Report 95.039

Magnetic susceptibility of sedimentary rocks from shallow cores off Mid Norway and crystalline rocks from adjacent onland areas NAS-94 Interpretation Report Part II: Petrophysical data

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REPORT

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Title: Magnetic susceptibility of sedimentary rocks from shallow cores off Mid Norway and crystalline rocks from adjacent onland areas. NAS-94 Interpretation Report Part II: Petrophysical data	
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Summary:

This report presents results from 1659 magnetic susceptibility measurements on cores from the IKU shallow drilling programme in the Nordland IV, V, VI and VII areas in addition to susceptibility, remanence and density measurements on approximately 4100 bedrock samples from the coastal area of Nordland and North Trøndelag (crystalline basement). Together the measured cores represent a > 1900 m rock column through the Upper Permian, Triassic, Jurassic, Cretaceous, and Lower Tertiary. The Pleistocene cover has also been measured. The magnetic susceptibility data have been compared for different lithologies and sediment composition and mineralogical analysis by SEM and XRD methods have been performed in order to identify the mineralogical source of the magnetic properties. These results have been used to aid in interpretation of aeromagnetic measurements from the NAS-94 Project.

Keywords: Geofysikk	Berggrunnsgeologi	Mineralogi
Magnetometri	Kontinentalsokkel	Mikrosondeanalyse
Petrofysikk	Kjemisk analyse	Fagrapport

CONTENTS:

1. INTRODUCTION

The Nordland Aeromagnetic Survey 1994 (NAS-94) reveals numerous high frequency anomalies originating from magnetic sources within the sedimentary sequence. To enable us to carry out an interpretation of this data-set it is of vital importance to have access to the magnetic properties of these sediments. The Geological Survey of Norway (NGU) and IKU Petroleum Research have therefore carried out a measuring programme within the framework of the NAS-94 Project. These petrophysical measurements are reported in the present study as Part II of the NAS-94 interpretation report. Some of the susceptibility data were also presented in the NAS-94 Interpretation Report Part I, Aeromagnetic data (Olesen & Smethurst 1994). The petrophysical data were applied in the combined interpretation of aeromagnetic and gravity data which is reported as Part III of the NAS-94 interpretation report (Olesen & Smethurst 1995).

The purpose of the petrophysical study is: 1) to measure the magnetic susceptibility of sedimentary rocks from shallow IKU cores as a basis for interpretation of the contribution to magnetic anomalies from the sedimentary rock section, 2) to relate the measured values to the lithological section, and 3) to study in detail the mineralogy of selected samples to identify the minerals with high magnetic susceptibility.

A total of 1659 susceptibility measurements were carried out on core samples from IKU's shallow drillings off Helgeland 1982 and 1992 and off Nordland VI and VII and shallow seabed samples from a cruise in 1982 (a total of 14 wells and 7 shallow samples). The shallow cores cover a stratigraphic section which ranges in age from the Late Permian to Early Tertiary and Pleistocene. Stratigraphic and lithological background data are based on IKU shallow drilling reports (Bugge et al. 1993, Hansen et al. 1992, Mørk et al. 1983, Skarbø et al. 1983 and supplementary studies by Vigran et al. 1994 and references therein). Technical information for the cores are shown in Table 1, and a location map is shown in Fig. 1.

Regional magnetic and gravimetric anomalies within the project area are partly continuous from land onto the continental shelf. It is therefore important to know the density and magnetic properties of the rocks on land when interpreting potential field data covering offshore areas. Approximately 4100 rock samples from the nearby mainland, collected during geological mapping (Gustavson 1981, Gustavson & Gjelle 1991, Gustavson & Bugge in press., Solli et al. in press, Nordgulen 1993) and geophysical studies (Schlinger 1985, Midtun 1988, Skilbrei 1988, Olesen & Torsvik 1993), have been measured with respect to density, susceptibility and remanence. This adjacent onshore area is covered by five 1:250.000 scale bedrock maps (Bodø (Gustavson & Blystad in press), Mo i Rana (Gustavson & Gjelle 1991), Vega (Gustavson & Bugge in press), Mosjøen (Gustavson 1981) and Namsos (Solli et al. in press)) and consists mainly of three Precambrian basement terrains and two Caledonian Nappe complexes. The Lofoten-Vesterålen area, Høgtuva-Sjona tectonic windows and the Western Gneiss Region (Vestranden) make up the Precambrian basement terrains to the north, central and south, respectively. The Rødingsfjell and Helgeland Nappe Complexes are situated to the north and south, respectively, of the Høgtuva-Sjona tectonic windows. The Bindal batholith is situated within the Helgeland Nappe Complex. The sample locations of both hand specimens and offshore cores are shown on Map 1 (Enclosure) and Fig. 1. The THEMAP map production system (Kihle 1992) was used to produce the map.

Table 1 Technical data for IKU shallow cores

Core no	Latitude N	Longitude E	Water depth	Quat. over-burden	TD (below seabed)	Penetration in bedrock
Shallow Drilling off Helgeland 1982:						
IKU82-10	65°05′57.3″	10°31′38.9″	241 m	3.0 m	11.5 m	4.4 m
IKU82-8	65°05′59.4″	10°13′6.6″	258 m	1.0 m	24.5 m	23.5 m
IKU82-11	65°05′59.9″	10°32′08.0″	241 m	4.2 m	10.7 m	6.5 m
IKU82-8B	65°06′13.1″	10°09′43.6″	255 m	13.1 m	19.0 m	5.9 m
IKU82-4	65°38′30.1″	11°02′49.3″	298 m	5.1 m	10.5 m	5.4 m
IKU82-2	65°59′16.0″	11°23′41.6″	173 m	6.0 m	23.6 m	17.6 m
Shallow Drilling Helgeland 1992:						
6611/09-U-01	66°20′24.9″	11°48′46.5″	352 m	9.5 m	558.4 m	541.4 m
6611/09-U-02	66°20′49.8″	11°47′32.9″	355 m	7.5 m	280.5 m	270.8 m
Shallow Drilling Nordland VI and VII:						
6710/03-U-01	67°48′16.4″	10°57′25.3″	241 m	18.5 m	193.4 m	174.9 m
6710/03-U-02	67°53′34.7″	10°48′06.4″	193 m	21.2 m	198.5 m	177.3 m
6710/03-U-03	67°51′08.0″	10°59′57.6″	191 m	2.0 m	174.2 m	172.2 m
6711/04-U-01	67°44′12.2″	11°06′34.3″	232 m	10.0 m	171.3 m	161.3 m
6814/04-U-01	68°39′10.9″	14°11′08.9″	241 m	10.0 m	178.6 m	168.6 m
6814/04-U-02	68°39′45.8″	14°09′47.1″	233 m	7.0 m	191.3 m	184.3 m

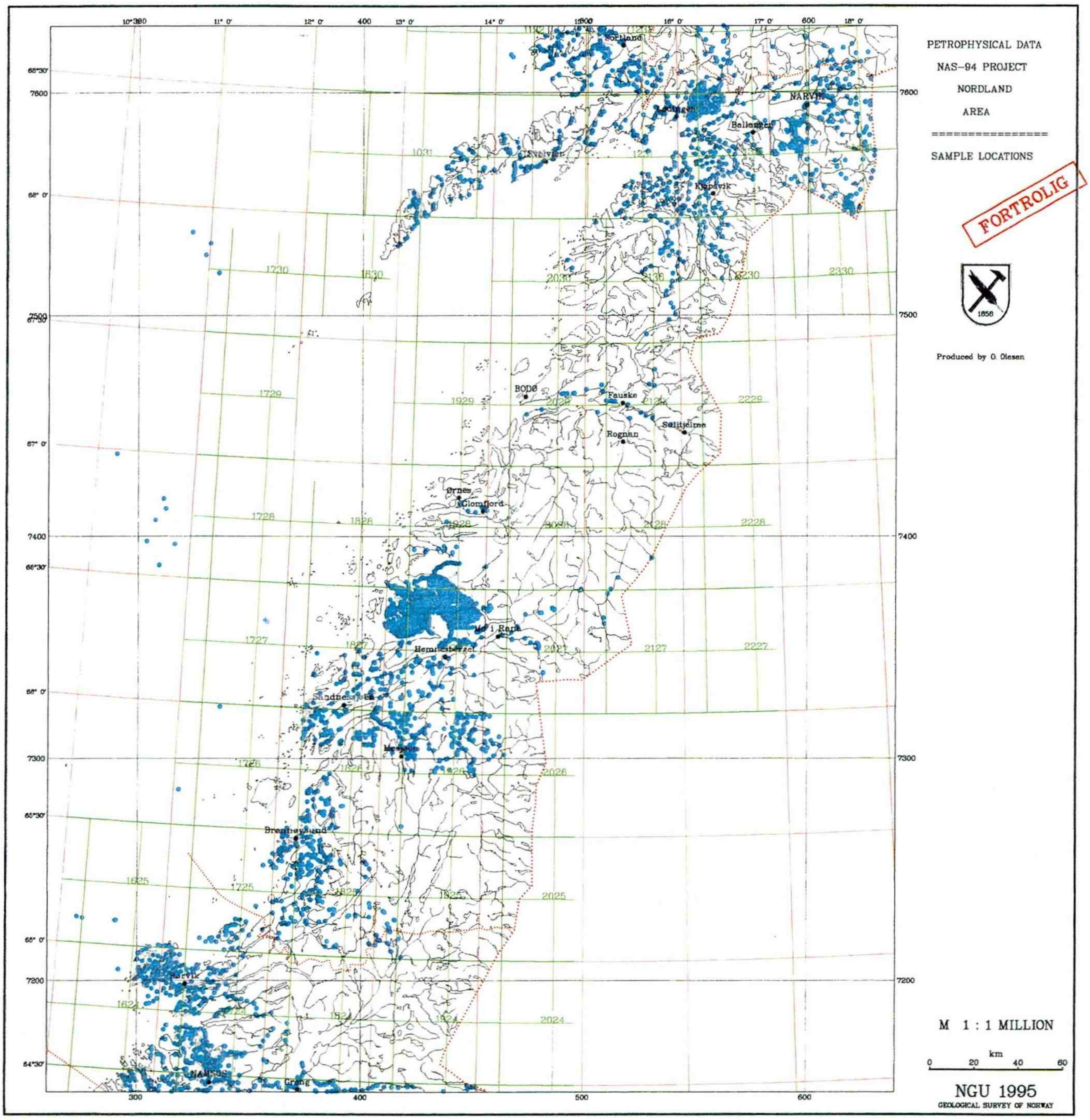


Fig. 1 *Sample locations, 14 offshore wells and 7 shallow seabed samples (IKU shallow drilling program) and 4100 onshore rock samples measured with respect to petrophysical properties (susceptibility of cores and susceptibility, remanence and density of bedrock samples from the coastal area of Nordland and Nord-Trøndelag).*

2. ANALYTICAL METHODS

The magnetic susceptibility measurements on the cores were carried out by using the Bartington MS2 Magnetic Susceptibility System and the JH-8 Susceptibility Meter from Geoinstruments Ky. The description of the two methods are given in Appendix A.

The MS2 Magnetic Susceptibility System is designed to measure volume susceptibility, of continuous sections of core. This instrument was used on the cores from well 6611/09-U02. The JH-8 Susceptibility Meter was used to measure the cores from the other wells.

The interval between measurements was approximately 1 m. The procedure was, however, modified during the measuring program. The measuring intervals are therefore larger in the initial measurements on cores from the Nordland VI and VII areas than in the Nordland IV area.

The measurement procedure of the petrophysical measurements on hand specimens is described by Torsvik & Olesen (1988). The sample locations of both hand specimens and offshore cores (IKU's shallow drilling) are shown on Map 1 (Enclosure) and Fig. 1. The data are stored in the national petrophysical database (Torsvik & Olesen 1992, Olesen et al. 1993) at NGU, and the results for the main rock units are shown in Appendix A and Table 2. Q-values, the ratios of remnant to induced magnetisation, are reported rather than NRM intensities. The Q-value was not calculated if the susceptibility is below 0.00150 SI units, since the accuracy of remanence measurements is relatively poor for samples with low induced magnetisation.

Compositional data for sandstones refer to petrographic thin section analyses and semiquantitative XRD bulk rock analyses in IKU shallow drilling reports and supplementary studies of selected samples. The analytical work included thin-section preparation, heavy liquid mineral-separation, XRD (semiquantitative) analyses of bulk rock samples, XRD analyses of heavy mineral separates, SEM analyses of thin-sections and SEM analyses of slabs with heavy mineral grains mounted on tape. The SEM analyses included both backscattered electron image analyses, EDS analyses and quantitative mineral chemical X-ray spectrometer analysis. The quantitative analyses were performed in order give a proper identification of haematite, magnetite, ilmenite and FeCr-minerals, using standard procedures at the IKU SEM lab.

3. DATA: SUSCEPTIBILITY, DENSITY AND Q-VALUES

The raw data on susceptibility measurements of the IKU shallow drillcores with reference to lithology (1659 measurements) are enclosed as Appendix B. Statistical data on these measurements in addition to density, susceptibility and Q-values on hand specimens from the Caledonides and Precambrian mainland of Nordland and North Trøndelag are shown in Table 2. A few IKU core samples with high magnetic susceptibility were also measured in the laboratory at NGU (Table 3). The variation in the susceptibility data is represented graphically in Figures 2-7 for different groupings of the data with respect to age and lithology. Variations in magnetic remanence and density for the onshore samples are shown in Figures 8 and 9.

Table 2 *Statistical data; density susceptibility and Q-value for main rock-units from drill-cores of IKU shallow drilling programme and density susceptibility and Q-value on hand specimens from the Caledonides and Precambrian on mainland Nordland and North-Trøndelag. Sample locations are shown in Fig. 1. The letters a, b and c denote total sample, low-magnetic fraction and high-magnetic fraction, respectively. units are in SI.*

ROCK UNIT/TYPE		No.	DENSITY				No.	Q-VALUE				No.	SUSCEPTIBILITY			
			min	max	mean	std		min	max	mean	std		min	max	mean	std
PLEISTOCENE												55	0.00006	0.00625	0.00107	0.00151
OLIGOCENE												8	0.00006	0.00081	0.00032	0.00027
PALAEOCENE												5	0.00013	0.00024	0.00019	0.00004
UPPER CRETACEOUS (incl. siderite)												25	0.00010	0.00256	0.00060	0.00071
LOWER CRETACEOUS (incl. siderite)												45	0.00006	0.00320	0.00092	0.00073
UPPER CRETACEOUS (excl. siderite)												14	0.00010	0.00027	0.00017	0.00005
LOWER CRETACEOUS (excl. siderite)												19	0.00019	0.00112	0.00034	0.00022
CRETACEOUS siderite												37	0.00006	0.00320	0.00129	0.00071
UPPER JURASSIC												37	0.00006	0.00159	0.00040	0.00049
MIDDLE JURASSIC												50	0.00001	0.00200	0.00010	0.00028
LOWER JURASSIC												73	0.00001	0.00300	0.00038	0.00049
LOWER TRIASSIC												863	0.00002	0.00143	0.00027	0.00016
UPPER PERMIAN												488	-0.00008	0.00085	0.00014	0.00013
PRECAMB. IN THE LOFOTEN AREA	a	508	2579	3553	2775	135	520	0.00	67.63	1.06	4.05	520	0.00002	4.94550	0.04961	0.22372
	b											142			0.00078	0.00070
	c											378			0.06796	0.26003
RØDINGSFJELL NAPPE COMPLEX	a	411	2311	3430	2798	142	217	0.00	175.11	3.34	12.91	411	0.00000	6.00000	0.02855	0.30248
	b											351			0.00046	0.00047
	c											60			0.19291	0.77143
HØGTUVA -SJONA TECTONIC WINDOWS	a	1141	2541	2976	2643	39	9	0.00	13.97	3.14	5.53	1141	0.00001	0.14727	0.00839	0.01160
	b											448			0.00082	0.00081
	c											693			0.01329	0.01265
HELGELAND NAPPE COMPLEX	a	506	2488	3273	2808	128	497	0.00	251.76	4.13	15.37	506	0.00000	0.67692	0.00461	0.03468
	b											465			0.00056	0.00057
	c											41			0.05058	0.11199
BINDALEN BATHOLITH	a	315	2521	3219	2733	137	315	0.00	161.89	3.85	13.60	315	0.00000	0.14690	0.00358	0.01329
	b											266			0.00048	0.00053
	c											49			0.02040	0.02828
WESTERN GNEISS REGION (Trøndelag)	a	419	2581	3300	2729	106	415	0.02	45.59	1.04	2.76	419	0.00001	0.45812	0.00912	0.02599
	b											241			0.00074	0.00072
	c											178			0.02045	0.03697

Table 3 Laboratory measurements on selected samples from the IKU cores.

Sample no. Rem mA/m.	Depth m	UTM zone	UTM coord 10 m	UTM-coord. 10 m	Lith. code	Rock type	Volume cm^3	Density kg/m^3	Susceptibility. SI	Rem. mA/m
6710/3U1-a	25.4	32	58249	752257	M23	cemented nodule	65.1	2654	0.00198	37.6
6710/3U1-b	34.0	32	58249	752257	M23	carb.cement.brown bed	64.8	2831	0.00220	63.6
6710/3U1-c	40.1	32	58249	752257	M23	light carb.cem. bed	93.8	2781	0.00154	33.7
6710/3U1-d	74.0	32	58249	752257	M23	carb.concretion	111.1	2786	0.00171	12.7
6710/3U1-e	161.5	32	58249	752257	M23	siderite cem.	40.6	2706	0.00167	34.8
6710/3U1-f	174.7	32	58249	752257	M26	caliche/mottled mudst.	119.7	2661	0.00096	
6711/4U1-a	119.7	32	58918	751522	M23	carb.cem. bed	62.8	2348	0.00166	35.6
6711/4U1-b	161.4	32	58918	751522	M23	cem.,lam. mudstone	88.9	3338	0.00331	
6814/4U2-1	22.5	33	70946	762575	S20	claystone	71.7	2248	0.00026	
6814/4U2-2	24.4	33	70946	762575	S20	claystone	67.9	2209	0.00027	
6814/4U2-3	29.8	33	70946	762575	M23	claystone w/siderite	150.8	3095	0.00191	9.4
6814/4U2-4	36.8	33	70946	762575	M23	claystone w/siderite	117.2	3322	0.00256	
6814/4U2-5	115.6	33	70946	762575	S21	silty mudstone	40.7	2712	0.00096	
6814/4U2-6	117.7	33	70946	762575	S21	silty mudstone	104.3	2329	0.00012	
6814/4U2-7	122.3	33	70946	762575	S21	silty mudstone	102.0	2510	0.00035	
6814/4U2-8	122.4	33	70946	762575	M23	mudstone w/siderite	69.9	2832	0.00127	
6814/4U2-9	127.6	33	70946	762575	S20	mudstone	61.1	2448	0.00033	
6814/4U2-10	127.8	33	70946	762575	M23	mudstone w/siderite	152.3	2921	0.00127	

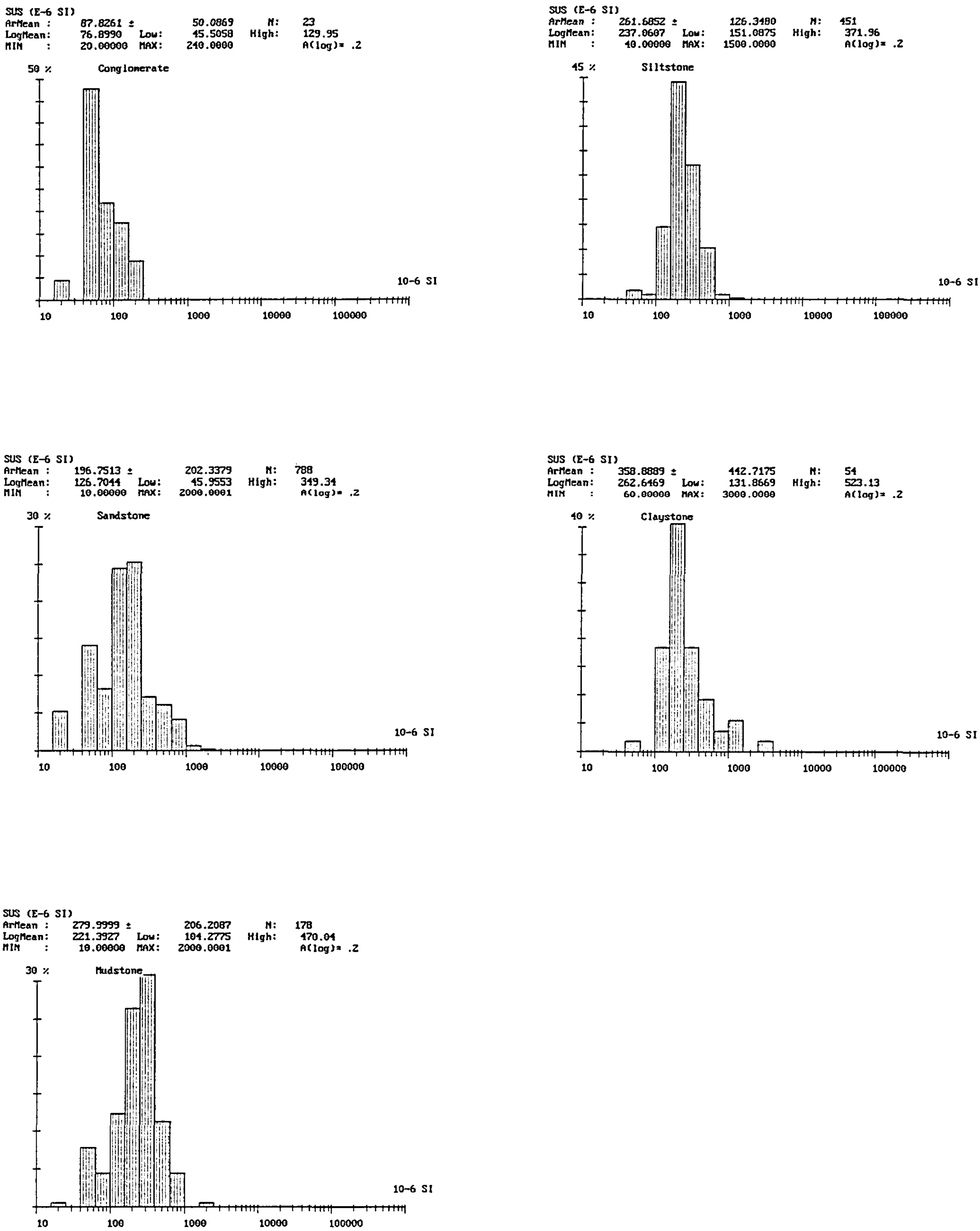


Fig. 2 *Susceptibility spectra of measurements on cores from IKU's shallow drilling programme. Lithological units: conglomerate, sandstone, mudstone, siltstone and claystone.*

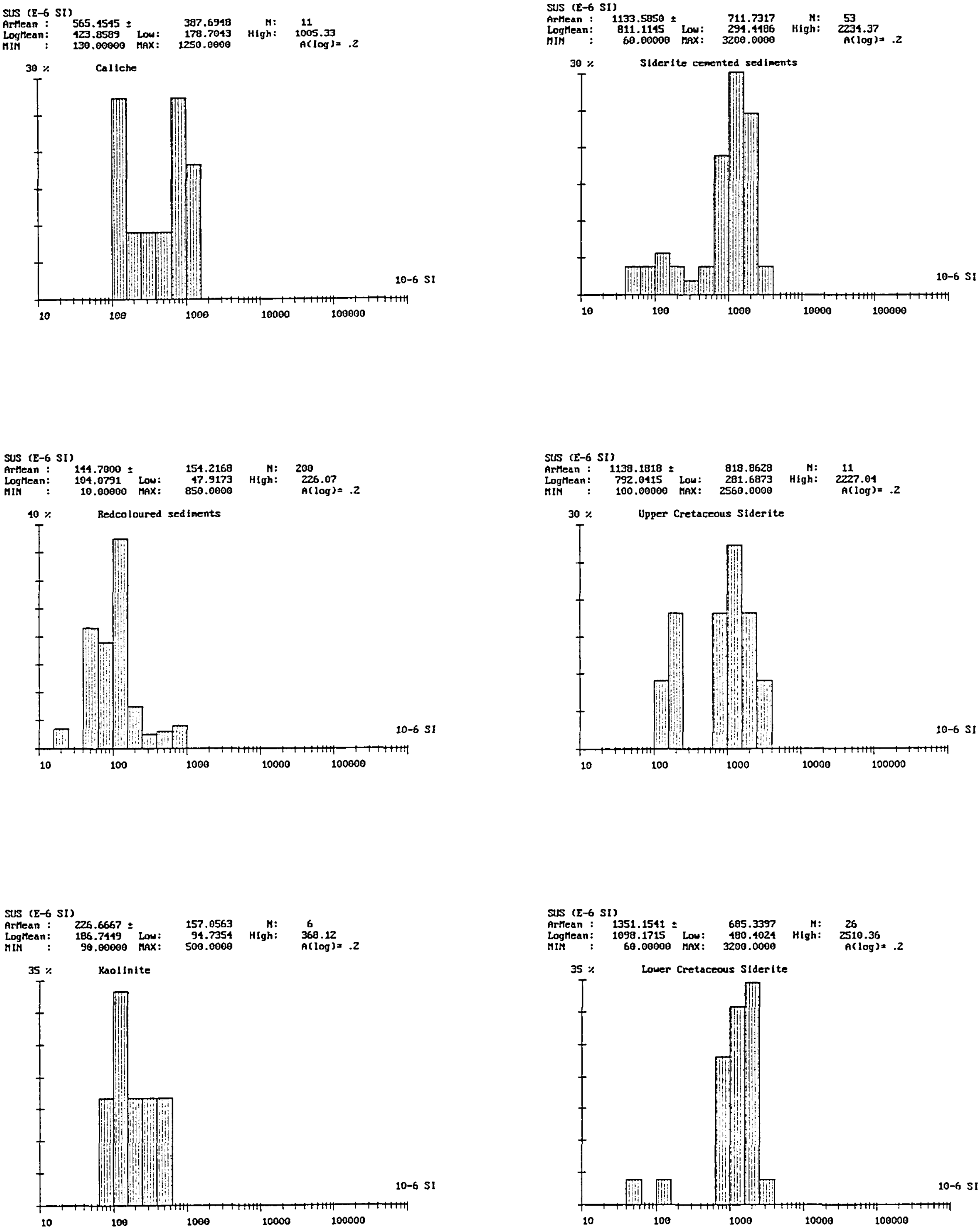
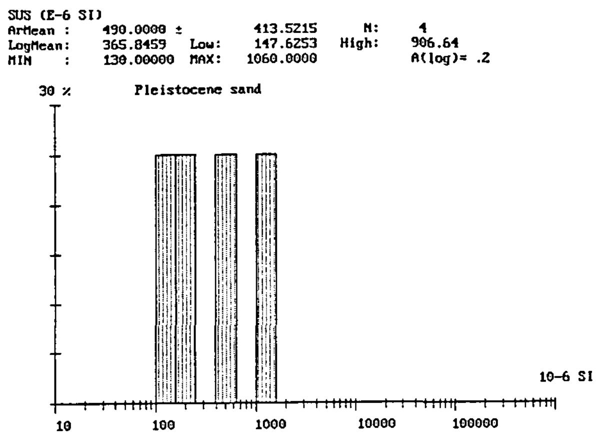
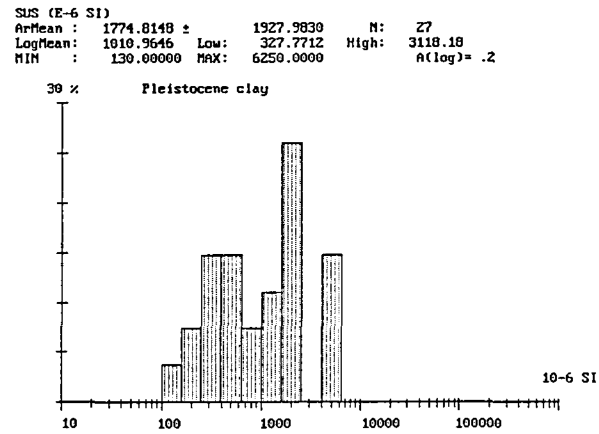
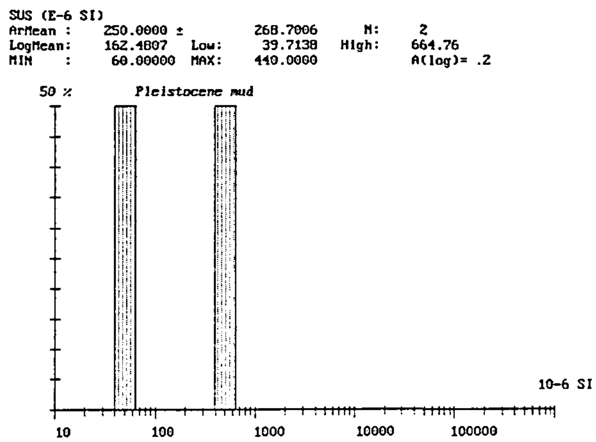
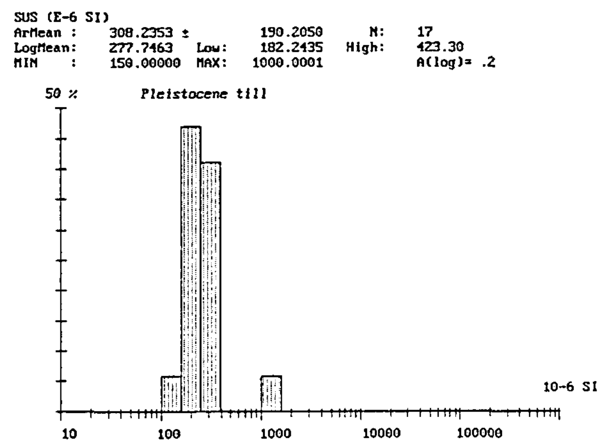


Fig. 3 *Susceptibility spectra of measurements on cores from IKU's shallow drilling programme. Lithological units: caliche, red-coloured sediments, kaolinite-weathering of basement, siderite-cemented sediments (mainly of Cretaceous age), Upper Cretaceous siderite, Lower Cretaceous siderite.*









