

**Publications** (arranged chronologically and sorted alphabetically within each year)

**Grøsfjeld, K.**, Knies, J., Harland, R. & Howe, J. (2009): Dinoflagellate cyst assemblages inshore and offshore Svalbard reflecting their modern hydrography and climate. *Norwegian Journal of Geology* xx, xx., in press.

Howe, J. A., Harland, R., Cottier, F., Brand, T., Willis, K., Eriksson, A., **Grøsfjeld, K.** & Berge, J., (2009). Dinoflagellate cysts and organic geochemistry in Arctic fjords. In: (eds.) *Fjords: Depositional Systems and Archives*, Geological Society of London Special Publication, xx, xx., in prep.

Mertens, K.N. Ribeiro, S., Bouimetarhan, I., Caner, H., Combourieu Nebout, N., Dale, B., deVernal, A., Ellegaard, M., A., Filipova, M., Godhe, A., Goubert, E., **Grøsfjeld, K.**, Holzwarth, U., Kotthoff, U., Leroy, S.A.G., Londeix, L., Fabienne, M., Kazumi, M., Mudie, P., Naudts, L., Pena-Manjarrez, J.L., Persson, A., Popescu, S-M., Pospelova, V., Sangiorgi, F., van der Meer, M.T.J., Vink, A., Zonneveld, K.A.F., Vercauteren, D., Vlassenbroeck, J., Louwye, S. (2009). Process length variation in cysts of a dinoflagellate, *Lingulodinium machaerophorum* in surface sediments: Investigating its potential as salinity proxy. *Marine Micropaleontology* 70, 54–69., in press.

Rørvik, K-L, **Grøsfjeld, K.** & Hald, M. (2009): A late Holocene climate history from Malangen, a north Norwegian Fjord, based on dinocysts. *Norwegian Journal of Geology* xxi, xx., in press.

Sandrine, S., **Grøsfjeld, K.**, Girardeau, J., de Vernal, A. (2009): Distribution of modern dinocyst assemblages in the western Barents Sea. *Norwegian Journal of Geology* xx, xx., in press.

**Grøsfjeld, K.**, Funder, S., Seidenkrantz, M.-S. & Glaister, C. (2006): Last interglacial marine environments in the White Sea region, northwestern Russia. *Boreas* 35, 493-520.

Larsen, E., Kjær, K.H., Demidov, I., Funder, S., **Grøsfjeld, K.**, Houmark-Nielsen, M., Jensen, M., Linge, H., Lyså, A. & Murray, A. (2006): Late Pleistocene

palaeoenvironmental changes in NW Russia; Shifting ice sheet domains and proglacial lakes. *Boreas* 35, 476-492.

de Vernal, A., Henry, M., Matthiessen, J., Mudie, P. J., Rochon, A., Boessenkool, K.I., Eynaud, F., **Grøsfjeld, K.**, Guiot, J., Hamel, D., Harland, R., Head, M. J., Kunz-Pirrung, M., Levac, E., Loucheur, V., Peyron, O., Pospelova, V., Radi, T. Turon, J-L. & Voronina, E. (2001): Dinoflagellate cyst assemblages as tracers of sea-surface conditions in the northern North Atlantic, Arctic and sub-Arctic seas: the new "n = 677" data base and its application for quantitative palaeoceanographic reconstruction. *Journal of Quaternary Science* 16, 681-698.

Hald, M, Husum, K., Vorren, T.O., **Grøsfjeld, K.**, Jensen, H., & Sharapova, A. (2003). Holocene climate in the subarctic fjord, Malangen, Northern Norway: a multiproxy study. *Boreas* 32, 543-559.

**Grøsfjeld, K.** & Harland, R. (2001). Distribution of modern dinoflagellate cysts from inshore areas along the coast of southern Norway. *Journal of Quaternary Science* 16 (7), 651-659.

Houmark-Nielsen, M., Demidov, I., Funder, S., **Grøsfjeld, K.**, Kjær, K.H., Larsen, E., Lavrova, N., Lyså, A. & Nielsen, J.K. (2001): Early and Middle Valdaian glaciations, ice-dammed lakes and periglacial interstadials in northwest Russia: new evidence from the Pyoza River area. *Global and Planetary Change* 31: 215-237.

