than 2 m thick) till cover in the same area (Arne Reite, pers. comm.). A more likely explanation for the low Bouguer anomaly values between station 21 and station 30 is poor or insufficient terrain corrections. This is evident when comparing terrain correction values with the Bouguer anomaly values plotted in appendix 4 page 2. A depression can be seen in the terrain correction values between station 21 and 30 which correlates very well with the depression in the Bouguer anomaly values. Thus, the mismatch between calculated response from the model and the observed values can mostly be attributed to poor or insufficient terrain corrections. This suggests that stations 21 to 30 should carry little weight during modelling. From appendix 4 page 2, it is also evident that Bouguer anomaly values at station 15, 25 and 35 suffer from terrain correction effects and are considered noisy.

Two massive eclogite bodies have been modelled. The smaller, subcropping body to the southwest is added because surface mapping indicates a massive eclogite body c. 50 m offset to the west of the profile. A possible interpretation could be that this body continues towards the profile at depth. The larger eclogite body is constructed with the constraints from surface mapping and cores from drillhole 10 and 12 (DH10 & DH12 in appendix 7). The model shows that the massive eclogite body is thinner than in profile 2, but more extensive towards depth. The leucogabbroic unit (with a density of 3150 kg/m^3) is however much more extensive than in profile 2. The average width of the massive eclogite body is c. 140 m and the length along its dip is c. 375 m. The length of the body in the strike direction is 900 m, with 450 m to each side of the profile. The body could be made longer with little or no effect on the calculated response. To the west of the profile, the massive eclogite body can not be followed

further than c. 50 m at the surface, but it is suggested that it continues at depth towards west. With the dimension parameters listed above (not considering the smaller body to the southwest), the massive eclogite body amounts to a total of c. $47 \cdot 10^6 \text{ m}^3$, equivalent to a mass of c. 160 Mt.

Model 2

For this model, the highest probable density values have been used for all bodies to yield a minimum size of the massive eclogite body. The massive eclogite body is now given a density of 3500 kg/m^3 , while the density of the leucogabbroic eclogite is set to 3200 kg/m^3 . The densities of the complex units to the southwest and northeast of the eclogite units are given densities of 2900 kg/m^3 and 3000 kg/m^3 respectively. The extension of the bodies towards depth had to be decreased to get a good fit between the observed values and the calculated model response. The length along the dip of the massive eclogite had to be reduced to c. 250 m, giving a volume of the eclogite body of c. $32 \cdot 10^6 \text{ m}^3$, equivalent to a mass of c. 110 Mt.

5 CONCLUSIONS

Gravity measurements have been carried out along two profiles across the Engebøfjellet rutile-bearing eclogite deposit. Two alternative models are proposed for both profiles. The volume and mass estimates for the models given must not be mistaken for the total volume and mass of the whole eclogite deposit, which is larger. This is because the eclogite deposit extends to the east at a longer distance than would affect the calculated response.

For model 1 of the easternmost profile (labelled P2), a density of 3400 kg/m^3 was used in the modelling of the massive eclogite body. Length of the body along the dip is on the order of 250-275 m. The average width (horizontal cross section) and length of the body are 250 m and 900 m respectively. With these dimensions the total volume of the massive eclogite body is $52\text{-}62 \cdot 10^6 \text{ m}^3$. This is equivalent to a mass of 190-210 Mt. For model 2 the density of the massive eclogite body was increased to 3500 kg/m^3 . To get a match between the calculated model response and the observed values, the length of the body along the dip direction had to be reduced to 200-225 m, yielding a volume and a mass of $45\text{-}51 \cdot 10^6 \text{ m}^3$ and 158-177 Mt respectively.

Profile 3 (P3) was measured across the western part of the eclogite deposit. Density values from drillholes were inconclusive in determining representative estimates for densities of the different bodies in the model. Two alternative models are proposed. Model 1 was constructed using arithmetic mean density values for the modelled bodies. Length of the massive body is 900 m. The average width and length along the dip is 140 m and 375 m respectively, giving a volume of c. $47 \cdot 10^6 \text{ m}^3$ and a mass of c. 160 Mt (with a density of 3400 kg/m^3 for the massive eclogite). In the second model, the highest probable density values were used in the modelling. The density of the massive eclogite body was set to 3500 kg/m^3 , reducing the length along the dip to 250 m. This yields a volume and a mass of c. $32 \cdot 10^6 \text{ m}^3$ and c. 110 Mt respectively.

6 REFERENCES

- Korneliussen, A., Furuhaug, L., Staw, J. & Fossflaten, G. 1996: Core-drilling at Engebøfjellet 1995/96; Dh1 to Dh5. *NGU Report 96.062*.
- Korneliussen, A. & Erambert, M. 1997: Core-drilling at the Engebøfjellet rutile-bearing eclogite 1995/96; Dh1 to Dh10. *NGU Report in prep*.
- Mathisen 1976: Method for Bouguer reduction with rapid calculation of terrain corrections. *NGO. Geodetic publications no. 18*.
- Mauring, E. & Gellein, J. 1996: Interpretation of a gravity profile across the Engebøfjellet rutile-bearing eclogite deposit. *NGU Report 96.061*.
- Swedish Geological Co. 1991: GMM. Interactive Gravity and magnetic modelling program. *User's manual*.

TERRAIN CORRECTION INCREMENTS PR. KM RADIUS. CHECK AGAINST UNNORMAL VALUES

DISTANCE KM	0	0.002	0.068	0.23	0.59	0.90	1.28	1.75	2.29	2.87	3.52	5.24	8.44	12.4	18.8	28.8	58.8	99.0	166.7	CIRCLE
2	1	0.00	7.73	9.14	6.08	1.57	1.96	0.08	1.03	0.42	0.58	0.356	0.176	0.074	0.027	0.010	0.000	0.000	0.000	10.47
2	2	0.00	18.55	14.14	7.90	2.48	1.73	1.16	0.63	0.39	0.16	0.139	0.066	0.035	0.013	0.007	0.003	0.002	0.002	17.21
2	3	0.00	15.68	13.55	7.78	2.65	1.82	1.21	0.65	0.40	0.16	0.136	0.066	0.035	0.013	0.007	0.003	0.002	0.002	15.47
2	4	0.00	12.50	13.13	8.03	2.82	1.92	1.26	0.66	0.40	0.18	0.135	0.064	0.035	0.013	0.008	0.004	0.002	0.002	14.08
2	5	0.00	10.19	12.02	8.36	2.95	2.05	1.33	0.68	0.40	0.19	0.135	0.063	0.035	0.013	0.008	0.004	0.003	0.002	12.47
2	6	0.00	7.61	10.31	8.39	3.59	2.14	1.37	0.70	0.37	0.21	0.135	0.063	0.035	0.013	0.008	0.004	0.003	0.002	11.72
2	7	0.00	5.20	8.47	8.51	3.63	2.19	1.40	0.61	0.40	0.21	0.136	0.062	0.036	0.013	0.008	0.004	0.003	0.002	10.71
2	8	0.00	4.44	6.55	8.57	3.73	2.31	1.46	0.63	0.41	0.22	0.136	0.062	0.036	0.013	0.009	0.004	0.003	0.002	9.94
2	9	0.00	3.95	5.41	8.79	3.77	2.36	1.49	0.64	0.41	0.22	0.139	0.060	0.036	0.013	0.008	0.004	0.003	0.002	9.16
2	10	0.00	2.88	6.15	0.00	3.83	2.41	1.52	0.65	0.41	0.25	0.137	0.060	0.036	0.013	0.009	0.005	0.003	0.003	8.78
2	11	0.00	2.00	5.03	0.00	3.81	2.40	1.51	0.65	0.41	0.25	0.137	0.060	0.036	0.013	0.009	0.005	0.003	0.003	8.65
2	12	0.00	1.81	4.64	0.00	3.93	2.49	1.56	0.67	0.41	0.26	0.138	0.060	0.036	0.014	0.009	0.005	0.003	0.003	8.70
2	13	0.00	1.44	3.97	0.00	3.95	2.48	1.30	0.85	0.41	0.24	0.143	0.060	0.036	0.014	0.009	0.005	0.003	0.003	8.69
2	14	0.00	0.52	3.24	0.00	3.90	2.45	1.29	0.85	0.41	0.24	0.143	0.060	0.036	0.014	0.009	0.005	0.003	0.003	8.44
2	15	0.00	0.37	2.67	0.00	3.89	2.44	1.29	0.85	0.41	0.23	0.145	0.060	0.036	0.014	0.009	0.005	0.003	0.003	8.19
2	16	0.00	0.31	2.84	0.00	3.88	2.42	1.29	0.84	0.41	0.22	0.146	0.060	0.036	0.014	0.009	0.005	0.003	0.003	7.85
2	17	0.00	0.22	1.82	0.00	3.88	2.41	1.28	0.84	0.41	0.22	0.149	0.060	0.036	0.014	0.009	0.005	0.003	0.003	7.52
2	18	0.00	0.30	1.62	0.00	3.88	2.42	1.29	0.84	0.41	0.22	0.149	0.060	0.036	0.014	0.009	0.005	0.003	0.003	7.30
2	19	0.00	0.35	1.44	0.00	3.84	2.37	1.28	0.83	0.41	0.22	0.149	0.059	0.036	0.014	0.009	0.005	0.003	0.003	6.77
2	20	0.00	0.52	1.33	0.20	4.17	2.32	1.26	0.82	0.41	0.23	0.149	0.059	0.036	0.014	0.009	0.005	0.003	0.003	6.10
2	21	0.00	0.75	1.23	0.20	4.14	2.31	1.26	0.82	0.41	0.23	0.149	0.059	0.036	0.014	0.009	0.005	0.003	0.003	5.71
2	22	0.00	0.85	1.35	0.19	4.05	2.25	1.25	0.81	0.40	0.24	0.145	0.057	0.036	0.014	0.009	0.005	0.003	0.003	5.02
2	23	0.00	1.33	1.49	0.18	3.91	2.19	1.23	0.77	0.46	0.24	0.145	0.057	0.036	0.014	0.009	0.005	0.003	0.003	4.30
2	24	0.00	2.06	1.55	0.16	3.81	2.15	1.22	0.76	0.46	0.24	0.144	0.057	0.036	0.014	0.008	0.005	0.003	0.003	3.80
2	25	0.00	3.15	1.49	0.15	3.71	1.75	1.24	0.74	0.45	0.24	0.144	0.057	0.035	0.013	0.008	0.005	0.003	0.003	3.46
2	26	0.00	3.01	1.47	2.92	6.01	1.77	1.24	0.75	0.46	0.24	0.145	0.057	0.035	0.014	0.008	0.005	0.003	0.003	3.44
2	27	0.00	3.88	1.68	2.92	6.29	1.94	1.27	0.74	0.47	0.25	0.148	0.058	0.035	0.014	0.009	0.005	0.003	0.003	3.63
2	28	0.00	3.69	2.20	2.47	6.28	2.01	1.11	0.88	0.47	0.24	0.152	0.058	0.035	0.014	0.009	0.005	0.003	0.003	3.57
2	29	0.00	2.29	2.21	2.20	5.87	1.98	1.10	0.86	0.46	0.26	0.152	0.058	0.035	0.014	0.009	0.005	0.003	0.003	3.43
2	30	0.00	2.24	1.93	1.62	5.59	1.92	0.92	0.81	0.50	0.26	0.151	0.059	0.035	0.014	0.009	0.005	0.003	0.003	3.29
2	31	0.00	1.60	1.71	1.31	5.33	1.87	0.92	0.79	0.50	0.26	0.149	0.058	0.035	0.014	0.008	0.005	0.003	0.003	3.18
2	32	0.00	2.65	1.44	0.93	0.00	2.05	1.03	0.73	0.48	0.25	0.148	0.056	0.036	0.014	0.008	0.005	0.003	0.003	2.94
2	33	0.00	1.89	2.37	1.16	0.00	2.13	1.03	0.76	0.50	0.25	0.144	0.057	0.036	0.014	0.008	0.005	0.003	0.003	3.10
2	34	0.00	3.72	1.54	1.07	2.95	2.02	1.03	0.73	0.54	0.25	0.141	0.056	0.036	0.014	0.008	0.005	0.003	0.003	3.54
2	35	0.00	6.57	1.59	0.88	0.00	1.54	1.46	0.66	0.56	0.23	0.142	0.056	0.035	0.014	0.007	0.004	0.003	0.002	2.67
2	36	0.00	6.57	1.10	0.86	2.34	1.37	1.38	0.64	0.51	0.21	0.138	0.057	0.035	0.013	0.007	0.004	0.003	0.002	2.70
2	37	0.00	3.69	1.49	0.97	2.13	1.30	1.35	0.62	0.51	0.20	0.138	0.058	0.035	0.013	0.007	0.004	0.003	0.002	3.11
2	38	0.00	0.88	1.98	1.04	2.00	1.26	1.33	0.60	0.55	0.23	0.129	0.058	0.035	0.013	0.007	0.004	0.003	0.002	2.60
2	39	0.00	0.44	1.75	1.12	1.93	1.25	1.32	0.60	0.55	0.23	0.129	0.058	0.035	0.013	0.007	0.004	0.003	0.002	2.42
2	40	0.00	0.96	1.76	1.20	1.60	1.24	1.31	0.60	0.55	0.23	0.129	0.058	0.035	0.013	0.007	0.004	0.003	0.002	2.27
2	41	0.00	2.49	1.98	2.04	1.38	1.25	1.30	0.60	0.55	0.28	0.115	0.058	0.035	0.013	0.007	0.004	0.003	0.002	2.59