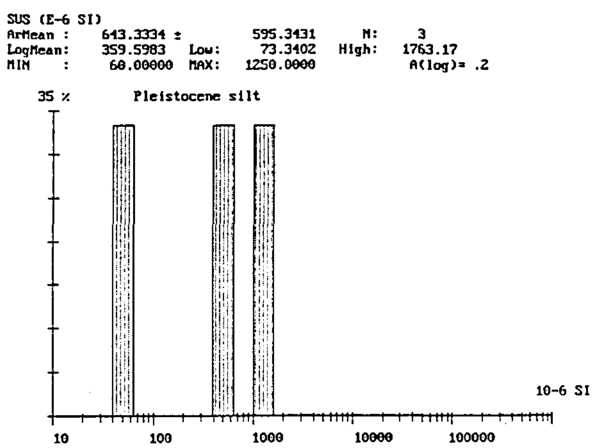


Fig. 4 *Susceptibility spectra of measurements on cores from IKU's shallow drilling programme. Lithological units within Pleistocene: sand, mud, silt, clay and till.*

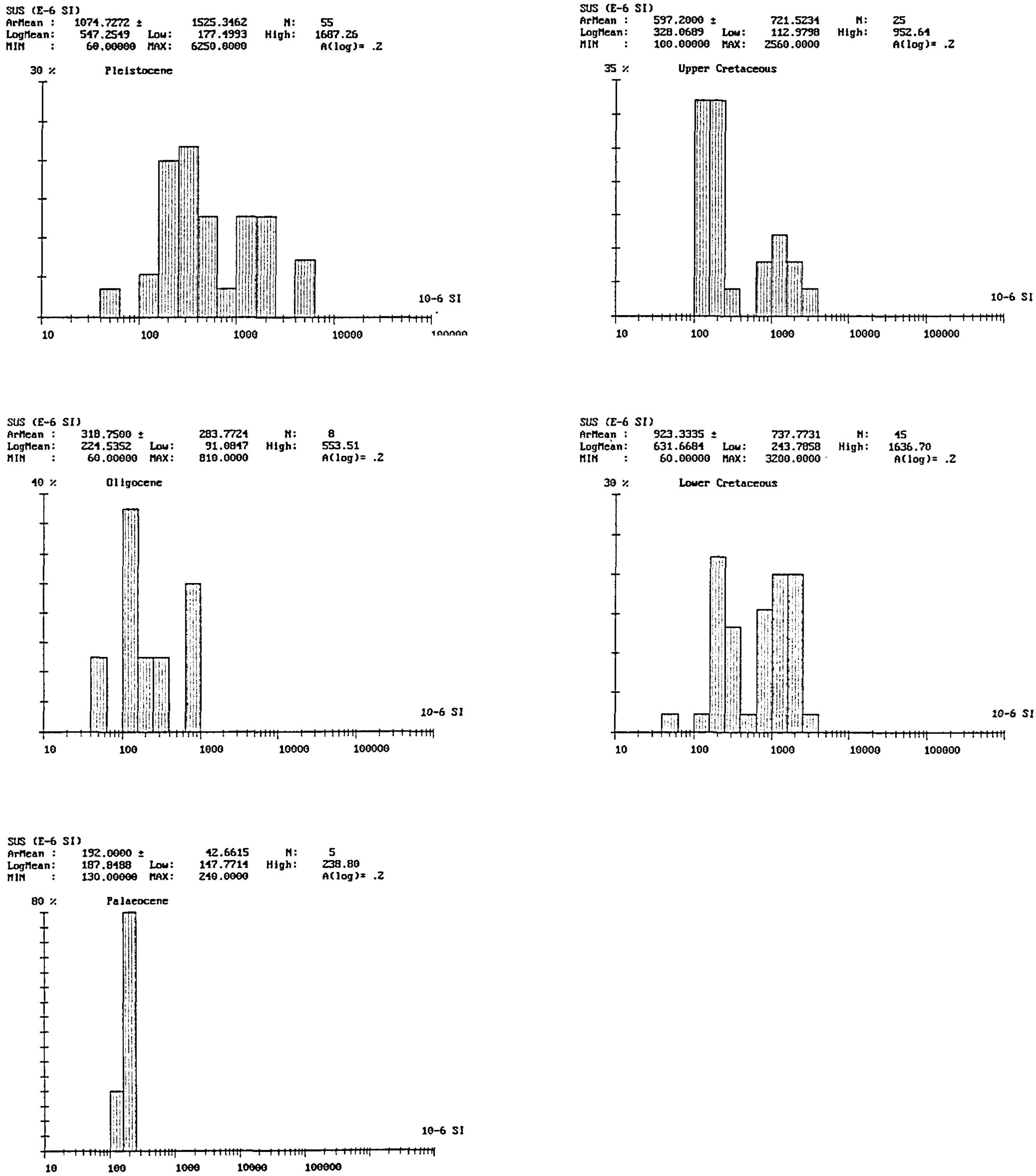


Fig. 5 *Susceptibility spectra of measurements on cores from IKU's shallow drilling programme. Stratigraphic units: Pleistocene, Oligocene, Palaeocene, Upper Cretaceous and Lower Cretaceous.*

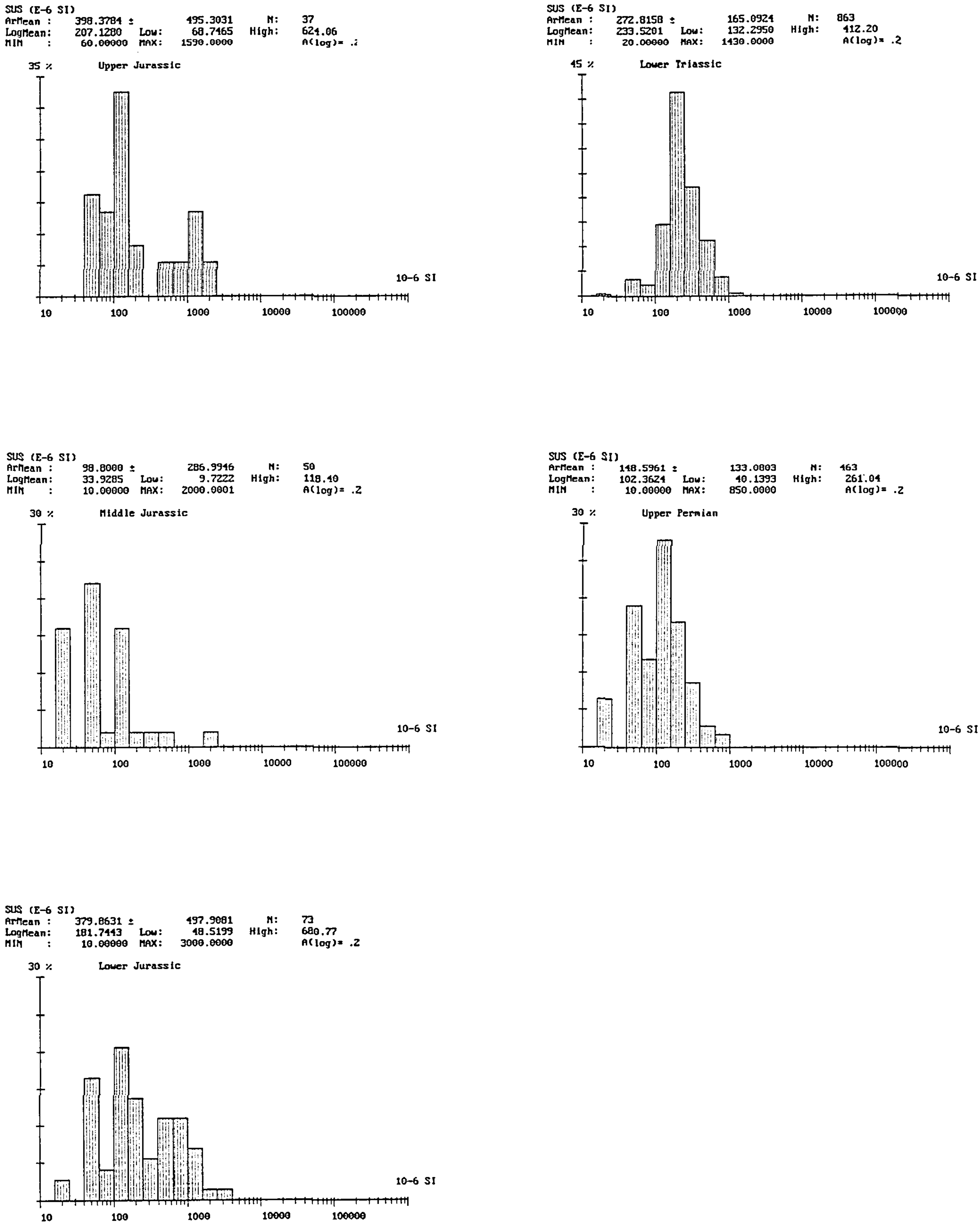


Fig. 6 *Susceptibility spectra of measurements on cores from IKU's shallow drilling programme. Stratigraphic units: Upper, Middle and Lower Jurassic, Lower Triassic and Upper Permian.*

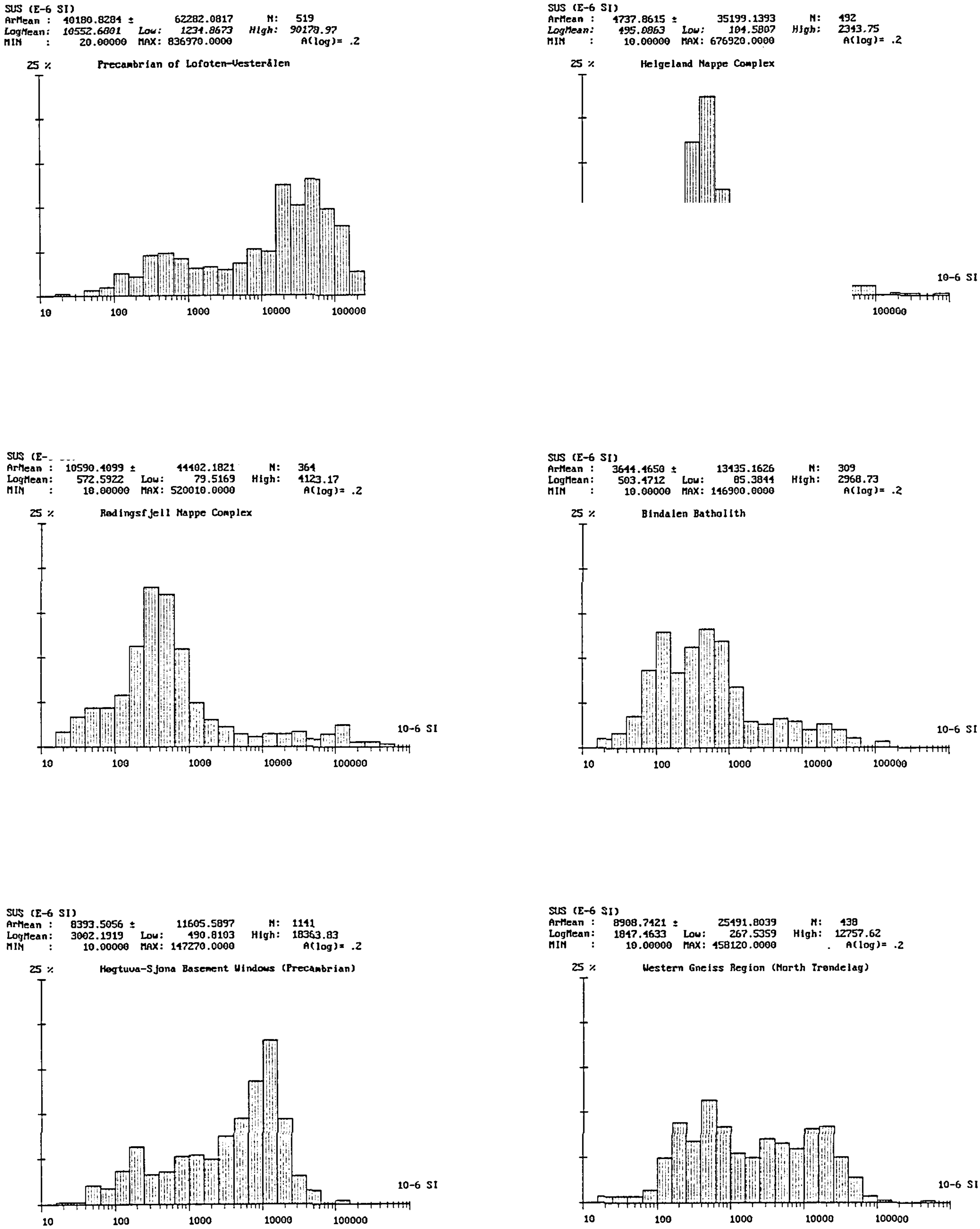


Fig. 7 *Susceptibility spectra of measurements on hand specimens from the Precambrian of Lofoten-Vesterålen, Rødingsfjell Nappe Complex, Høgtuva-Sjona Basement Windows, Helgeland Nappe Complex, Bindalen Batholith and Western Gneiss Region (North Trøndelag).*

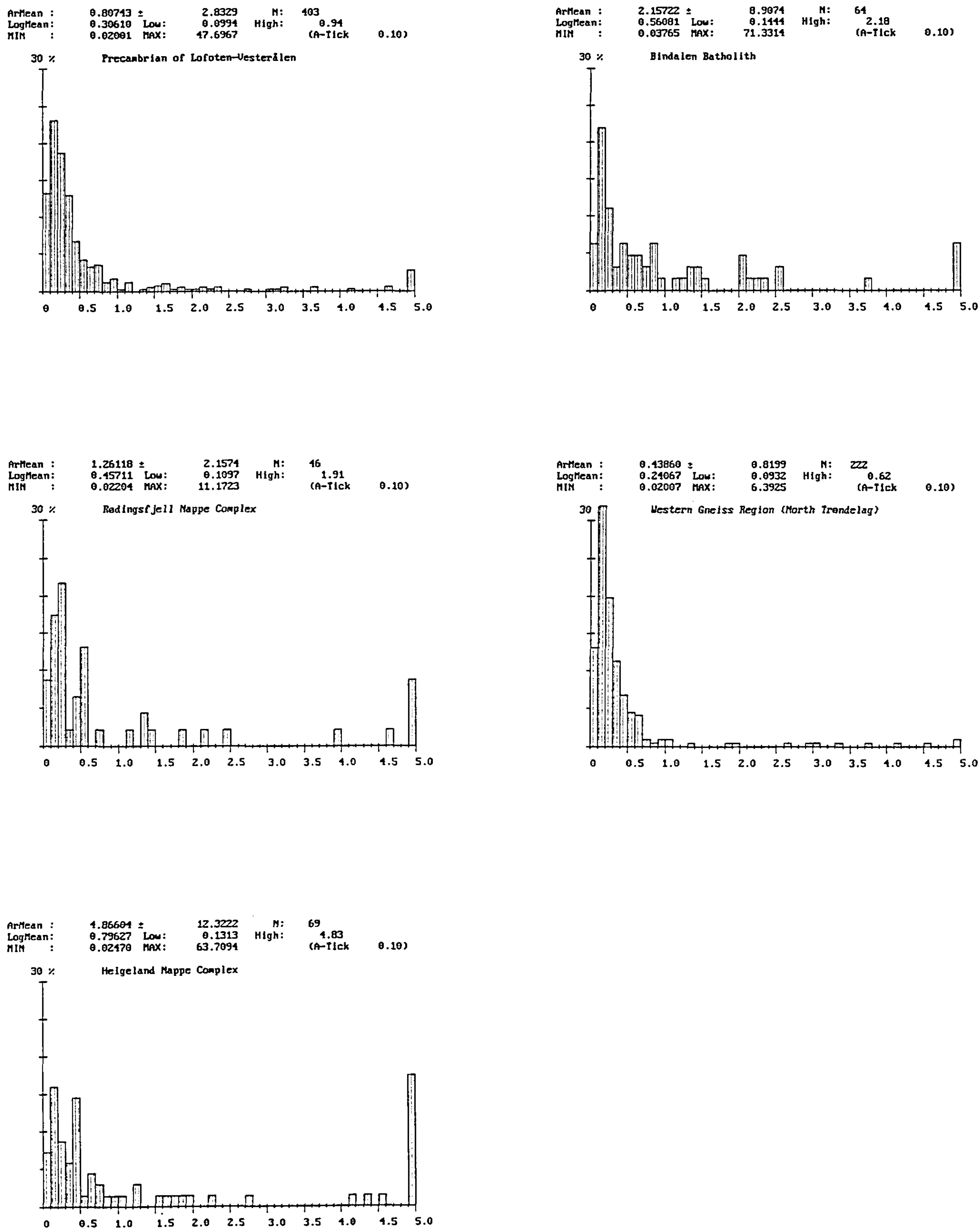


Fig. 8 *Q-value spectra of measurements on hand specimens from the Precambrian of Lofoten-Vesterålen, Rødingsfjell Nappe Complex, Helgeland Nappe Complex, Bindalen Batholith and Western Gneiss Region (North Trøndelag).*

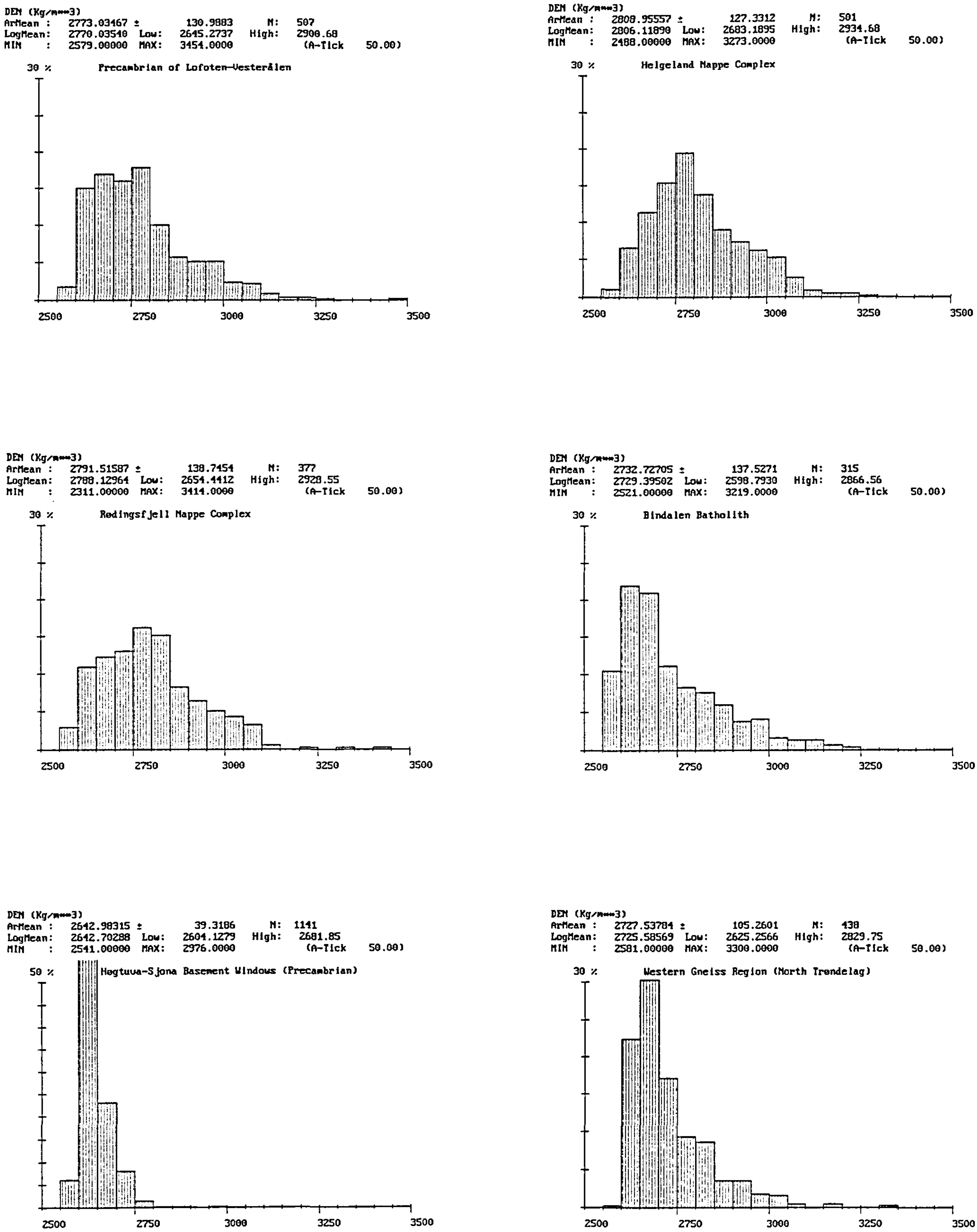


Fig. 9 *Density spectra of measurements on hand specimens from the Precambrian basement of Lofoten-Vesterålen, Rødingsfjell Nappe Complex, Høgtuva-Sjona basement windows, Helgeland Nappe Complex, Bindalen Batholith and Western Gneiss Region (North Trøndelag).*

4. MAGNETIC SUSCEPTIBILITY RESULTS FOR ONSHORE BASEMENT SAMPLES

Precambrian rocks (Lofoten area, Høgtuva-Sjona Tectonic Windows and Western Gneiss Region) are commonly highly magnetic and usually show wide and complex (multimodal) distributions in magnetic susceptibility (Fig. 7 and Table 2).

The high-amplitude magnetic anomalies in the Lofoten archipelago and the Svartisen area are caused by granulite-facies rocks and granites, respectively. The histograms (Fig. 8) and Table 2 also show that the Q-values are generally low, in the order of 0.5 or lower. Schlinger (1985) and Olesen et al. (1991) have also shown that the remanence of the rocks in the Lofoten-Vesterålen area is viscous and parallel to the present Earth's field, characteristics that make aeromagnetic interpretations in the area much simpler. The orthopyroxene isograd in the Vesterålen area coincides with the boundary between the high-magnetic and low-magnetic gneisses. West of this line the migmatites are in granulite-facies metamorphism whereas to the east they have amphibolitic metamorphic grade. Magnetite is formed during the prograde metamorphism. The understanding of this isograd is critical for the interpretation of the magnetic field on the mainland as well as on the continental shelf in the Lofoten-Vesterålen area (Schlinger 1985, Olesen et al. 1991). In this particular area the magnetic basement surface reflects the depth to the granulite-facies gneisses. We refer to these papers for a detailed discussion of the magnetic properties in the Lofoten - Vesterålen area. The granitic and migmatitic gneisses in the Western Gneiss Region (Vestranden) are also frequently magnetic. A detailed study of the magnetic properties of the rocks in the Roan area, located immediately to the south of the NAS-94 area, shows that magnetite is formed during the metamorphic transition from amphibolite- to granulite-facies metamorphism (Skilbrei et al. 1991), analogous to the Lofoten-Vesterålen area.

The average densities for Precambrian basement rocks in the Lofoten-Vesterålen area, the Høgtuva-Sjona windows and Western Gneiss Region (Vestranden) are 2770, 2640 and 2730 kg/m^3, respectively. The densities of the Rødingsfjell and Helgeland Nappe Complexes (Uppermost Allochthon within the Caledonian Orogen) are 2790 and 2810 kg/m^3, respectively. The samples from the Bindal Batholith which constitutes a significant portion of the Helgeland Nappe Complex, are excluded in the calculation of the density of this Nappe complex. The average density of the Bindal Batholith itself is 2730 kg/m^3. The calculated mean density of the basement within the NAS-94 area is 2750 kg/m^3.

AGE		HELGELAND		LOFOTEN	
		Lithology	Susceptibility: x 10^{-6}	Lithology	Susceptibility: x 10^{-6}
QUAT.		B-82 IKU82-8B	190-2500 150-380		
TERTIARY	U.				
TERTIARY	L.	IKU82-8,-1,8B	60-810 170-240		
CRETACEOUS	U.	IKU82-8		6711/04 -U-01 6814/04 -U-02	100-2560 60-3200
CRETACEOUS	L.	IKU82-7B		6710/03 -U-01	120-2250
JURASSIC	U.	IKU82-C IKU82-5		6814/04 -U-01	130-190
JURASSIC	M.	IKU82-3,4B IKU82-10,11	10-130	6710/03 -U-01, 6814/04 -U-01	10-130
JURASSIC	L.	IKU82-4	210-3000	6710/03 -U-02 6710/03 -U-01	10-1000 60-1250
TRIASSIC	U.	IKU82-4	50-1500		10-1000
TRIASSIC	M.				
TRIASSIC	L.	IKU82-2 6611/09 -U-02	380-690 110-1430 20-380	6710/03 -U-03	50-240
PERM.	U.	-U-01	-80-850		
P.C.				6710/03 -U-03	100-620

adm2300\ils\2300\232522\Fig.ai\06.04.95\ils

Fig. 10 *Overview of core age, lithology and magnetic susceptibility ranges for each stratigraphic unit, IKU shallow cores.*

5. IKU SHALLOW CORE DATA: LITHOLOGICAL CHARACTERISATION AND MAGNETIC SUSCEPTIBILITY RESULTS

Magnetic susceptibility ranges for the sedimentary rocks are generally wide, varying by one or two orders of magnitude (Figures 2-6). The susceptibility variation is described in more detail below for each of the stratigraphic units, and the susceptibility ranges are summarised in relation to lithology and stratigraphic age in Fig. 10. As a basis for interpretation and comparative studies, sedimentological and mineralogical background data from the IKU shallow drilling reports (see introduction) are also presented with the susceptibility data in this section. Sandstone classification refers to the modified Dott system (Pettijohn et al. 1972).

Shallow cores off Helgeland

Upper Permian of core 6611/09-U-01 (558.4-202.5 m)
The 350 m core section of Upper Permian sediments has been divided into three units. The lower unit has a matrix-supported conglomerate at the base. This unit is dominated by fine-grained, shallow marine sandstone overlain by siltstone. The overlying unit consists of anhydritic sandstones and siltstones that were deposited in a tidal flat sabkha environment. The uppermost unit of the Permian section comprises sandy turbidites and siltstones which may have been deposited on a proximal slope/basin margin (Bugge et al. 1993). The sandstones are subarkosic in composition and indicate a provenance of metamorphic source-rocks. The content of feldspar, mica and gneiss fragments is higher in Unit C, above the sabkha unit. With respect to Fe-oxides, haematite is documented in the lower unit, explaining the reddish colour of the sandstones. Pyrite appears in the upper unit. Other iron-bearing minerals that are reported are micas, chlorite and occasional garnet. Calcite is the main carbonate cement present, but traces of dolomite are reported in Unit C.

The magnetic susceptibility values (489 measurements) are generally low with total ranges for sandstones, siltstones and mudstones between -80 and 850×10^{-6} SI. Red coloured sandstone has the highest value. The gypsum samples show values of -20×10^{-6} - 0 SI, explaining the very low values in the middle unit (evaporite). A small increase in susceptibility is indicated in the mudstones in the upper part of the Permian section (Unit C).

Lower Triassic of cores 6611/09-U-01 (202.5 - 9.5 m) and -U-02 (280.5-10 m)
The cores penetrated respectively 191 m and 270 m of Lower Triassic sediments which have been correlated to the same unit (Unit D) with a stratigraphic overlap of approximately 60 m. The unit consists in the lower part of sandy turbidites and siltstones whereas the upper part is sandstone-dominated. The entire unit may represent a clastic shelf setting. The sandstone composition is feldspar rich and mineralogically immature, and the mineralogy is similar to that of the upper unit (Unit C) of the Permian section described above. The Fe-bearing phases reported (Bugge et al. 1993) are micas, chlorite and pyrite.

The magnetic susceptibility values of the Lower Triassic sediments of core 6611/09-U-01 have a total range of 20-380x10^{-6} SI with similar ranges for sandstones and siltstones. The range for core 6611/09-U-02 is 110-1430x10^{-6} SI, which indicates that the magnetic susceptibility is generally low, but slightly higher in 6611/09-U-02. Core U-02 has a range of 90-1430x10^{-6} SI for sandstones and 80-650x10^{-6} SI in the siltstones. The values above 1000x10^{-6} SI are only found in the upper 30 metres of the core, where mean susceptibility value is 580x10^{-6} SI (90 measurements).

Lower Triassic core IKU82-2 (23.6-6.0 m)

The core consists of laminated siltstone and mudstone with thin sandstone ripple laminae, deposited in a shallow marine environment. The compositions of both the fine clastics and the sandy laminae are rich in feldspar and mica. The sandstones are classified as arkosic arenite. Fe-bearing minerals include micas, chlorite, and accessory amounts of garnet, epidote and tourmaline. Pyrite and siderite cement are present in a few samples.

The magnetic susceptibility values (19 measurements) are in the range 380-690x10^{-6} SI with similar values for mudstone and siltstone/sandstone.

Upper Triassic of core IKU82-4 (10.5-7 m)

The cored section consists of alternating matrix-rich conglomeratic sandstone and sandstone overlain by more silty sediments at the top of the interval. Mottled intervals with root beds indicate a continental environment for the deposits. The sandstones are lithic graywackes with a dominance of quartz in the coarse fraction, and with a kaolinite-rich matrix. Fe-bearing detrital grains such as Fe-Ti oxides, staurolite, garnet and tourmaline are present in accessory amounts. Haematite has formed in response to weathering and/or early diagenesis, and was largely replaced by siderite and pyrite spots during a later diagenetic stage.

The magnetic susceptibility values are in the range of 50-1500x10^{-6} SI (13 measurements) with highest values in the mottled silty sandstones.

Lower Jurassic of core IKU82-4 (7-5.2 m)

The Lower Jurassic upper part of the core consists of kaolinitic mudstones with a shallow marine contribution. Siderite has a similar occurrence as in the upper part of the Upper Triassic interval of the core.

The magnetic susceptibility values are in the range 210-3000x10^{-6} SI (4 measurements). The highest values were found in a red claystone bed and in a silty mudstone bed.

Lower - Middle Jurassic cores IKU82-10 (11.5-3 m) and -11 (10.7-2.0 m)

These cores consist of light grey coloured, rapidly deposited shallow marine sandstones. The sandstone section of core IKU82-10 fines upward to silty mudstone in the upper part. The sandstones are classified as lithic arenites (core -10) and lithic graywackes (core -11), and the coarse fraction is rich in quartz and quartzite fragments. Fe-minerals include very minor amounts of detrital micas and chlorite (core -11) and occasionally diagenetic siderite cement which has been observed by XRD analysis.