Olsen, L., Sveian, H., Bergstrøm, B., Selvik, S. F., Lauritzen, S.-E., Stokland, Ø. & **Grøsfjeld, K.** (2001): Methods and stratigraphies used to reconstruct Mid- and Late Weichselian palaeoenvironmental and palaeoclimatic changes in Norway. *Norges geologiske undersøkelse Bulletin* 438, 21-46.

Sejrup, H.P., Hafliðason, H., Flatebø, T., Klitgaard Kristensen, D., **Grøsfjeld, K.**, & Larsen, E, (2001): Late glacial-Holocene environmental changes and climate variability; evidence from Voldafjorden, western Norway. *Journal of Quaternary Science* 16: 181-198.

**Grøsfjeld, K.**, Larsen, E., Sejrup, H.P., de Vernal, Flatebø, T., Vestbø, M., Hafliðason, H. and Aarseth, I. (1999): Dinoflagellate cysts reflecting surface-water conditions in the Voldafjorden during the last 11,300 years. *Boreas* 28, 403-415.

Olsen, L. & **Grøsfjeld, K.** (1999): Middle and Late Weichselian high relative sea levels in Norway: implications for the glacial isostasy and the ice-retreat rates. *Norges geologiske undersøkelse Bulletin* 435: 43-51.

Ottesen, D., Bøe, R. & **Grøsfjeld, K.**, (1995): Carbonate sand deposition along the coast of southern Norway. *NGU- Bull* 427: 56-59.

**Grøsfjeld, K.**, (1991): Palynological age constraints on the base of the Helvetiafjellet Formation (Barremian) on Spitsbergen. *Polar Research* 11 (1), 11-19.

### **Popular Science (back to 2006)**

**Grøsfjeld, K.**, (2008). Geologisk kunnskap til fotturister – "Geologer på top". *GEO* 5, 12-13.

**Grøsfjeld, K.**, (2008). Ny alder fra gamle kjerner. *Geo – magasin for geomiljøet*, 2008 Nr. 8, p. 48.

**Grøsfjeld, K.**, (2007): Ørsmå planter i havet gir oss olje 36-38. *GEO Magasin for Geomiljøet* 4: 36-38.

**Kari Grøsfjeld**, (2006): Dinoflagellater – bare vakre, eller nyttige skapninger (foredrag Suhmhuset, Vitenskapsmuseet, 8. mai kl. 19.00). *Kunnskapskalender* 1.halvår 2006. Byen, bygdene og kunnskapen, p. 22.

**Grøsfjeld, K.**, (1991): Skjellsandutvinning - muligheter og konflikter. *Naturforvaltning* 4 (tema: Forvaltning av marine områder), 21-22.

Sejrup, H.P., Klitgaard Kristensen, D., Birks, J., Berstad, I., Bryn, P., **Grøsfjeld, K.**, Hafliðason, H., Mikalsen, G., Nordli, Ø, Flatebø, J. (2001): Temperaturforhold langs Norskekysten gjennom de siste 400 år. Cicerone 6, 19-21.

## **Reports**

**Grøsfjeld, K.**, 1989: Skjellsandkartlegging i Sund kommune, Hordaland (Mapping of carbonate sand, Sund municipal, Hordaland), NGU Report 89.122, 50 pp.

**Grøsfjeld, K.** 1991: Skjellsandkartlegging i Sund kommune, Hordaland, Supplerende undersøkelser, 1991 (Mapping of carbonate sand in the municipal of Sund, Hordaland, Additional investigations). NGU Report 91.210, 77 pp.

**Grøsfjeld, K.**, 1993: Smørepreparatanalyse av sedimenter i nordøstre del av Skagerrak (Smear slide analysis of sediments in northeastern Skagerrak). NGU Report 94.076, 64 pp.

**Grøsfjeld, K.**, 1994: Bruk av dinoflagellat cyster i kvartære og resente marine sedimenter. (Application of dinoflagellate cysts in Quaternary and modern sediments) NGU Report 94.005, 11 pp.

**Grøsfjeld, K.**, (1996): Dinocysts in Late Holocene sediments in the Skagerrak. NGU Report 96.122, 17 pp.

## **Other publications and abstracts**

**Talks** (Back to 2006)

**Grøsfjeld, K.**, Harland, R., Howe, J., Klitgard Kristensen, D.,

Knies, J., Koc, N., & Zajackowski, M. (2009): Dinoflagellate cyst assemblages inshore and offshore Svalbard reflecting the modern hydrography and climate, NGF Abstract and Proceedings of the Geological Society of Norway, No. 1, 2009, p. 42.