TABLE OF TERRAIN FUNCTION VALUES
PROFILE 2

Terrain correction function values for various distance intervals at each gravity station. The total terrain correction is the sum of each function value multiplied by the corresponding distance interval (e.g. for station 1, the terrain correction is; $0*(0.002-0)+7.73*(0.068-0.002)+9.14*(0.23-0.068)+\dots$). The total terrain correction values are listed in appendix 2 page 1.

TERRAIN CORRECTION INCREMENTS PR. KM RADIUS. CHECK AGAINST UNNORMAL VALUES

DISTANCE	KM	0	0.002	0.068	0.23	0.59	0.90	1.28	1.75	2.29	2.87	3.52	5.24	8.44	12.4	18.8	28.8	58.8	99.0	166.7	CIRCLE
3	1	0.00	7.82	1.73	0.88	2.07	0.50	1.41	0.95	0.94	0.35	0.368	0.152	0.072	0.026	0.011	0.000	0.000	0.000	0.000	4.50
3	2	0.00	9.02	1.76	1.08	1.86	0.34	1.22	0.83	0.84	0.30	0.300	0.122	0.067	0.023	0.009	0.000	0.000	0.000	0.000	4.11
3	3	0.00	8.01	1.73	1.53	1.84	0.32	1.19	0.81	0.82	0.29	0.293	0.119	0.067	0.022	0.009	0.000	0.000	0.000	0.000	4.00
3	4	0.00	5.22	2.06	1.55	1.85	0.31	1.19	0.81	0.81	0.29	0.289	0.116	0.065	0.022	0.009	0.000	0.000	0.000	0.000	3.32
3	5	0.00	4.83	2.39	1.66	1.87	0.63	1.04	0.81	0.80	0.28	0.285	0.115	0.063	0.021	0.009	0.000	0.000	0.000	0.000	4.61
3	6	0.00	3.49	2.59	1.67	1.90	0.61	1.03	0.79	0.79	0.28	0.280	0.113	0.062	0.021	0.009	0.000	0.000	0.000	0.000	4.92
3	7	0.00	1.81	2.55	1.99	2.02	0.63	1.58	0.71	0.80	0.28	0.288	0.112	0.063	0.021	0.009	0.000	0.000	0.000	0.000	4.99
3	8	0.00	1.28	2.54	1.95	2.08	0.63	1.59	0.71	0.81	0.28	0.289	0.113	0.063	0.021	0.009	0.000	0.000	0.000	0.000	3.33
3	9	0.00	1.36	2.60	2.82	1.96	0.64	1.62	0.72	0.81	0.28	0.290	0.113	0.063	0.021	0.009	0.000	0.000	0.000	0.000	3.48
3	10	0.00	1.68	2.47	2.83	2.02	0.66	1.65	0.73	0.83	0.28	0.292	0.114	0.063	0.021	0.009	0.000	0.000	0.000	0.000	2.94
3	11	0.00	1.88	2.65	0.00	2.05	0.65	1.65	0.73	0.82	0.28	0.291	0.113	0.062	0.021	0.009	0.000	0.000	0.000	0.000	3.02
3	12	0.00	2.46	2.73	0.00	2.07	0.65	1.67	0.73	0.82	0.30	0.284	0.112	0.061	0.022	0.009	0.000	0.000	0.000	0.000	3.05
3	13	0.00	3.11	2.26	3.09	2.10	0.65	1.66	0.73	0.82	0.28	0.289	0.112	0.062	0.021	0.009	0.000	0.000	0.000	0.000	3.28
3	14	0.00	4.18	2.43	2.94	2.09	0.65	1.69	0.73	0.83	0.38	0.260	0.111	0.060	0.022	0.009	0.000	0.000	0.000	0.000	4.14
3	15	0.00	2.46	2.44	3.14	2.10	0.65	1.71	0.74	0.83	0.38	0.265	0.108	0.059	0.022	0.009	0.000	0.000	0.000	0.000	3.93
3	16	0.00	4.01	2.59	2.92	2.09	0.64	1.69	0.73	0.81	0.38	0.263	0.104	0.059	0.021	0.009	0.000	0.000	0.000	0.000	3.76
3	17	0.00	4.59	2.67	2.93	2.00	0.63	1.70	0.73	0.81	0.37	0.259	0.105	0.057	0.021	0.008	0.000	0.000	0.000	0.000	3.77
3	18	0.00	4.61	2.69	2.95	2.02	0.62	1.68	0.72	0.80	0.37	0.258	0.101	0.057	0.021	0.009	0.000	0.000	0.000	0.000	3.78
3	19	0.00	6.05	2.81	2.87	2.03	0.62	1.70	0.72	0.80	0.37	0.261	0.099	0.057	0.021	0.008	0.000	0.000	0.000	0.000	3.64
3	20	0.00	5.79	2.94	2.93	2.10	0.64	1.74	0.74	0.82	0.38	0.267	0.102	0.058	0.021	0.008	0.000	0.000	0.000	0.000	3.49
3	21	0.00	6.04	2.83	2.62	2.22	0.67	2.06	0.52	0.85	0.39	0.268	0.103	0.058	0.021	0.008	0.000	0.000	0.000	0.000	3.48
3	22	0.00	5.48	2.34	2.52	2.27	0.70	2.10	0.52	0.86	0.39	0.272	0.106	0.059	0.022	0.008	0.000	0.000	0.000	0.000	3.35
3	23	0.00	4.37	3.66	2.64	2.32	0.92	1.66	0.53	0.88	0.40	0.276	0.107	0.059	0.022	0.009	0.000	0.000	0.000	0.000	3.78
3	24	0.00	4.21	4.60	2.11	2.39	0.97	1.69	0.54	0.90	0.41	0.282	0.110	0.060	0.022	0.009	0.000	0.000	0.000	0.000	4.64
3	25	0.00	3.45	5.16	3.01	2.42	1.00	1.73	0.55	1.00	0.40	0.279	0.109	0.060	0.022	0.009	0.000	0.000	0.000	0.000	5.20
3	26	0.00	3.12	5.41	2.36	2.47	1.02	1.77	0.55	1.01	0.41	0.281	0.109	0.060	0.022	0.009	0.000	0.000	0.000	0.000	5.61
3	27	0.00	2.56	5.20	3.18	2.51	1.01	1.77	0.55	1.01	0.41	0.280	0.109	0.060	0.022	0.008	0.000	0.000	0.000	0.000	5.70
3	28	0.00	2.17	4.76	3.61	2.55	1.02	1.80	0.55	1.02	0.53	0.235	0.109	0.060	0.022	0.009	0.000	0.000	0.000	0.000	5.52
3	29	0.00	2.83	4.52	3.92	2.59	1.03	2.19	0.05	1.03	0.53	0.235	0.109	0.060	0.022	0.009	0.000	0.000	0.000	0.000	5.30
3	30	0.00	4.10	4.86	4.37	2.64	1.04	2.76	0.05	1.16	0.50	0.235	0.109	0.059	0.022	0.009	0.000	0.000	0.000	0.000	5.51
3	31	0.00	4.36	4.42	4.63	2.57	1.01	2.75	0.05	1.15	0.49	0.230	0.106	0.058	0.022	0.009	0.000	0.000	0.000	0.000	5.12
3	32	0.00	3.89	3.98	4.54	2.54	0.95	2.70	0.51	0.80	0.48	0.223	0.103	0.056	0.021	0.008	0.000	0.000	0.000	0.000	4.71
3	33	0.00	3.98	3.86	4.34	2.51	0.92	2.67	0.56	0.68	0.49	0.209	0.103	0.055	0.021	0.008	0.000	0.000	0.000	0.000	4.45
3	34	0.00	4.39	4.01	4.27	2.51	0.91	2.68	0.56	0.68	0.49	0.204	0.102	0.054	0.020	0.008	0.001	0.000	0.000	0.000	4.57
3	35	0.00	4.50	3.92	4.77	2.72	1.50	2.21	0.57	0.61	0.52	0.206	0.100	0.053	0.020	0.008	0.001	0.000	0.000	0.000	4.85
3	36	0.00	4.01	4.36	3.93	2.67	1.48	2.19	0.57	0.75	0.45	0.201	0.097	0.052	0.020	0.008	0.001	0.001	0.000	0.000	4.88
3	37	0.00	4.21	3.95	3.48	2.64	1.45	2.15	0.56	0.73	0.44	0.195	0.094	0.050	0.019	0.007	0.001	0.001	0.001	0.001	4.72
3	38	0.00	4.33	3.72	3.12	2.56	1.31	2.12	0.56	0.71	0.43	0.191	0.089	0.049	0.019	0.007	0.001	0.001	0.001	0.001	4.53
3	39	0.00	3.54	3.60	2.59	2.51	1.29	2.06	0.61	0.64	0.41	0.183	0.085	0.048	0.018	0.007	0.001	0.001	0.001	0.001	4.33

TABLE OF TERRAIN FUNCTION VALUES
PROFILE 3

Terrain correction function values for various distance intervals at each gravity station. The total terrain correction is the sum of each function value multiplied by the corresponding distance interval (e.g. for station 1, the terrain correction is; $0*(0.002-0)+7.82*(0.068-0.002)+1.73*(0.23-0.068)+.....$). The total terrain correction values are listed in appendix 2 page 2.