The magnetic susceptibility values of the sandstones are generally very low in both cores with ranges of 10-130x10^{-6} SI in core IKU82-10 and 20-40x10^{-6} SI in core IKU82-11. An anomalously higher value of 2000x10^{-6} SI was measured for a rusty conglomerate at 9.0 m in core IKU82-10. Part of the core was disturbed during drilling, so the latter sample may be contaminated by Quaternary material.

Upper Palaeocene of core IKU 82-8B (19-13.1 m)
The six metre thick core interval of Upper Palaeocene sediments consists of well-sorted glauconite sand and silty, micaceous mudstone. The sandstone contains abundant ooides of Fe-bearing minerals (glauconite and goethite). Fe-bearing minerals in the mudstones are micas, chlorite and small amounts of pyrite and dolomite.

The magnetic susceptibility of the mudstone is in the range of 170-240x10^{-6} SI (four measurements).

Pleistocene of core IKU82-8B (13.1-4 m)
The Pleistocene section consists of glacial till comprised of a dark grey brownish, sandy clay with abundant sediment clasts of older formations. The claystone compositions are similar to the underlying Upper Palaeocene clays, except that calcite cement is present in stead of dolomite. Fe-bearing phases are micas and chlorite.

The magnetic susceptibility of the till is in the range of 150-380x10^{-6} SI (16 measurements).

Shallow cores off Lofoten (Nordland VI and VII)

Precambrian basement of cores 6710/03-U-03 (174.2-167.4 m) and 6814/04-U-01 (178.6-170.5 m)

Basement of core 6710/03-U-03 consists of granitic augengneiss with finer-grained granitic interlayers. This gneiss may be an analogue to the amphibolite facies gneisses of the present Lofoten Archipelago. Fractures in the upper part are cemented by calcite. The basement sample at 6814/04-U-01 consists of strongly kaolinitic weathered gneiss. At both locations the gneisses are overlain by conglomeratic debris flow deposits.

The magnetic susceptibility of the cored basement gneiss at 6710/03-U-03 is in the range 100-620x10^{-6} (6 measurements). The susceptibility of the weathered gneiss and the overlying unit at 6814/04-U-01 is similar (90-500x10^{-6} SI) (5 measurements of gneiss and 7 measurements of overlying mudstone). These values are comparable with the non-magnetic amphibolite facies gneisses from the Lofoten-Vesterålen area.

Lower Triassic of core 6710/03-U-03 (167.4-2.0 m)
A thick Lower Triassic, subarial debris flow conglomerate lies directly above the Precambrian augengneiss section and shows evidence for a local provenance similar to the underlying gneiss. The section above 138 m consists of alternating sandstone, mudstone and conglomerate beds. The sediment composition is rich in feldspar and mica. Fe-minerals include both haematite, which may reflect oxidation in response to

weathering, and diagenetic pyrite. Siderite is occasionally present in trace amounts, and chlorite is also present.

The magnetic susceptibility is in the range of 50-240x10^{-6} SI (16 measurements) which is lower than for the underlying granitic basement.

Upper Triassic of core 6710/03-U-01 (193.4-173.6 m)
This unit consists of alternating channel sandstones and floodplane mudstones and may be analogous to the Triassic "red beds" of Dalland et al. (1988). The sandstone compositions are moderately mature. Fe-minerals include micas and pyrite and trace amounts of siderite, 7 Å chlorite, and goethite have been identified in the mudstones.

The magnetic susceptibility is in the range 10-1000x10^{-6} SI (20 measurements) with the highest values in mottled mudstones and the very low values in light-coloured sandstone beds.

Upper Triassic - Lower Jurassic core section of 6710/03-U-01 (173.6-148.7 m)
The unit consists of delta plain sandstones and mudstones and includes root zones and coal beds. The detrital composition is similar to the underlying unit, but parts of this unit were more strongly influenced by weathering and diagenesis. Iron minerals present are mica, chlorite and siderite. Siderite has formed by extensive diagenetic replacement of detrital grains in some beds.

The magnetic susceptibility is in the range 60-1250x10^{-6} SI. The highest value was measured in a caliche bed with siderite cement at 162.0 and 162.4 m levels.

Lower Jurassic core 6710/03-U-02 (198.5-21.2 m)
The core is dominated by sandstone with a few intervals of mudstone deposited in a delta plain environment. The sandstones are mineralogically moderately mature with subarkose to sublitharenite composition and display a variegated heavy mineral composition. Fe-bearing minerals present are biotite, chlorite, Fe-Ti oxide, garnet, staurolite in very minor amounts and variable content of early diagenetic, pore-lining siderite cement.

The magnetic susceptibility is 10-1000x10^{-6} SI (21 measurements) and the total range is represented by the sandstone samples, with the higher susceptibility values in yellow or laminated sandstone and carbonate concretions.

Middle Jurassic of cores 6710/03-U-01 (148.7-132.4 m) and 6814/04-U-01 (163.4-49.2 m)
The Middle Jurassic sandstone intervals are closely related with respect to age and composition. The shallow marine sandstones are quartz rich and have fairly mature sublitharenite compositions. Fe-bearing minerals include mica which is concentrated in distinct laminae, and occasional grains of garnet, tourmaline and opaques. Small siderite rhombs have grown very locally within biotite grains. Chlorite and pyrite are present in the mudstones.

The magnetic susceptibility is very low: 10-130x10^{-6} SI (29 measurements in core 6710/03-U-01 and 1 measurement in core 6814/04-U-01).

Upper Jurassic of core 6814/04-U-01 (49.2-29.8 m)
This core interval consists of micaceous, muddy siltstone deposited on a shallow marine shelf. Fe-bearing minerals present are mica/illite, chlorite, pyrite and occasional siderite.

The magnetic susceptibility is low in all samples: 130-190x10^{-6} SI (11 measurements).

Lower Cretaceous of core 6710/03-U-01 (132.4-18.5 m)
This core interval comprises a thick section of dark claystones deposited in an offshore environment. Fe-bearing minerals in the claystones are mica/illite, chlorite, 7Å chlorite, and occasionally haematite, goethite, siderite and pyrite.

The magnetic susceptibility ranges between 120-2250x10^{-6} SI. The higher values are recorded in carbonate concretions and carbonate cemented beds (690-2250x10^{-6} SI) whereas non-cemented "background" claystone commonly has values of 190-310x10^{-6} SI.

Upper Cretaceous core 6814/04-U-02 (191.3-7 m)
The 184 m-thick upper Cretaceous section comprises dark laminated pyritic claystones, calcite cemented siltstones with abundant limestone nodules and beds, and dark mudstone with thin carbonate beds. Fe-bearing minerals include mica/illite, chlorite, pyrite and siderite. The carbonate beds are micritic and include ankerite, siderite and calcite. One sample at 150 m is rich in marcasite.

The magnetic susceptibility of the core has a total range of 60-3200x10^{-6} SI (29 measurements). The very low values are, however, restricted to a calcite cemented interval of the middle part with values in the range (60-150x10^{-6} SI). Carbonate cemented beds or nodules of yellowish colour (siderite) have distinctly higher values in the range 1000-3200x10^{-6} SI (11 measurements), whereas common claystone is in the range of 150-440x10^{-6} SI.

Upper Cretaceous of core 6711/04-U-01 (171.3-10 m)
The core consists of marine silty claystones in the lower part and sandy siltstones to very fine-grained sandstones in the upper part. The sandstones are glauconitic and the diagenetic cements include siderite rhombs. Other Fe-bearing minerals include mica, chlorite, pyrite, garnet and Fe-Ti oxide. Siderite and pyrite cements are also present in the silty claystones.

The magnetic susceptibility is in the range 100-2560x10^{-6} SI with the highest values in brown or yellow (siderite) carbonate-cemented beds. Calcite-cemented beds and non-cemented claystone have low values (100-270x10^{-6} SI).

Shallow sampling 1982 (B82)

Quaternary seabed samples

Quaternary seabed samples from stations B82-180, -184, 185, -186, -189, -190 and -192 have been measured for magnetic susceptibility. The samples include mainly clay and some sandstones with a total susceptibility range of 190-2500x10^{-6} SI (26 in total). Glaciomarine clay of station B82-180 has consistently high values: 1060-2500x10^{-6} SI.

Samples of inferred Oligocene age have been measured at B82-190, -189, -186 185 and -184 (8 in total). The magnetic susceptibility ranges from 60x10^{-6} SI (sand at B82-190) to 810x10^{-6} SI (sand at B82-186).

6. Mineral analyses of selected samples

A few samples with relatively high magnetic susceptibility values were selected for mineral identification and for interpretation of the source of the magnetism. Magnetic properties of various minerals of sedimentary rocks and some minerals which may contribute to the magnetisation are shown in Table 4. Greigite-containing sediments have also been reported to be an important source of aeromagnetic anomalies in sedimentary basins. Greigite-containing Cretaceous sediment from the North Slope Basin, Alaska have similar susceptibility to the siderite cemented sediments in our study, i.e. 200-5000x10^{-6} SI (Reynolds et al. 1994).

Table 4 Magnetic properties of some selected minerals (from Telford et al. 1976, Thompson & Oldfield 1986).

Mineral	Susceptibility x 10^{-6} SI		Mineral	Susceptibility x 10^{-6} SI	
	Range	Average		Range	Average
Quartz	-	-10	**Limonite**	-	2,700
Rock salt	-	-10	**Goethite**	-	2,800
Anhydrite, gypsum	-	-10	**Haematite**	500 - 37,000	7,000
Calcite	-10 - -7	-	**Chromite**	3,000 - 120,000	7,500
Coal	-	20	**Pyrrhotite**	1,200 - 6,000,000	1,600,000
Clays	-	200	**Ilmenite**	300,000 - 3,700,000	1,900,000
Siderite	1,200 - 3,900	-	**Magnetite**	1,200,000 - 20,000,000	5,000,000
Pyrite	50 - 5,200	1,600			

Core 6611/09-U-02, Lower Triassic sandstones

Two sandstone samples were selected for analyses. The sandstones have magnetic susceptibility values of 1220x10^{-6} (12.6 m) and 1430x10^{-6} SI (21.9 m).

The sandstones were studied by SEM backscattered electron image analysis in combination with energy dispersive system analysis (EDS) and quantitative mineral chemical analysis on polished thin sections.

The sandstones are mineralogically immature and have a varied detrital heavy mineral composition with biotite, garnet, chlorite, zircon, rutile, sphene, Cr-spinel, possible ferrit chromite, monazite, apatite, Fe-Ti-oxide, Fe-oxide and pyrite. Minerals which may contribute to moderately high magnetic susceptibility value were analysed more in detail (see below):

Fe-oxide: magnetite, hydrated Fe-oxides

Magnetite has been identified on the basis of the total iron content of the quantitative analyses of Fe-oxide grains (Table 5, FeO^{tot}=95%). Haematite (ferric iron oxide) has a lower total Fe content (FeO * 0.8998) than magnetite which includes both ferrous and ferric iron oxide.

Fe-Cr oxides: Cr-spinel

Cr-oxides are present in both samples and a few grains have been analysed by SEM (Table 5 and Fig. 11). The compositions are Cr-Al-Fe-Mg and Cr-Fe mixtures. The high Fe/Cr ratio of the latter indicates that the composition may be ferritechromite rather than chromite, whereas the former are Cr-spinels; both minerals are chemically heterogeneous. Complex relations are illustrated by "ferrit" 12.1 (Fig. 11b) which was overgrown by magnetite at a later stage in the crystallisation history.

Table 5 *Electron microprobe analyses of Cr-Fe and Fe-oxides and calculated cation proportions in sandstone from core 6611/09-U-02. All Fe is represented as FeO.*

	21.95m (18)	12.6m (12.1)	12.6m (12.2)	21.95m (10b)	21.95m (10a)
Cr_2O_3	44.18	42.03	0.43	40.66	29.38
Al_2O_3	20.38	18.17	0.07	0.39	0.04
FeO^t	24.24	29.90	92.92	49.34	61.62
MnO	0.33	0.20	0.20	2.00	2.00
MgO	10.91	8.33	0.49	2.68	2.28
TiO_2	0.09	0.41	0.00	0.03	0.09
Sum	100.16	99.04	94.35	95.10	95.41
Cr	1.08	1.08	0.00	1.20	0.87
Al	0.75	0.69	0.00	0.03	0.00
Fe^t	0.63	0.81	2.94	1.56	1.92
Mn	0.00	0.00	0.00	0.06	0.06
Mg	0.51	0.39	0.03	0.15	0.12
Sum	2.97	2.97	2.97	3.00	2.97

Fe-Ti oxides: Ti-haematite - ilmenite

The Ti-Fe oxides were analysed in order to examine presence of magnetic minerals/intergrowths/exsolution lamellae. The Fe-Ti oxides occur as fairly well preserved grains with exsolution lamellae (Fig. 12) and as strongly altered and variably dissolved grains (Fig. 13). The quantitative analyses indicate either that both Fe-dominated and Ti-dominated compositions are present. The Ti-dominated compositions were found in altered rims, and may reflect secondary alteration to leucocene. None of the grains have ilmenite compositions. In the best preserved grains, the host grains and lamellae are both Fe-dominated, but with a Ti-increase in the exsolution lamellae (Table 6). As the lamellae are very thin, the lamellae analyses may be mixtures with the host. The texture and composition indicate Ti-haematite composition, and the lamellae may be ilmenite.

Table 6 *Electron microprobe analyses of Fe-Ti oxides in sandstone from core 6611/09-U-02. All Fe is represented as FeO.*

	21.95m (7.1) host	21.95m (7.2) lamellae	12.6m (7.1) host	12.6m (7.2) lamellae	21.95m (1)	21.95m (8)	12.6m (8) rim	21.95m (4) altered
Cr_2O_3	0.07	0.00	0.03	0.05	0.00	0.00	0.06	0.06
Al_2O_3	0.08	0.04	0.08	0.10	0.11	0.04	0.08	0.10
FeO^t	79.75	70.23	81.16	57.05	67.73	27.00	21.18	79.68
MnO	0.07	0.51	0.12	0.00	1.03	0.27	0.09	0.09
MgO	0.00	0.09	0.08	0.00	0.00	0.08	0.10	0.00
TiO_2	11.85	20.90	9.85	38.30	22.28	60.53	65.38	10.66
Sum	91.75	91.77	91.38	95.55	91.19	87.98	87.19	90.58

Table 7 *Semiquantitative XRD bulk rock analyses of claystones with moderately high magnetic susceptibility.*

Sample	Qtz	Kfs	Plg	Chl	Kao	Mic	ML	Sm	Cc	Dol	Sid	Pyr	Gy	Am
Quaternary **B82-180/2 2 m**	26	18	25	2.8	1.5	22	0.1	0.5	0.0	0.5	0.0	0.5	0.5	2.2
E. Jurassic **IKU82-4 6.0 m**	0.4	0.3	0.5	0.6	85	5.8	1.4	0.5	0.0	0.0	5.9	0.0	0.0	0.0
L. Triassic **IKU82-4 8.05 m**	0.2	1.6	0.0	1.5	60	0.0	2.0	0.0	0.0	0.0	31.4	3.5	0.0	0.0
E. Triassic **6611/09 -U-02 217.76 m**	17	1.2	13	8.1	6.5	39	2.4	1.1	8.9	1.3	0.0	1.1	0.3	0.0

Abbreviations: Qtz = quartz, Kfs = K-feldspar, Plg = plagioclase, Chl = chlorite, Kao = kaolinite, Mic/ill = mica/illite, Sm = smectite, Cc = calcite, Dol/ank = dolomite/ankerite, Sid = siderite, Pyr = pyrite, Gy = gypsum, Am = amphibole.

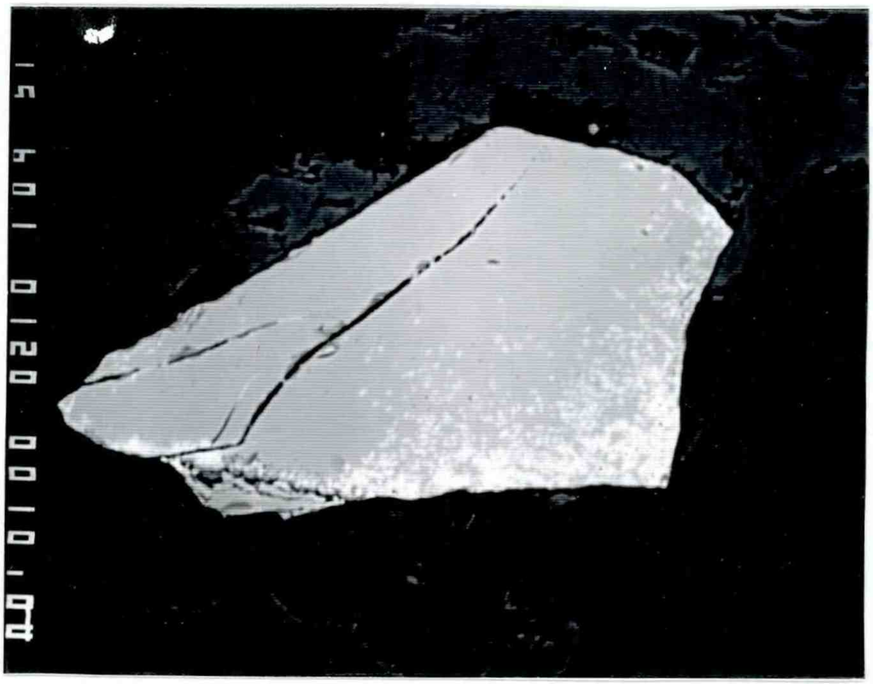


Fig. 11a *SEM backscattered electron image (BEI) of detrital chrome spinel in sandstone, core 6611/09-U-02, 21.95 m, grain 6. Scale bar in µm.*

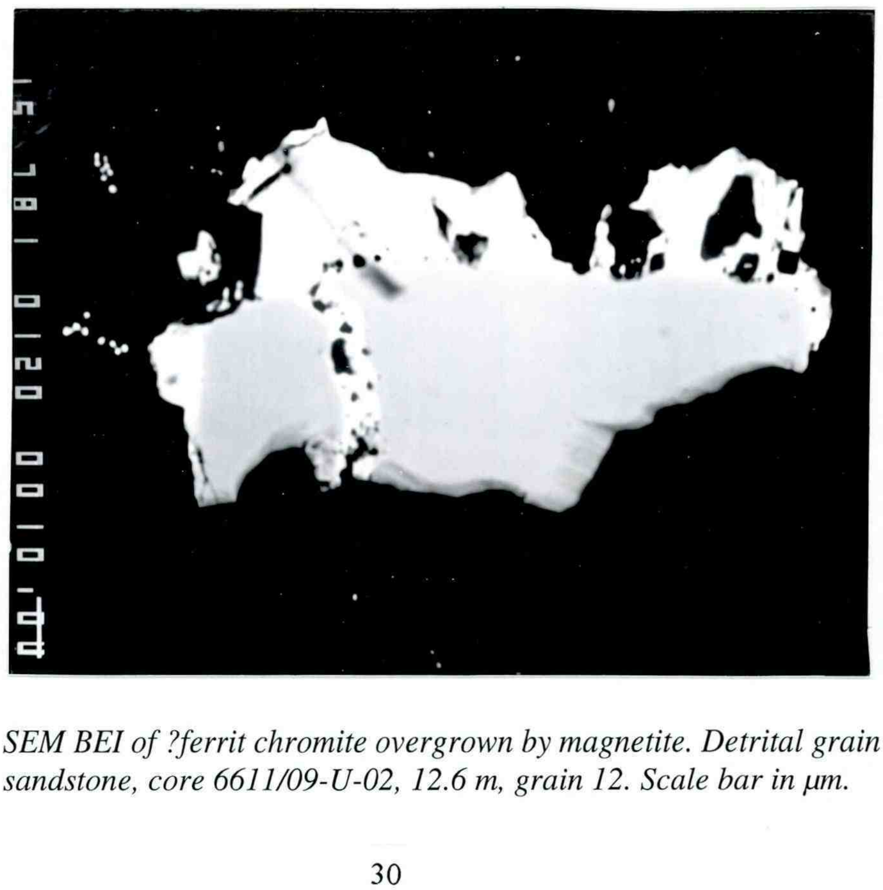


Fig. 11b *SEM BEI of ?ferrit chromite overgrown by magnetite. Detrital grain in sandstone, core 6611/09-U-02, 12.6 m, grain 12. Scale bar in µm.*

Fig. 12a *SEM BEI of detrital Fe-Ti oxide with exsolution lamellae in sandstone, core 6611/09-U-02, 21.95 m, grain 7. The composition resembles titanohaematite with Ti-rich exsolution lamellae. Note post depositional dissolution texture. Scale bar in μm.*

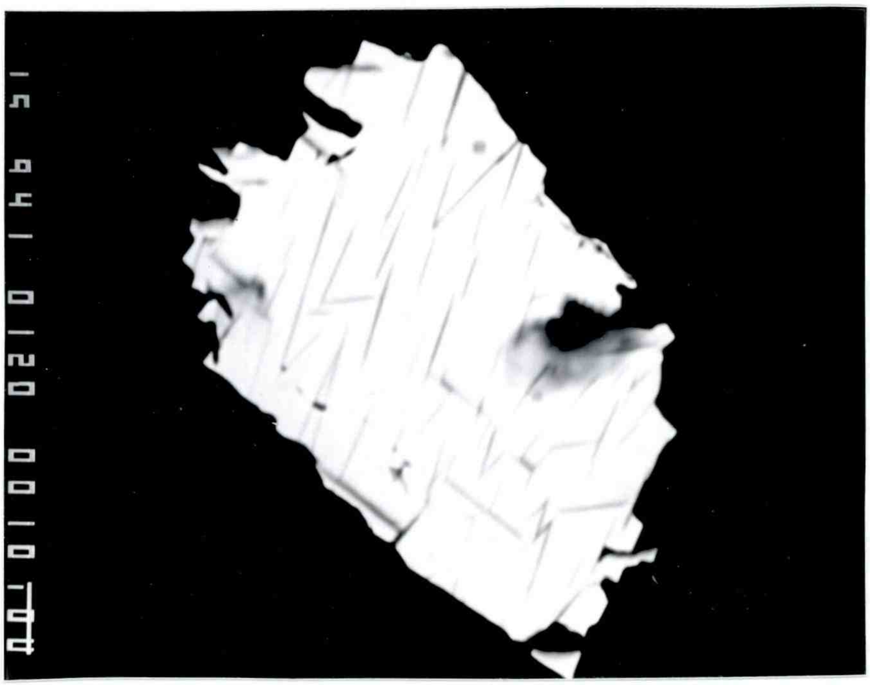


Fig. 12b *SEM BEI of detrital Fe-Ti oxide with exsolution lamellae in sandstone, core 6611/09-U-02, 12.6 m, grain 7. The composition resembles titanohaematite with Ti-rich exsolution lamellae. This grain is less altered than the grain in a) and the analysed lamellae are richer in Ti. Scale bar in μm.*

Core 6611/09-U-01, 217.26 m, Lower Triassic mudstone
A sample of red mudstone with a susceptibility of $850x10^{-6}$ SI was selected for analysis. The mudstone was analysed by XRD semiquantitative bulk-rock analysis that shows a composition rich in mica/illite, quartz, plagioclase, chlorite and kaolinite (Table 7). Ankerite/dolomite and pyrite are present in very small amounts. As none of the main minerals have distinct magnetic properties, supplementary analyses were performed. Sample material was separated by heavy liquids to study the heavy mineral composition, and two fractions (45-63 and 63-125 μm) were mounted on tape and examined by SEM backscattered electron image and EDS analyses.

The following heavy minerals have been identified: Fe-Ti oxide, Fe-oxide, zircon, galena, and barite. EDS spectra show that the Fe content is approximately half the Ti content in the Fe-Ti oxides. It is likely that these compositions are altered during the diagenesis. Quantitative analyses of the Fe-oxides were associated with low sums (77 and 84%), which would also be expected as the preparates were not polished sections. From the analysis it is not possible to identify the Fe-oxide mineral properly; it could be either haematite or magnetite. However, using the elimination method, in these samples the iron oxide is the only candidate for the moderate magnetic susceptibility, and we suggest that the iron phase is magnetite.

Core 6710/03-U-01, uppermost Triassic
SEM analysis was performed on a polished thin section of mottled, kaolinitic mudstone with siderite cloths and scattered, variably dissolved quartz grains (161.55 m, Fig. 14). The analysis confirms the presence of diagenetic siderite cloths in a matrix of kaolinitic clay. Other heavy minerals include pyrite, zircon and monazite. Fe-oxides were not observed.

Core IKU82-4, Upper Triassic and Lower Jurassic mudstone
Magnetic susceptibility values in the range of $150\text{-}3000x10^{-6}$ SI were measured on the mudstones section below and above the Lower Jurassic unconformity in core IKU82-4. Semiquantitative XRD analyses of the bulk composition are shown in Table 7. These mudstones are very kaolinitic and display characteristic red-brown spots of siderite cement. XRD analyses confirm the presence of minor or trace amounts of pyrite. Supplementary studies were made by heavy liquid separation, elimination of siderite by dissolution in warm HCl and SEM analyses of the concentrated heavy mineral fractions (samples 6 m and 8.05 m). In addition, SEM analyses were also performed on polished thin section of the sandy, mottled sample at 8.05 m (Upper Triassic). Finally, XRD analyses was performed on a heavy mineral fraction of the same sample.

The SEM image (Fig. 15) illustrates the occurrence of the diagenetic siderite cloths within a fine-grained kaolinite dominated matrix. Light patches within the siderite consist of pyrite, whereas the nearly invisible light spots in the matrix include both pyrite and detrital heavy minerals like zircon and rutile. SEM analyses of the heavy mineral concentrates confirm the presence of zircon, Ti-oxide (possible rutile), pyrite, zircon, Ti-Fe oxide and barite. The Ti-Fe oxides are enriched in Ti relative to Fe as described before. The XRD spectrum of the heavy mineral fraction shows the presence of pyrite, siderite and kaolinite. It can neither be excluded nor proven that magnetite is present due to complex peak overlaps. Haematite and goethite are not present.

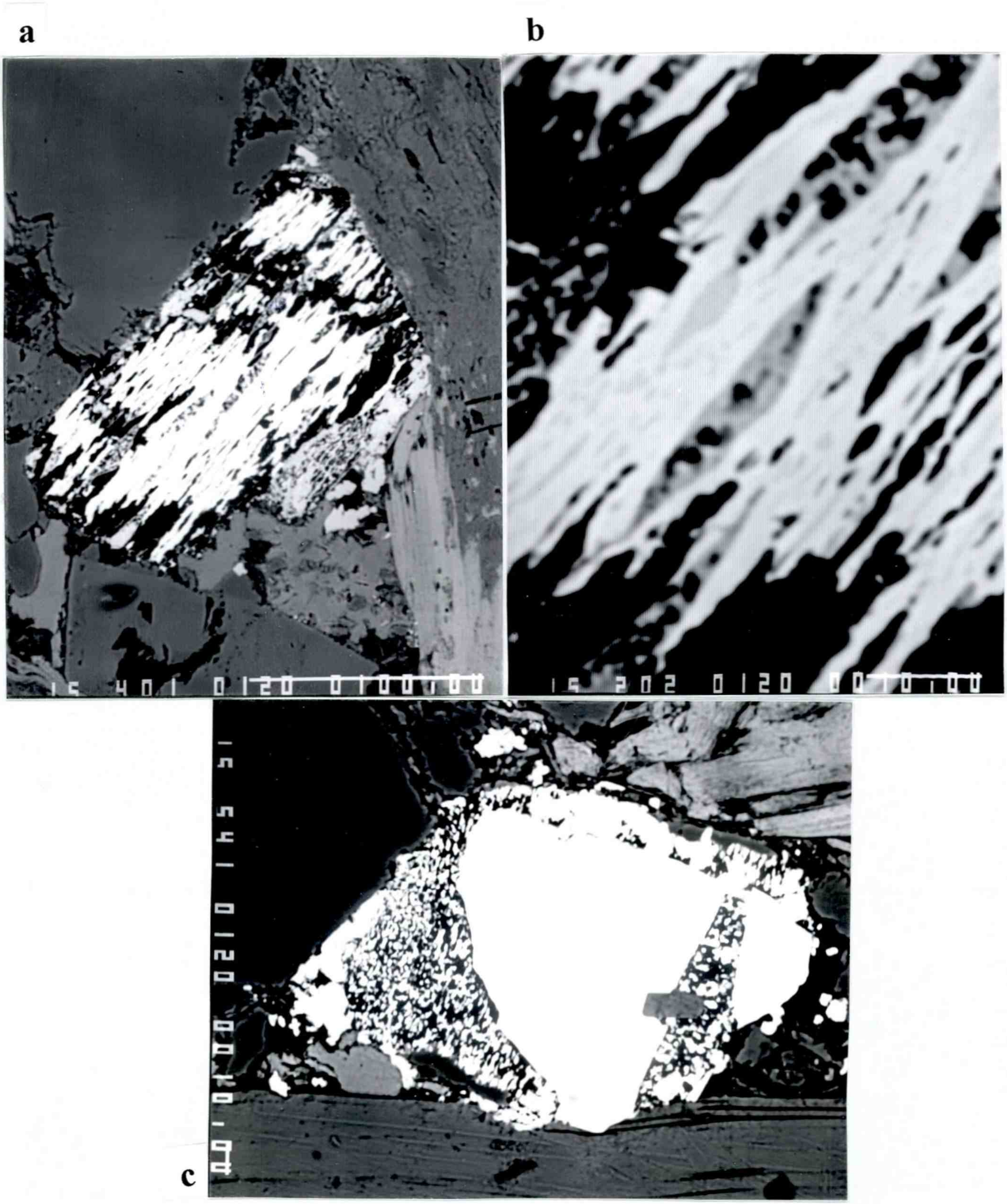


Fig. 13 *a) SEM BEI of strongly altered and partly dissolved detrital grain of Fe-Ti oxide in sandstone, core 6611/09-U-02, 21.95 m, grain 1. Scale bar in µm. b) Close-up of a) showing partly dissolved lamellae. Black = holes. Scale bar in µm. c) SEM BEI of a TiO_2 grain which may have grown diagenetically within a partly dissolved Fe-Ti oxide. Sandstone, core 6611/09-U-02, 12.6 m. Scale bar in µm.*

6814/04-U-02, 36.75 m, Lower Cretaceous mudstone

The sample is cemented by massive, microsparitic aggregates of carbonate. SEM polished thin section analysis shows the carbonate cement to have an Mg-rich, Ca-bearing sideritic composition (possible ankerite, Fig. 16). Detrital grains of plagioclase are occasionally preserved within the cement and question a volcanic origin for the fine-grained sediment. A few skeletal, very small pyrite grains have also been observed.

