

# GEOLOGI FOR SAMFUNNET

*GEOLOGY FOR SOCIETY*



# ÅRSMELDING 2013

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# KART OG PUBLIKASJONER UTGITT AV NGU

## **Kart**

*Oversikten gjelder kart utgitt i forskjellige målestokker på papir som farvetrykk eller fargeplott. Digitale kartdata kan plottes på forespørsel. Prisen på et farge plottkart i normal kvalitet (inntil A0 størrelse) vil være kr. 150,-*

*Ettersom alle kart produseres digitalt og ligger i databaser, vil et digitalt utsnitt (datasett) kunne lastes ned (gratis) fra våre nettsider. Om annen type data ønskes bestilt tas det ca. kr. 500,- + mva per datasett til dekning av uttaks- og tilretteleggingskostnader. Kartdatasett for berggrunn og løsmasser, mangler foreløpig punktinformasjonen (symbolene). Datainnholdet følger SOSI-standarden, og avledede egenskaper kan være lagt inn. Alle linjestykker inneholder kvalitets- og metadataparametre. En standard leveranse ved bestilling vil være på SOSI-format eller ESRI-formater og med datum Euref89/gjeldende UTM-soner.*

## **Berggrunnsgeologiske kart**

### **M 1:50 000 (fargeplott)**

Bandak 1513 I (Nilsen, K.S., Dons, J.A. & Gyøry, E.)  
Blåfjellhatten 1923 III (Fossen, H., Nissen, A.L. & Roberts, D.).  
Gjevsjøen 1823 II (Sjöström, H. & Roberts, D.).  
Hopseidet 2236 I (Roberts, D. & Siedlecka, A.).  
Kjøllefjord 2236 IV (Roberts, D. & Williams, G.D.).  
Snåsa 1823 III (Roberts, D.).  
Sokndal 1311 IV (Marker, M.)  
Synnfjell 1717 II (Hossack, J.)  
Vindafjord 1213 I.(Marker, M., Solli, A. & Slagstad, T.)

## **Kvartærgeologiske kart**

### **M 1:50 000 (fargeplott)**

Fauske 2129 IV (Olsen, L.)  
Kristiansand 1511 III (Follestad, B.A., Fredin, O. & Olsen, L.)  
Mandal og Ryvingen 1411 II og 1410 I (Olsen, L., Riiber, K., Sveian, H. & Bergstrøm, B.)  
Snåsavatnet 1723 II (Thoresen, M.K., Sveian, H. & Lien, R.)

### **M 1:1 mill.**

Kvartærgeologisk kart over Norge. Tema: Jordarter. Rev., 3. oppl (Thoresen, M.).

## Geofysiske kart

### Helikoptermålinger (Magnetiske, elektromagnetiske og radiometriske kart)

- Austvågøya, Nordland (NGU Rapport 2013.045)
- Evenes-området, Nordland (NGU Rapport 2013.046)
- Holandsfjord, Meløy og Rødøy kommuner, Nordland (NGU Rapport 2013.043)
- Kongsbergområdet, Buskerud og Vestfold (NGU Rapport 2013.029)
- Langøya i Vesterålen, Nordland (NGU Rapport 2013.044)
- Nordlige Senja, Troms (NGU Rapport 2013.047)
- Repparfjord-vinduet, Alta og Kvalsund kommuner, Nordland (NGU Rapport 2013.027)
- Øksfjordhalvøya, Loppa og Alta kommuner, Finnmark (NGU Rapport 2013.050)

## Maringeologiske kart

(Digitale kart tilgjengelig på: <http://www.ngu.no/hm/Kart-og-data/> eller <http://www.mareano.no>)

- Bellec, V. & Lepland, A.:** Bunn sedimenter (dannelse). Iverryggen.
- Bellec, V. & Lepland, A.:** Sedimentasjonsmiljø. Iverryggen.
- Bellec, V. & Lepland, A.:** Bunn sedimenter (kornstørrelse). Mørebankene-Kristiansund-Halten.
- Bellec, V. & Lepland, A.:** Bunn sedimenter (dannelse). Mørebankene-Kristiansund-Halten.
- Bellec, V. & Lepland, A.:** Sedimentasjonsmiljø. Mørebankene-Kristiansund-Halten.
- Bellec, V., Plassen, L. & Lepland, A.:** Bunn sedimenter (dannelse). Storegga Nord.
- Bjarnadóttir, L.R., Bellec, V. & Lepland, A.:** Bunn sedimenter (kornstørrelse). Iverryggen.
- Dolan, M., Bellec, V., Winsborrow, M. & Lepland, A.:** Hard og myk bunn. Nordland VI.
- Dolan, M., Bellec, V. & Lepland, A.:** Hard og myk bunn. Iverryggen.
- Dolan, M., Bellec, V. & Lepland, A.:** Hard og myk bunn. Storegga Nord.
- Dolan, M., Bellec, V. & Lepland, A.:** Hard og myk bunn. Mørebankene-Kristiansund-Halten.
- Dolan, M., Buhl-Mortensen, P., Bellec, V., Elvenes, S., Lepland, A., Plassen, L. & Bjarnadóttir, L.:** Biotoper - Midtnorsk sokkel.
- Dolan, M., Buhl-Mortensen, P., Bellec, V., Elvenes, S. & Lepland, A.:** Biotoper. Nordland VI.
- Dolan, M., Buhl-Mortensen P., Lepland, A. & Bellec, V.:** Biotoper. Tromsøflaket-Eggakanten.
- Elvenes, S.:** Landskap, Midtnorsk sokkel.
- Elvenes, S.:** Landskap, Tidligere omstridt område.
- Lepland, A. & Plassen, L.:** Ankringsforhold, Drammensfjorden.
- Lepland, A. & Plassen, L.:** Bratt og flat fjordbunn, Drammensfjorden.
- Longva, O. & Lepland, A.:** Bunnfellingsområder. Borgenfjorden.
- Longva, O. & Lepland, A.:** Bunn sedimenter (kornstørrelse), Borgenfjorden.
- Longva, O. & Lepland, A.:** Gravbarhet. Borgenfjorden.
- Plassen, L. & Lepland, A.:** Bunnfellingsområder, Drammensfjorden.
- Plassen, L. & Lepland, A.:** Bunn sedimenter (kornstørrelse), Drammensfjorden.
- Plassen, L. & Lepland, A.:** Gravbarhet, Drammensfjorden.