**Grøsfjeld, K.** (2008): Dinoflagellate cysts as stratigraphic and environmental indicators. 'Arctic Chronology Project' meeting, Det Norske Oljeselskap ASA, Harstad. Oral presentation: 16.09.08.

**Grøsfjeld, K.** (2007): Hydrological signals reflected by dinocysts in seabed samples from inshore and offshore Svalbard. Workshop in Arctic natural climate change. Tromsø, Norway. November 12-14, 2007.

**Grøsfjeld, K.** (2007): Dinoflagellate cysts: what are they and how can they contribute in Arctic research? Norsk Polarinstitutt, **POM***klim*. Torsdag 1. februar 2007, Rom 5010-12 "Tre Kroner" (NP) kl.11:30 – 12:30.

Funder, S., **Grøsfjeld, K.**, Lambeck, K. & Seidenkrantz, M-S, (2006): Early onset of The Gulf stream System in the Eemian – evidence from northern Russia. The 27<sup>th</sup> Nordic Geological Winter Meeting. Bulletin of the Geological Society of Finland, Special Issue 1 (Abstract volum), p. 37.

**Grøsfjeld, K.** & Knies, J., (2006): Modern dinocysts reflecting the influence of the Gulf Stream System in the Barents Sea, offshore Spitsbergen. Forth ESF Sediflux science meeting and first workshop of I.A.G/A.I.G. Sedibud. NGU, Trondheim, Norway. October 29th-November 02th 2006, p. 45.

**Grøsfjeld, K.** & Knies, J., (2006): Modern dinocyst assemblages from various environmental settings within the Arctic realm. Workshop on dinoflagellates and their cysts: their ecology and databases for palaeoenvironmental reconstructions. GEUS, Copenhagen. 10<sup>th</sup> – 12<sup>th</sup> November 2006, p. 11-12.

**Grøsfjeld, K.**, (2005): Anvendelsen af dinocyster i palaeoklimatiske rekonstruktioner (Application of dinocysts for paleoclimate reconstructions). Invited lecture - Quaternary Science seminars, Geocenter København, Universitetet i København, (25.02.05).

**Grøsfjeld, K.**, Funder, S. & Seidenkrantz, M.S. (2005): Last interglacial marine environment in the White Sea region, northern Russia. Workshop on Dinoflagellate and their cysts: Their Ecology and Databases for palaeoceanographic reconstructions. The University of Liverpool: 31th August-2nd September 2005, p. 10.

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**Grøsfjeld, K.**, Glaister, C, Demidov, I, Funder, S., Larsen, E, & Nielsen, J. K, Seidenkrantz; M.-S. (2002): Hydrography of the last interglacial in the White Sea region, based on dinoflagellate cysts, foraminifers, mollusc and pollen."Workshop on middle latitude dinoflagellates and their cysts", Bedford Institute of Oceanography, Nova Scotia, Canada, April 22-26, 2002. (40 minutes oral presentation).

Demidov, I., Larsen, E., Kjær, K.H., Houmark-Nielsen, M., Lyså, A., Funder, S., Nielsen, J.K & **Grøsfjeld, K.** (2001): Valdaian (Weichselian) glaciations in the Arkhangelsk region, north-western Russia. Journal of Conference Abstracts **6** (1), EUG XI, p. 211.

Funder, S., **Grøsfjeld, K.**, Nielsen, J.K. & Seidenkrantz, M-S. (2001): Eemian marine sediments and Faunas in the Arkhangelsk Region, Russia. Journal of Conference Abstracts **6** (1), EUG XI, p. 213.

de Vernal, A., Blake Jr., W., Darby, D., Hamel, D.D., Hillaire-Marcel, C., **Grøsfjeld, K.**, Kunz-Pirrung, M., Levac, E., Matthiessen, J., Mudie, P.J., Peyron, O., Polyak, L., Radi, T., Rochon, A., Turon, J.L. & Voronina, E., (2000): Late Quaternary variations of sea ice and sea-surface conditions in the Arctic and circum-Arctic based on dinocyst assemblages: preliminary results and methodological issues, The Second CAPE Synthesis Workshop, Kirkjubæjarklaustur, Iceland, 2-6 June, Abstract volume, p.25-26.