TABLE OF CO-ORDINATES, ABSOLUTE
 GRAVITY, CORRECTIONS AND BOUGUER
 ANOMALIES, PROFILE 2

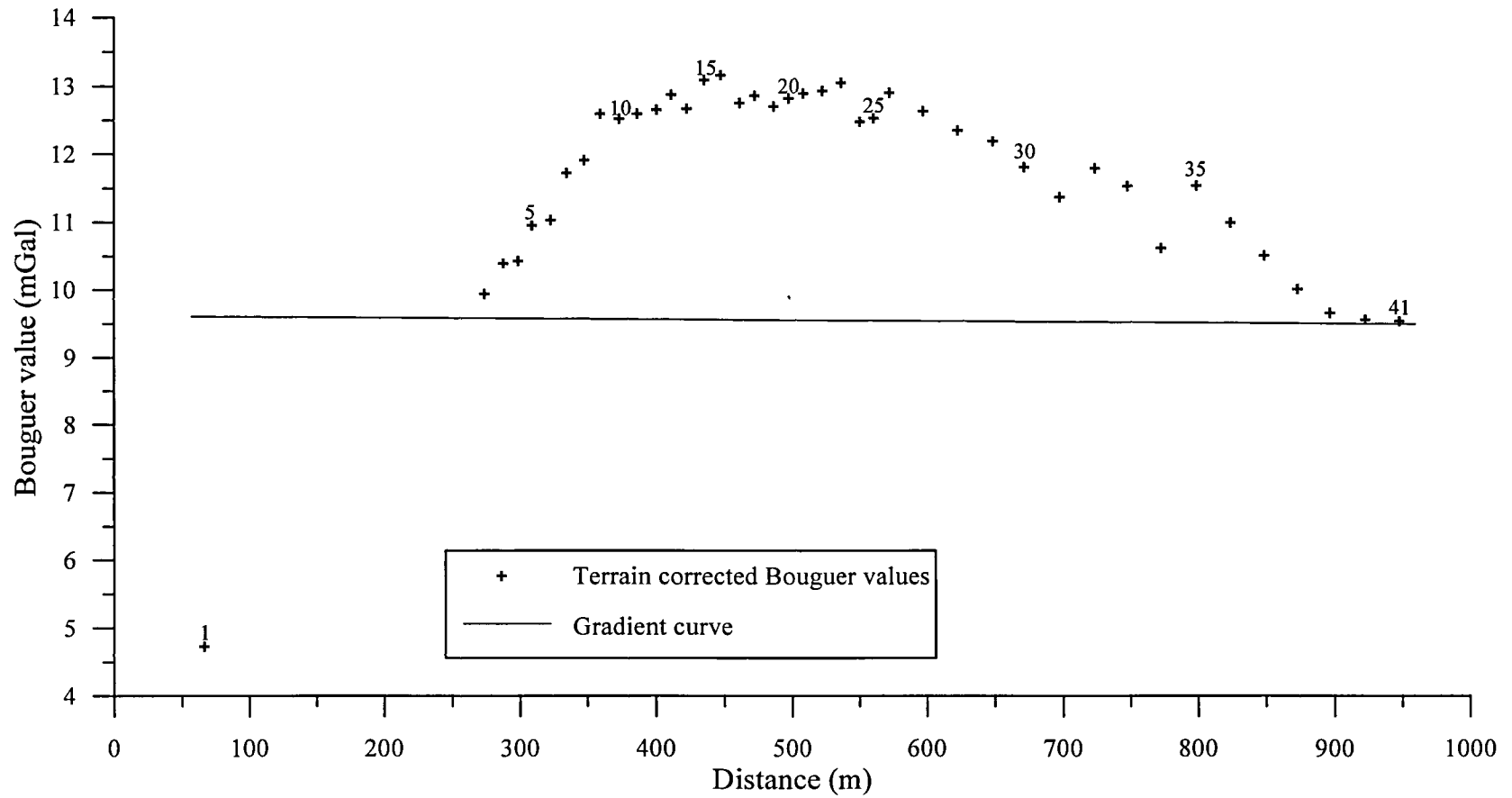
* Station	* Profile Point	* Lati- tude	* Longi- tude	* UTM zone	* UTM east	* UTM north	* Elevation: (in m)	* Absolute gravity	* Bouguer: corr.	* Terrain corr.	* Free air corr.	* Bouguer anomaly	
*	2	1	: 61 29.37	: 5 26.14	: 32V	: 310248	: 6822669	: 0.40	: 982028.746	: 0.05	: 8.99	: 0.12	: 4.73
*	2	2	: 61 29.48	: 5 26.20	: 32V	: 310318	: 6822873	: 244.39	: 981984.692	: 27.67	: 10.77	: 75.37	: 9.94
*	2	3	: 61 29.49	: 5 26.20	: 32V	: 310319	: 6822887	: 251.96	: 981984.005	: 28.53	: 10.43	: 77.71	: 10.39
*	2	4	: 61 29.50	: 5 26.20	: 32V	: 310321	: 6822898	: 260.20	: 981982.577	: 29.46	: 10.34	: 80.25	: 10.43
*	2	5	: 61 29.50	: 5 26.20	: 32V	: 310321	: 6822908	: 268.29	: 981981.501	: 30.38	: 10.37	: 82.74	: 10.95
*	2	6	: 61 29.51	: 5 26.20	: 32V	: 310322	: 6822922	: 275.19	: 981980.767	: 31.16	: 9.83	: 84.87	: 11.03
*	2	7	: 61 29.52	: 5 26.20	: 32V	: 310322	: 6822934	: 280.33	: 981980.860	: 31.74	: 9.43	: 86.45	: 11.72
*	2	8	: 61 29.52	: 5 26.20	: 32V	: 310323	: 6822947	: 286.95	: 981979.798	: 32.49	: 9.38	: 88.50	: 11.91
*	2	9	: 61 29.53	: 5 26.20	: 32V	: 310323	: 6822959	: 291.80	: 981979.473	: 33.04	: 9.44	: 89.99	: 12.59
*	2	10	: 61 29.54	: 5 26.20	: 32V	: 310324	: 6822973	: 296.55	: 981978.896	: 33.57	: 9.02	: 91.46	: 12.52
*	2	11	: 61 29.55	: 5 26.20	: 32V	: 310324	: 6822986	: 297.71	: 981979.277	: 33.71	: 8.55	: 91.81	: 12.59
*	2	12	: 61 29.55	: 5 26.20	: 32V	: 310325	: 6823000	: 302.47	: 981978.380	: 34.24	: 8.57	: 93.28	: 12.65
*	2	13	: 61 29.56	: 5 26.20	: 32V	: 310325	: 6823011	: 304.00	: 981978.493	: 34.42	: 8.38	: 93.75	: 12.87
*	2	14	: 61 29.56	: 5 26.20	: 32V	: 310326	: 6823022	: 302.32	: 981979.057	: 34.23	: 7.95	: 93.24	: 12.67
*	2	15	: 61 29.57	: 5 26.20	: 32V	: 310326	: 6823035	: 303.83	: 981979.425	: 34.40	: 7.70	: 93.70	: 13.09
*	2	16	: 61 29.58	: 5 26.20	: 32V	: 310327	: 6823047	: 304.60	: 981979.424	: 34.49	: 7.62	: 93.94	: 13.16
*	2	17	: 61 29.59	: 5 26.20	: 32V	: 310327	: 6823061	: 305.86	: 981979.120	: 34.63	: 7.27	: 94.33	: 12.75
*	2	18	: 61 29.59	: 5 26.20	: 32V	: 310328	: 6823072	: 306.22	: 981979.253	: 34.67	: 7.18	: 94.44	: 12.86
*	2	19	: 61 29.60	: 5 26.20	: 32V	: 310328	: 6823086	: 305.86	: 981979.443	: 34.63	: 6.96	: 94.33	: 12.70
*	2	20	: 61 29.61	: 5 26.20	: 32V	: 310329	: 6823097	: 304.95	: 981979.816	: 34.53	: 6.89	: 94.05	: 12.82
*	2	21	: 61 29.61	: 5 26.20	: 32V	: 310329	: 6823108	: 304.70	: 981979.989	: 34.50	: 6.83	: 93.97	: 12.89
*	2	22	: 61 29.62	: 5 26.20	: 32V	: 310330	: 6823122	: 303.22	: 981980.397	: 34.33	: 6.75	: 93.51	: 12.93
*	2	23	: 61 29.63	: 5 26.20	: 32V	: 310331	: 6823136	: 301.74	: 981980.867	: 34.16	: 6.69	: 93.06	: 13.05
*	2	24	: 61 29.63	: 5 26.20	: 32V	: 310331	: 6823150	: 299.12	: 981981.387	: 33.87	: 6.12	: 92.25	: 12.48
*	2	25	: 61 29.64	: 5 26.20	: 32V	: 310333	: 6823160	: 297.73	: 981981.667	: 33.71	: 6.16	: 91.82	: 12.53
*	2	26	: 61 29.65	: 5 26.20	: 32V	: 310333	: 6823172	: 300.48	: 981980.995	: 34.02	: 6.72	: 92.67	: 12.90
*	2	27	: 61 29.66	: 5 26.20	: 32V	: 310334	: 6823197	: 312.71	: 981977.889	: 35.40	: 7.17	: 96.44	: 12.63
*	2	28	: 61 29.67	: 5 26.20	: 32V	: 310334	: 6823222	: 318.04	: 981976.835	: 36.01	: 6.90	: 98.08	: 12.35
*	2	29	: 61 29.69	: 5 26.20	: 32V	: 310336	: 6823248	: 318.51	: 981976.993	: 36.06	: 6.49	: 98.23	: 12.19
*	2	30	: 61 29.70	: 5 26.20	: 32V	: 310337	: 6823271	: 316.14	: 981977.637	: 35.79	: 5.99	: 97.50	: 11.81
*	2	31	: 61 29.71	: 5 26.20	: 32V	: 310337	: 6823297	: 314.17	: 981978.039	: 35.57	: 5.54	: 96.89	: 11.37
*	2	32	: 61 29.73	: 5 26.20	: 32V	: 310339	: 6823323	: 302.67	: 981980.752	: 34.27	: 5.49	: 93.34	: 11.79
*	2	33	: 61 29.74	: 5 26.20	: 32V	: 310341	: 6823347	: 311.41	: 981978.377	: 35.26	: 5.90	: 96.04	: 11.53
*	2	34	: 61 29.75	: 5 26.20	: 32V	: 310342	: 6823372	: 306.11	: 981979.258	: 34.66	: 5.20	: 94.40	: 10.62
*	2	35	: 61 29.77	: 5 26.20	: 32V	: 310343	: 6823398	: 292.13	: 981982.325	: 33.08	: 5.79	: 90.09	: 11.54
*	2	36	: 61 29.78	: 5 26.20	: 32V	: 310344	: 6823423	: 275.29	: 981985.799	: 31.17	: 5.06	: 84.90	: 10.99
*	2	37	: 61 29.79	: 5 26.20	: 32V	: 310346	: 6823448	: 267.16	: 981987.513	: 30.25	: 4.45	: 82.39	: 10.51
*	2	38	: 61 29.81	: 5 26.20	: 32V	: 310347	: 6823472	: 265.12	: 981987.945	: 30.02	: 3.98	: 81.76	: 10.01
*	2	39	: 61 29.82	: 5 26.20	: 32V	: 310347	: 6823496	: 265.14	: 981987.463	: 30.02	: 4.10	: 81.77	: 9.66
*	2	40	: 61 29.83	: 5 26.20	: 32V	: 310348	: 6823522	: 265.34	: 981987.396	: 30.04	: 4.03	: 81.83	: 9.56
*	2	41	: 61 29.85	: 5 26.20	: 32V	: 310350	: 6823547	: 268.87	: 981986.323	: 30.44	: 4.46	: 82.92	: 9.54