B82-180/2, 2 m, Quaternary clay

One sample was selected from an interval with magnetic susceptibility values of $2500x10^{-6}$. Semiquantitative, bulk-rock XRD analysis shows the composition to be rich in quartz, plagioclase, K-feldspar, and mica/illite. Fe-bearing minerals such as chlorite, dolomite/ankerite, pyrite and amphibole are present in very small amounts. SEM analyses of heavy liquid separates of the 63-125 and 45-63 μm fractions were performed. The heavy mineral compositions include both Fe-oxide, Fe-Ti oxide, pyrite, zircon, monazite and rutile. Quantitative analyses of the Fe-oxides are generally associated with oxide sums below 90%, which reflects either that the analyses are not optimal due to topographic effects (this preparate was powder, not a polished thin section), or that the composition is haematite rather than magnetite. The EDS spectra indicate that the Fe-Ti oxides have different compositions and may include both ilmenite, altered Ti-enriched phases and Ti-bearing haematite or magnetite.

XRD analysis of the heavy fraction shows a complex spectrum with extensive peak overlap. Peaks which fit with minerals such as ilmenite, pyrrhotite, magnetite and haematite are present, but due to the peak overlaps, the presence of the different minerals cannot be proven. Amphibole and dolomite are positively identified.

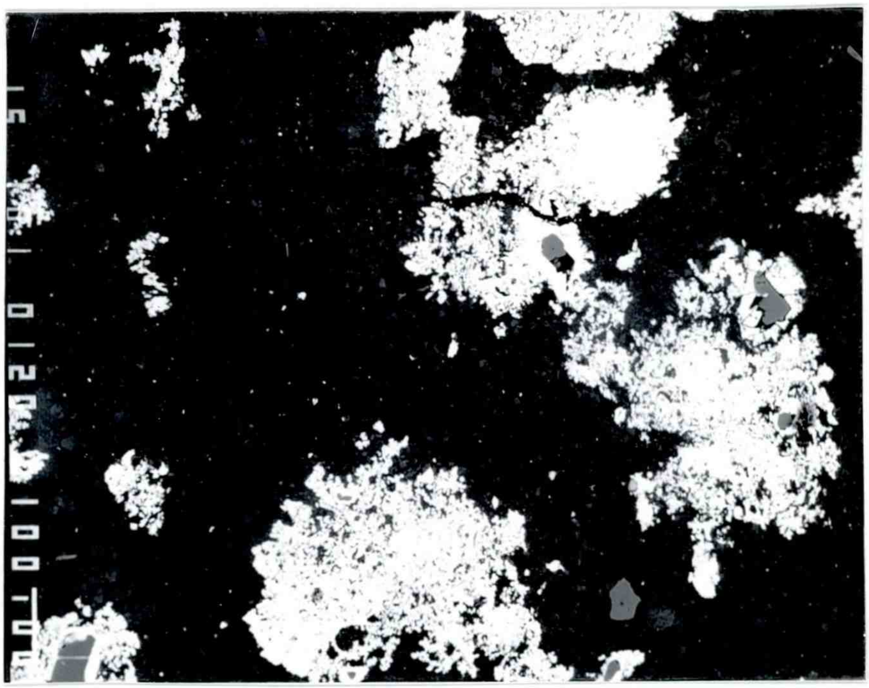


Fig. 14 *SEM BEI of diagenetic siderite cement (light colour) in kaolitic sandy mudstone (dark) from core 6710/03-U-01, 161.55 m.*

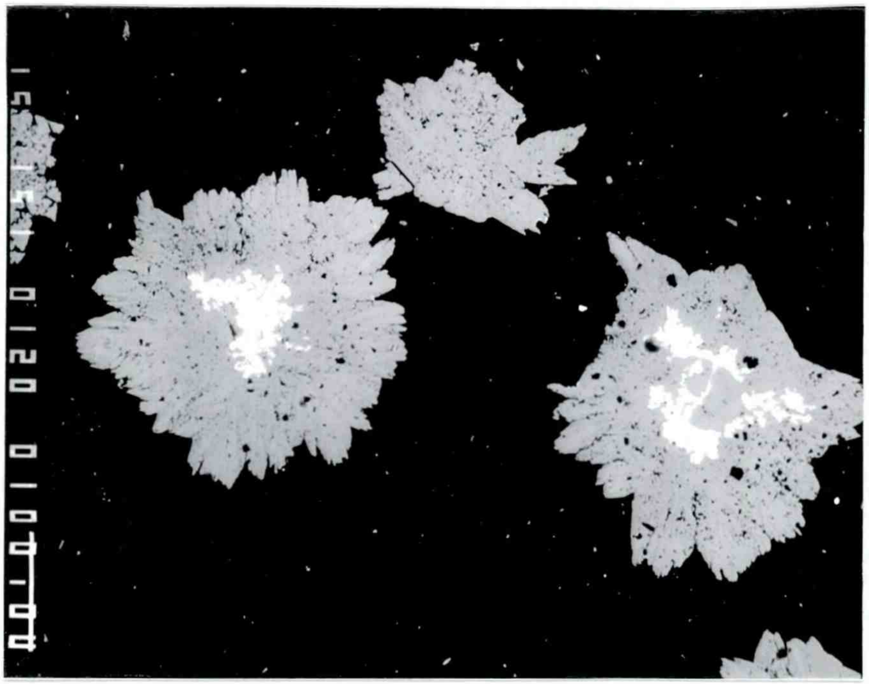


Fig. 15 *SEM BEI of diagenetic siderite cement "flowers" (light grey colour) in a kaolitic mudstone matrix (dark), core IKU82-4, 8.05 m. The light grains in the central part of the siderite grains are pyrite. The very small light grains in the matrix are zircon and Ti-minerals.*

Fig. 16 *SEM BEI of carbonated cemented mudstone (?former ash) from core 6814/04-U-02, 36.75 m. The carbonate (light grey, main mineral) is sideritic to ankeritic in composition. The very small light grain is pyrite, whereas the dark grain is a partly dissolved, detrital plagioclase grain.*

7. SUMMARY AND CONCLUSION

The frequency distributions of the magnetic susceptibility measurements of the shallow cores are generally wide and span one or two orders of magnitude. Quartz sandstone has a generally lower susceptibility than mudstone, siltstone and claystone, 50-300x10^{-6} SI versus 150-600x10^{-6} SI. However, the results from the different units illustrate that the susceptibilities of the sandstones and claystones depend on factors like compositional maturity, provenance and cementation/diagenesis.

The sandstones off Helgeland and Lofoten show an increase in mineralogical maturity from the Upper Permian and Triassic cores to the Middle Jurassic cores. The susceptibility of the Middle Jurassic quartz-rich, mature sandstones is very low (10-130x10^{-6} SI in cores IKU82-10 and -11, 6710/03-U-01 and 6814/04-U-01). This is comparable with on land data on metamorphic quartzites. The immature (feldspathic) sandstones of the Upper Permian and Lower Triassic have somewhat higher susceptibility values which is similar for sandstones and interbedded mudstones and this corresponds to the susceptibility of metamorphic micaschist - metawacke equivalents on land.

The effect of provenance is illustrated in the Lower Triassic section. Moderately low susceptibility values of the continental debris (core 6710/03-U-03) off Lofoten reflect the low susceptibility of the adjacent granitic basement gneiss (100-620x10^{-6} SI) that acted as a sediment source (Fig. 10). The onshore gneiss samples from Lofoten showed a large range in susceptibility, and the cored basement at 6710/03-U-03 compares with the onshore values with lowest susceptibility. The Lower Triassic sandstone section off Helgeland shows an increase in magnetic susceptibility up to 1430x10^{-6} SI in the upper 30 metres of core 6611/09-U-02 (Fig. 10). The high susceptibility of these sandstones is due to the presence of detrital heavy minerals like magnetite, Cr-spinel and Fe-Ti oxides. This reflects a different provenance. Cr-minerals are known to be abundant in the adjacent ophiolite fragments in the westernmost coastal areas including the vicinity of Sandnessjøen (e.g. Rødøy ultramafic body); the zoned Cr-spinel - magnetite grains recorded in the sediments off Helgeland are common in such ophiolite rocks that are likely sediment source candidates.

The Upper Triassic - Lower Jurassic section with alternating sandstones and mudstones shows a considerable range in susceptibility (10-3000x10^{-6} SI), and the high values are recorded in "red beds" and mottled, siderite cemented sandstones and mudstones (including root beds and caliche) in cores IKU82-4, 6710/03-U-01 and -U-02. The high content of siderite is a possible source of the high susceptibility. In core IKU82-4 siderite and minor pyrite has formed diagenetically by reduction of iron oxides. It cannot be completely ruled out that Fe-oxides have contributed to the susceptibility, but they were not detected in the studied preparates.

The mudstones show a somewhat larger range in magnetic susceptibility than the sandstones (Fig. 2), and the most susceptible samples were measured in the Cretaceous claystone section off Lofoten. The highest values were always detected in siderite-cemented beds and nodules (1000-3000x10^{-6} SI) in all the three cores of Lower and Upper Cretaceous age. The non-cemented or calcite-cemented intervals, which make up most of the cores, have susceptibility values one magnitude lower. The susceptibility of the total section is thus dependent on the content and distribution of siderite-cemented beds and nodules. Other Fe-rich minerals present which may contribute to the high susceptibility within these siderite cemented beds are goethite and haematite (6710/03-U-01) and pyrite ± Fe-Ti oxide (6814/04-U-02, 6711/04-U-01).

High susceptibility values 1060-2500x10^{-6} SI are also found in glaciomarine clay from the sampling stations off Helgeland (B82-180 and B82-190), whereas the other Quaternary samples have much lower values. The high susceptibility values of the glaciomarine clay reflects the presence of magnetite and/or haematite, Ti-Fe oxide and pyrite; pyrrhotite may also be present.

In conclusion, the susceptibility distribution of the sediments from the shallow cores is comparable with the susceptibility of the metamorphosed paramagnetic equivalents on land (e.g. the metasediments within the Rødingsfjell Nappe Complex (Fig. 7)). Ferromagnetic meta-sediments in the crystalline basement on the mainland may, however, have more than two orders of magnitude higher susceptibilities than the paramagnetic equivalents.

The bulk of the sediments on the continental shelf are characterised by diamagnetic or paramagnetic behaviour, or a combination of both. However, units of the stratigraphy also contain ferromagnetic minerals. The susceptibility values of the sediments vary between -20 and 6000x10^{-6} SI. Quartz sandstones have lower susceptibilities than mudstone, shale and crystalline basement. However, red-coloured sandstones often have higher susceptibilities than other kinds of sediments within the NAS-94 area, and can be as high as 1000x10^{-6} SI. The highest susceptibility recorded in bedrock lithologies was encountered in siderite cemented clay- and siltstones of Cretaceous age: up to 4000x10^{-6} SI. These cemented zones occur in 5-20 cm-wide sections in the IKU cores and seem locally to be associated with small-scale faulting. Caliche, a lithified desert soil formed by the near surface crystallisation of calcite and/or other soluble minerals by upward-moving solutions, has intermediate susceptibilities reaching 1000x10^{-6} SI. Gypsum and coal show the lowest susceptibilities, with the former exhibiting some negative susceptibility values over a total range of -20 - +10x10^{-6} SI; these values show partly diamagnetic properties, consistent with published data (Table 4).

The Quaternary overburden, especially glaciomarine clay, has even higher susceptibilities than the underlying sedimentary rocks. The source of these Quaternary sediments is partly magnetic crystalline basement rocks on mainland Norway.

8. ACKNOWLEDGEMENTS

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APPENDIX A
<u>Method description:</u>

JH-8
Geoinstruments ky,

The function of JH-8 is based on electromagnetic induction. There are two coils placed orthogonally to each other in the detector head, which is mounted in the bottom of the instrument case. In non-magnetic environment the voltage induced from transmitter coil to receiver coil is zero. When a sample is brought near the coils, a voltage which is proportional to magnetic susceptibility of the sample is induced to the receiver coil. This signal is detected by a phase-locked amplifier and after rectification it is used to drive an analog panel meter, which is thermally compensated and directly calibrated for susceptibility. Improved sensitivity is achieved by this method, which makes the use of low frequency possible. This reduces the error caused by possible electric conductivity in the sample to a normally insignificant value.

The accuracy of the instrument is 20×10^{-6} SI.

MS2 System
Bartington Instruments Limited,
Method description (Dearing 1994):

The MS2 Magnetic Susceptibility System comprises a portable measuring instrument, the MS2 meter, which displays the magnetic susceptibility value of materials when these are brought within the influence of the MS2C sensor. The MS2C sensor is designed for the volume susceptibility measurements of continuous sections of core. The core is passed through the sensor and measurements are taken at different intervals.

The sensor is connected to the MS2 meter via a simple coaxial cable. An RS232 serial interface allows the instrument to operate in conjunction with custom IBM compatible software running on a portable PC. The circuitry within the MS2 powers the sensor and processes the measurement information produced by it. The measurements are obtained digitally using a time dependent method. This results in precise and repeatable measurements.

Also the MS2C sensor operate on the principle of a.c. induction. Power is supplied to the oscillator circuit within the sensor. This generates a low intensity alternating magnetic field. Any material brought within the influence of this field will bring about a change in oscillator frequency. The frequency information is returned in pulse form to the MS2 meter where it is converted into a value of magnetic susceptibility. The sensor is particularly insensitive to sample conductivity. The sensor subjects the sample to a non-saturating field which has the advantage of measuring initial susceptibility without destroying any sample magnetic remanence.

The accuracy of this instrument is 1×10^{-6} SI.

APPENDIX B, 26 pages

Susceptibility measurements on cores from IKU shallow drilling programme.

Lithologic codes:

S00	Conglomerate	S61	Till
S13	Sandstone	S62	Gravel
S21	Mudstone	S63	Sand
S22	Claystone	S64	Silt
S31	Coal	S65	Mud
S41	Chalk	S66	Clay
S48	Gypsum		

X	Red-coloured sediments
Y	Calcite-cemented sediments
*	Sample for laboratory measurements

Stratigraphic codes:

PLE	Pleistocene	UJU	Upper Jurassic
OLI	Oligocene	MJU	Middle Jurassic
PAL	Palaeocene	LJU	Lower Jurassic
UCR	Upper Cretaceous	LTR	Lower Triassic
LCR	Lower Cretaceous	UPE	Upper Permian
		LPE	Lower Permian

Appendix B, page 2.

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
67103-1	1	32	58249	752257	S66	PLE	Clay, dark	0.00013	8.6
67103-1	2	32	58249	752257	S22	PLE	Clayst. dark	0.00031	15.0
67103-1	3	32	58249	752257	S22	PLE	Clayst. dark, thin	0.00125	15.7
67103-1	4	32	58249	752257	S22	LCR	Background", clayst.	0.00056	20.0
67103-1	5	32	58249	752257	M23	LCR	Carb. cem. nodule	0.00125	24.3
67103-1	6	32	58249	752257	M23	LCR	*Cemented nodule	0.00144	25.4
67103-1	7	32	58249	752257	M23	LCR	Clayst., carb. cem.?	0.00069	27.2
67103-1	8	32	58249	752257	S22	LCR	Clayst. brownish	0.00025	29.0
67103-1	9	32	58249	752257	S22	LCR	Clayst. reddish	0.00069	31.1
67103-1	10	32	58249	752257	M23	LCR	*Carb. cem., br. bed	0.00169	34.0
67103-1	11	32	58249	752257	M23	LCR	Carb. bed?	0.00081	34.3
67103-1	12	32	58249	752257	S22	LCR	Light clayst.	0.00031	38.4
67103-1	13	32	58249	752257	M23	LCR	*Light crb. cem. bed	0.00156	40.1
67103-1	14	32	58249	752257	S22	LCR	Grey clayst..	0.00025	44.5
67103-1	15	32	58249	752257	S22	LCR	Clayst.	0.00025	46.0
67103-1	16	32	58249	752257	M23	LCR	Yellowish concretion	0.00075	49.4
67103-1	17	32	58249	752257	S22	LCR	Grey clayst.	0.00019	53.3
67103-1	18	32	58249	752257	M23	LCR	Yellowish concretion	0.00088	57.0
67103-1	19	32	58249	752257	S22	LCR	Clayst.	0.00019	57.1
67103-1	20	32	58249	752257	M23	LCR	Carb. cem. bed, yel.	0.00088	60.2
67103-1	21	32	58249	752257	S22	LCR	"Background" clayst.	0.00025	60.3
67103-1	22	32	58249	752257	S22	LCR	clayst	0.00019	63.5
67103-1	23	32	58249	752257	M23	LCR	Carb.cem.mult.phases	0.00200	68.0
67103-1	24	32	58249	752257	S22	LCR	Clayst.	0.00025	72.0
67103-1	25	32	58249	752257	M23	LCR	Br. carb.concretions	0.00112	72.4
67103-1	26	32	58249	752257	M23	LCR	*Carb. concretion	0.00175	74.0
67103-1	27	32	58249	752257	M23	LCR	Carbonate concretion	0.00100	74.5
67103-1	28	32	58249	752257	S22	LCR	Clayst.	0.00027	77.4
67103-1	29	32	58249	752257	M23	LCR	Carbonate bed	0.00187	81.5
67103-1	30	32	58249	752257	M23	LCR	Yell. carbonate bed	0.00137	98.5
67103-1	31	32	58249	752257	S22	LCR	Clayst.	0.00112	112.8
67103-1	32	32	58249	752257	M23	LCR	Clay, carb concr.	0.00225	116.0
67103-1	33	32	58249	752257	M23	LCR	Carbonate concretion	0.00163	125.0
67103-1	34	32	58249	752257	S13	MJU	Sandst.	0.00001	137.8
67103-1	35	32	58249	752257	S13	LJU		0.00004	152.0
67103-1	36	32	58249	752257	S13	LJU	Grey	0.00019	153.0
67103-1	37	32	58249	752257	S28	LJU	Grey siltst.	0.00005	153.4
67103-1	38	32	58249	752257	S21	LJU	Mudst.	0.00013	153.6
67103-1	39	32	58249	752257	S13	LJU	Brownish?cem.sandst.	0.00050	156.4
67103-1	40	32	58249	752257	S13	LJU	Sandst.	0.00013	158.2
67103-1	41	32	58249	752257	M23	LJU	*?Siderite cemented	0.00100	162.0
67103-1	42	32	58249	752257	M23	LJU	Brownish cem.sandst.	0.00038	162.2
67103-1	43	32	58249	752257	S13	LJU	Grey, lam. sandst.	0.00006	163.5
67103-1	44	32	58249	752257	M26	LJU	Scattered caliche	0.00125	162.4
67103-1	45	32	58249	752257	S13	LJU	Sandst.	0.00002	165.0
67103-1	46	32	58249	752257	S13	LJU	Sandst.	0.00004	166.3
67103-1	47	32	58249	752257	S13	LJU	Sandst.	0.00062	167.7
67103-1	48	32	58249	752257	S13	LJU	Grey sandst.	0.00013	168.0
67103-1	49	32	58249	752257	S13	LJU	White sandst.	0.00002	168.2
67103-1	50	32	58249	752257	S13	LJU	Light sandst.	0.00031	170.6
67103-1	51	32	58249	752257	S21	LJU	Dark mudst.	0.00006	171.8
67103-1	52	32	58249	752257	M26	LJU	Caliche/mottl.mudst.	0.00038	173.7
67103-1	53	32	58249	752257	M26	LJU	Caliche/mottl.mudst.	0.00100	174.6
67103-1	54	32	58249	752257	M26	LJU	Caliche/mottl.mudst.	0.00075	175.0
67103-1	55	32	58249	752257	S21	LJU	Reddish/yell.mudst.	0.00075	175.5
67103-1	56	32	58249	752257	M26	LJU	Caliche	0.00062	176.0
67103-1	57	32	58249	752257	M26	LJU	Caliche, red mudst.	0.00013	177.0
67103-1	58	32	58249	752257	M26	LJU	Caliche/mott.mudst.	0.00013	177.3
67103-1	59	32	58249	752257	S22	LJU	Reddish clayst.	0.00050	178.1
67103-1	60	32	58249	752257	S22	LJU	Clayst.	0.00025	178.7
67103-1	61	32	58249	752257	M26	LJU	Mottl. yell.red mud.	0.00088	178.9
67103-1	62	32	58249	752257	S21	LJU	Mudst.	0.00013	179.5
67103-1	63	32	58249	752257	S13	LJU	White sandst.	0.00001	180.4
67103-1	64	32	58249	752257	S21	LJU	Dark mudst.	0.00006	181.1
67103-1	65	32	58249	752257	S13	LJU	Sandst.w.kaol.grains	0.00001	182.1
67103-1	66	32	58249	752257	S13	LJU	Sandst.	0.00038	183.7
67103-1	67	32	58249	752257	M26	LJU	Brownish sand/mudst.	0.00069	184.5
67103-1	68	32	58249	752257	M26	LJU	Yellowish, mottled	0.00025	186.0
67103-1	69	32	58249	752257	S21	LJU		0.00009	191.1

Appendix B, page 3.

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
67103-1	70	32	58249	752257	M26	LJU	Mottled	0.00014	192.0
67103-1	71	32	58249	752257	S21	LJU	Reddish mudst.	0.00013	193.4
67103-2	1	32	57566	753222	S65	PLE	Dark mud	0.00044	17.0
67103-2	2	32	57566	753222	S64	PLE	Light ?silt	0.00006	20.7
67103-2	3	32	57566	753222	S13	LJU	Sandst.	0.00005	81.0
67103-2	4	32	57566	753222	S13	LJU	Dark strata	0.00004	86.0
67103-2	5	32	57566	753222	S13	LJU	Light sandst.	0.00001	86.3
67103-2	6	32	57566	753222	S13	LJU	Yellow sandst.	0.00088	89.7
67103-2	7	32	57566	753222	S21	LJU	Dark mudst.	0.00016	90.3
67103-2	8	32	57566	753222	S13	LJU	White, cem. sandst.	0.00013	101.8
67103-2	9	32	57566	753222	S21	LJU	Darker clayey strata	0.00025	101.9
67103-2	10	32	57566	753222	S13	LJU	Lighter strata	0.00010	101.9
67103-2	11	32	57566	753222	S13	LJU	White, cem. sandst.	0.00011	102.5
67103-2	12	32	57566	753222	S13	LJU	?Sandst.	0.00021	103.8
67103-2	13	32	57566	753222	S22	LJU	Dark clayst.	0.00044	106.4
67103-2	14	32	57566	753222	S22	LJU	Dark clayst.	0.00013	110.5
67103-2	15	32	57566	753222	S31	LJU	Coal	0.00001	112.0
67103-2	16	32	57566	753222	S22	LJU	Light clayst.	0.00006	113.8
67103-2	17	32	57566	753222	S22	LJU	Lam. clayst.	0.00013	116.5
67103-2	18	32	57566	753222	M23	LJU	Thin carbonate bed	0.00050	124.4
67103-2	19	32	57566	753222	S13	LJU	Lam. sandst.	0.00100	126.3
67103-2	20	32	57566	753222	S13	LJU	Light sandst.	0.00008	127.6
67103-2	21	32	57566	753222	M23	LJU	Yellow carb.concr.	0.00050	127.8
67103-3	1	32	58410	752794	S21	LTR	Grey/reddish mudst.	0.00036	3.0
67103-3	2	32	58410	752794	S21	LTR	Lam.mudst. br./grey	0.00040	4.9
67103-3	3	32	58410	752794	S21	LTR	Lam. mudst.	0.00039	6.4
67103-3	4	32	58410	752794	S21	LTR	Lam. mudst.	0.00044	7.9
67103-3	5	32	58410	752794	S21	LTR	Lam. mudst.	0.00038	8.7
67103-3	6	32	58410	752794	S21	LTR	Lam. mudst.	0.00036	18.4
67103-3	7	32	58410	752794	S21	LTR	Lam. mudst.	0.00038	19.6
67103-3	8	32	58410	752794	S21	LTR	Greenish mudst.	0.00025	20.7
67103-3	9	32	58410	752794	S21	LTR	Mudst. with sand	0.00017	23.0
67103-3	10	32	58410	752794	S13	LTR	Sandst.	0.00008	26.0
67103-3	11	32	58410	752794	S21	LTR	Green mudst.	0.00044	29.3
67103-3	12	32	58410	752794	S21	LTR	Lam. green mudst.	0.00038	29.7
67103-3	13	32	58410	752794	S21	LTR	Brownish mass.mudst.	0.00068	31.4
67103-3	14	32	58410	752794	S21	LTR	Brownish mudst.lam.	0.00049	31.5
67103-3	15	32	58410	752794	S21	LTR	Lam. mudst.	0.00039	32.5
67103-3	16	32	58410	752794	S13	LTR	Sandst.	0.00006	35.3
67103-3	17	32	58410	752794	S21	LTR	Mudst.	0.00038	36.5
67103-3	18	32	58410	752794	S21	LTR	Lam. sandst/mudst.	0.00024	37.0
67103-3	19	32	58410	752794	S21	LTR	Mudst.	0.00031	37.6
67103-3	20	32	58410	752794	S13	LTR	Sandst.	0.00024	38.4
67103-3	21	32	58410	752794	S21	LTR	Mudst.	0.00026	38.7
67103-3	22	32	58410	752794	S21	LTR	Lam. mudst.	0.00025	41.8
67103-3	23	32	58410	752794	S21	LTR	Lam. mudst.	0.00027	43.2
67103-3	24	32	58410	752794	S21	LTR	Lam. mudst.	0.00024	45.1
67103-3	25	32	58410	752794	S21	LTR	Redbrown mudst.	0.00060	46.5
67103-3	26	32	58410	752794	S21	LTR	Lam. mudst.	0.00033	47.6
67103-3	27	32	58410	752794	S21	LTR	Brownish mudst.	0.00025	49.8
67103-3	28	32	58410	752794	S13	LTR	Lam. sandst.	0.00024	51.0
67103-3	29	32	58410	752794	S21	LTR	Dark mudst.	0.00025	51.2
67103-3	30	32	58410	752794	S13	LTR	Mica-r.sandst/mudst.	0.00019	55.7
67103-3	31	32	58410	752794	S21	LTR	Dark mudst.	0.00025	56.0
67103-3	32	32	58410	752794	S13	LTR	Mica-r.lamin.sandst.	0.00017	56.7
67103-3	33	32	58410	752794	S13	LTR	Mica-r.lamin.sandst.	0.00020	57.7
67103-3	34	32	58410	752794	S13	LTR	Mica lamina	0.00006	59.2
67103-3	35	32	58410	752794	S13	LTR	Mica-rich sandst.	0.00016	60.5
67103-3	36	32	58410	752794	S13	LTR	Very coarse sandst.	0.00004	63.7
67103-3	37	32	58410	752794	S21	LTR	Green mudst.	0.00029	65.4
67103-3	38	32	58410	752794	M23	LTR	Br. mud, ?carb. cem.	0.00069	66.1
67103-3	39	32	58410	752794	S21	LTR	Darker, muddy int.	0.00021	67.6
67103-3	40	32	58410	752794	S21	LTR	Greygreen mudst.	0.00031	67.8
67103-3	41	32	58410	752794	S21	LTR	Green.mudst./l. sand	0.00044	69.0
67103-3	42	32	58410	752794	S22	LTR	Redbrown clayst.	0.00029	71.1
67103-3	43	32	58410	752794	S22	LTR	Redbrown clayst.	0.00026	74.2
67103-3	44	32	58410	752794	S22	LTR	Redbrown clayst.	0.00024	74.8
67103-3	45	32	58410	752794	S22	LTR	Greenish clayst.	0.00016	75.6