**Grøsfjeld, K.**, Birks, H. J. B.; Funder, S.; Larsen, E. & Nielsen, J.K. (2000): Sea-surface conditions during the last interglacial (Mikhulinian) climatic optimum

based on the content of dinocyst and mollusc at the Orlovets site, NW Russia.  
*NORPAST Workshop in Bergen, Norway, april, p....*

**Grøsfjeld, K.**, Birks, H. J. B; Hald, M., Husum, K. & Jensen, H. (2000):  
Dinoflagellate cysts assemblages as indicators of sea surface conditions from c.  
10300 to 1600 BP in Malangen, northern Norway. NORPAST Workshop 26-28  
april, Bergen, Norway, p 31.

**Grøsfjeld, K.**, Birks, J.B, Funder, S., Larsen, E. and Nielsen, J.K., (2000):  
Mikhulinian dinocysts and mollusk assemblages at the Orlovets site, NW Russia.  
International conference on past global change (PAGES). Core Project of the  
International Geosphere-Biosphere Programme. Upper Pleistocene and  
Holocene climatic variations. September 6-9, 2000, Praha, Czech Republic, p. 9.

**Grøsfjeld, K.**, Birks, J.B, Funder, S., Larsen, E. and Nielsen, J.K., (2000):  
Mikhulinian dinocysts and mollusk assemblages at the Orlovets site, NW Russia.  
Seminar: Biostratigraphy and paleoecology of the Norwegian continental shelf  
and coastal areas. The Geological Survey of Norway, 13<sup>th</sup> and 14<sup>th</sup> September,  
2000, p.30.

**Grøsfjeld, K** , Birks, H. J. B; Hald, M., Husum, K. & Jensen, H. (2000):  
Dinoflagellate cysts reflecting surface-water conditions in Malangenfjorden,  
Northern Norway during the last c. 9 ka BP. *Geonytt* no. 1, 2000: 24. Nordiske  
Geologiske vintermøte, Trondheim, 6.-9. januar 2000. p. 73.

**Grøsfjeld, K** , Birks, H. J. B.; Funder, S.; Larsen, E. & Nielsen, J.K.. (2000):  
Mikhulinian dinocyst and mollusc stratigraphy at the Orlovets site, NW Russia.  
*Fourth QUEEN Workshop in Lund, Sweden 7-10 april, p. 16.*

Hald, M, Husum, K., **Grøsfjeld, K.**, Jensen, H., Sharapova, A. and Vorren, T.O.  
(2001): Sedimentary environment and climate during the Holocene in the  
subarctic fjord, Malangen, Northern Norway: a multi proxy study. Abstract from  
"Changes in Climate and Environment at high latitudes"an International  
Conference at the University of Tromsø, Oct 31-Nov. 2, 2001. *NGF Abstracts  
and Proceeding of the Norwegian Geological Society 2, 2001a.*

Hald, M, Husum, K., **Grøsfjeld, K.**, Jensen, H., Sharapova, A. and Vorren, T.O. (2001): Sedimentary environment and climate during the Holocene in the subarctic fjord, Malangen, Northern Norway: a multi proxy study. *Abstract programkonferanse i Bergen 27-29.11 2001 Forskningsprogram om endringer i klima og ozon.*

Hald, M., Husum, K., Vorren, T.O., **Grøsfjeld, K.** Jensen, H., Mikalsen, G. & Sharapova, A. (2001): Holocene sedimentary environment and climatic shifts reconstructed from sediment cores in the fjord Malangen, northern Norway. Abstract Norwegian Geological Winter Meeting, Oslo January 2001.

Head, M. J, Gibbard, P.L. and **Grøsfjeld, K.** (2001): (oral presentation): Dinoflagellates and hydrography of the last interglacial (Eemian, Mikulino) in the Baltic Sea White Sea region. Baltic Sea Science congress in Stockholm on November 25-29th Symposium: Eemian.

Houmark-Nielsen, M., Demidov, I, Funder, S., **Grøsfjeld, K.** Kjær, K, Larsen, E, Lavrova, N., Lyså, A. & Nielsen, J. (2001): Late Pleistocene Land, Sea, Lake and Ice distribution in the Arkhangelsk region, northwestern Russia. Journal of Conference Abstracts **6** (1), EUG XI, p. 212.