TABLE OF CO-ORDINATES, ABSOLUTE GRAVITY, CORRECTIONS AND BOUGUER ANOMALIES, PROFILE 3

* Station	: Lati-	: Longi-	: UTM	: UTM	: UTM	: Elevation:	Absolute	: Bouguer:	Terrain	: Free air	: Bouguer	*
* Profile Point	: tude	: tude	: zone	: east	: north	: (in m)	: gravity	: corr.	: corr.	: corr.	: anomaly	*
* 3 1	: 61 29.44	: 5 25.13	: 32V	: 309365	: 6822838	: 1.00	: 982028.953	: 0.11	: 6.34	: 0.31	: 2.34	*
* 3 2	: 61 29.47	: 5 25.18	: 32V	: 309413	: 6822892	: 38.64	: 982025.213	: 4.38	: 6.15	: 11.92	: 5.69	*
* 3 3	: 61 29.47	: 5 25.19	: 32V	: 309420	: 6822902	: 44.22	: 982025.029	: 5.01	: 5.59	: 13.64	: 6.03	*
* 3 4	: 61 29.48	: 5 25.20	: 32V	: 309427	: 6822913	: 48.39	: 982024.488	: 5.48	: 5.31	: 14.92	: 6.03	*
* 3 5	: 61 29.49	: 5 25.20	: 32V	: 309433	: 6822923	: 52.90	: 982024.202	: 5.99	: 5.08	: 16.32	: 6.38	*
* 3 6	: 61 29.49	: 5 25.21	: 32V	: 309439	: 6822934	: 56.71	: 982023.812	: 6.43	: 4.79	: 17.49	: 6.45	*
* 3 7	: 61 29.50	: 5 25.22	: 32V	: 309446	: 6822946	: 54.93	: 982024.605	: 6.22	: 4.73	: 16.94	: 6.78	*
* 3 8	: 61 29.50	: 5 25.22	: 32V	: 309453	: 6822957	: 54.30	: 982024.996	: 6.15	: 4.94	: 16.75	: 7.25	*
* 3 9	: 61 29.51	: 5 25.23	: 32V	: 309459	: 6822966	: 54.67	: 982025.096	: 6.19	: 5.25	: 16.86	: 7.73	*
* 3 10	: 61 29.52	: 5 25.24	: 32V	: 309465	: 6822977	: 54.06	: 982025.368	: 6.13	: 5.44	: 16.67	: 8.08	*
* 3 11	: 61 29.52	: 5 25.24	: 32V	: 309472	: 6822988	: 55.15	: 982025.268	: 6.25	: 5.60	: 17.01	: 8.35	*
* 3 12	: 61 29.53	: 5 25.25	: 32V	: 309478	: 6822998	: 56.85	: 982025.021	: 6.44	: 5.65	: 17.53	: 8.48	*
* 3 13	: 61 29.53	: 5 25.26	: 32V	: 309483	: 6823008	: 57.71	: 982024.990	: 6.54	: 5.77	: 17.80	: 8.74	*
* 3 14	: 61 29.54	: 5 25.26	: 32V	: 309490	: 6823019	: 59.09	: 982024.719	: 6.70	: 5.83	: 18.22	: 8.80	*
* 3 15	: 61 29.55	: 5 25.27	: 32V	: 309497	: 6823032	: 61.56	: 982024.268	: 6.97	: 5.62	: 18.99	: 8.56	*
* 3 16	: 61 29.55	: 5 25.28	: 32V	: 309503	: 6823042	: 64.63	: 982023.733	: 7.32	: 5.85	: 19.93	: 8.85	*
* 3 17	: 61 29.56	: 5 25.28	: 32V	: 309510	: 6823053	: 67.64	: 982023.239	: 7.66	: 5.94	: 20.86	: 9.03	*
* 3 18	: 61 29.56	: 5 25.29	: 32V	: 309516	: 6823064	: 70.25	: 982022.790	: 7.96	: 5.95	: 21.67	: 9.10	*
* 3 19	: 61 29.57	: 5 25.30	: 32V	: 309523	: 6823074	: 72.65	: 982022.276	: 8.23	: 6.22	: 22.41	: 9.33	*
* 3 20	: 61 29.57	: 5 25.30	: 32V	: 309528	: 6823084	: 67.22	: 982023.382	: 7.62	: 6.33	: 20.73	: 9.49	*
* 3 21	: 61 29.59	: 5 25.31	: 32V	: 309541	: 6823106	: 64.69	: 982023.761	: 7.33	: 6.37	: 19.95	: 9.41	*
* 3 22	: 61 29.59	: 5 25.32	: 32V	: 309546	: 6823116	: 61.36	: 982024.236	: 6.95	: 6.22	: 18.92	: 9.09	*
* 3 23	: 61 29.60	: 5 25.33	: 32V	: 309552	: 6823125	: 58.83	: 982024.561	: 6.67	: 6.29	: 18.14	: 8.92	*
* 3 24	: 61 29.60	: 5 25.33	: 32V	: 309559	: 6823137	: 53.72	: 982025.317	: 6.09	: 6.11	: 16.57	: 8.51	*
* 3 25	: 61 29.61	: 5 25.34	: 32V	: 309566	: 6823148	: 52.81	: 982025.286	: 5.98	: 6.42	: 16.29	: 8.60	*
* 3 26	: 61 29.62	: 5 25.35	: 32V	: 309573	: 6823159	: 52.65	: 982025.195	: 5.97	: 6.14	: 16.24	: 8.20	*
* 3 27	: 61 29.62	: 5 25.35	: 32V	: 309578	: 6823170	: 53.24	: 982024.993	: 6.03	: 6.46	: 16.42	: 8.43	*
* 3 28	: 61 29.63	: 5 25.36	: 32V	: 309585	: 6823181	: 54.04	: 982024.707	: 6.12	: 6.70	: 16.67	: 8.54	*
* 3 29	: 61 29.64	: 5 25.37	: 32V	: 309592	: 6823193	: 54.82	: 982024.430	: 6.21	: 7.01	: 16.91	: 8.74	*
* 3 30	: 61 29.65	: 5 25.38	: 32V	: 309604	: 6823213	: 55.63	: 982023.983	: 6.30	: 7.46	: 17.16	: 8.83	*
* 3 31	: 61 29.66	: 5 25.39	: 32V	: 309616	: 6823233	: 61.06	: 982022.878	: 6.92	: 7.54	: 18.83	: 8.86	*
* 3 32	: 61 29.67	: 5 25.40	: 32V	: 309628	: 6823254	: 68.93	: 982021.464	: 7.81	: 7.35	: 21.26	: 8.80	*
* 3 33	: 61 29.68	: 5 25.42	: 32V	: 309642	: 6823274	: 75.63	: 982020.112	: 8.57	: 7.10	: 23.33	: 8.50	*
* 3 34	: 61 29.69	: 5 25.43	: 32V	: 309653	: 6823296	: 78.30	: 982019.236	: 8.87	: 7.22	: 24.15	: 8.27	*
* 3 35	: 61 29.71	: 5 25.44	: 32V	: 309665	: 6823319	: 81.71	: 982018.389	: 9.26	: 7.54	: 25.20	: 8.35	*
* 3 36	: 61 29.72	: 5 25.45	: 32V	: 309677	: 6823340	: 88.05	: 982017.163	: 9.98	: 7.17	: 27.16	: 7.98	*
* 3 37	: 61 29.73	: 5 25.47	: 32V	: 309691	: 6823362	: 95.12	: 982015.867	: 10.78	: 7.01	: 29.34	: 7.90	*
* 3 38	: 61 29.74	: 5 25.48	: 32V	: 309703	: 6823384	: 101.74	: 982014.636	: 11.53	: 7.03	: 31.38	: 7.99	*
* 3 39	: 61 29.75	: 5 25.49	: 32V	: 309716	: 6823408	: 111.77	: 982012.962	: 12.66	: 6.71	: 34.47	: 7.89	*