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
67103-3	46	32	58410	752794	S21	LTR	Redbrown mudst.	0.00029	75.9
67103-3	47	32	58410	752794	S21	LTR	Greenish mudst.	0.00015	76.5
67103-3	48	32	58410	752794	S21	LTR	Redbrown mudst.	0.00031	78.2
67103-3	49	32	58410	752794	S21	LTR	Redbrown mudst.	0.00030	81.4
67103-3	50	32	58410	752794	S13	LTR	Wh. sandst. coarse	0.00006	83.3
67103-3	51	32	58410	752794	S13	LTR	Greenish sandst.	0.00019	84.4
67103-3	52	32	58410	752794	S13	LTR	Redbrown interval	0.00039	85.2
67103-3	53	32	58410	752794	S13	LTR	Grey sandst.	0.00024	89.5
67103-3	54	32	58410	752794	S13	LTR	Light grey sandst.	0.00010	89.8
67103-3	55	32	58410	752794	S13	LTR	Greenish+brown lam.	0.00025	90.0
67103-3	56	32	58410	752794	S13	LTR	Lightest	0.00009	91.0
67103-3	57	32	58410	752794	S13	LTR	White sandst.	0.00002	92.6
67103-3	58	32	58410	752794	S21	LTR	Redbrown mudst.	0.00030	93.6
67103-3	59	32	58410	752794	S13	LTR	Light sandst.	0.00024	94.5
67103-3	60	32	58410	752794	S13	LTR	White sandst.	0.00006	95.5
67103-3	61	32	58410	752794	S13	LTR	Light sandst.	0.00006	100.0
67103-3	62	32	58410	752794	S13	LTR	Sandst.	0.00002	101.8
67103-3	63	32	58410	752794	S21	LTR	Redbrown mudst.	0.00038	102.6
67103-3	64	32	58410	752794	S13	LTR	Light sandst.	0.00006	103.8
67103-3	65	32	58410	752794	S21	LTR	Greenish mudst.	0.00024	104.9
67103-3	66	32	58410	752794	S13	LTR	Coarse sandst.	0.00004	107.3
67103-3	67	32	58410	752794	S13	LTR	Coarse sandst.	0.00010	109.1
67103-3	68	32	58410	752794	S21	LTR	Lam. interval	0.00026	109.4
67103-3	69	32	58410	752794	S21	LTR	Redbrown mudst.	0.00031	111.3
67103-3	70	32	58410	752794	S21	LTR	Greenish mudst.	0.00025	112.0
67103-3	71	32	58410	752794	S13	LTR	White sandst.	0.00006	113.0
67103-3	72	32	58410	752794	S13	LTR	Sandst.	0.00019	114.2
67103-3	73	32	58410	752794	S00	LTR	Cgl/v.coarse sandst.	0.00005	114.7
67103-3	74	32	58410	752794	S21	LTR	Green mudst.	0.00029	114.8
67103-3	75	32	58410	752794	S21	LTR	Redbr./green mudst.	0.00025	115.0
67103-3	76	32	58410	752794	S13	LTR	Lam. fine sandst.	0.00036	118.3
67103-3	77	32	58410	752794	S00	LTR	Conglomerate	0.00006	119.8
67103-3	78	32	58410	752794	S21	LTR	Mica-rich mudst.	0.00034	119.9
67103-3	79	32	58410	752794	S13	LTR	Lam. sandst/green mu	0.00025	122.8
67103-3	80	32	58410	752794	S21	LTR	Lam. mudst/sandst.	0.00026	126.2
67103-3	81	32	58410	752794	S00	LTR	Congl. feldspar rich	0.00006	127.0
67103-3	82	32	58410	752794	S21	LTR	Reddish mudst. + san	0.00027	129.4
67103-3	83	32	58410	752794	S21	LTR	Reddish mudst.	0.00021	130.0
67103-3	84	32	58410	752794	S21	LTR	Grey conglomerate	0.00006	132.2
67103-3	85	32	58410	752794	S21	LTR	Lam. red, green muds	0.00016	133.4
67103-3	86	32	58410	752794	S00	LTR	Coarse congl. hetero	0.00009	138.4
67103-3	87	32	58410	752794	S00	LTR	Coarser conglomerate	0.00006	140.0
67103-3	88	32	58410	752794	S00	LTR	Conglomerate, darker	0.00019	140.9
67103-3	89	32	58410	752794	S00	LTR	Red coarse congl.	0.00024	141.8
67103-3	90	32	58410	752794	S00	LTR	Coarse feldspar auge	0.00013	144.2
67103-3	91	32	58410	752794	S00	LTR	Congl. granite gr.	0.00009	145.1
67103-3	92	32	58410	752794	S00	LTR	Congl. with red matr	0.00010	145.5
67103-3	93	32	58410	752794	S00	LTR	Conglomerate	0.00006	148.1
67103-3	94	32	58410	752794	S00	LTR	Congl.	0.00008	151.5
67103-3	95	32	58410	752794	S00	LTR	Congl.	0.00009	154.3
67103-3	96	32	58410	752794	S00	LTR	Cgl. brown matrix	0.00006	156.2
67103-3	97	32	58410	752794	S00	LTR	Cgl.	0.00006	156.6
67103-3	98	32	58410	752794	S00	LTR	Cgl.	0.00014	158.2
67103-3	99	32	58410	752794	S00	LTR	Cgl. light matrix	0.00005	161.2
67103-3	100	32	58410	752794	S00	LTR	Conglomerate	0.00006	163.0
67103-3	101	32	58410	752794	S00	LTR	Cgl.	0.00009	167.3
67103-3	102	32	58410	752794	M07	PLO	Augengneiss	0.00010	168.6
67103-3	103	32	58410	752794	M07	PLO	Augengneiss	0.00031	169.0
67103-3	104	32	58410	752794	I60	PLO	Green altered dyke	0.00025	169.4
67103-3	105	32	58410	752794	I60	PLO	Dark "blackwall"	0.00062	170.0
67103-3	106	32	58410	752794	M07	PLO	Augengneiss	0.00016	171.4
67103-3	107	32	58410	752794	M07	PLO	Augengneiss	0.00009	172.6
67114-1	1	32	58918	751522	S61	PLE	Till	0.00100	8.4
67114-1	2	32	58918	751522	S63	PLE	Sand	0.00025	11.4
67114-1	3	32	58918	751522	S65	PLE	Sandy mud	0.00006	10.3
67114-1	4	32	58918	751522	S28	UCR	Clayey siltst.	0.00013	13.0
67114-1	5	32	58918	751522	S28	UCR	Clayey siltst.	0.00014	15.0
67114-1	6	32	58918	751522	S22	UCR	Clayst.	0.00010	17.0

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
67114-1	7	32	58918	751522	S22	UCR	Clayst.	0.00011	19.0
67114-1	8	32	58918	751522	S22	UCR	Clayst.	0.00019	21.0
67114-1	9	32	58918	751522	M23	UCR	Carb.cem (calcite)	0.00010	42.0
67114-1	10	32	58918	751522	S22	UCR	Clayst.carb. nodules	0.00014	45.0
67114-1	11	32	58918	751522	S22	UCR	Clayst.carb. nodules	0.00013	47.0
67114-1	12	32	58918	751522	M23	UCR	Carbonate cem. bed	0.00025	48.4
67114-1	13	32	58918	751522	M23	UCR	Carb. cem. bed.	0.00025	56.2
67114-1	14	32	58918	751522	M23	UCR	*Carbonate bed	0.00106	119.7
67114-1	15	32	58918	751522	S22	UCR	Light clayst.	0.00021	120.0
67114-1	16	32	58918	751522	M23	UCR	Brownish, cem. bed	0.00225	128.8
67114-1	17	32	58918	751522	S22	UCR	"Background" clayst.	0.00013	132.0
67114-1	18	32	58918	751522	M23	UCR	Brownish bed	0.00081	134.9
67114-1	19	32	58918	751522	M23	UCR	Carb.cem.yell.brown	0.00082	136.8
67114-1	20	32	58918	751522	S22	UCR	"Background" clayst.	0.00017	137.0
67114-1	21	32	58918	751522	S22	UCR	Lam. clayst.	0.00025	148.0
67114-1	22	32	58918	751522	S22	UCR	Finely lam. clayst.	0.00027	158.0
67114-1	23	32	58918	751522	M23	UCR	Brownish carb.cement	0.00187	158.6
67114-1	24	32	58918	751522	M23	UCR	*Mudst. lam. cem.	0.00132	161.4
67114-1	25	32	58918	751522	M23	UCR	Mudst. lam. cem.	0.00256	161.6
67114-1	26	32	58918	751522	S22	UCR	"Background" clayst.	0.00025	163.0
67114-1	27	32	58918	751522	M23	UCR	Brownish carb.cem.	0.00123	166.0
67114-1	28	32	58918	751522	S22	UCR	Grey clayst.	0.00019	170.0
68144-1	1	32	71046	762475	S66	PLE	"borekaks"	0.00625	5.0
68144-1	2	32	71046	762475	S66	PLE	Dark clay	0.00500	5.1
68144-1	3	32	71046	762475	S66	PLE	Dark clay	0.00625	5.3
68144-1	4	32	71046	762475	S66	PLE	Dark clay	0.00250	5.2
68144-1	5	32	71046	762475	S66	PLE	Dark clay	0.00625	5.4
68144-1	6	32	71046	762475	S21	UJU	Lam.micac.dark mudst	0.00006	14.7
68144-1	7	32	71046	762475	S21	UJU	Lam.micac.dark mudst	0.00006	15.4
68144-1	8	32	71046	762475	S21	UJU	Lam.micac.dark mudst	0.00006	16.7
68144-1	9	32	71046	762475	S21	UJU	Lam.micac.dark mudst	0.00008	17.4
68144-1	10	32	71046	762475	S21	UJU	Lam.micac.dark mudst	0.00006	20.4
68144-1	11	32	71046	762475	S21	UJU	Lam.micac.dark mudst	0.00006	23.0
68144-1	12	32	71046	762475	S21	UJU	Lam.micac.dark mudst	0.00009	23.6
68144-1	13	32	71046	762475	S21	UJU	Lam.micac.dark mudst	0.00010	25.2
68144-1	14	32	71046	762475	S21	UJU	Lam.micac.dark mudst	0.00009	26.0
68144-1	15	32	71046	762475	M23	UJU	Brownish cem. mudst.	0.00008	27.0
68144-1	16	32	71046	762475	M23	UJU	Brownish cem. mudst.	0.00006	28.8
68144-1	17	32	71046	762475	M23	UJU	Brownish cem. mudst.	0.00009	29.3
68144-1	18	32	71046	762475	M23	UJU	Brownish cem. mudst.	0.00013	30.5
68144-1	19	32	71046	762475	S28	UJU	Sandy siltst.	0.00014	32.4
68144-1	20	32	71046	762475	S28	UJU	Grey siltst.	0.00015	35.7
68144-1	21	32	71046	762475	S28	UJU	Siltst.	0.00019	38.4
68144-1	22	32	71046	762475	S28	UJU	Siltst.	0.00019	40.9
68144-1	23	32	71046	762475	S28	UJU	Siltst.	0.00015	43.6
68144-1	24	32	71046	762475	S28	UJU	Siltstone	0.00013	44.9
68144-1	25	32	71046	762475	S28	UJU	Siltst.	0.00014	46.6
68144-1	26	32	71046	762475	S28	UJU	Grey siltst.	0.00017	47.5
68144-1	27	32	71046	762475	S28	UJU	Grey siltst.	0.00015	48.6
68144-1	28	32	71046	762475	S28	UJU	Grey siltst.	0.00015	48.8
68144-1	29	32	71046	762475	S13	MJU	White sandst.	0.00001	50.2
68144-1	30	32	71046	762475	S13	MJU	White sandst.	0.00001	50.3
68144-1	31	32	71046	762475	S13	MJU	White sandst.	0.00001	53.2
68144-1	32	32	71046	762475	S13	MJU	White sandst.	0.00002	53.6
68144-1	33	32	71046	762475	S13	MJU	White sandst.	0.00001	59.4
68144-1	34	32	71046	762475	S13	MJU	White sandst.	0.00002	62.1
68144-1	35	32	71046	762475	S13	MJU	White sandst.	0.00001	65.7
68144-1	36	32	71046	762475	S13	MJU	White sandst.	0.00002	68.8
68144-1	37	32	71046	762475	S13	MJU	Sandst.	0.00002	75.7
68144-1	38	32	71046	762475	S13	MJU	Sandst.	0.00006	80.0
68144-1	39	32	71046	762475	S13	MJU	Sandst.	0.00001	101.1
68144-1	40	32	71046	762475	S13	MJU	Sandst.	0.00001	103.5
68144-1	41	32	71046	762475	S13	MJU	Sandst.	0.00001	107.1
68144-1	42	32	71046	762475	S13	MJU	Sandst.	0.00002	109.6
68144-1	43	32	71046	762475	S13	MJU	Dark sandst.	0.00001	117.9
68144-1	44	32	71046	762475	S13	MJU	Dark sandst.	0.00001	121.5
68144-1	45	32	71046	762475	S13	MJU	Sandst.	0.00002	125.6
68144-1	46	32	71046	762475	S13	MJU	Sandst.	0.00001	125.8

Appendix B, page 6.

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
68144-1	47	32	71046	762475	S13	MJU	Sandst.	0.00002	128.6
68144-1	48	32	71046	762475	S13	MJU	Sandst.	0.00001	130.3
68144-1	49	32	71046	762475	S13	MJU	Mica-rich sandst.	0.00013	138.1
68144-1	50	32	71046	762475	S13	MJU	Mica-rich sandst.	0.00001	140.7
68144-1	51	32	71046	762475	S13	MJU	Sandst.	0.00001	141.8
68144-1	52	32	71046	762475	S21	MJU	Mudst.	0.00010	146.1
68144-1	53	32	71046	762475	S13	MJU	Sandst.	0.00001	148.0
68144-1	54	32	71046	762475	S21	MJU	Mudst.	0.00009	149.5
68144-1	55	32	71046	762475	S21	MJU	Mudst.	0.00006	152.0
68144-1	56	32	71046	762475	S21	MJU	Mudst.	0.00013	152.4
68144-1	57	32	71046	762475	S21	MJU	Sandst.	0.00001	155.4
68144-1	58	32	71046	762475	S13	MJU	Sandst.	0.00004	163.4
68144-1	59	32	71046	762475	S21	MJU	Dark mudst.	0.00011	165.8
68144-1	60	32	71046	762475	S21	MJU	Dark mudst.	0.00011	165.9
68144-1	61	32	71046	762475	S21	MJU	Dark mudst.	0.00026	166.5
68144-1	62	32	71046	762475	S21	MJU	Dark mudst.	0.00006	168.4
68144-1	63	32	71046	762475	S21	MJU	Dark mudst.	0.00050	169.7
68144-1	64	32	71046	762475	S21	MJU	Dark mudst.	0.00013	170.5
68144-1	65	32	71046	762475	M27	PLO	Kaolinite weathering	0.00009	171.9
68144-1	66	32	71046	762475	M27	PLO	Str.weathered gneiss	0.00010	172.6
68144-1	67	32	71046	762475	M27	PLO	Str weathered gneiss	0.00013	174.2
68144-1	68	32	71046	762475	M27	PLO	Weathered gneiss	0.00050	176.6
68144-1	69	32	71046	762475	M27	PLO	Weathered gneiss	0.00025	177.4
68144-1	70	32	71046	762475	M27	PLO	Weath. mang. gneiss	0.00029	178.6
68144-2	1	32	70945	762575	M23	LCR	Carb.cem. bed	0.00088	10.5
68144-2	2	32	70945	762575	S22	LCR	*Clayst.	0.00033	22.5
68144-2	3	32	70945	762575	S22	LCR	*Clayst.	0.00034	24.4
68144-2	4	32	70945	762575	M23	LCR	*Carbonate	0.00239	24.8
68144-2	5	32	70945	762575	M23	LCR	Yell. carb.cem. beds	0.00163	22.0
68144-2	6	32	70945	762575	M23	LCR	Yell. carb.cem. beds	0.00100	24.0
68144-2	7	32	70945	762575	S22	LCR	Clayst.	0.00022	30.0
68144-2	8	32	70945	762575	S22	LCR	Clayst.	0.00027	31.0
68144-2	9	32	70945	762575	S22	LCR	Clayst.	0.00030	32.0
68144-2	10	32	70945	762575	M23	LCR	Yell. carb.cem. beds	0.00320	36.8
68144-2	11	32	70945	762575	M23	LCR	Calcite cemented bed	0.00006	40.0
68144-2	12	32	70945	762575	S28	LCR	Siltst.	0.00019	45.0
68144-2	13	32	70945	762575	M23	LCR	White beds/carbonate	0.00015	47.0
68144-2	14	32	70945	762575	M23	LCR	Brownish carbonate	0.00163	63.0
68144-2	15	32	70945	762575	M23	LCR	Brownish carbonate	0.00125	64.7
68144-2	16	32	70945	762575	M23	UJU	Siderite	0.00137	70.0
68144-2	17	32	70945	762575	S22	UJU	Silty clayst.	0.00075	76.0
68144-2	18	32	70945	762575	S22	UJU	Silty clayst.(slip)	0.00112	95.9
68144-2	19	32	70945	762575	M23	UJU	Brown cement	0.00131	96.0
68144-2	20	32	70945	762575	S22	UJU	Clayst.	0.00014	99.0
68144-2	21	32	70945	762575	S22	UJU	Clayst.	0.00015	106.0
68144-2	22	32	70945	762575	M23	UJU	Br.lam.microfaults	0.00069	109.0
68144-2	23	32	70945	762575	M23	UJU	Cement?	0.00120	115.6
68144-2	24	32	70945	762575	S22	UJU	*Reference, clayst.	0.00015	117.7
68144-2	25	32	70945	762575	S22	UJU	*Ref.lam. clay/silt	0.00044	122.3
68144-2	26	32	70945	762575	M23	UJU	*Cem.clayst.microfa.	0.00159	122.4
68144-2	27	32	70945	762575	S22	UJU	*Ref., clay/silt	0.00041	127.6
68144-2	28	32	70945	762575	M23	UJU	*Yellowish cemented	0.00159	127.8
68144-2	29	32	70945	762575	M23	UJU	Yellowish cemented	0.00125	128.0
IK82-2	1	31	88030	734424	S28	LTR	Siltst.	0.00038	7.1
IK82-2	2	31	88030	734424	S28	LTR	Siltst.	0.00056	7.8
IK82-2	3	31	88030	734424	S21	LTR	Mudst.	0.00044	7.9
IK82-2	4	31	88030	734424	S21	LTR	Mudst. w. sand lam.	0.00044	8.5
IK82-2	5	31	88030	734424	S21	LTR	Mudst. w. sand lam.	0.00046	8.7
IK82-2	6	31	88030	734424	S28	LTR	Siltst.	0.00038	9.3
IK82-2	7	31	88030	734424	S28	LTR	Siltst.	0.00044	14.0
IK82-2	8	31	88030	734424	S28	LTR	Siltst.	0.00050	14.3
IK82-2	9	31	88030	734424	S13	LTR	Sandst. laminae	0.00069	15.0
IK82-2	10	31	88030	734424	S28	LTR	Siltst. w.sand lam.	0.00065	15.6
IK82-2	11	31	88030	734424	S13	LTR	Sandst. bed	0.00088	15.9
IK82-2	12	31	88030	734424	S28	LTR	Siltst.	0.00062	16.3
IK82-2	13	31	88030	734424	S13	LTR	Sandst. laminae	0.00038	16.3
IK82-2	14	31	88030	734424	S21	LTR	Mudst.	0.00040	20.0
IK82-2	15	31	88030	734424	S21	LTR	Mudst.	0.00038	20.5

Appendix B, page 7.

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
IK82-2	16	31	88030	734424	S21	LTR	Mudst.	0.00041	20.6
IK82-2	17	31	88030	734424	S21	LTR	Mudst.	0.00050	21.6
IK82-2	18	31	88030	734424	S28	LTR	Siltst./mudst	0.00038	21.9
IK82-2	19	31	88030	734424	S21	LTR	Mudst.	0.00044	23.0
IK82-4	1	31	86955	730385	S22	LJU	Red clayst. beds	0.00300	5.5
IK82-4	2	31	86955	730385	S21	LJU	Mudst.	0.00021	5.7
IK82-4	3	31	86955	730385	S21	LJU	Mudst.	0.00069	5.8
IK82-4	4	31	86955	730385	S21	LJU	Silty mudst.occ.sand	0.00200	6.7
IK82-4	5	31	86955	730385	S21	LJU	Mudst. occ.sand	0.00013	7.0
IK82-4	6	31	86955	730385	S13	LJU	Sandst. occ.granules	0.00081	7.5
IK82-4	7	31	86955	730385	S28	LJU	Sandy siltst. mottl.	0.00088	7.9
IK82-4	8	31	86955	730385	S28	LJU	Sandy silt, mottled	0.00150	8.0
IK82-4	9	31	86955	730385	S13	LJU	Sandst. mottled	0.00050	8.2
IK82-4	10	31	86955	730385	S13	LJU	Sandst. mottled	0.00025	8.3
IK82-4	11	31	86955	730385	S28	LJU	Siltst	0.00013	8.4
IK82-4	12	31	86955	730385	S21	LJU	Mudst.	0.00019	8.6
IK82-4	13	31	86955	730385	S13	LJU	Sandst.	0.00019	9.2
IK82-4	14	31	86955	730385	S28	LJU	Siltst.	0.00006	9.5
IK82-4	15	31	86955	730385	S13	LJU	Sandst. red	0.00008	9.7
IK82-4	16	31	86955	730385	S00	LJU	Conglomerate	0.00006	9.8
IK82-4	17	31	86955	730385	S21	LJU	Sandy mudst.	0.00005	10.5
IK82-8	1	31	83856	723914	S13	PAL	Sandst.	0.00013	19.0
IK82-8B	1	31	83588	723926	S61	PLE	Till	0.00038	4.0
IK82-8B	2	31	83588	723926	S61	PLE	Till	0.00025	4.3
IK82-8B	3	31	83588	723926	S61	PLE	Till	0.00031	4.8
IK82-8B	4	31	83588	723926	S61	PLE	Till	0.00033	5.2
IK82-8B	5	31	83588	723926	S61	PLE	Till	0.00038	5.3
IK82-8B	6	31	83588	723926	S61	PLE	Till	0.00021	6.0
IK82-8B	7	31	83588	723926	S61	PLE	Till	0.00019	6.3
IK82-8B	8	31	83588	723926	S61	PLE	Till	0.00015	7.6
IK82-8B	9	31	83588	723926	S61	PLE	Till	0.00025	8.5
IK82-8B	10	31	83588	723926	S61	PLE	Till	0.00030	9.0
IK82-8B	11	31	83588	723926	S61	PLE	Till	0.00022	10.1
IK82-8B	12	31	83588	723926	S61	PLE	Till	0.00017	10.4
IK82-8B	13	31	83588	723926	S61	PLE	Till	0.00025	11.2
IK82-8B	14	31	83588	723926	S61	PLE	Till	0.00029	11.4
IK82-8B	15	31	83588	723926	S61	PLE	Till	0.00031	13.2
IK82-8B	16	31	83588	723926	S61	PLE	Till	0.00025	13.3
IK82-8B	17	31	83588	723926	S22	PAL	Clayst.	0.00021	14.3
IK82-8B	18	31	83588	723926	S22	PAL	Clayst.	0.00024	15.6
IK82-8B	19	31	83588	723926	S22	PAL	Clayst.	0.00021	16.7
IK82-8B	20	31	83588	723926	S22	PAL	Clayst.	0.00017	16.9
IK82-10	1	31	85301	724077	S13	MJU	Sandst.	0.00006	3.0
IK82-10	2	31	85301	724077	S28	MJU	Sandy siltst	0.00013	3.2
IK82-10	3	31	85301	724077	S21	MJU	Mudst.	0.00013	3.5
IK82-10	4	31	85301	724077	S28	MJU	Siltst.	0.00021	6.9
IK82-10	5	31	85301	724077	S11	MJU	Downfall, quartzite	0.00001	7.1
IK82-10	6	31	85301	724077	S13	MJU	Rusty weath.congl.	0.00200	9.0
IK82-10	7	31	85301	724077	S13	MJU	Sandst. light	0.00006	9.6
IK82-10	8	31	85301	724077	S13	MJU	Sandst.	0.00006	10.0
IK82-10	9	31	85301	724077	S13	MJU	Sandst.	0.00005	10.6
IK82-11	1	31	85338	724089	S13	MJU	Sandst.	0.00004	2.0
IK82-11	2	31	85338	724089	S13	MJU	Sandst.	0.00002	4.1
IK82-11	3	31	85338	724089	S13	MJU	Sandst. occ.granules	0.00004	9.3
IK82-11	4	31	85338	724089	S13	MJU	Sandst.	0.00004	10.6
B82-180	1	32	55201	742986	S63	PLE	Sand	0.00106	0.1
B82-180	2	32	55201	742986	S66	PLE	Clay	0.00125	0.2
B82-180	3	32	55201	742986	S66	PLE	Clay	0.00187	0.5
B82-180	4	32	55201	742986	S66	PLE	Clay	0.00137	0.7
B82-180	5	32	55201	742986	S66	PLE	Clay	0.00213	1.0
B82-180	6	32	55201	742986	S66	PLE	Clay	0.00225	1.2
B82-180	7	32	55201	742986	S66	PLE	Clay	0.00250	1.3
B82-180	8	32	55201	742986	S66	PLE	Clay	0.00175	1.6
B82-180	9	32	55201	742986	S66	PLE	Clay	0.00163	1.7
B82-184	1	32	57485	741150	S66	PLE	Clay	0.00038	0.2
B82-184	2	32	57485	741150	S66	PLE	Clay	0.00019	0.2
B82-184	3	32	57485	741150	S66	PLE	Clay	0.00038	0.3
B82-184	4	32	57485	741150	S66	PLE	Clay	0.00027	0.4

Appendix B, page 8.

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
B82-184	5	32	57485	741150	S63	OLI	Sand	0.00015	0.9
B82-185	1	32	57619	740714	S66	PLE	Clay	0.00031	0.2
B82-185	2	32	57619	740714	S63	PLE	Sand	0.00013	0.4
B82-185	3	32	57619	740714	S66	OLI	Clay	0.00038	0.9
B82-185	4	32	57619	740714	S63	OLI	Sand	0.00020	1.1
B82-185	5	32	57619	740714	S63	OLI	Sand	0.00013	1.2
B82-185	6	32	57619	740714	S63	OLI	Sand	0.00013	1.6
B82-186	1	32	57203	740157	S66	PLE	Clay	0.00069	0.4
B82-186	2	32	57203	740157	S63	OLI	Sand	0.00081	0.7
B82-189	1	32	56900	739164	S66	PLE	Clay	0.00062	0.2
B82-189	2	32	56900	739164	S63	PLE	Sand	0.00052	0.2
B82-189	3	32	56900	739164	S63	OLI	Sand	0.00069	0.4
B82-190	1	32	58164	739162	S64	PLE	Silt	0.00062	0.2
B82-190	2	32	58164	739162	S66	PLE	Clay	0.00052	0.5
B82-190	3	32	58164	739162	S66	PLE	Clay	0.00050	0.8
B82-190	4	32	58164	739162	S66	PLE	Clay	0.00137	1.0
B82-190	5	32	58164	739162	S66	PLE	Clay	0.00062	2.3
B82-190	6	32	58164	739162	S66	PLE	Clay	0.00075	2.7
B82-190	7	32	58164	739162	S63	OLI	Sand	0.00006	2.9
B82-192	1	32	57569	738150	S64	PLE	Silt	0.00125	0.2
B82-192	2	32	57569	738150	S66	PLE	Clay	0.00019	0.4
66119-1	1	32	62593	736085	S13	LTR		0.00013	11.1
66119-1	2	32	62593	736085	S13	LTR		0.00013	11.7
66119-1	3	32	62593	736085	S28	LTR		0.00027	12.3
66119-1	4	32	62593	736085	S13	LTR		0.00015	12.9
66119-1	5	32	62593	736085	S28	LTR		0.00021	13.4
66119-1	6	32	62593	736085	S13	LTR		0.00013	13.7
66119-1	7	32	62593	736085	S13	LTR		0.00021	14.5
66119-1	8	32	62593	736085	S13	LTR		0.00013	15.3
66119-1	9	32	62593	736085	S13	LTR		0.00013	16.1
66119-1	10	32	62593	736085	S13	LTR		0.00019	16.9
66119-1	11	32	62593	736085	S13	LTR		0.00013	17.2
66119-1	12	32	62593	736085	S28	LTR		0.00024	17.4
66119-1	13	32	62593	736085	S13	LTR		0.00019	18.0
66119-1	14	32	62593	736085	S13	LTR		0.00019	18.8
66119-1	15	32	62593	736085	S13	LTR		0.00014	19.6
66119-1	16	32	62593	736085	S13	LTR		0.00013	20.4
66119-1	17	32	62593	736085	S28	LTR		0.00014	21.2
66119-1	18	32	62593	736085	S13	LTR		0.00017	22.0
66119-1	19	32	62593	736085	S13	LTR		0.00013	22.6
66119-1	20	32	62593	736085	S13	LTR		0.00010	22.8
66119-1	21	32	62593	736085	S28	LTR		0.00025	23.0
66119-1	22	32	62593	736085	S13	LTR		0.00015	23.5
66119-1	23	32	62593	736085	S13	LTR		0.00015	23.9
66119-1	24	32	62593	736085	S28	LTR		0.00024	24.8
66119-1	25	32	62593	736085	S13	LTR		0.00013	25.4
66119-1	26	32	62593	736085	S13	LTR		0.00014	26.0
66119-1	27	32	62593	736085	S13	LTR		0.00014	26.8
66119-1	28	32	62593	736085	S28	LTR		0.00031	27.7
66119-1	29	32	62593	736085	S28	LTR		0.00025	28.4
66119-1	30	32	62593	736085	S13	LTR		0.00022	29.1
66119-1	31	32	62593	736085	S28	LTR		0.00025	29.3
66119-1	32	32	62593	736085	S13	LTR		0.00015	29.7
66119-1	33	32	62593	736085	S28	LTR		0.00035	30.0
66119-1	34	32	62593	736085	S13	LTR		0.00017	30.6
66119-1	35	32	62593	736085	S28	LTR		0.00025	31.5
66119-1	36	32	62593	736085	S13	LTR		0.00022	31.9
66119-1	37	32	62593	736085	S13	LTR		0.00015	32.6
66119-1	38	32	62593	736085	S28	LTR		0.00030	32.9
66119-1	39	32	62593	736085	S13	LTR		0.00024	33.4
66119-1	40	32	62593	736085	S28	LTR		0.00020	33.6
66119-1	41	32	62593	736085	S13	LTR		0.00020	34.0
66119-1	42	32	62593	736085	S13	LTR		0.00017	34.4
66119-1	43	32	62593	736085	S13	LTR		0.00020	35.0
66119-1	44	32	62593	736085	S28	LTR		0.00025	35.2
66119-1	45	32	62593	736085	S13	LTR		0.00013	35.7
66119-1	46	32	62593	736085	S28	LTR		0.00020	36.2
66119-1	47	32	62593	736085	S13	LTR		0.00015	36.5

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119-1	48	32	62593	736085	S28	LTR		0.00020	36.5
66119-1	49	32	62593	736085	S13	LTR		0.00017	37.3
66119-1	50	32	62593	736085	S28	LTR		0.00024	37.6
66119-1	51	32	62593	736085	S13	LTR		0.00015	38.0
66119-1	52	32	62593	736085	S28	LTR		0.00019	38.4
66119-1	53	32	62593	736085	S13	LTR		0.00015	38.8
66119-1	54	32	62593	736085	S28	LTR		0.00025	39.0
66119-1	55	32	62593	736085	S13	LTR		0.00017	39.6
66119-1	56	32	62593	736085	S28	LTR		0.00020	39.7
66119-1	57	32	62593	736085	S28	LTR		0.00024	40.2
66119-1	58	32	62593	736085	S13	LTR		0.00014	41.0
66119-1	59	32	62593	736085	S28	LTR		0.00020	41.2
66119-1	60	32	62593	736085	S28	LTR		0.00019	41.8
66119-1	61	32	62593	736085	S28	LTR		0.00019	42.4
66119-1	62	32	62593	736085	S13	LTR		0.00013	42.6
66119-1	63	32	62593	736085	S28	LTR		0.00021	43.2
66119-1	64	32	62593	736085	S13	LTR		0.00024	43.7
66119-1	65	32	62593	736085	S28	LTR		0.00022	44.0
66119-1	66	32	62593	736085	S13	LTR		0.00008	44.6
66119-1	67	32	62593	736085	S28	LTR		0.00019	44.8
66119-1	68	32	62593	736085	S13	LTR		0.00006	45.5
66119-1	69	32	62593	736085	S28	LTR		0.00013	45.8
66119-1	70	32	62593	736085	S28	LTR		0.00014	46.2
66119-1	71	32	62593	736085	S13	LTR		0.00009	46.8
66119-1	72	32	62593	736085	S28	LTR		0.00013	47.0
66119-1	73	32	62593	736085	S28	LTR		0.00013	47.3
66119-1	74	32	62593	736085	S13	LTR		0.00013	47.9
66119-1	75	32	62593	736085	S28	LTR		0.00025	48.2
66119-1	76	32	62593	736085	S13	LTR		0.00017	49.0
66119-1	77	32	62593	736085	S28	LTR		0.00025	49.3
66119-1	78	32	62593	736085	S13	LTR		0.00011	49.5
66119-1	79	32	62593	736085	S13	LTR		0.00024	50.5
66119-1	80	32	62593	736085	S13	LTR		0.00011	51.4
66119-1	81	32	62593	736085	S28	LTR		0.00030	52.1
66119-1	82	32	62593	736085	S13	LTR		0.00020	52.6
66119-1	83	32	62593	736085	S13	LTR		0.00020	53.6
66119-1	84	32	62593	736085	S13	LTR		0.00030	54.0
66119-1	85	32	62593	736085	S28	LTR		0.00038	54.3
66119-1	86	32	62593	736085	S13	LTR		0.00017	54.8
66119-1	87	32	62593	736085	S28	LTR		0.00022	55.3
66119-1	88	32	62593	736085	S13	LTR		0.00024	55.6
66119-1	89	32	62593	736085	S28	LTR		0.00029	55.8
66119-1	90	32	62593	736085	S28	LTR		0.00025	56.2
66119-1	91	32	62593	736085	S28	LTR		0.00026	56.8
66119-1	92	32	62593	736085	S13	LTR		0.00024	57.6
66119-1	93	32	62593	736085	S28	LTR		0.00025	58.0
66119-1	94	32	62593	736085	S28	LTR		0.00031	58.5
66119-1	95	32	62593	736085	S13	LTR		0.00017	59.0
66119-1	96	32	62593	736085	S28	LTR		0.00031	59.2
66119-1	97	32	62593	736085	S13	LTR		0.00015	59.5
66119-1	98	32	62593	736085	S28	LTR		0.00021	59.8
66119-1	99	32	62593	736085	S13	LTR		0.00021	60.1
66119-1	100	32	62593	736085	S28	LTR		0.00026	60.6
66119-1	101	32	62593	736085	S28	LTR		0.00015	61.4
66119-1	102	32	62593	736085	S28	LTR		0.00021	62.1
66119-1	103	32	62593	736085	S28	LTR		0.00027	63.2
66119-1	104	32	62593	736085	S28	LTR		0.00029	64.0
66119-1	105	32	62593	736085	S28	LTR		0.00021	64.8
66119-1	106	32	62593	736085	S28	LTR		0.00025	65.6
66119-1	107	32	62593	736085	S28	LTR		0.00004	66.3
66119-1	108	32	62593	736085	S28	LTR		0.00031	67.0
66119-1	109	32	62593	736085	S13	LTR		0.00014	67.5
66119-1	110	32	62593	736085	S13	LTR		0.00014	68.3
66119-1	111	32	62593	736085	S13	LTR		0.00014	68.9
66119-1	112	32	62593	736085	S28	LTR		0.00038	69.4
66119-1	113	32	62593	736085	S13	LTR		0.00013	70.0
66119-1	114	32	62593	736085	S28	LTR		0.00027	70.4
66119-1	115	32	62593	736085	S13	LTR		0.00013	70.8

Appendix B, page 10.