Jensen, H.K.B., Hald, M., Husum, K., **Grøsfjeld, K.** (2001): Temporal geochemical variations in Holocene subarctic fjord sediments - an example from Malangen, Northern Norway. Abstract from "Changes in Climate and Environment at high latitudes" an International Conference at the University of Tromsø, Oct 31-Nov. 2, 2001. *NGF Abstracts and Proceeding of the Norwegian Geological Society 2*, 2001.

Larsen, E., Demidov, I, Funder, S., **Grøsfjeld, K.**, Houmark-Nielsen, M., Kjær, K.H., Lavrova, N., Lyså & Nielsen, J.K. (2001): Palaeogeographical reconstructions around the busiest Weichselian ice-flow junction in northern Russia. Journal of Conference Abstracts **6** (1), EUG XI, p. 218.

Lyså, A., **Grøsfjeld, K.**, Sejrup, H.P, Smelror, M., Stalsberg, M.K., Aarseth, I. (2001): Environment and climatic changes during the late glacial-Holocene

period, Ranafjorden, northern Norway. Abstract from "Changes in Climate and Environment at high latitudes"an International Conference at the University of Tromsø, Oct 31-Nov. 2, 2001. *NGF Abstracts and Proceeding of the Norwegian Geological Society 2*, 2001.

Harland, R. & **Grøsfjeld, K.**, (2000): Dinoflagellate cyst analysis of modern sediments collected from fjords along the southern and south-western coast of Norway. 2<sup>nd</sup> Workshop on Arctic and Circumarctic Dinoflagellate cysts, GEOTOP, Université de Québec á Montréal, Canada, 2<sup>nd</sup> to 5<sup>th</sup> May 2000,

Harland, R. & **Grøsfjeld, K.**, (2000): Distribution of dinoflagellate cysts in inshore areas along the coast of southern Norway (from Kragerø to Kristiansund). Seminar: Biostratigraphy and paleoecology of the Norwegian continental shelf and coastal areas. The Geological Survey of Norway, 13<sup>th</sup> and 14<sup>th</sup> September, 2000, p. 22.

Houmark-Nielsen, M., Demidov, I., Funder, S., **Grøsfjeld, K.**, Kjær, K.H., Larsen, E., Lyså, A & Nielsen, J.K. (1999): Valdaian stratigraphy in the Mezen region: Multible glaciations from the east, ice-dammed lakes and periglacial sandurs. *Absrtracts - Third QUEEN Workshop i Øystese, Norway 16-18 april*, p. 16.

Demidov I.; Larsen, E, Lyså, A, Funder, S. , Houmark-Nielsen, M., Kjær, K., Nielsen, K. & **Grøsfjeld, K.** (1999): The study of Valdai environment in North European Russia: A historic background and new results. *Absrtracts - Third QUEEN Workshop i Øystese, Norway 16-18 april*, p. 5.

Kjær, K.H., Funder S.; **Grøsfjeld, K**; Houmark-Nielsen, M.; Larsen, E., Lyså, A. & Nielsen, J.K. 1999: Signature of Valdaian glaciations in the Arkhangelsk region: evidence of ice-streams from Scandinavia, Kara Sea and Timan. *Absrtracts - Third QUEEN Workshop i Øystese, Norway 16-18 april*, p. 25.

**Grøsfjeld, K.**, 1990: Ressurskartlegging i Sund, undersøkingar i 1989-90 (30 min. foredrag). Miljøvern i kommunane - Møte i regionalt forum i Sund kommune den 12.-13 sept. 1990.

Nielsen, J.K., Demidov, I., Funder, S, **Grøsfjeld**, K, Houmark-Nielsen, M., Kjær, K.H. and Larsen, E. 1999: Marine molluscs in the interglacial deposits along the river Pyoza, Arkhangelsk region, Russia. . *Absrtracts - Third QUEEN Workshop i Øystese, Norway 16-18 april*, p. 45.

**Grøsfjeld, K.** (1992): Marine carbonate sand deposition, southwest of Sotra, western Norway. 20<sup>th</sup> Nordic Geological Winter Meeting 7-10 January, Reykjavik 1992: Abstracts, p. 55 (oral presentation).