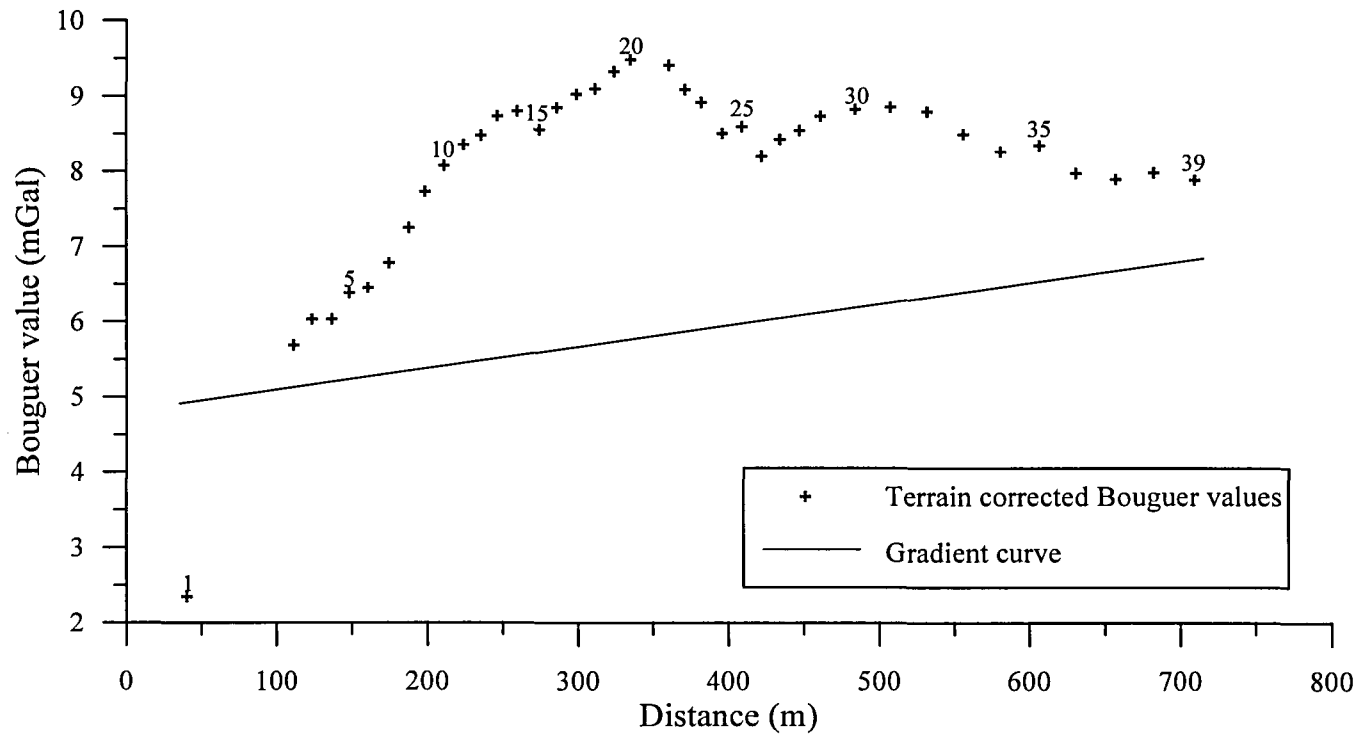
ENGEBØFJELLET, gravity profile 2

Terrain corrected Bouguer anomaly values and regional gradient

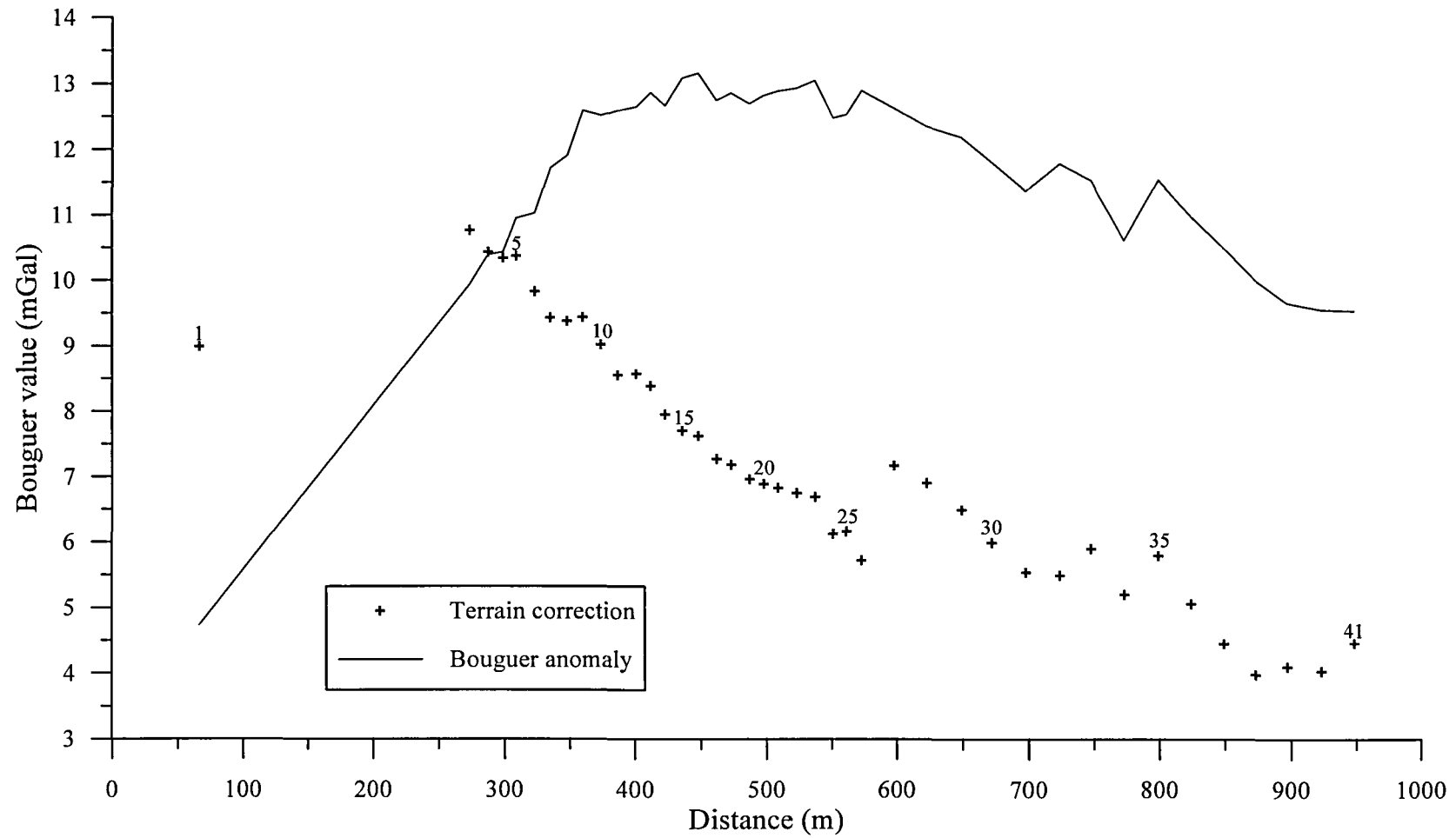


ENGEBØFJELLET, gravity profile 3

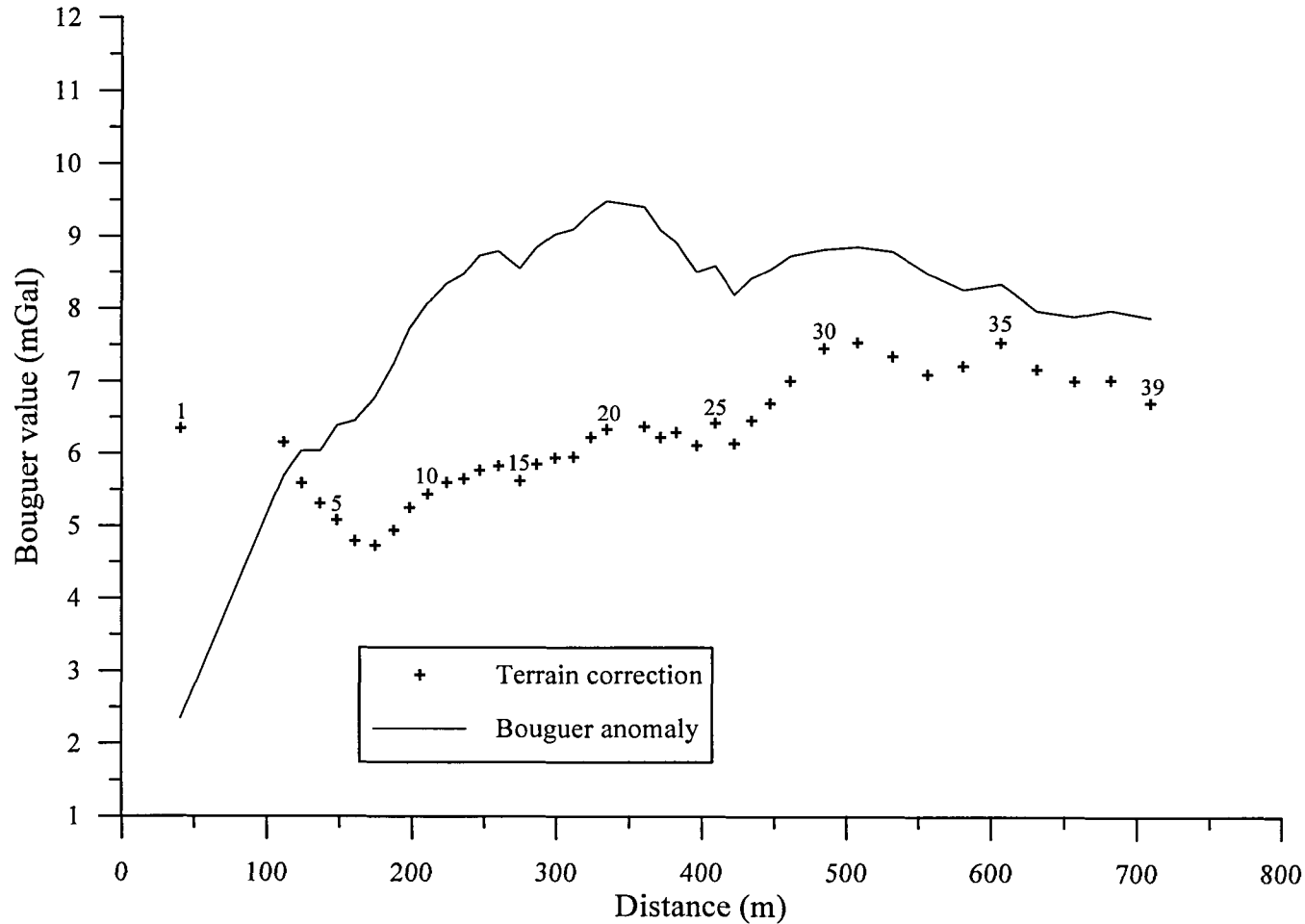
Terrain corrected Bouguer anomaly values and regional gradient