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	1116	32	62593	736085	S13	LTR		0.00013	71.4
66119	1117	32	62593	736085	S13	LTR		0.00019	72.0
66119	1118	32	62593	736085	S13	LTR		0.00014	72.8
66119	1119	32	62593	736085	S13	LTR		0.00015	73.6
66119	1120	32	62593	736085	S13	LTR		0.00015	74.4
66119	1121	32	62593	736085	S13	LTR		0.00013	74.9
66119	1122	32	62593	736085	S13	LTR		0.00009	75.7
66119	1123	32	62593	736085	S13	LTR		0.00013	76.5
66119	1124	32	62593	736085	S28	LTR		0.00034	76.9
66119	1125	32	62593	736085	S13	LTR		0.00015	77.2
66119	1126	32	62593	736085	S13	LTR		0.00013	77.7
66119	1127	32	62593	736085	S13	LTR		0.00014	78.5
66119	1128	32	62593	736085	S28	LTR		0.00022	79.1
66119	1129	32	62593	736085	S13	LTR		0.00013	79.3
66119	1130	32	62593	736085	S28	LTR		0.00025	79.7
66119	1131	32	62593	736085	S28	LTR		0.00031	80.0
66119	1132	32	62593	736085	S13	LTR		0.00016	80.5
66119	1133	32	62593	736085	S13	LTR		0.00009	80.8
66119	1134	32	62593	736085	S13	LTR		0.00013	81.6
66119	1135	32	62593	736085	S13	LTR		0.00015	82.4
66119	1136	32	62593	736085	S28	LTR		0.00025	83.0
66119	1137	32	62593	736085	S13	LTR		0.00013	83.6
66119	1138	32	62593	736085	S13	LTR		0.00009	84.4
66119	1139	32	62593	736085	S13	LTR		0.00025	85.2
66119	1140	32	62593	736085	S13	LTR		0.00025	86.0
66119	1141	32	62593	736085	S28	LTR		0.00025	86.2
66119	1142	32	62593	736085	S13	LTR		0.00013	86.9
66119	1143	32	62593	736085	S13	LTR		0.00017	87.6
66119	1144	32	62593	736085	S28	LTR		0.00031	88.4
66119	1145	32	62593	736085	S28	LTR		0.00027	88.8
66119	1146	32	62593	736085	S13	LTR		0.00014	89.0
66119	1147	32	62593	736085	S13	LTR		0.00013	89.7
66119	1148	32	62593	736085	S13	LTR		0.00026	90.5
66119	1149	32	62593	736085	S28	LTR		0.00027	91.6
66119	1150	32	62593	736085	S13	LTR		0.00011	92.0
66119	1151	32	62593	736085	S13	LTR		0.00019	92.7
66119	1152	32	62593	736085	S13	LTR		0.00013	93.5
66119	1153	32	62593	736085	S28	LTR		0.00026	94.3
66119	1154	32	62593	736085	S28	LTR		0.00031	95.0
66119	1155	32	62593	736085	S28	LTR		0.00020	98.3
66119	1156	32	62593	736085	S28	LTR		0.00027	98.6
66119	1157	32	62593	736085	S13	LTR		0.00013	98.9
66119	1158	32	62593	736085	S13	LTR		0.00014	99.8
66119	1159	32	62593	736085	S28	LTR		0.00019	100.7
66119	1160	32	62593	736085	S13	LTR		0.00002	101.0
66119	1161	32	62593	736085	S28	LTR		0.00005	101.7
66119	1162	32	62593	736085	S13	LTR		0.00020	102.2
66119	1163	32	62593	736085	S13	LTR		0.00015	103.1
66119	1164	32	62593	736085	S28	LTR		0.00034	103.4
66119	1165	32	62593	736085	S13	LTR		0.00008	103.7
66119	1166	32	62593	736085	S28	LTR		0.00027	104.5
66119	1167	32	62593	736085	S28	LTR		0.00031	105.3
66119	1168	32	62593	736085	S28	LTR		0.00025	106.1
66119	1169	32	62593	736085	S28	LTR		0.00025	107.0
66119	1170	32	62593	736085	S28	LTR		0.00021	107.8
66119	1171	32	62593	736085	S13	LTR		0.00025	108.0
66119	1172	32	62593	736085	S28	LTR		0.00022	108.3
66119	1173	32	62593	736085	S13	LTR		0.00020	108.7
66119	1174	32	62593	736085	S28	LTR		0.00029	109.5
66119	1175	32	62593	736085	S28	LTR		0.00024	110.3
66119	1176	32	62593	736085	S13	LTR		0.00022	110.6
66119	1177	32	62593	736085	S28	LTR		0.00020	111.1
66119	1178	32	62593	736085	S28	LTR		0.00033	111.7
66119	1179	32	62593	736085	S28	LTR		0.00025	112.5
66119	1180	32	62593	736085	S28	LTR		0.00029	113.3
66119	1181	32	62593	736085	S28	LTR		0.00030	114.1
66119	1182	32	62593	736085	S28	LTR		0.00024	114.7
66119	1183	32	62593	736085	S28	LTR		0.00026	115.5

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	1184	32	62593	736085	S28	LTR		0.00031	116.3
66119	1185	32	62593	736085	S28	LTR		0.00025	117.1
66119	1186	32	62593	736085	S28	LTR		0.00022	117.7
66119	1187	32	62593	736085	S28	LTR		0.00020	118.5
66119	1188	32	62593	736085	S28	LTR		0.00019	119.3
66119	1189	32	62593	736085	S28	LTR		0.00038	120.1
66119	1190	32	62593	736085	S28	LTR		0.00021	150.4
66119	1191	32	62593	736085	S28	LTR		0.00025	151.2
66119	1192	32	62593	736085	S28	LTR		0.00019	152.0
66119	1193	32	62593	736085	S28	LTR		0.00015	152.8
66119	1194	32	62593	736085	S28	LTR		0.00020	153.3
66119	1195	32	62593	736085	S28	LTR		0.00025	154.1
66119	1196	32	62593	736085	S28	LTR		0.00019	154.9
66119	1197	32	62593	736085	S28	LTR		0.00019	155.6
66119	1198	32	62593	736085	S13	LTR		0.00013	156.6
66119	1199	32	62593	736085	S13	LTR		0.00014	156.4
66119	1200	32	62593	736085	S28	LTR		0.00025	157.2
66119	1201	32	62593	736085	S28	LTR		0.00025	158.0
66119	1202	32	62593	736085	S28	LTR		0.00019	158.8
66119	1203	32	62593	736085	S28	LTR		0.00013	159.2
66119	1204	32	62593	736085	S28	LTR		0.00014	160.0
66119	1205	32	62593	736085	S28	LTR		0.00019	160.8
66119	1206	32	62593	736085	S28	LTR		0.00019	161.6
66119	1207	32	62593	736085	S28	LTR		0.00013	162.3
66119	1208	32	62593	736085	S28	LTR		0.00025	163.1
66119	1209	32	62593	736085	S28	LTR		0.00019	163.9
66119	1210	32	62593	736085	S28	LTR		0.00013	164.7
66119	1211	32	62593	736085	S28	LTR		0.00020	165.2
66119	1212	32	62593	736085	S28	LTR		0.00015	166.0
66119	1213	32	62593	736085	S28	LTR		0.00013	166.8
66119	1214	32	62593	736085	S28	LTR		0.00009	166.6
66119	1215	32	62593	736085	S28	LTR		0.00019	167.8
66119	1216	32	62593	736085	S28	LTR		0.00022	168.3
66119	1217	32	62593	736085	S28	LTR		0.00025	169.1
66119	1218	32	62593	736085	S28	LTR		0.00013	168.7
66119	1219	32	62593	736085	S13	LTR		0.00025	169.5
66119	1220	32	62593	736085	S28	LTR		0.00013	170.6
66119	1221	32	62593	736085	S13	LTR		0.00005	171.4
66119	1222	32	62593	736085	S13	LTR		0.00010	171.8
66119	1223	32	62593	736085	S28	LTR		0.00020	172.1
66119	1224	32	62593	736085	S28	LTR		0.00026	172.8
66119	1225	32	62593	736085	S13	LTR		0.00025	173.0
66119	1226	32	62593	736085	S13	LTR		0.00022	173.8
66119	1227	32	62593	736085	S13	LTR		0.00019	174.3
66119	1228	32	62593	736085	S13	LTR		0.00008	175.1
66119	1229	32	62593	736085	S28	LTR		0.00013	175.8
66119	1230	32	62593	736085	S28	LTR		0.00009	176.6
66119	1231	32	62593	736085	S13	LTR		0.00015	177.4
66119	1232	32	62593	736085	S13	LTR		0.00005	177.2
66119	1233	32	62593	736085	S28	LTR		0.00011	177.3
66119	1234	32	62593	736085	S28	LTR		0.00013	178.5
66119	1235	32	62593	736085	S13	LTR		0.00009	178.3
66119	1236	32	62593	736085	S28	LTR		0.00019	178.4
66119	1237	32	62593	736085	S13	LTR		0.00008	178.5
66119	1238	32	62593	736085	S28	LTR		0.00019	179.7
66119	1239	32	62593	736085	S28	LTR		0.00019	179.3
66119	1240	32	62593	736085	S13	LTR		0.00013	179.5
66119	1241	32	62593	736085	S28	LTR		0.00013	180.3
66119	1242	32	62593	736085	S13	LTR		0.00006	181.4
66119	1243	32	62593	736085	S13	LTR		0.00006	181.6
66119	1244	32	62593	736085	S28	LTR		0.00020	182.0
66119	1245	32	62593	736085	S28	LTR		0.00013	182.8
66119	1246	32	62593	736085	S28	LTR		0.00013	183.4
66119	1247	32	62593	736085	S28	LTR		0.00010	184.2
66119	1248	32	62593	736085	S28	LTR		0.00016	184.8
66119	1249	32	62593	736085	S28	LTR		0.00022	186.3
66119	1250	32	62593	736085	S13	LTR		0.00021	187.1
66119	1251	32	62593	736085	S28	LTR		0.00019	187.2

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119-1252		32	62593	736085	S13	LTR		0.00013	188.0
66119-1253		32	62593	736085	S28	LTR		0.00011	188.1
66119-1254		32	62593	736085	S13	LTR		0.00006	188.3
66119-1255		32	62593	736085	S28	LTR		0.00006	188.4
66119-1256		32	62593	736085	S13	LTR		0.00006	188.9
66119-1257		32	62593	736085	S21	UPE		0.00044	204.5
66119-1258		32	62593	736085	S21	UPE		0.00031	205.3
66119-1259		32	62593	736085	S21	UPE		0.00031	206.1
66119-1260		32	62593	736085	S21	UPE		0.00048	206.9
66119-1261		32	62593	736085	S21	UPE		0.00034	207.5
66119-1262		32	62593	736085	S21	UPE		0.00050	208.3
66119-1263		32	62593	736085	S21	UPE		0.00029	209.1
66119-1264		32	62593	736085	S21	UPE		0.00031	209.9
66119-1265		32	62593	736085	S21	UPE		0.00014	210.4
66119-1266		32	62593	736085	S21X	UPE		0.00069	210.5
66119-1267		32	62593	736085	S21	UPE		0.00044	210.7
66119-1268		32	62593	736085	S21X	UPE		0.00069	211.0
66119-1269		32	62593	736085	S21	UPE		0.00025	211.5
66119-1270		32	62593	736085	S21X	UPE		0.00031	211.7
66119-1271		32	62593	736085	S21	UPE		0.00031	212.3
66119-1272		32	62593	736085	S21X	UPE		0.00062	212.8
66119-1273		32	62593	736085	S21	UPE		0.00026	213.1
66119-1274		32	62593	736085	S21	UPE		0.00027	214.2
66119-1275		32	62593	736085	S21X	UPE		0.00076	214.3
66119-1276		32	62593	736085	S21	UPE		0.00034	215.0
66119-1277		32	62593	736085	S21X	UPE		0.00081	215.4
66119-1278		32	62593	736085	S21	UPE		0.00038	215.8
66119-1279		32	62593	736085	S21	UPE		0.00029	216.2
66119-1280		32	62593	736085	S21	UPE		0.00022	216.4
66119-1281		32	62593	736085	S21	UPE		0.00044	217.1
66119-1282		32	62593	736085	S21X	UPE		0.00085	217.3
66119-1283		32	62593	736085	S21	UPE		0.00025	217.7
66119-1284		32	62593	736085	S21	UPE		0.00015	217.9
66119-1285		32	62593	736085	S21	UPE		0.00038	219.2
66119-1286		32	62593	736085	S21	UPE		0.00031	220.0
66119-1287		32	62593	736085	S21	UPE		0.00038	220.8
66119-1288		32	62593	736085	S21	UPE		0.00025	221.6
66119-1289		32	62593	736085	S21	UPE		0.00038	221.7
66119-1290		32	62593	736085	S21	UPE		0.00019	222.5
66119-1291		32	62593	736085	S21	UPE		0.00013	223.4
66119-1292		32	62593	736085	S21	UPE		0.00027	224.0
66119-1293		32	62593	736085	S21X	UPE		0.00013	224.7
66119-1294		32	62593	736085	S21	UPE		0.00005	225.2
66119-1295		32	62593	736085	S21	UPE		0.00019	225.6
66119-1296		32	62593	736085	S21	UPE		0.00019	226.6
66119-1297		32	62593	736085	S21	UPE		0.00022	227.4
66119-1298		32	62593	736085	S21	UPE		0.00009	227.9
66119-1299		32	62593	736085	S21	UPE		0.00013	228.4
66119-1300		32	62593	736085	S21	UPE		0.00025	228.6
66119-1301		32	62593	736085	S21	UPE		0.00022	229.4
66119-1302		32	62593	736085	S21	UPE		0.00039	230.8
66119-1303		32	62593	736085	S21	UPE		0.00015	231.1
66119-1304		32	62593	736085	S21	UPE		0.00013	231.9
66119-1305		32	62593	736085	S21	UPE		0.00024	232.7
66119-1306		32	62593	736085	S21	UPE		0.00025	233.4
66119-1307		32	62593	736085	S21	UPE		0.00025	234.1
66119-1308		32	62593	736085	S21	UPE		0.00009	235.1
66119-1309		32	62593	736085	S21	UPE		0.00013	235.8
66119-1310		32	62593	736085	S21	UPE		0.00019	236.4
66119-1311		32	62593	736085	S21	UPE		0.00013	237.2
66119-1312		32	62593	736085	S21	UPE		0.00020	238.1
66119-1313		32	62593	736085	S21	UPE		0.00016	238.7
66119-1314		32	62593	736085	S21	UPE		0.00009	239.1
66119-1315		32	62593	736085	S21	UPE		0.00024	240.0
66119-1316		32	62593	736085	S28	LTR		0.00044	240.9
66119-1317		32	62593	736085	S28	UPE		0.00010	241.3
66119-1318		32	62593	736085	S28	UPE		0.00010	242.5
66119-1319		32	62593	736085	S28	UPE		0.00006	243.5

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	1320	32	62593	736085	S28	UPE		0.00013	244.3
66119	1321	32	62593	736085	S28	UPE		0.00020	245.1
66119	1322	32	62593	736085	S28	UPE		0.00025	245.5
66119	1323	32	62593	736085	S21	UPE		0.00038	246.2
66119	1324	32	62593	736085	S21	UPE		0.00031	247.0
66119	1325	32	62593	736085	S21	UPE		0.00031	247.7
66119	1326	32	62593	736085	S21	UPE		0.00025	248.6
66119	1327	32	62593	736085	S21	UPE		0.00025	249.1
66119	1328	32	62593	736085	S21	UPE		0.00025	249.9
66119	1329	32	62593	736085	S21	UPE		0.00025	250.7
66119	1330	32	62593	736085	S21	UPE		0.00025	251.6
66119	1331	32	62593	736085	S21	UPE		0.00024	252.4
66119	1332	32	62593	736085	S21	UPE		0.00022	253.2
66119	1333	32	62593	736085	S21	UPE		0.00019	254.0
66119	1334	32	62593	736085	S28	UPE		0.00017	254.2
66119	1335	32	62593	736085	S28	UPE		0.00015	255.3
66119	1336	32	62593	736085	S28	UPE		0.00015	256.0
66119	1337	32	62593	736085	S28	UPE		0.00013	256.6
66119	1338	32	62593	736085	S28	UPE		0.00013	257.6
66119	1339	32	62593	736085	S28	UPE		0.00013	259.1
66119	1340	32	62593	736085	S28	UPE		0.00015	259.7
66119	1341	32	62593	736085	S28	UPE		0.00013	260.5
66119	1342	32	62593	736085	S28	UPE		0.00006	260.1
66119	1343	32	62593	736085	S13	UPE		0.00002	260.2
66119	1344	32	62593	736085	S28	UPE		0.00015	261.7
66119	1345	32	62593	736085	S28	UPE		0.00006	262.5
66119	1346	32	62593	736085	S28	UPE		0.00014	263.3
66119	1347	32	62593	736085	S28	UPE		0.00015	263.1
66119	1348	32	62593	736085	S28	UPE		0.00020	264.0
66119	1349	32	62593	736085	S28	UPE		0.00013	265.4
66119	1350	32	62593	736085	S28	UPE		0.00013	266.0
66119	1351	32	62593	736085	S13	UPE		0.00006	266.5
66119	1352	32	62593	736085	S28	UPE		0.00019	267.3
66119	1353	32	62593	736085	S13	UPE		0.00005	268.1
66119	1354	32	62593	736085	S13	UPE		0.00006	269.0
66119	1355	32	62593	736085	S13	UPE		0.00006	296.6
66119	1356	32	62593	736085	S13	UPE		0.00001	270.5
66119	1357	32	62593	736085	S13	UPE		0.00001	271.4
66119	1358	32	62593	736085	S13	UPE		0.00009	272.3
66119	1359	32	62593	736085	S13	UPE		0.00001	272.7
66119	1360	32	62593	736085	S00	UPE		0.00005	273.5
66119	1361	32	62593	736085	S21	UPE		0.00006	274.4
66119	1362	32	62593	736085	S21	UPE		0.00006	275.2
66119	1363	32	62593	736085	S21	UPE		0.00027	276.0
66119	1364	32	62593	736085	S21	UPE		0.00025	276.8
66119	1365	32	62593	736085	S21	UPE		0.00027	277.3
66119	1366	32	62593	736085	S21	UPE		0.00035	278.1
66119	1367	32	62593	736085	S21	UPE		0.00031	278.6
66119	1368	32	62593	736085	S21	UPE		0.00026	279.2
66119	1369	32	62593	736085	S21	UPE		0.00036	280.0
66119	1370	32	62593	736085	S21	UPE		0.00025	281.4
66119	1371	32	62593	736085	S28	UPE		0.00025	281.2
66119	1372	32	62593	736085	S28	UPE		0.00019	281.5
66119	1373	32	62593	736085	S28	UPE		0.00027	283.0
66119	1374	32	62593	736085	S28	UPE		0.00025	283.5
66119	1375	32	62593	736085	S28	UPE		0.00019	284.3
66119	1376	32	62593	736085	S28	UPE		0.00013	285.4
66119	1377	32	62593	736085	S13	UPE		0.00013	286.2
66119	1378	32	62593	736085	S13	UPE		0.00008	286.9
66119	1379	32	62593	736085	S28	UPE		0.00025	287.5
66119	1380	32	62593	736085	S13	UPE		0.00009	287.6
66119	1381	32	62593	736085	S28	UPE		0.00014	288.3
66119	1382	32	62593	736085	S13	UPE		0.00006	289.1
66119	1383	32	62593	736085	S28	UPE		0.00019	290.0
66119	1384	32	62593	736085	S28	UPE		0.00013	290.8
66119	1385	32	62593	736085	S28	UPE		0.00013	291.2
66119	1386	32	62593	736085	S28	UPE		0.00013	292.0
66119	1387	32	62593	736085	S28	UPE		0.00019	292.9

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	1388	32	62593	736085	S28	UPE		0.00019	293.7
66119	1389	32	62593	736085	S28	UPE		0.00021	294.1
66119	1390	32	62593	736085	S28	UPE		0.00020	295.0
66119	1391	32	62593	736085	S13	UPE		0.00006	295.8
66119	1392	32	62593	736085	S28	UPE		0.00021	296.6
66119	1393	32	62593	736085	S28	UPE		0.00011	297.1
66119	1394	32	62593	736085	S13	UPE		0.00006	298.0
66119	1395	32	62593	736085	S21	UPE		0.00016	298.9
66119	1396	32	62593	736085	S13	UPE		0.00001	299.7
66119	1397	32	62593	736085	S21	UPE		0.00019	300.3
66119	1398	32	62593	736085	S21	UPE		0.00001	301.1
66119	1399	32	62593	736085	S28	UPE		0.00019	301.2
66119	1400	32	62593	736085	S13	UPE		0.00002	302.0
66119	1401	32	62593	736085	S13	UPE		0.00001	302.5
66119	1402	32	62593	736085	S28	UPE		0.00019	302.7
66119	1403	32	62593	736085	S13	UPE		0.00004	303.4
66119	1404	32	62593	736085	S13	UPE		0.00002	304.1
66119	1405	32	62593	736085	S13	UPE		0.00002	304.7
66119	1406	32	62593	736085	S28	UPE		0.00015	304.8
66119	1407	32	62593	736085	S13	UPE		0.00001	305.7
66119	1408	32	62593	736085	S13	UPE		0.00004	306.3
66119	1409	32	62593	736085	S28	UPE		0.00013	307.1
66119	1410	32	62593	736085	S28	UPE		0.00013	307.9
66119	1411	32	62593	736085	S13	UPE		0.00002	308.7
66119	1412	32	62593	736085	S13	UPE		0.00009	309.4
66119	1413	32	62593	736085	S13	UPE		0.00009	310.2
66119	1414	32	62593	736085	S28	UPE		0.00009	311.0
66119	1415	32	62593	736085	S13	UPE		0.00001	311.8
66119	1416	32	62593	736085	S13	UPE		0.00006	312.1
66119	1417	32	62593	736085	S13	UPE		0.00010	312.9
66119	1418	32	62593	736085	S13	UPE		-0.00002	313.6
66119	1419	32	62593	736085	S13	UPE		-0.00004	314.4
66119	1420	32	62593	736085	S13	UPE		0.00001	314.8
66119	1421	32	62593	736085	S13	UPE		0.00006	315.6
66119	1422	32	62593	736085	S13	UPE		0.00006	316.4
66119	1423	32	62593	736085	S13	UPE		0.00006	317.2
66119	1424	32	62593	736085	S13	UPE		0.00006	317.9
66119	1425	32	62593	736085	S13	UPE		0.00002	318.4
66119	1426	32	62593	736085	S13	UPE		0.00002	319.2
66119	1427	32	62593	736085	S13	UPE		0.00002	319.9
66119	1428	32	62593	736085	S13	UPE		0.00002	321.0
66119	1429	32	62593	736085	S13	UPE		0.00004	321.8
66119	1430	32	62593	736085	S13	UPE		-0.00001	322.6
66119	1431	32	62593	736085	S13	UPE		0.00001	323.8
66119	1432	32	62593	736085	S13	UPE		0.00002	324.8
66119	1433	32	62593	736085	S21	UPE		0.00013	325.3
66119	1434	32	62593	736085	S21	UPE		0.00002	326.3
66119	1435	32	62593	736085	S13	UPE		0.00006	326.9
66119	1436	32	62593	736085	S13	UPE		0.00002	327.9
66119	1437	32	62593	736085	S13	UPE		0.00009	329.0
66119	1438	32	62593	736085	S13	UPE		0.00000	329.9
66119	1439	32	62593	736085	S13	UPE		0.00005	330.6
66119	1440	32	62593	736085	S13	UPE		0.00000	331.6
66119	1441	32	62593	736085	S13	UPE		-0.00001	332.1
66119	1442	32	62593	736085	S13	UPE		0.00002	332.8
66119	1443	32	62593	736085	S13	UPE		0.00001	333.6
66119	1444	32	62593	736085	S13	UPE		0.00000	335.2
66119	1445	32	62593	736085	S13	UPE		0.00015	335.9
66119	1446	32	62593	736085	S13	UPE		0.00002	338.2
66119	1447	32	62593	736085	S28	UPE		-0.00008	340.0
66119	1448	32	62593	736085	S13	UPE		-0.00002	340.4
66119	1449	32	62593	736085	S13	UPE		-0.00006	341.1
66119	1450	32	62593	736085	S13	UPE		0.00038	341.6
66119	1451	32	62593	736085	S28	UPE		0.00050	342.5
66119	1452	32	62593	736085	S13	UPE		-0.00006	342.7
66119	1453	32	62593	736085	S13	UPE		-0.00004	343.4
66119	1454	32	62593	736085	S28	UPE		0.00038	343.7
66119	1455	32	62593	736085	S13	UPE		0.00002	344.7

Appendix B, page 15.