**Grøsfjeld, K.** (1996): *Bruk av dinocyster i kvartære avsetninger i Nordsjøen.* – Internt foredrag på NGU for om potensiale til dinocysteanalyse som metode ved undersøkelse av kvartære avsetninger i Nordsjøen.

**Grøsfjeld, K.**, Aarseth, I., Flatebø, T., Hafliðason, Larsen, E., H., Sejrup, H.P., de Vernal, A. and Vestbø, M. (1998): Dinoflagellate cysts reflecting surface-water conditions in the Voldafjorden, western Norway during the last 11 300 <sup>14</sup>C years. *In* M. Smelror (ed.): Abstracts from the Sixth International Conference on Modern and Fossil Dinoflagellates Dino 6, Trondheim, June 1998, p. 50.

**Grøsfjeld, K.**, Larsen, E., & Seirup, H.P. (1998): Variation in surface water mass conditions in the Voldafjorden during the last ca. 11300 C14 years BP, based on dinoflagellate cysts. 23. Nordiske Geologiske Vintermøde, Århus 13-16 januar 1998 (Abstract Volume, p. 97).

**Grøsfjeld, K.** & Larsen E. & Seirup, H.P. (1997): Dinocyster i senglaciale og Holocene sedimenter i Voldafjorden. NGF XV landsmøte, Bergen 9-11. Januar 1997. (Abstract Geonytt 24, 43-44).

**Grøsfjeld, K.** (1997): Senglasiale og Holocene variasjoner i overflatevannforhold i Voldafjorden, basert på studier av dinoflagellater. FoU-seminar, NGU, 29-30. april 1997, Trondheim.

## Poster

**Grøsfjeld, K.**, Andreassen, K., Fabian, K., Hald, M., Husum, K., & Knies, J. (2009): Towards a better Plio-Pleistocene chronostratigraphy in the Arctic. NGF Abstract and Proceedings of the Geological Society of Norway, No. 1, 2009, 41-42.

**Grøsfjeld, K.**, Klitgard Kristensen, D., Koc, N., & Zajackowski, M. (2009): Dinoflagellate cyst assemblages in two fjords west of Spitsbergen (Hornsund and Kongsfjorden) reflecting different conditions in the sea surface water, NGF Abstract and Proceedings of the Geological Society of Norway, No. 1, 2009, p. 42.

**Grøsfjeld, K.**, Glaister, C, Demidov, I, Funder, S., Larsen, E, & Nielsen, J. K, Seidenkrantz; M-S, (2002) (poster presentation). Hydrography of the last interglacial in the White Sea region, based on dinoflagellate cysts, foraminifers, mollusc and pollen, 2002. Quaternary Environment of the Eurasian North (QUEEN), Sixth Queen Workshop, Spiez, Switzerland, 24-28 May 2002, p. 15-16.

Seidenkrantz; M-S, Glaister, C, Funder, S, Nielsen, J. K, **Grøsfjeld, K.**, Larsen, E, & Demidov, I. (2002): White Sea hydrography during the last interglacial (Mikulino): results from the Archangelsk region. Quaternary Environment of the Eurasian North (QUEEN), Sixth Queen Workshop, Spiez, Switzerland, 24-28 May 2002, p. 49. (poster presentation).

**Grøsfjeld, K.**, Birks, H.J.B., Funder, S., Larsen, E., Nielsen, J.K. (2001): Mikhulinian dinocysts and mollusc assemblages of the Orlovets site, NW Russia. Balteem Workshop, 30.03.01-02.04.01, Estonia. Poster, uten poster abstract.

**Grøsfjeld, K.**, Birks, H. J. B; Hald, M., Husum, K. & Jensen, H. (2000): Sea surface water conditions during the last c. 10 300 BP in Malangen indicated by dinoflagellate cysts. NORPAST Workshop...april, Bergen, Norway, p.....

**Grøsfjeld, K.**, Birks, J.B, Hald, M., Husum, K. & Jensen, H. (2000): Sea-surface conditions during c. 10300 to 1600 yrs. BP in Malangen, northern Norway, based on dinoflagellate cyst assemblages. Seminar: Biostratigraphy and paleoecology

of the Norwegian continental shelf and coastal areas. The Geological Survey of Norway, 13<sup>th</sup> and 14<sup>th</sup> September, 2000, p. 32.