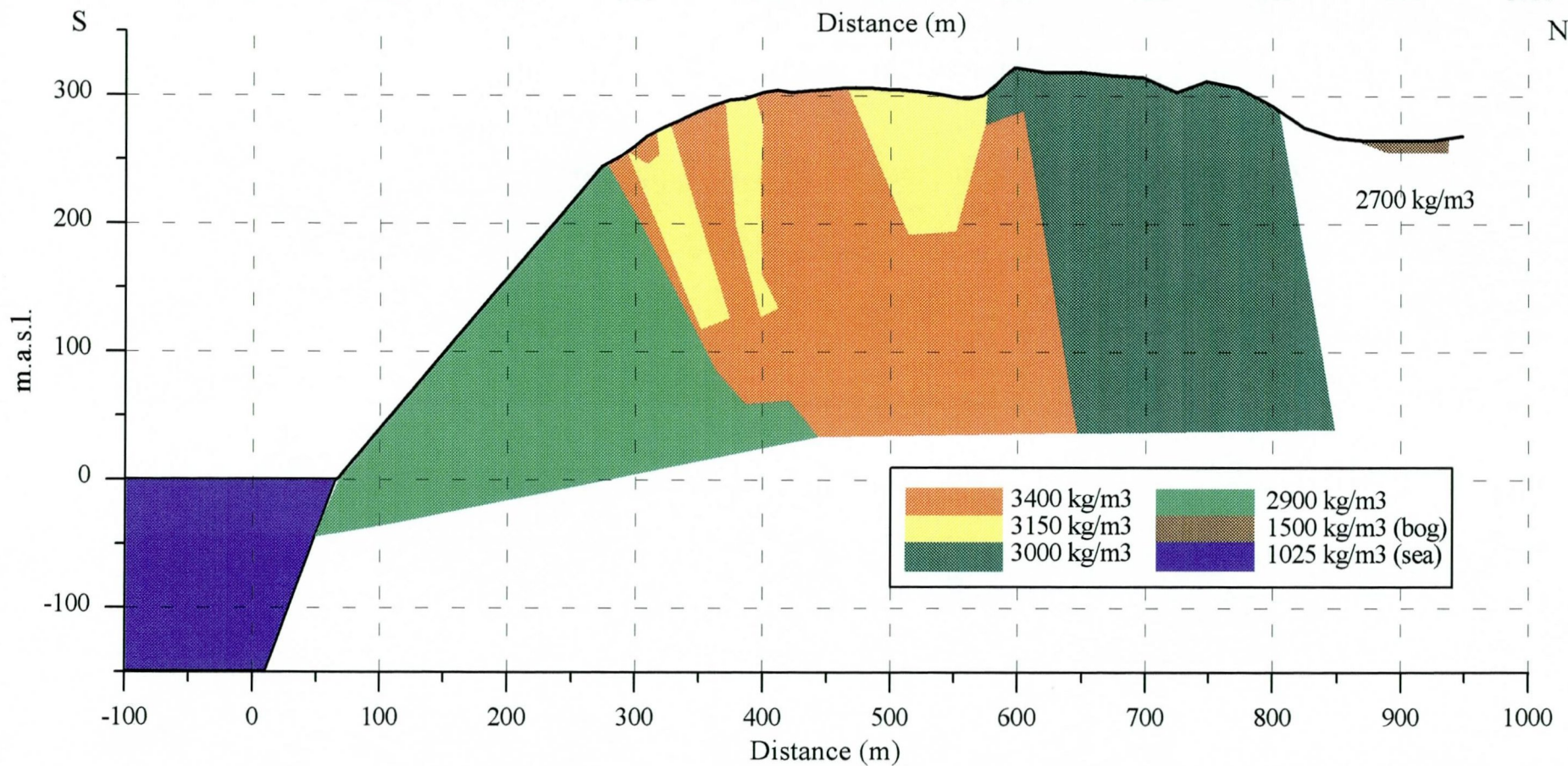
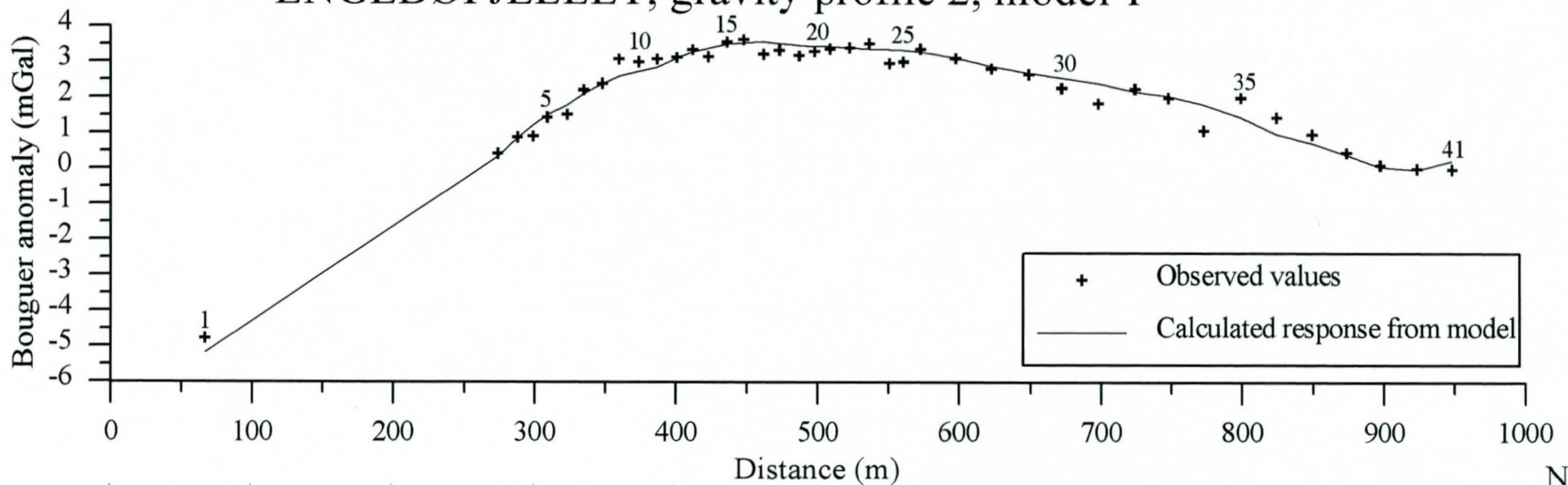
ENGEBØFJELLET, gravity profile 2, terrain correction and Bouguer anomaly values



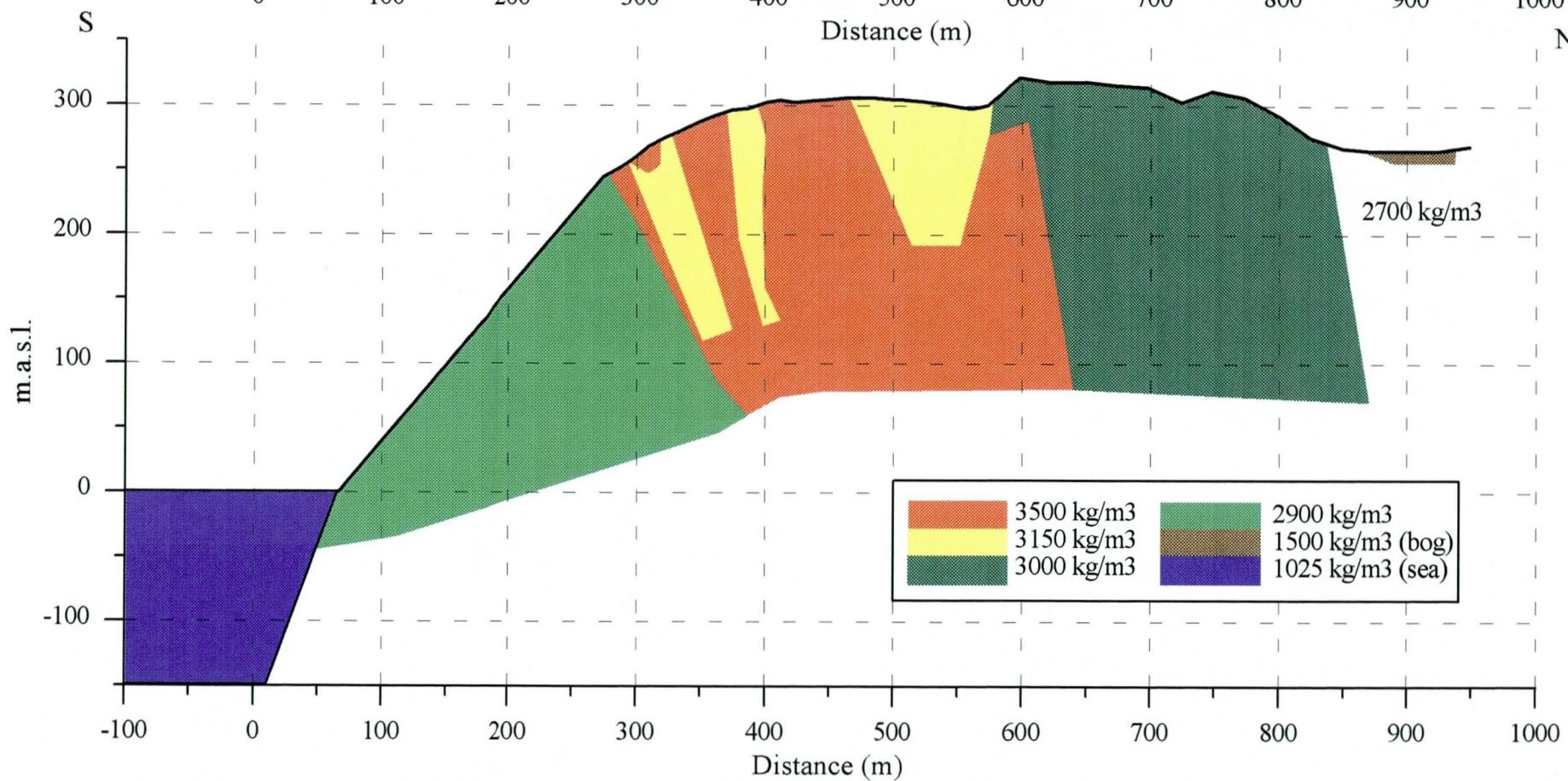
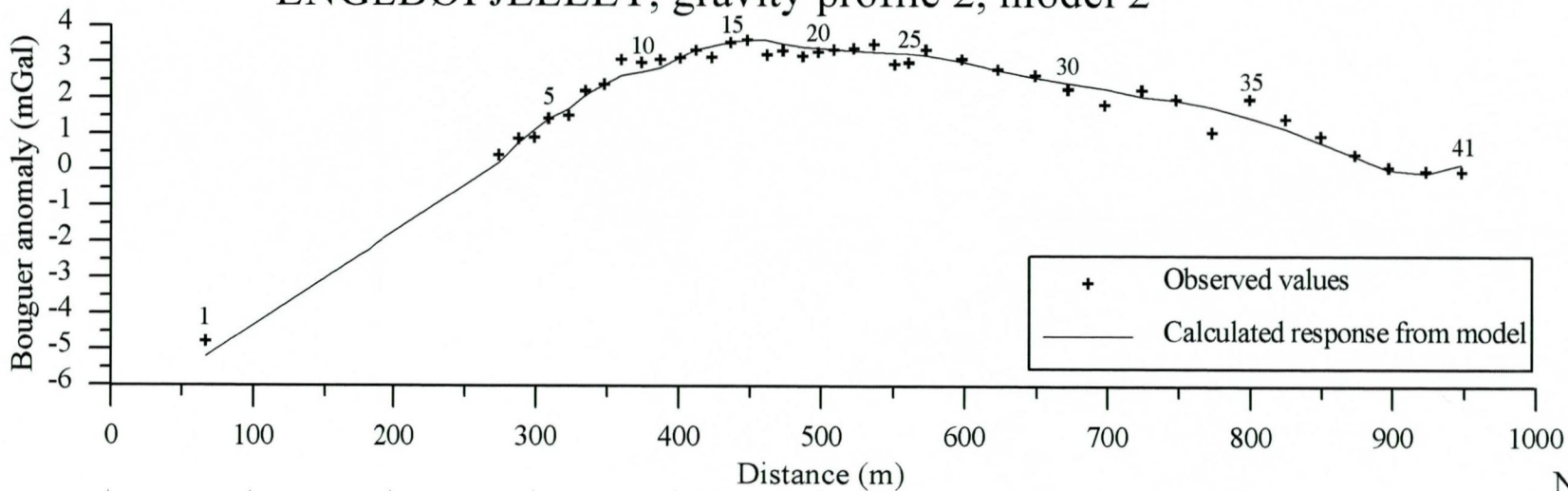
ENGEBØFJELLET, gravity profile 3, terrain correction and Bouguer anomaly values