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	1456	32	62593	736085	S13	UPE		0.00019	345.3
66119	1457	32	62593	736085	S28	UPE		0.00036	345.6
66119	1458	32	62593	736085	S13	UPE		0.00006	346.2
66119	1459	32	62593	736085	S13	UPE		0.00008	347.1
66119	1460	32	62593	736085	S28	UPE		0.00025	347.3
66119	1461	32	62593	736085	S28	UPE		0.00025	347.5
66119	1462	32	62593	736085	S28	UPE		0.00022	347.9
66119	1463	32	62593	736085	S13	UPE		0.00013	348.6
66119	1464	32	62593	736085	S13	UPE		0.00013	349.4
66119	1465	32	62593	736085	S13	UPE		0.00038	350.2
66119	1466	32	62593	736085	S13	UPE		0.00019	351.0
66119	1467	32	62593	736085	S13	UPE		0.00025	351.8
66119	1468	32	62593	736085	S13	UPE		0.00025	352.5
66119	1469	32	62593	736085	S13	UPE		0.00020	353.2
66119	1470	32	62593	736085	S13	UPE		0.00008	353.7
66119	1471	32	62593	736085	S28	UPE		0.00025	354.1
66119	1472	32	62593	736085	S28	UPE		0.00019	354.5
66119	1473	32	62593	736085	S13	UPE		0.00002	355.3
66119	1474	32	62593	736085	S13	UPE		0.00002	356.1
66119	1475	32	62593	736085	S13	UPE		0.00008	356.7
66119	1476	32	62593	736085	S13	UPE		0.00013	357.5
66119	1477	32	62593	736085	S13	UPE		0.00006	358.3
66119	1478	32	62593	736085	S13	UPE		0.00013	359.1
66119	1479	32	62593	736085	S13	UPE		0.00010	359.6
66119	1480	32	62593	736085	S13	UPE		0.00009	360.4
66119	1481	32	62593	736085	S13	UPE		0.00013	360.6
66119	1482	32	62593	736085	S13	UPE		0.00013	361.0
66119	1483	32	62593	736085	S13	UPE		0.00006	361.7
66119	1484	32	62593	736085	S13	UPE		0.00006	361.9
66119	1485	32	62593	736085	S13	UPE		0.00006	362.7
66119	1486	32	62593	736085	S13	UPE		0.00005	363.5
66119	1487	32	62593	736085	S13	UPE		0.00013	363.3
66119	1488	32	62593	736085	S13	UPE		0.00006	365.0
66119	1489	32	62593	736085	S13	UPE		0.00002	365.8
66119	1490	32	62593	736085	S13	UPE		0.00013	366.6
66119	1491	32	62593	736085	S13	UPE		0.00006	367.4
66119	1492	32	62593	736085	S13	UPE		0.00014	368.0
66119	1493	32	62593	736085	S48	UPE		0.00001	368.8
66119	1494	32	62593	736085	S48	UPE		-0.00002	369.6
66119	1495	32	62593	736085	S48	UPE		0.00000	371.2
66119	1496	32	62593	736085	S48	UPE		0.00000	372.0
66119	1497	32	62593	736085	S48	UPE		-0.00001	372.8
66119	1498	32	62593	736085	S48	UPE		-0.00001	373.6
66119	1499	32	62593	736085	S48	UPE		0.00000	374.1
66119	1500	32	62593	736085	S48	UPE		0.00000	374.9
66119	1501	32	62593	736085	S48	UPE		0.00000	375.7
66119	1502	32	62593	736085	S48	UPE		0.00000	376.5
66119	1503	32	62593	736085	S48	UPE		0.00001	377.2
66119	1504	32	62593	736085	S48	UPE		0.00001	377.9
66119	1505	32	62593	736085	S13	UPE		0.00001	378.7
66119	1506	32	62593	736085	S13	UPE		0.00001	379.5
66119	1507	32	62593	736085	S13	UPE		0.00001	380.2
66119	1508	32	62593	736085	S13	UPE		0.00001	381.0
66119	1509	32	62593	736085	S13	UPE		-0.00001	381.8
66119	1510	32	62593	736085	S13	UPE		0.00000	382.6
66119	1511	32	62593	736085	S48	UPE		0.00000	383.2
66119	1512	32	62593	736085	S28	UPE		0.00017	384.0
66119	1513	32	62593	736085	S28	UPE		0.00030	384.8
66119	1514	32	62593	736085	S28	UPE		0.00044	385.6
66119	1515	32	62593	736085	S13	UPE		0.00008	386.2
66119	1516	32	62593	736085	S28	UPE		0.00038	387.0
66119	1517	32	62593	736085	S28	UPE		0.00027	387.8
66119	1518	32	62593	736085	S13X	UPE		0.00069	388.6
66119	1519	32	62593	736085	S13	UPE		0.00025	389.2
66119	1520	32	62593	736085	S13	UPE		0.00025	390.0
66119	1521	32	62593	736085	S13X	UPE		0.00075	390.9
66119	1522	32	62593	736085	S28	UPE		0.00033	391.5
66119	1523	32	62593	736085	S28X	UPE		0.00019	392.2

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	1524	32	62593	736085	S13	UPE		0.00008	393.0
66119	1525	32	62593	736085	S28X	UPE		0.00054	393.8
66119	1526	32	62593	736085	S28X	UPE		0.00050	394.7
66119	1527	32	62593	736085	S28X	UPE		0.00071	395.2
66119	1528	32	62593	736085	S28X	UPE		0.00050	396.0
66119	1529	32	62593	736085	S13	UPE		0.00013	396.8
66119	1530	32	62593	736085	S13	UPE		0.00019	397.6
66119	1531	32	62593	736085	S13X	UPE		0.00010	398.3
66119	1532	32	62593	736085	S13X	UPE		0.00013	399.0
66119	1533	32	62593	736085	S13X	UPE		0.00008	399.8
66119	1534	32	62593	736085	S13X	UPE		0.00015	400.6
66119	1535	32	62593	736085	S13	UPE		0.00009	401.4
66119	1536	32	62593	736085	S13X	UPE		0.00015	402.2
66119	1537	32	62593	736085	S13X	UPE		0.00015	403.0
66119	1538	32	62593	736085	S13X	UPE		0.00008	403.5
66119	1539	32	62593	736085	S13	UPE		0.00010	404.3
66119	1540	32	62593	736085	S13	UPE		0.00010	405.1
66119	1541	32	62593	736085	S13	UPE		0.00010	405.9
66119	1542	32	62593	736085	S13	UPE		0.00010	406.6
66119	1543	32	62593	736085	S13X	UPE		0.00019	407.5
66119	1544	32	62593	736085	S13X	UPE		0.00014	408.3
66119	1545	32	62593	736085	S21X	UPE		0.00027	409.1
66119	1546	32	62593	736085	S13	UPE		0.00013	409.8
66119	1547	32	62593	736085	S13X	UPE		0.00006	410.8
66119	1548	32	62593	736085	S13X	UPE		0.00006	411.6
66119	1549	32	62593	736085	S13X	UPE		0.00014	412.4
66119	1550	32	62593	736085	S13X	UPE		0.00011	413.2
66119	1551	32	62593	736085	S13X	UPE		0.00013	413.3
66119	1552	32	62593	736085	S13X	UPE		0.00008	414.8
66119	1553	32	62593	736085	S13X	UPE		0.00013	415.6
66119	1554	32	62593	736085	S13X	UPE		0.00006	416.3
66119	1555	32	62593	736085	S13X	UPE		0.00019	416.8
66119	1556	32	62593	736085	S13X	UPE		0.00005	417.6
66119	1557	32	62593	736085	S13X	UPE		0.00006	418.4
66119	1558	32	62593	736085	S13X	UPE		0.00008	419.4
66119	1559	32	62593	736085	S13X	UPE		0.00008	419.7
66119	1560	32	62593	736085	S13X	UPE		0.00004	420.5
66119	1561	32	62593	736085	S13X	UPE		0.00005	421.3
66119	1562	32	62593	736085	S13X	UPE		0.00009	422.1
66119	1563	32	62593	736085	S13X	UPE		0.00015	422.7
66119	1564	32	62593	736085	S13X	UPE		0.00013	423.5
66119	1565	32	62593	736085	S13X	UPE		0.00008	424.3
66119	1566	32	62593	736085	S13X	UPE		0.00006	425.1
66119	1567	32	62593	736085	S13X	UPE		0.00009	425.7
66119	1568	32	62593	736085	S13X	UPE		0.00013	426.5
66119	1569	32	62593	736085	S13X	UPE		0.00009	427.3
66119	1570	32	62593	736085	S13X	UPE		0.00010	428.1
66119	1571	32	62593	736085	S13X	UPE		0.00024	428.7
66119	1572	32	62593	736085	S13X	UPE		0.00002	429.5
66119	1573	32	62593	736085	S13X	UPE		0.00006	430.3
66119	1574	32	62593	736085	S13X	UPE		0.00002	431.1
66119	1575	32	62593	736085	S13X	UPE		0.00009	431.8
66119	1576	32	62593	736085	S13X	UPE		0.00009	432.6
66119	1577	32	62593	736085	S13X	UPE		0.00017	433.4
66119	1578	32	62593	736085	S13X	UPE		0.00008	434.0
66119	1579	32	62593	736085	S13X	UPE		0.00002	434.7
66119	1580	32	62593	736085	S13X	UPE		0.00013	435.5
66119	1581	32	62593	736085	S13X	UPE		0.00001	436.3
66119	1582	32	62593	736085	S13X	UPE		0.00001	437.1
66119	1583	32	62593	736085	S13X	UPE		0.00010	438.8
66119	1584	32	62593	736085	S13X	UPE		0.00010	439.6
66119	1585	32	62593	736085	S13X	UPE		0.00006	440.4
66119	1586	32	62593	736085	S13X	UPE		0.00016	441.2
66119	1587	32	62593	736085	S13X	UPE		0.00009	441.7
66119	1588	32	62593	736085	S13X	UPE		0.00015	442.5
66119	1589	32	62593	736085	S13X	UPE		0.00014	443.3
66119	1590	32	62593	736085	S13	UPE		0.00006	444.1
66119	1591	32	62593	736085	S13X	UPE		0.00008	444.7

Appendix B, page 17.

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No. - Sample No.	UTM zone	UTM-coord. 10 m		Lit. code / Strat. code	Rock type	Suscept. SI	Depth m
66119-1592	32	62593	736085	S13 UPE		0.00002	445.5
66119-1593	32	62593	736085	S13 UPE		0.00002	446.2
66119-1594	32	62593	736085	S13 UPE		0.00001	446.5
66119-1595	32	62593	736085	S13 UPE		0.00005	446.9
66119-1596	32	62593	736085	S13 UPE		0.00005	447.0
66119-1597	32	62593	736085	S13 UPE		0.00004	447.7
66119-1598	32	62593	736085	S13 UPE		0.00006	448.5
66119-1599	32	62593	736085	S13 UPE		0.00006	449.3
66119-1600	32	62593	736085	S13 UPE		0.00004	450.1
66119-1601	32	62593	736085	S13 UPE		0.00002	450.8
66119-1602	32	62593	736085	S13 UPE		0.00002	451.6
66119-1603	32	62593	736085	S13 UPE		0.00005	452.4
66119-1604	32	62593	736085	S13 UPE		0.00005	453.1
66119-1605	32	62593	736085	S13 UPE		0.00006	453.4
66119-1606	32	62593	736085	S13 UPE		0.00006	454.2
66119-1607	32	62593	736085	S13XUPE		0.00009	455.0
66119-1608	32	62593	736085	S13XUPE		0.00010	455.8
66119-1609	32	62593	736085	S13XUPE		0.00006	456.4
66119-1610	32	62593	736085	S13 UPE		0.00006	457.2
66119-1611	32	62593	736085	S13XUPE		0.00013	458.0
66119-1612	32	62593	736085	S13 UPE		0.00004	459.1
66119-1613	32	62593	736085	S13XUPE		0.00005	459.4
66119-1614	32	62593	736085	S13XUPE		0.00001	460.2
66119-1615	32	62593	736085	S13XUPE		0.00056	461.0
66119-1616	32	62593	736085	S13XUPE		0.00035	461.9
66119-1617	32	62593	736085	S13XUPE		0.00050	462.1
66119-1618	32	62593	736085	S13XUPE		0.00011	462.4
66119-1619	32	62593	736085	S13XUPE		0.00009	463.2
66119-1620	32	62593	736085	S13XUPE		0.00010	464.0
66119-1621	32	62593	736085	S13XUPE		0.00005	464.8
66119-1622	32	62593	736085	S13XUPE		0.00002	465.4
66119-1623	32	62593	736085	S13XUPE		0.00005	466.2
66119-1624	32	62593	736085	S13XUPE		0.00019	467.0
66119-1625	32	62593	736085	S13XUPE		0.00006	467.8
66119-1626	32	62593	736085	S13XUPE		0.00013	468.4
66119-1627	32	62593	736085	S13XUPE		0.00013	469.2
66119-1628	32	62593	736085	S13XUPE		0.00014	470.0
66119-1629	32	62593	736085	S13XUPE		0.00008	470.8
66119-1630	32	62593	736085	S13XUPE		0.00019	471.4
66119-1631	32	62593	736085	S13XUPE		0.00033	472.2
66119-1632	32	62593	736085	S13XUPE		0.00017	473.0
66119-1633	32	62593	736085	S13XUPE		0.00013	473.8
66119-1634	32	62593	736085	S13XUPE		0.00009	474.3
66119-1635	32	62593	736085	S13XUPE		0.00004	475.1
66119-1636	32	62593	736085	S13XUPE		0.00013	476.7
66119-1637	32	62593	736085	S13XUPE		0.00006	476.5
66119-1638	32	62593	736085	S13XUPE		0.00011	477.4
66119-1639	32	62593	736085	S13XUPE		0.00013	478.2
66119-1640	32	62593	736085	S13XUPE		0.00005	479.0
66119-1641	32	62593	736085	S13XUPE		0.00004	479.8
66119-1642	32	62593	736085	S13XUPE		0.00008	480.2
66119-1643	32	62593	736085	S13XUPE		0.00020	481.0
66119-1644	32	62593	736085	S13XUPE		0.00009	481.8
66119-1645	32	62593	736085	S13XUPE		0.00006	482.6
66119-1646	32	62593	736085	S13XUPE		0.00014	483.1
66119-1647	32	62593	736085	S13XUPE		0.00008	483.9
66119-1648	32	62593	736085	S13XUPE		0.00010	484.6
66119-1649	32	62593	736085	S13XUPE		0.00002	485.1
66119-1650	32	62593	736085	S13XUPE		0.00006	485.9
66119-1651	32	62593	736085	S13XUPE		0.00013	486.7
66119-1652	32	62593	736085	S13XUPE		0.00009	487.5
66119-1653	32	62593	736085	S13XUPE		0.00008	488.1
66119-1654	32	62593	736085	S13XUPE		0.00010	488.6
66119-1655	32	62593	736085	S13XUPE		0.00013	489.4
66119-1656	32	62593	736085	S13XUPE		0.00013	490.2
66119-1657	32	62593	736085	S13XUPE		0.00013	491.0
66119-1658	32	62593	736085	S13XUPE		0.00013	491.6
66119-1659	32	62593	736085	S13XUPE		0.00010	492.4

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	1660	32	62593	736085	S13X	UPE		0.00013	493.2
66119	1661	32	62593	736085	S13X	UPE		0.00013	494.0
66119	1662	32	62593	736085	S13X	UPE		0.00005	494.7
66119	1663	32	62593	736085	S13X	UPE		0.00006	495.5
66119	1664	32	62593	736085	S13X	UPE		0.00005	496.3
66119	1665	32	62593	736085	S13X	UPE		0.00013	497.1
66119	1666	32	62593	736085	S13X	UPE		0.00010	497.6
66119	1667	32	62593	736085	S13X	UPE		0.00008	498.4
66119	1668	32	62593	736085	S13X	UPE		0.00010	499.2
66119	1669	32	62593	736085	S13X	UPE		0.00010	500.0
66119	1670	32	62593	736085	S13X	UPE		0.00009	500.6
66119	1671	32	62593	736085	S13X	UPE		0.00009	501.4
66119	1672	32	62593	736085	S13X	UPE		0.00006	502.2
66119	1673	32	62593	736085	S13X	UPE		0.00010	502.5
66119	1674	32	62593	736085	S13X	UPE		0.00015	503.3
66119	1675	32	62593	736085	S13X	UPE		0.00013	504.1
66119	1676	32	62593	736085	S13X	UPE		0.00013	505.3
66119	1677	32	62593	736085	S13X	UPE		0.00008	505.9
66119	1678	32	62593	736085	S13X	UPE		0.00014	506.7
66119	1679	32	62593	736085	S13X	UPE		0.00008	507.5
66119	1680	32	62593	736085	S13X	UPE		0.00006	508.3
66119	1681	32	62593	736085	S13X	UPE		0.00006	508.9
66119	1682	32	62593	736085	S13X	UPE		0.00010	509.7
66119	1683	32	62593	736085	S13X	UPE		0.00005	510.5
66119	1684	32	62593	736085	S13X	UPE		0.00006	511.3
66119	1685	32	62593	736085	S13X	UPE		0.00013	511.9
66119	1686	32	62593	736085	S13X	UPE		0.00005	512.7
66119	1687	32	62593	736085	S13X	UPE		0.00009	512.5
66119	1688	32	62593	736085	S13X	UPE		0.00009	513.3
66119	1689	32	62593	736085	S13X	UPE		0.00000	514.9
66119	1690	32	62593	736085	S13X	UPE		0.00010	515.7
66119	1691	32	62593	736085	S13X	UPE		0.00019	516.3
66119	1692	32	62593	736085	S13X	UPE		0.00024	517.1
66119	1693	32	62593	736085	S13X	UPE		0.00014	517.9
66119	1694	32	62593	736085	S13X	UPE		0.00013	518.7
66119	1695	32	62593	736085	S13X	UPE		0.00013	519.0
66119	1696	32	62593	736085	S13X	UPE		0.00013	519.8
66119	1697	32	62593	736085	S13X	UPE		0.00006	520.6
66119	1698	32	62593	736085	S13X	UPE		0.00006	520.4
66119	1699	32	62593	736085	S13X	UPE		0.00005	521.9
66119	1700	32	62593	736085	S13X	UPE		0.00009	522.8
66119	1701	32	62593	736085	S13X	UPE		0.00006	523.6
66119	1702	32	62593	736085	S13X	UPE		0.00002	524.3
66119	1703	32	62593	736085	S13X	UPE		0.00009	525.8
66119	1704	32	62593	736085	S13X	UPE		0.00013	526.5
66119	1705	32	62593	736085	S13	UPE		0.00017	528.0
66119	1706	32	62593	736085	S13	UPE		0.00017	528.8
66119	1707	32	62593	736085	S13	UPE		0.00011	529.6
66119	1708	32	62593	736085	S13X	UPE		0.00034	530.4
66119	1709	32	62593	736085	S13X	UPE		0.00019	531.0
66119	1710	32	62593	736085	S13X	UPE		0.00013	531.8
66119	1711	32	62593	736085	S13X	UPE		0.00011	532.6
66119	1712	32	62593	736085	S13X	UPE		0.00008	533.4
66119	1713	32	62593	736085	S13X	UPE		0.00015	533.9
66119	1714	32	62593	736085	S13X	UPE		0.00004	534.7
66119	1715	32	62593	736085	S13X	UPE		0.00013	535.5
66119	1716	32	62593	736085	S13X	UPE		0.00006	536.3
66119	1717	32	62593	736085	S13X	UPE		0.00006	536.9
66119	1718	32	62593	736085	S13X	UPE		0.00004	537.6
66119	1719	32	62593	736085	S13X	UPE		0.00019	537.9
66119	1720	32	62593	736085	S13X	UPE		0.00015	538.7
66119	1721	32	62593	736085	S13X	UPE		0.00006	539.5
66119	1722	32	62593	736085	S13X	UPE		0.00006	540.3
66119	1723	32	62593	736085	S13X	UPE		0.00013	541.6
66119	1724	32	62593	736085	S13X	UPE		0.00009	542.3
66119	1725	32	62593	736085	S13X	UPE		0.00010	543.7
66119	1726	32	62593	736085	S13X	UPE		0.00015	544.5
66119	1727	32	62593	736085	S13X	UPE		0.00015	545.3

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	1728	32	62593	736085	S13	XUPE		0.00013	546.1
66119	1729	32	62593	736085	S13	XUPE		0.00015	546.9
66119	1730	32	62593	736085	S13	XUPE		0.00010	547.7
66119	1731	32	62593	736085	S13	XUPE		0.00025	548.5
66119	1732	32	62593	736085	S13	XUPE		0.00014	549.3
66119	1733	32	62593	736085	S13	XUPE		0.00002	550.0
66119	1734	32	62593	736085	S13	XUPE		0.00006	550.3
66119	1735	32	62593	736085	S13	XUPE		0.00009	551.1
66119	1736	32	62593	736085	S13	XUPE		0.00013	551.8
66119	1737	32	62593	736085	S13	XUPE		0.00009	552.5
66119	1738	32	62593	736085	S13	XUPE		0.00013	553.3
66119	1739	32	62593	736085	S13	XUPE		0.00006	554.1
66119	1740	32	62593	736085	S13	XUPE		0.00009	554.9
66119	1741	32	62593	736085	S13	XUPE		0.00004	555.5
66119	1742	32	62593	736085	S13	XUPE		0.00011	556.3
66119	1743	32	62593	736085	S13	XUPE		0.00009	557.1
66119	1744	32	62593	736085	S00	UPE		0.00013	557.6
66119	1745	32	62593	736085	S00	UPE		0.00002	557.8
66119-2	1	32	62593	736085	S13	YLTR		0.00061	9.1
66119-2	2	32	62593	736085	S13	YLTR		0.00069	9.3
66119-2	3	32	62593	736085	S13	YLTR		0.00087	9.5
66119-2	4	32	62593	736085	S13	YLTR		0.00086	9.8
66119-2	5	32	62593	736085	S13	YLTR		0.00090	10.2
66119-2	6	32	62593	736085	S13	YLTR		0.00097	10.5
66119-2	7	32	62593	736085	S28	LTR		0.00050	10.8
66119-2	8	32	62593	736085	S13	LTR		0.00064	11.2
66119-2	9	32	62593	736085	S28	LTR		0.00042	11.3
66119-2	10	32	62593	736085	S28	YLTR		0.00049	11.5
66119-2	11	32	62593	736085	S28	LTR		0.00050	11.6
66119-2	12	32	62593	736085	S28	LTR		0.00046	12.0
66119-2	13	32	62593	736085	S13	YLTR		0.00062	12.2
66119-2	14	32	62593	736085	S13	YLTR		0.00071	12.4
66119-2	15	32	62593	736085	S13	YLTR		0.00122	12.6
66119-2	16	32	62593	736085	S13	YLTR		0.00102	12.8
66119-2	17	32	62593	736085	S13	YLTR		0.00048	13.0
66119-2	18	32	62593	736085	S28	YLTR		0.00047	13.2
66119-2	19	32	62593	736085	S28	LTR		0.00042	13.4
66119-2	20	32	62593	736085	S28	YLTR		0.00059	13.6
66119-2	21	32	62593	736085	S13	YLTR		0.00088	13.8
66119-2	22	32	62593	736085	S13	YLTR		0.00038	14.0
66119-2	23	32	62593	736085	S13	YLTR		0.00040	14.2
66119-2	24	32	62593	736085	S13	YLTR		0.00039	14.4
66119-2	25	32	62593	736085	S13	YLTR		0.00037	14.6
66119-2	26	32	62593	736085	S13	YLTR		0.00035	14.8
66119-2	27	32	62593	736085	S28	LTR		0.00045	15.0
66119-2	28	32	62593	736085	S28	LTR		0.00053	15.1
66119-2	29	32	62593	736085	S28	LTR		0.00040	15.6
66119-2	30	32	62593	736085	S13	LTR		0.00066	15.9
66119-2	31	32	62593	736085	S28	LTR		0.00034	15.9
66119-2	32	32	62593	736085	S13	LTR		0.00076	16.1
66119-2	33	32	62593	736085	S13	LTR		0.00074	16.2
66119-2	34	32	62593	736085	S13	LTR		0.00082	16.3
66119-2	35	32	62593	736085	S13	LTR		0.00095	16.8
66119-2	36	32	62593	736085	S13	LTR		0.00072	16.9
66119-2	37	32	62593	736085	S28	LTR		0.00045	17.0
66119-2	38	32	62593	736085	S13	LTR		0.00052	17.1
66119-2	39	32	62593	736085	S13	LTR		0.00055	17.2
66119-2	40	32	62593	736085	S13	LTR		0.00060	17.4
66119-2	41	32	62593	736085	S28	LTR		0.00042	17.5
66119-2	42	32	62593	736085	S13	LTR		0.00046	17.7
66119-2	43	32	62593	736085	S13	LTR		0.00056	17.9
66119-2	44	32	62593	736085	S13	LTR		0.00055	18.0
66119-2	45	32	62593	736085	S28	LTR		0.00039	18.2
66119-2	46	32	62593	736085	S13	LTR		0.00069	18.3
66119-2	47	32	62593	736085	S13	LTR		0.00052	18.5
66119-2	48	32	62593	736085	S13	YLTR		0.00056	18.8
66119-2	49	32	62593	736085	S13	LTR		0.00070	19.3
66119-2	50	32	62593	736085	S13	LTR		0.00052	19.4

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119-2	51	32	62593	736085	S13	LTR		0.00053	19.6
66119-2	52	32	62593	736085	S13	LTR		0.00064	19.8
66119-2	53	32	62593	736085	S28	LTR		0.00048	20.0
66119-2	54	32	62593	736085	S13	LTR		0.00050	20.3
66119-2	55	32	62593	736085	S13	LTR		0.00060	20.4
66119-2	56	32	62593	736085	S13	LTR		0.00064	20.5
66119-2	57	32	62593	736085	S13	LTR		0.00071	20.7
66119-2	58	32	62593	736085	S13Y	LTR		0.00080	20.9
66119-2	59	32	62593	736085	S13	LTR		0.00086	21.1
66119-2	60	32	62593	736085	S28	LTR		0.00048	21.3
66119-2	61	32	62593	736085	S13	LTR		0.00097	21.7
66119-2	62	32	62593	736085	S13	LTR		0.00143	21.9
66119-2	63	32	62593	736085	S13	LTR		0.00075	22.3
66119-2	64	32	62593	736085	S13	LTR		0.00056	22.4
66119-2	65	32	62593	736085	S13	LTR		0.00058	22.6
66119-2	66	32	62593	736085	S13	LTR		0.00053	23.1
66119-2	67	32	62593	736085	S13	LTR		0.00045	23.3
66119-2	68	32	62593	736085	S28	LTR		0.00042	23.6
66119-2	69	32	62593	736085	S28	LTR		0.00042	23.8
66119-2	70	32	62593	736085	S13Y	LTR		0.00032	24.0
66119-2	71	32	62593	736085	S13Y	LTR		0.00038	24.3
66119-2	72	32	62593	736085	S13	LTR		0.00046	24.4
66119-2	73	32	62593	736085	S28	LTR		0.00036	24.6
66119-2	74	32	62593	736085	S28	LTR		0.00036	24.6
66119-2	75	32	62593	736085	S28	LTR		0.00034	24.8
66119-2	76	32	62593	736085	S28	LTR		0.00034	25.0
66119-2	77	32	62593	736085	S28	LTR		0.00036	25.2
66119-2	78	32	62593	736085	S28	LTR		0.00039	25.5
66119-2	79	32	62593	736085	S28	LTR		0.00035	25.7
66119-2	80	32	62593	736085	S28	LTR		0.00038	26.1
66119-2	81	32	62593	736085	S28	LTR		0.00039	26.6
66119-2	82	32	62593	736085	S13	LTR		0.00048	26.8
66119-2	83	32	62593	736085	S13	LTR		0.00054	27.0
66119-2	84	32	62593	736085	S13	LTR		0.00060	27.2
66119-2	85	32	62593	736085	S28	LTR		0.00040	28.2
66119-2	86	32	62593	736085	S28	LTR		0.00039	28.4
66119-2	87	32	62593	736085	S28	LTR		0.00039	28.6
66119-2	88	32	62593	736085	S28	LTR		0.00047	28.8
66119-2	89	32	62593	736085	S13	LTR		0.00041	29.7
66119-2	90	32	62593	736085	S13	LTR		0.00055	30.0
66119-2	91	32	62593	736085	S13	LTR		0.00115	30.2
66119-2	92	32	62593	736085	S28	LTR		0.00065	30.4
66119-2	93	32	62593	736085	S13Y	LTR		0.00083	30.5
66119-2	94	32	62593	736085	S13Y	LTR		0.00041	30.7
66119-2	95	32	62593	736085	S28	LTR		0.00041	30.9
66119-2	96	32	62593	736085	S28	LTR		0.00040	31.1
66119-2	97	32	62593	736085	S28	LTR		0.00039	31.3
66119-2	98	32	62593	736085	S28	LTR		0.00038	31.4
66119-2	99	32	62593	736085	S13	LTR		0.00056	31.5
66119-2	100	32	62593	736085	S13	LTR		0.00059	31.6
66119-2	101	32	62593	736085	S13Y	LTR		0.00070	33.1
66119-2	102	32	62593	736085	S13Y	LTR		0.00063	33.3
66119-2	103	32	62593	736085	S13	LTR		0.00039	33.4
66119-2	104	32	62593	736085	S13Y	LTR		0.00050	33.7
66119-2	105	32	62593	736085	S13	LTR		0.00057	34.6
66119-2	106	32	62593	736085	S13	LTR		0.00049	34.8
66119-2	107	32	62593	736085	S28	LTR		0.00033	35.0
66119-2	108	32	62593	736085	S28	LTR		0.00036	35.1
66119-2	109	32	62593	736085	S28	LTR		0.00036	35.2
66119-2	110	32	62593	736085	S28	LTR		0.00036	35.4
66119-2	111	32	62593	736085	S28	LTR		0.00037	35.6
66119-2	112	32	62593	736085	S28	LTR		0.00032	35.8
66119-2	113	32	62593	736085	S28	LTR		0.00038	36.8
66119-2	114	32	62593	736085	S13Y	LTR		0.00072	37.0
66119-2	115	32	62593	736085	S28	LTR		0.00033	37.2
66119-2	116	32	62593	736085	S28	LTR		0.00039	37.4
66119-2	117	32	62593	736085	S13	LTR		0.00047	38.1
66119-2	118	32	62593	736085	S28	LTR		0.00035	38.4