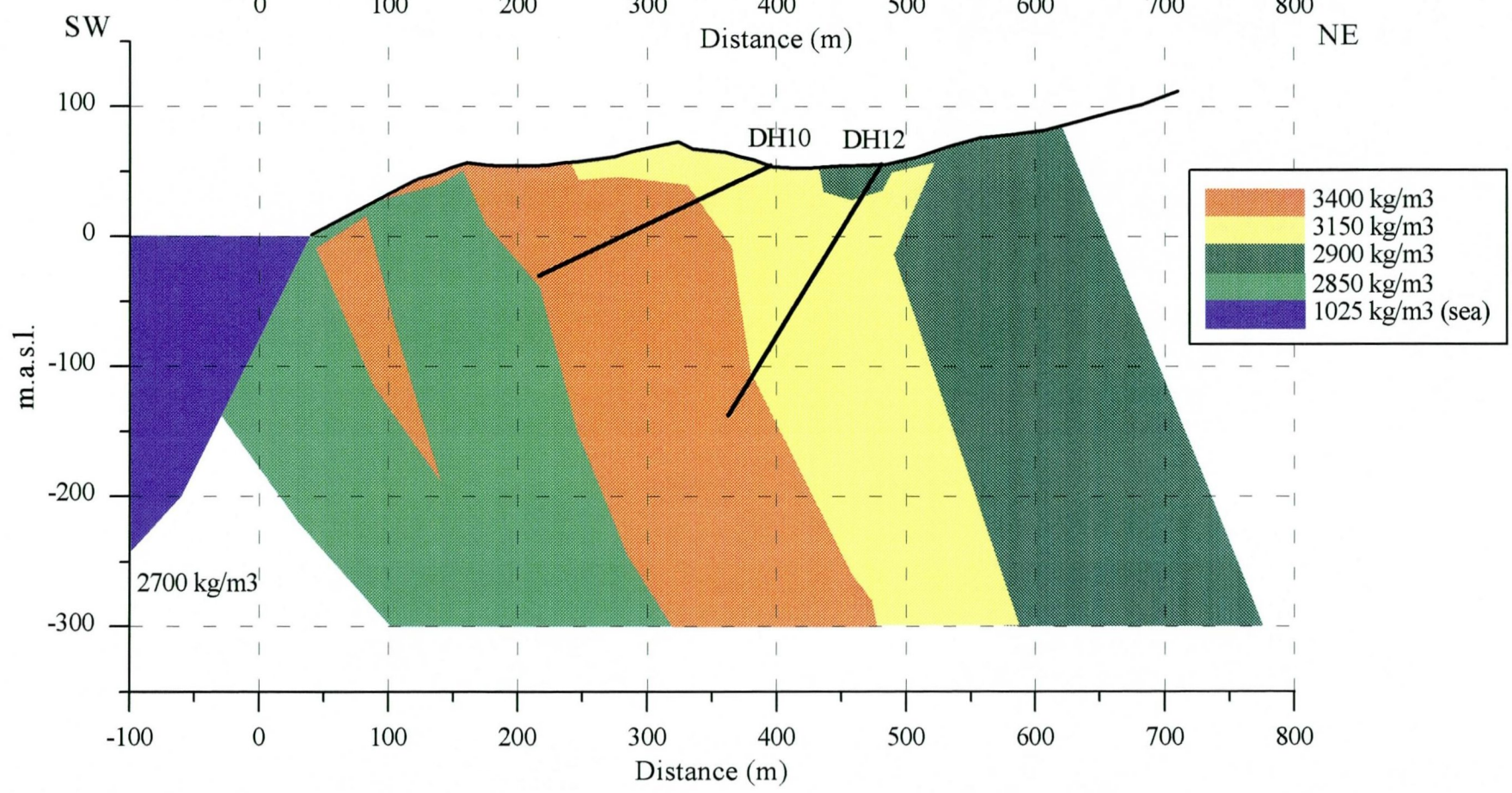
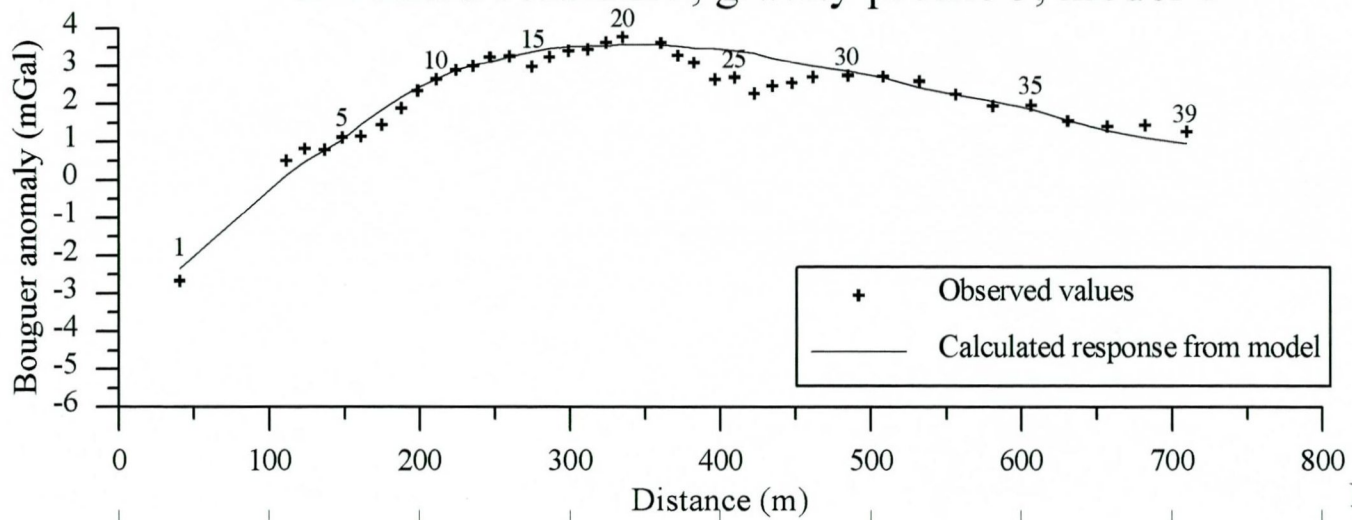
ENGEBØFJELLET, gravity profile 2, model 1



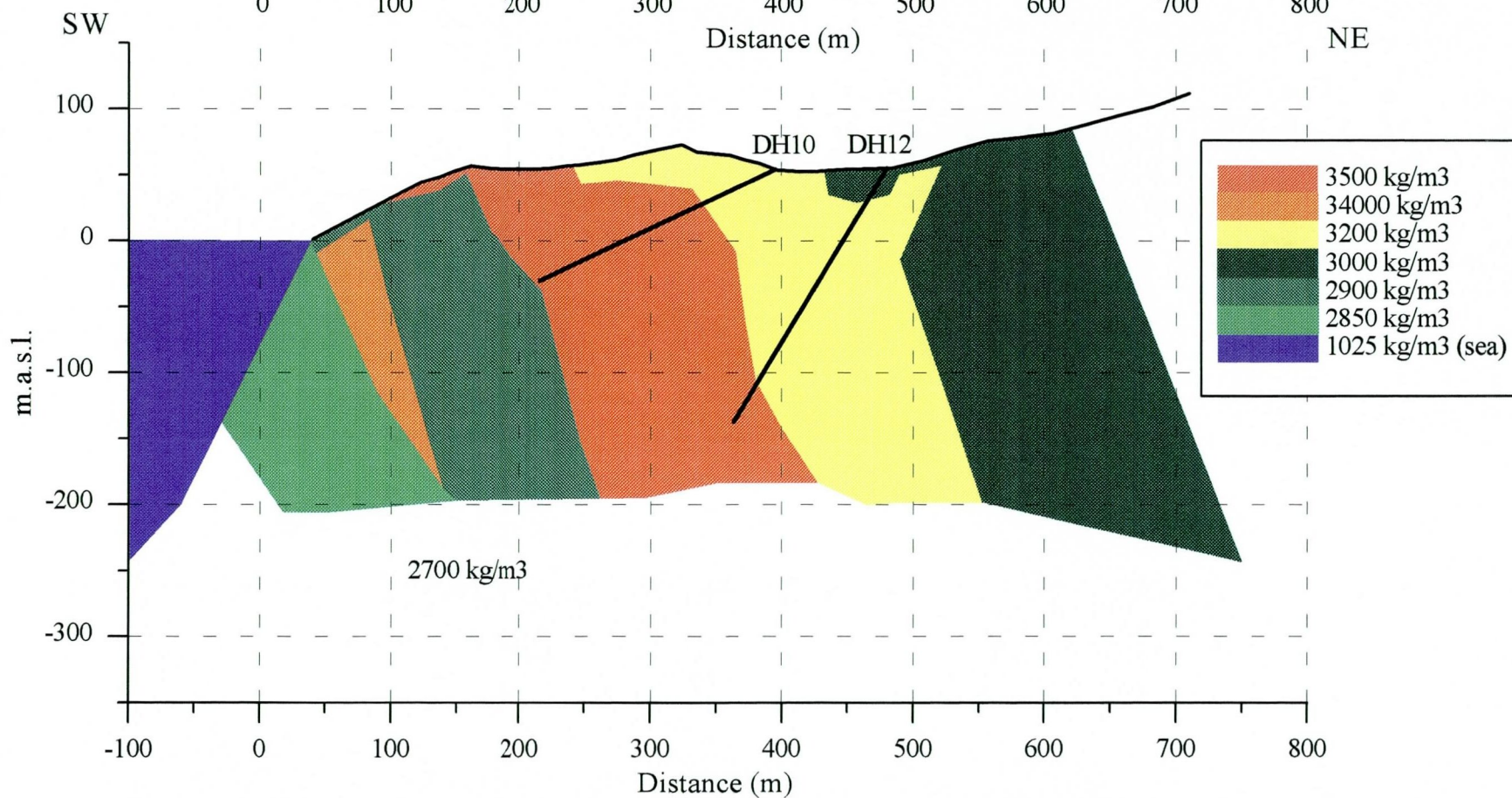
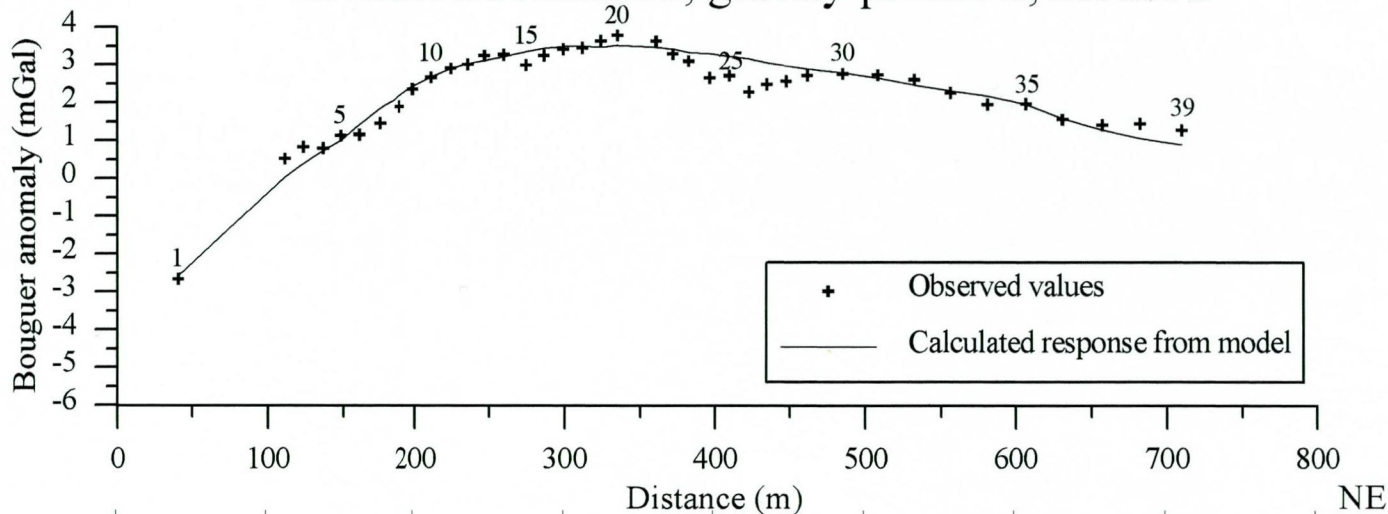
ENGEBØFJELLET, gravity profile 2, model 2

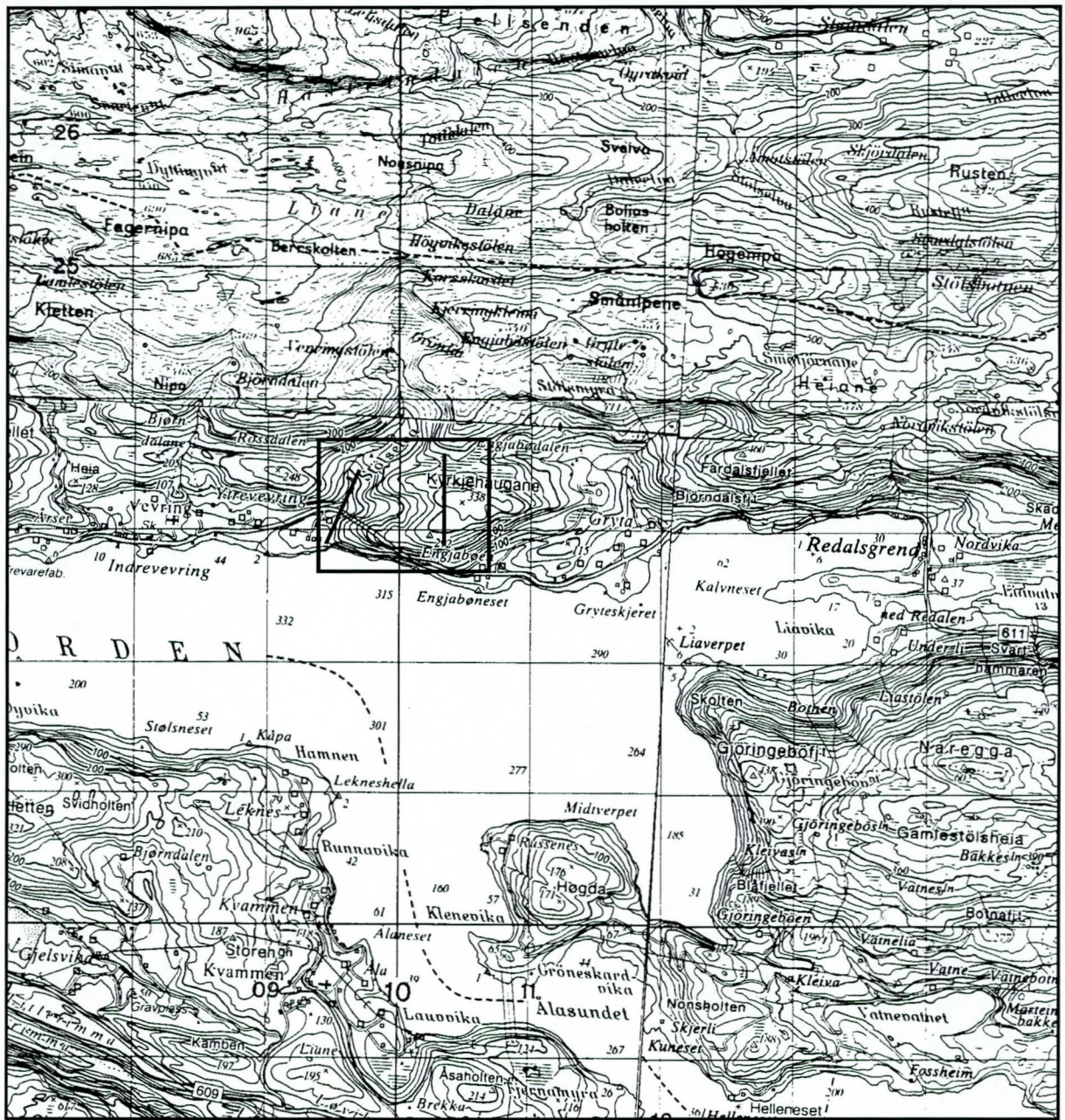


ENGEBØFJELLET, gravity profile 3, model 1



ENGEBØFJELLET, gravity profile 3, model 2





Gravity profile

Area enlarged in map -02

NGU/DuPont
LOCATION MAP

ENGEBØFJELLET

SOGN & FJORDANE, NORWAY

GEOLOGICAL SURVEY OF NORWAY
TRONDHEIM

SCALE

1:50 000

OPER JG

DRAW EM

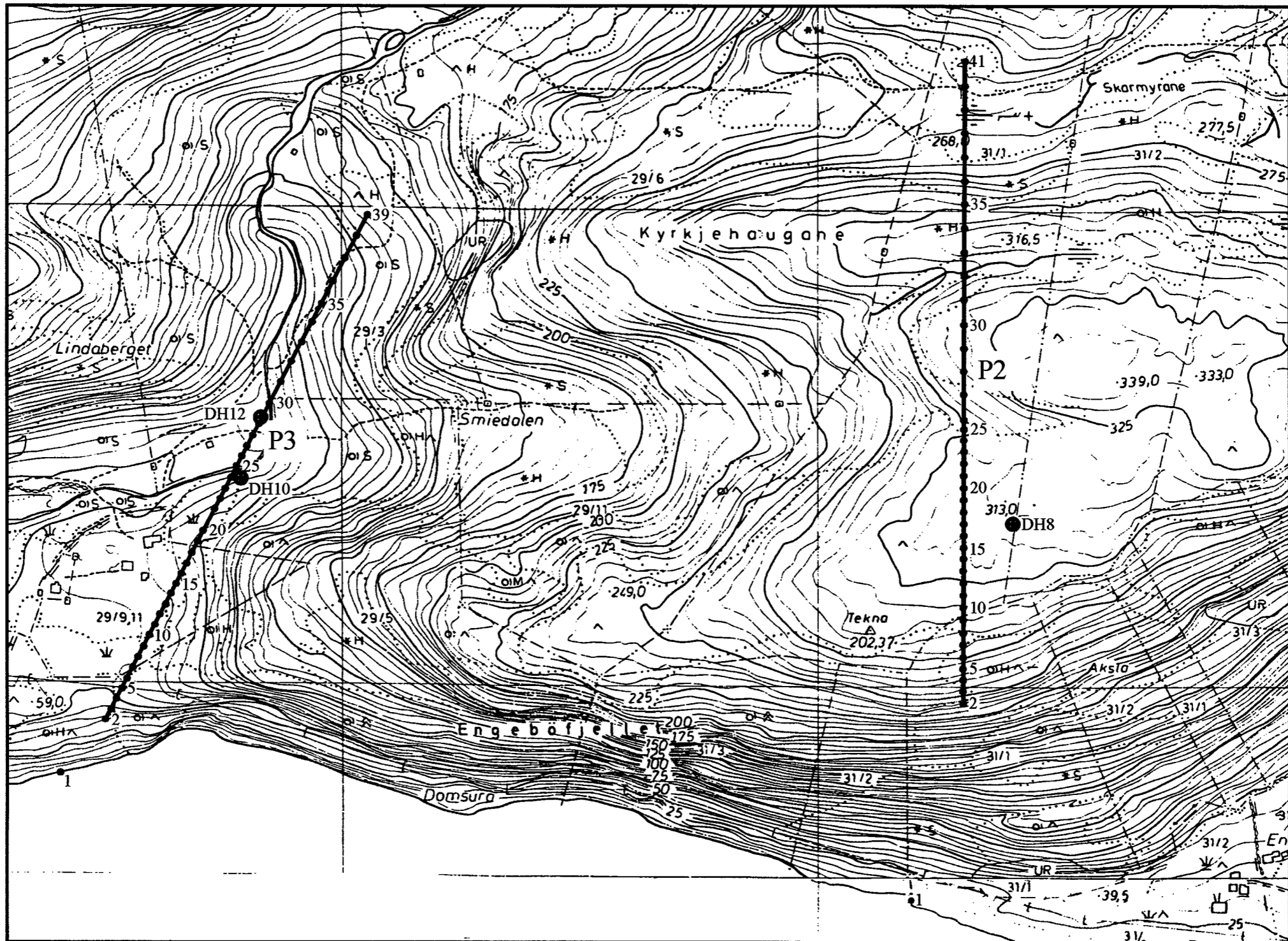
TRAC

Aug. -96

Jan. -97

MAP NO.
97.002-01

MAP 1:50 000
1117 I, 1118 II
1218 III, 1217 IV



P2

Gravity profile no.

● DH10 Position of drillhole

● 5 Gravity station no.

NGU/DuPont
GRAVITY PROFILES AND STATIONS
ENGEBØFJELLET
SOGN & FJORDANE, NORWAY

GEOLOGICAL SURVEY OF NORWAY
TRONDHEIM

SCALE

1:5000

OPER JG Aug. -96

DRAW EM Jan. -97

TRAC

MAP NO.
97.002-02

MAP 1:50 000
1117 I