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	2119	32	62593	736085	S13		LTR	0.00051	38.7
66119	2120	32	62593	736085	S13		LTR	0.00044	39.6
66119	2121	32	62593	736085	S13		LTR	0.00036	39.8
66119	2122	32	62593	736085	S28		LTR	0.00039	40.0
66119	2123	32	62593	736085	S13	Y	LTR	0.00053	40.2
66119	2124	32	62593	736085	S28	Y	LTR	0.00041	41.1
66119	2125	32	62593	736085	S28	Y	LTR	0.00040	41.3
66119	2126	32	62593	736085	S28	Y	LTR	0.00038	41.5
66119	2127	32	62593	736085	S28		LTR	0.00036	41.7
66119	2128	32	62593	736085	S28		LTR	0.00033	42.7
66119	2129	32	62593	736085	S28		LTR	0.00038	42.9
66119	2130	32	62593	736085	S28		LTR	0.00038	43.1
66119	2131	32	62593	736085	S28		LTR	0.00039	43.3
66119	2132	32	62593	736085	S28		LTR	0.00045	44.3
66119	2133	32	62593	736085	S28		LTR	0.00041	44.4
66119	2134	32	62593	736085	S28		LTR	0.00047	44.7
66119	2135	32	62593	736085	S28		LTR	0.00032	45.9
66119	2136	32	62593	736085	S28		LTR	0.00042	46.1
66119	2137	32	62593	736085	S28		LTR	0.00043	46.4
66119	2138	32	62593	736085	S28		LTR	0.00038	47.1
66119	2139	32	62593	736085	S13		LTR	0.00072	47.3
66119	2140	32	62593	736085	S28		LTR	0.00044	47.8
66119	2141	32	62593	736085	S28		LTR	0.00050	48.8
66119	2142	32	62593	736085	S13		LTR	0.00051	49.0
66119	2143	32	62593	736085	S13		LTR	0.00048	49.3
66119	2144	32	62593	736085	S28		LTR	0.00037	50.3
66119	2145	32	62593	736085	S28		LTR	0.00036	50.5
66119	2146	32	62593	736085	S28		LTR	0.00043	50.7
66119	2147	32	62593	736085	S28		LTR	0.00044	51.7
66119	2148	32	62593	736085	S28		LTR	0.00045	52.0
66119	2149	32	62593	736085	S28		LTR	0.00047	52.3
66119	2150	32	62593	736085	S28		LTR	0.00042	53.2
66119	2151	32	62593	736085	S28		LTR	0.00041	53.4
66119	2152	32	62593	736085	S28		LTR	0.00039	53.6
66119	2153	32	62593	736085	S28		LTR	0.00038	54.8
66119	2154	32	62593	736085	S28		LTR	0.00035	55.0
66119	2155	32	62593	736085	S28		LTR	0.00037	55.3
66119	2156	32	62593	736085	S28		LTR	0.00030	56.2
66119	2157	32	62593	736085	S28		LTR	0.00035	56.4
66119	2158	32	62593	736085	S28		LTR	0.00031	56.8
66119	2159	32	62593	736085	S13		LTR	0.00038	57.8
66119	2160	32	62593	736085	S13		LTR	0.00042	58.0
66119	2161	32	62593	736085	S13		LTR	0.00040	58.2
66119	2162	32	62593	736085	S13		LTR	0.00034	59.0
66119	2163	32	62593	736085	S13		LTR	0.00039	59.4
66119	2164	32	62593	736085	S13		LTR	0.00034	60.2
66119	2165	32	62593	736085	S28		LTR	0.00036	60.5
66119	2166	32	62593	736085	S13		LTR	0.00030	60.7
66119	2167	32	62593	736085	S28		LTR	0.00037	61.6
66119	2168	32	62593	736085	S13		LTR	0.00040	61.8
66119	2169	32	62593	736085	S13		LTR	0.00039	62.0
66119	2170	32	62593	736085	S28		LTR	0.00043	63.2
66119	2171	32	62593	736085	S13		LTR	0.00049	63.3
66119	2172	32	62593	736085	S13		LTR	0.00036	63.6
66119	2173	32	62498	736158	S28		LTR	0.00024	65.9
66119	2174	32	62498	736158	S28		LTR	0.00027	66.7
66119	2175	32	62498	736158	S28		LTR	0.00022	67.5
66119	2176	32	62498	736158	S28		LTR	0.00022	68.1
66119	2177	32	62498	736158	S28		LTR	0.00019	68.9
66119	2178	32	62498	736158	S28		LTR	0.00020	69.7
66119	2179	32	62498	736158	S13		LTR	0.00022	70.4
66119	2180	32	62498	736158	S13		LTR	0.00026	71.2
66119	2181	32	62498	736158	S28		LTR	0.00020	72.0
66119	2182	32	62498	736158	S28		LTR	0.00024	72.8
66119	2183	32	62498	736158	S28		LTR	0.00025	73.4
66119	2184	32	62498	736158	S28		LTR	0.00024	74.1
66119	2185	32	62498	736158	S28		LTR	0.00026	74.9
66119	2186	32	62498	736158	S28		LTR	0.00024	75.8

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	2187	32	62498	736158	S13	LTR		0.00019	76.2
66119	2188	32	62498	736158	S13	LTR		0.00016	76.5
66119	2189	32	62498	736158	S13	LTR		0.00027	77.2
66119	2190	32	62498	736158	S13	LTR		0.00026	78.1
66119	2191	32	62498	736158	S13	LTR		0.00031	78.4
66119	2192	32	62498	736158	S13	LTR		0.00025	79.3
66119	2193	32	62498	736158	S13	LTR		0.00024	79.4
66119	2194	32	62498	736158	S13	LTR		0.00027	80.5
66119	2195	32	62498	736158	S28	LTR		0.00027	80.7
66119	2196	32	62498	736158	S13	LTR		0.00019	81.1
66119	2197	32	62498	736158	S13	LTR		0.00026	81.4
66119	2198	32	62498	736158	S13	LTR		0.00025	81.7
66119	2199	32	62498	736158	S13	LTR		0.00019	82.6
66119	2200	32	62498	736158	S28	LTR		0.00025	82.9
66119	2201	32	62498	736158	S13	LTR		0.00025	83.8
66119	2202	32	62498	736158	S13	LTR		0.00026	84.6
66119	2203	32	62498	736158	S13	LTR		0.00026	88.2
66119	2204	32	62498	736158	S13	LTR		0.00025	86.0
66119	2205	32	62498	736158	S13	LTR		0.00025	86.8
66119	2206	32	62498	736158	S13	LTR		0.00024	86.6
66119	2207	32	62498	736158	S13	LTR		0.00029	88.2
66119	2208	32	62498	736158	S13	LTR		0.00024	89.0
66119	2209	32	62498	736158	S13	LTR		0.00020	89.8
66119	2210	32	62498	736158	S28	LTR		0.00022	90.6
66119	2211	32	62498	736158	S28	LTR		0.00020	91.3
66119	2212	32	62498	736158	S13	LTR		0.00019	92.1
66119	2213	32	62498	736158	S13	LTR		0.00025	92.9
66119	2214	32	62498	736158	S13	LTR		0.00025	93.7
66119	2215	32	62498	736158	S13	LTR		0.00024	94.2
66119	2216	32	62498	736158	S13	LTR		0.00017	95.0
66119	2217	32	62498	736158	S13	LTR		0.00024	95.8
66119	2218	32	62498	736158	S13	LTR		0.00025	97.2
66119	2219	32	62498	736158	S28	LTR		0.00024	97.0
66119	2220	32	62498	736158	S13	LTR		0.00019	97.8
66119	2221	32	62498	736158	S13	LTR		0.00019	97.6
66119	2222	32	62498	736158	S13	LTR		0.00025	100.1
66119	2223	32	62498	736158	S13	LTR		0.00025	100.9
66119	2224	32	62498	736158	S13	LTR		0.00026	101.7
66119	2225	32	62498	736158	S13	LTR		0.00022	102.5
66119	2226	32	62498	736158	S13	LTR		0.00021	103.1
66119	2227	32	62498	736158	S13	LTR		0.00021	103.4
66119	2228	32	62498	736158	S13	LTR		0.00022	104.2
66119	2229	32	62498	736158	S13	LTR		0.00022	105.0
66119	2230	32	62498	736158	S13	LTR		0.00019	105.8
66119	2231	32	62498	736158	S13	LTR		0.00021	106.3
66119	2232	32	62498	736158	S13	LTR		0.00013	106.1
66119	2233	32	62498	736158	S13	LTR		0.00027	106.9
66119	2234	32	62498	736158	S13	LTR		0.00019	107.7
66119	2235	32	62498	736158	S13	LTR		0.00021	109.8
66119	2236	32	62498	736158	S28	LTR		0.00024	110.6
66119	2237	32	62498	736158	S13	LTR		0.00026	111.4
66119	2238	32	62498	736158	S13	LTR		0.00021	112.1
66119	2239	32	62498	736158	S13	LTR		0.00019	112.3
66119	2240	32	62498	736158	S13	LTR		0.00025	113.1
66119	2241	32	62498	736158	S13	LTR		0.00024	113.9
66119	2242	32	62498	736158	S13	LTR		0.00025	114.7
66119	2243	32	62498	736158	S13	LTR		0.00022	115.5
66119	2244	32	62498	736158	S13	LTR		0.00016	116.3
66119	2245	32	62498	736158	S13	LTR		0.00016	117.1
66119	2246	32	62498	736158	S13	LTR		0.00024	117.9
66119	2247	32	62498	736158	S28	LTR		0.00019	118.8
66119	2248	32	62498	736158	S28	LTR		0.00019	119.6
66119	2249	32	62498	736158	S28	LTR		0.00019	120.5
66119	2250	32	62498	736158	S28	LTR		0.00025	121.1
66119	2251	32	62498	736158	S28	LTR		0.00025	121.9
66119	2252	32	62498	736158	S28	LTR		0.00025	122.7
66119	2253	32	62498	736158	S28	LTR		0.00025	123.7
66119	2254	32	62498	736158	S28	LTR		0.00021	124.4

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	2255	32	62498	736158	S28	LTR		0.00025	125.2
66119	2256	32	62498	736158	S28	LTR		0.00019	126.0
66119	2257	32	62498	736158	S28	LTR		0.00022	126.3
66119	2258	32	62498	736158	S13	LTR		0.00013	127.2
66119	2259	32	62498	736158	S13	LTR		0.00015	128.0
66119	2260	32	62498	736158	S28	LTR		0.00020	128.1
66119	2261	32	62498	736158	S13	LTR		0.00025	128.9
66119	2262	32	62498	736158	S28	LTR		0.00031	130.0
66119	2263	32	62498	736158	S13	LTR		0.00031	130.8
66119	2264	32	62498	736158	S13	LTR		0.00025	131.3
66119	2265	32	62498	736158	S13	LTR		0.00027	132.1
66119	2266	32	62498	736158	S13	LTR		0.00025	132.8
66119	2267	32	62498	736158	S28	LTR		0.00029	133.0
66119	2268	32	62498	736158	S13	LTR		0.00019	133.9
66119	2269	32	62498	736158	S13	LTR		0.00031	134.7
66119	2270	32	62498	736158	S13	LTR		0.00031	135.8
66119	2271	32	62498	736158	S13	LTR		0.00025	136.4
66119	2272	32	62498	736158	S13	LTR		0.00027	137.2
66119	2273	32	62498	736158	S13	LTR		0.00031	138.0
66119	2274	32	62498	736158	S13	LTR		0.00031	138.5
66119	2275	32	62498	736158	S13	LTR		0.00022	139.3
66119	2276	32	62498	736158	S28	LTR		0.00026	139.8
66119	2277	32	62498	736158	S13	LTR		0.00027	140.2
66119	2278	32	62498	736158	S28	LTR		0.00020	140.6
66119	2279	32	62498	736158	S13	LTR		0.00025	141.9
66119	2280	32	62498	736158	S13	LTR		0.00019	142.9
66119	2281	32	62498	736158	S28	LTR		0.00031	143.3
66119	2282	32	62498	736158	S13	LTR		0.00017	143.5
66119	2283	32	62498	736158	S13	LTR		0.00017	144.2
66119	2284	32	62498	736158	S13	LTR		0.00020	144.4
66119	2285	32	62498	736158	S13	LTR		0.00020	144.8
66119	2286	32	62498	736158	S28	LTR		0.00026	145.2
66119	2287	32	62498	736158	S28	LTR		0.00026	146.0
66119	2288	32	62498	736158	S28	LTR		0.00021	146.8
66119	2289	32	62498	736158	S28	LTR		0.00021	147.7
66119	2290	32	62498	736158	S28	LTR		0.00021	148.5
66119	2291	32	62498	736158	S28	LTR		0.00021	149.3
66119	2292	32	62498	736158	S28	LTR		0.00021	150.2
66119	2293	32	62498	736158	S28	LTR		0.00020	150.7
66119	2294	32	62498	736158	S28	LTR		0.00022	151.5
66119	2295	32	62498	736158	S28	LTR		0.00020	152.3
66119	2296	32	62498	736158	S28	LTR		0.00017	153.1
66119	2297	32	62498	736158	S13	LTR		0.00025	153.4
66119	2298	32	62498	736158	S28	LTR		0.00034	153.7
66119	2299	32	62498	736158	S13	LTR		0.00025	154.5
66119	2300	32	62498	736158	S13	LTR		0.00015	155.4
66119	2301	32	62498	736158	S13	LTR		0.00016	156.1
66119	2302	32	62498	736158	S13	LTR		0.00015	156.9
66119	2303	32	62498	736158	S28	LTR		0.00031	157.5
66119	2304	32	62498	736158	S13	LTR		0.00017	158.0
66119	2305	32	62498	736158	S13	LTR		0.00019	158.2
66119	2306	32	62498	736158	S13	LTR		0.00019	159.1
66119	2307	32	62498	736158	S28	LTR		0.00027	159.2
66119	2308	32	62498	736158	S13	LTR		0.00022	159.9
66119	2309	32	62498	736158	S28	LTR		0.00031	160.4
66119	2310	32	62498	736158	S13	LTR		0.00027	161.1
66119	2311	32	62498	736158	S13	LTR		0.00019	161.3
66119	2312	32	62498	736158	S28	LTR		0.00025	161.7
66119	2313	32	62498	736158	S13	LTR		0.00020	162.4
66119	2314	32	62498	736158	S28	LTR		0.00026	162.7
66119	2315	32	62498	736158	S13	LTR		0.00026	163.8
66119	2316	32	62498	736158	S13	LTR		0.00020	164.3
66119	2317	32	62498	736158	S28	LTR		0.00027	164.7
66119	2318	32	62498	736158	S13	LTR		0.00020	165.3
66119	2319	32	62498	736158	S13	LTR		0.00022	166.4
66119	2320	32	62498	736158	S13	LTR		0.00031	167.2
66119	2321	32	62498	736158	S28	LTR		0.00021	167.4
66119	2322	32	62498	736158	S13	LTR		0.00016	168.2

Appendix B, page 24.

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119-2323		32	62498	736158	S28	LTR		0.00021	168.6
66119-2324		32	62498	736158	S13	LTR		0.00025	169.2
66119-2325		32	62498	736158	S13	LTR		0.00025	169.9
66119-2326		32	62498	736158	S28	LTR		0.00014	170.4
66119-2327		32	62498	736158	S13	LTR		0.00017	170.6
66119-2328		32	62498	736158	S13	LTR		0.00031	171.4
66119-2329		32	62498	736158	S13	LTR		0.00019	172.2
66119-2330		32	62498	736158	S13	LTR		0.00022	173.0
66119-2331		32	62498	736158	S28	LTR		0.00025	173.3
66119-2332		32	62498	736158	S13	LTR		0.00020	173.5
66119-2333		32	62498	736158	S28	LTR		0.00029	174.3
66119-2334		32	62498	736158	S13	LTR		0.00022	174.5
66119-2335		32	62498	736158	S28	LTR		0.00020	174.7
66119-2336		32	62498	736158	S13	LTR		0.00020	175.0
66119-2337		32	62498	736158	S13	LTR		0.00016	175.3
66119-2338		32	62498	736158	S28	LTR		0.00022	175.7
66119-2339		32	62498	736158	S13	LTR		0.00031	175.9
66119-2340		32	62498	736158	S28	LTR		0.00030	176.8
66119-2341		32	62498	736158	S13	LTR		0.00019	177.6
66119-2342		32	62498	736158	S28	LTR		0.00020	178.4
66119-2343		32	62498	736158	S28	LTR		0.00020	179.0
66119-2344		32	62498	736158	S28	LTR		0.00016	180.4
66119-2345		32	62498	736158	S28	LTR		0.00021	181.2
66119-2346		32	62498	736158	S28	LTR		0.00021	182.0
66119-2347		32	62498	736158	S28	LTR		0.00025	182.6
66119-2348		32	62498	736158	S28	LTR		0.00020	183.4
66119-2349		32	62498	736158	S28	LTR		0.00019	184.2
66119-2350		32	62498	736158	S28	LTR		0.00021	185.0
66119-2351		32	62498	736158	S28	LTR		0.00025	185.8
66119-2352		32	62498	736158	S28	LTR		0.00025	186.3
66119-2353		32	62498	736158	S28	LTR		0.00027	186.6
66119-2354		32	62498	736158	S28	LTR		0.00019	187.5
66119-2355		32	62498	736158	S28	LTR		0.00025	188.7
66119-2356		32	62498	736158	S28	LTR		0.00027	189.5
66119-2357		32	62498	736158	S28	LTR		0.00026	190.3
66119-2358		32	62498	736158	S28	LTR		0.00021	191.1
66119-2359		32	62498	736158	S28	LTR		0.00021	191.6
66119-2360		32	62498	736158	S28	LTR		0.00022	192.4
66119-2361		32	62498	736158	S28	LTR		0.00025	193.3
66119-2362		32	62498	736158	S28	LTR		0.00025	194.1
66119-2363		32	62498	736158	S28	LTR		0.00024	194.7
66119-2364		32	62498	736158	S28	LTR		0.00021	195.5
66119-2365		32	62498	736158	S28	LTR		0.00019	196.3
66119-2366		32	62498	736158	S28	LTR		0.00019	196.6
66119-2367		32	62498	736158	S28	LTR		0.00022	197.2
66119-2368		32	62498	736158	S28	LTR		0.00020	198.0
66119-2369		32	62498	736158	S28	LTR		0.00027	198.8
66119-2370		32	62498	736158	S28	LTR		0.00022	199.6
66119-2371		32	62498	736158	S28	LTR		0.00019	200.1
66119-2372		32	62498	736158	S28	LTR		0.00016	200.9
66119-2373		32	62498	736158	S28	LTR		0.00013	201.7
66119-2374		32	62498	736158	S28	LTR		0.00020	202.5
66119-2375		32	62498	736158	S28	LTR		0.00014	203.1
66119-2376		32	62498	736158	S28	LTR		0.00013	203.9
66119-2377		32	62498	736158	S28	LTR		0.00015	204.7
66119-2378		32	62498	736158	S28	LTR		0.00014	205.5
66119-2379		32	62498	736158	S28	LTR		0.00014	206.2
66119-2380		32	62498	736158	S28	LTR		0.00014	207.0
66119-2381		32	62498	736158	S13	LTR		0.00017	207.6
66119-2382		32	62498	736158	S28	LTR		0.00019	207.7
66119-2383		32	62498	736158	S28	LTR		0.00024	208.5
66119-2384		32	62498	736158	S28	LTR		0.00024	209.2
66119-2385		32	62498	736158	S13	LTR		0.00020	210.0
66119-2386		32	62498	736158	S13	LTR		0.00020	210.8
66119-2387		32	62498	736158	S13	LTR		0.00021	211.6
66119-2388		32	62498	736158	S13	LTR		0.00013	211.9
66119-2389		32	62498	736158	S13	LTR		0.00016	212.7
66119-2390		32	62498	736158	S28	LTR		0.00024	213.0

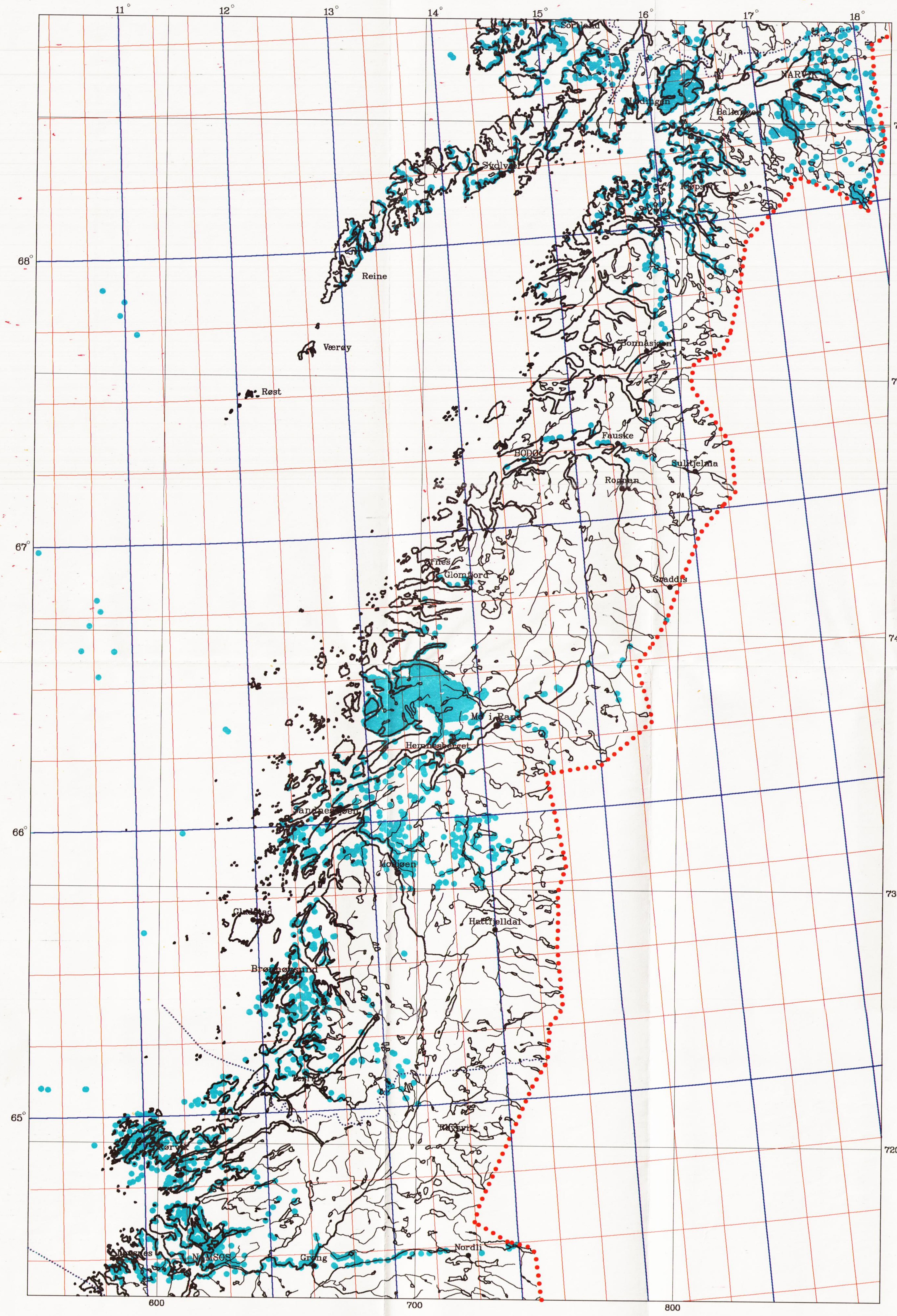
Appendix B, page 25.

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119-2391		32	62498	736158	S13	LTR		0.00019	213.6
66119-2392		32	62498	736158	S13	LTR		0.00019	214.4
66119-2393		32	62498	736158	S28	LTR		0.00025	215.0
66119-2394		32	62498	736158	S28	LTR		0.00019	215.8
66119-2395		32	62498	736158	S28	LTR		0.00022	216.6
66119-2396		32	62498	736158	S28	LTR		0.00025	217.5
66119-2397		32	62498	736158	S28	LTR		0.00025	218.3
66119-2398		32	62498	736158	S28	LTR		0.00025	219.1
66119-2399		32	62498	736158	S13	LTR		0.00025	219.5
66119-2400		32	62498	736158	S28	LTR		0.00019	220.0
66119-2401		32	62498	736158	S28	LTR		0.00019	220.2
66119-2402		32	62498	736158	S28	LTR		0.00020	221.0
66119-2403		32	62498	736158	S13	LTR		0.00019	221.6
66119-2404		32	62498	736158	S28	LTR		0.00022	221.8
66119-2405		32	62498	736158	S13	LTR		0.00019	222.2
66119-2406		32	62498	736158	S28	LTR		0.00019	222.8
66119-2407		32	62498	736158	S13	LTR		0.00011	223.0
66119-2408		32	62498	736158	S13	LTR		0.00019	223.6
66119-2409		32	62498	736158	S13	LTR		0.00015	224.4
66119-2410		32	62498	736158	S28	LTR		0.00031	225.1
66119-2411		32	62498	736158	S13	LTR		0.00019	225.6
66119-2412		32	62498	736158	S13	LTR		0.00019	225.9
66119-2413		32	62498	736158	S13	LTR		0.00019	226.6
66119-2414		32	62498	736158	S28	LTR		0.00020	227.3
66119-2415		32	62498	736158	S13	LTR		0.00019	227.4
66119-2416		32	62498	736158	S28	LTR		0.00020	228.0
66119-2417		32	62498	736158	S13	LTR		0.00014	228.5
66119-2418		32	62498	736158	S13	LTR		0.00015	229.0
66119-2419		32	62498	736158	S13	LTR		0.00014	229.8
66119-2420		32	62498	736158	S28	LTR		0.00026	230.6
66119-2421		32	62498	736158	S13	LTR		0.00019	231.4
66119-2422		32	62498	736158	S13	LTR		0.00022	231.8
66119-2423		32	62498	736158	S13	LTR		0.00019	232.6
66119-2424		32	62498	736158	S13	LTR		0.00021	233.4
66119-2425		32	62498	736158	S13	LTR		0.00013	234.2
66119-2426		32	62498	736158	S13	LTR		0.00015	234.8
66119-2427		32	62498	736158	S13	LTR		0.00013	235.6
66119-2428		32	62498	736158	S13	LTR		0.00014	236.4
66119-2429		32	62498	736158	S13	LTR		0.00019	237.2
66119-2430		32	62498	736158	S13	LTR		0.00022	238.0
66119-2431		32	62498	736158	S13	LTR		0.00019	238.8
66119-2432		32	62498	736158	S13	LTR		0.00016	239.6
66119-2433		32	62498	736158	S13	LTR		0.00021	240.4
66119-2434		32	62498	736158	S13	LTR		0.00029	240.8
66119-2435		32	62498	736158	S28	LTR		0.00026	241.6
66119-2436		32	62498	736158	S13	LTR		0.00016	242.4
66119-2437		32	62498	736158	S28	LTR		0.00020	243.2
66119-2438		32	62498	736158	S13	LTR		0.00015	244.0
66119-2439		32	62498	736158	S13	LTR		0.00020	244.8
66119-2440		32	62498	736158	S28	LTR		0.00019	245.4
66119-2441		32	62498	736158	S13	LTR		0.00015	246.2
66119-2442		32	62498	736158	S13	LTR		0.00014	247.0
66119-2443		32	62498	736158	S13	LTR		0.00022	247.8
66119-2444		32	62498	736158	S13	LTR		0.00020	248.4
66119-2445		32	62498	736158	S13	LTR		0.00010	249.2
66119-2446		32	62498	736158	S13	LTR		0.00022	250.0
66119-2447		32	62498	736158	S13	LTR		0.00022	250.0
66119-2448		32	62498	736158	S13	LTR		0.00019	250.7
66119-2449		32	62498	736158	S13	LTR		0.00013	251.5
66119-2450		32	62498	736158	S13	LTR		0.00025	252.3
66119-2451		32	62498	736158	S13	LTR		0.00013	253.1
66119-2452		32	62498	736158	S13	LTR		0.00009	254.1
66119-2453		32	62498	736158	S13	LTR		0.00025	254.9
66119-2454		32	62498	736158	S28	LTR		0.00016	255.7
66119-2455		32	62498	736158	S13	LTR		0.00019	255.5
66119-2456		32	62498	736158	S13	LTR		0.00013	257.2
66119-2457		32	62498	736158	S13	LTR		0.00015	258.0
66119-2458		32	62498	736158	S13	LTR		0.00015	258.8

Susceptibility measurements on cores from IKU shallow drilling programme.

Well No.	Sample No.	UTM zone	UTM-coord. 10 m		Lit. code	Strat. code	Rock type	Suscept. SI	Depth m
66119	2459	32	62498	736158	S13	LTR		0.00022	259.6
66119	2460	32	62498	736158	S13	LTR		0.00021	260.2
66119	2461	32	62498	736158	S13	LTR		0.00017	261.0
66119	2462	32	62498	736158	S13	LTR		0.00015	261.8
66119	2463	32	62498	736158	S28	LTR		0.00026	262.6
66119	2464	32	62498	736158	S28	LTR		0.00025	263.2
66119	2465	32	62498	736158	S13	LTR		0.00027	264.0
66119	2466	32	62498	736158	S13	LTR		0.00027	264.8
66119	2467	32	62498	736158	S13	LTR		0.00017	265.6
66119	2468	32	62498	736158	S13	LTR		0.00022	266.1
66119	2469	32	62498	736158	S13	LTR		0.00015	266.9
66119	2470	32	62498	736158	S28	LTR		0.00025	267.7
66119	2471	32	62498	736158	S13	LTR		0.00020	268.1
66119	2472	32	62498	736158	S28	LTR		0.00025	268.9
66119	2473	32	62498	736158	S28	LTR		0.00026	269.7
66119	2474	32	62498	736158	S13	LTR		0.00024	270.5
66119	2475	32	62498	736158	S28	LTR		0.00031	271.3
66119	2476	32	62498	736158	S28	LTR		0.00031	272.1
66119	2477	32	62498	736158	S28	LTR		0.00035	272.9
66119	2478	32	62498	736158	S28	LTR		0.00031	273.7
66119	2479	32	62498	736158	S28	LTR		0.00008	274.5
66119	2480	32	62498	736158	S13	LTR		0.00019	275.3
66119	2481	32	62498	736158	S13	LTR		0.00015	276.1
66119	2482	32	62498	736158	S13	LTR		0.00013	276.9
66119	2483	32	62498	736158	S13	LTR		0.00033	277.6
66119	2484	32	62498	736158	S28	LTR		0.00031	278.4
66119	2485	32	62498	736158	S13	LTR		0.00014	279.2
66119	2486	32	62498	736158	S28	LTR		0.00030	280.0



NGU

1858

PETROPHYSICAL DATA
NAS–94 PROJECT
NORDLAND
AREA

SAMPLE LOCATIONS

FORTROLIG

Målestokk, *Scale* 1 : 1 000 000

20 0 20 40 60 80 100km

Datum: ED50
Map projection: Universal Transverse Mercator, midtmeridian 15° E.Gr.

NORDLAND AEROMAGNETIC SURVEY 1994
SAMPLE LOCATIONS, PETROPHYSICAL DATA
Hand specimens and IKU shallow cores
NGU Report 95.039 Map 1, Scale 1 : 1000 000

9-APR-95 1522