- Plassen, L.,** Lepland, A. & Bellec, V.: Bunn-sedimenter (kornstørrelse), Storegga Nord.
- Plassen, L.,** Lepland, A. & Bellec, V.: Sedimentasjonsmiljø, Storegga Nord..
- Plassen, L.,** Lepland, A., Elvenes, S. & Bellec, V.: Landskap og landformer, Storegga Nord.

### **Ressurskart sand, grus, pukk og steintipper**

- Libach, L.:** Ressurskart: Sand, grus og pukk i Dovre kommune
- Libach, L.:** Ressurskart: Sand, grus og pukk i Lesja kommune
- Libach, L. & Wolden, K.:** Ressurskart: Sand, grus og pukk i Lom kommune
- Libach, L. & Wolden, K.:** Ressurskart: Sand, grus og pukk i Nord- og Sør-Fron kommuner
- Libach, L. & Wolden, K.:** Ressurskart: Sand, grus og pukk i Sel kommune
- Libach, L. & Wolden, K.:** Ressurskart: Sand, grus og pukk i Skjåk kommune
- Libach, L. & Wolden, K.:** Ressurskart: Sand, grus og pukk i Vågå kommune
- Wolden, K.:** Ressurskart: Sand, grus og pukk i Gausdal kommune.
- Wolden, K.:** Ressurskart: Sand, grus og pukk i Gjøvik kommune.
- Wolden, K.:** Ressurskart: Sand, grus og pukk i Gran kommune.
- Wolden, K.:** Ressurskart: Sand, grus og pukk i Lillehammer kommune.
- Wolden, K.:** Ressurskart: Sand, grus og pukk i Ringebu kommune.
- Wolden, K.:** Ressurskart: Sand, grus og pukk i Vestre Toten kommune.
- Wolden, K.:** Ressurskart: Sand, grus og pukk i Østre Toten kommune.
- Wolden, K.:** Ressurskart: Sand, grus og pukk i Øyer kommune.

## ***Publikasjoner og bøker***

### **NGU Special Publication 13: Quaternary geology of Norway**

**Olsen, L.,** Fredin, O. & Olesen, O.: Introduction

**Fredin, O.,** Bergstrøm, B., Eilertsen, R., Hansen, L., Longva, O., Nesje, H. & Sveian, H.: Glacial landforms and Quaternary landscape development in Norway

**Olsen, L.,** Sveian, H., Bergstrøm, B., Ottesen, D. & Rise, L.: Quaternary glaciations and their variations in Norway and on the Norwegian continental shelf

**Olsen, L.,** Sveian, H., Ottesen, D. & Rise, L.: Quaternary glacial, interglacial and interstadial deposits of Norway and adjacent onshore and offshore areas

**Olesen, O.,** Bergum, H., Dehls, J., Lindholm, C., Pascal, C. & Roberts, D.: Neotectonics, seismicity and contemporary stress field in Norway - mechanisms and implications

### ***Brosjyrer***

(<http://www.ngu.no/no/hm/Publikasjoner/Brosjyrer-fra-NGU2/>)

I serien NGU-Fokus (<http://www.ngu.no/no/hm/Publikasjoner/Brosjyrer-fra-NGU2/NGU-Fokus/>):

- Mineral resources in Norway
- Geologien i min kommune
- Byggeråstoffene sand, grus og pukk for bruk i arealplanlegging
- MINN – Mineral resources in North Norway

Øvrige brosjyrer

- Quaternary geology of Norway – Flyer
- GEMAS brosjyre
- Mineralressurser i Nord-Norge (MINN). Status 2013
- Annual report / Årsmelding 2012  
([http://issuu.com/ngu/docs/aarsmelding\\_2012\\_web](http://issuu.com/ngu/docs/aarsmelding_2012_web))

## ***Publisering på nett***

### **NGUs nettportal:**

NGUs kommunikasjonskanal på nett

<http://www.ngu.no/>

### **MAREANO - Marin arealdatabase for norske kyst- og havområder:**

Kunnskap om havet: MAREANO kartlegger dybde, bunnforhold, naturtyper og forurensning i norske havområder. Resultatene gjøres tilgjengelig på disse nettsidene og visualiseres ved hjelp av kart. I tillegg leverer en rekke samarbeidspartnere data og kart fra sin virksomhet.

<http://www.mareano.no/>

### **Grunnvann i Norge:**

Nettstedet inneholder både generell kunnskap og spesifikk informasjon om grunnvann i Norge. Her finnes blant annet informasjon om bruk, forvaltning og forskning.

<http://www.grunnvann.no/>

### **Skred i Norge:**

Skrednett viser data om alle typer skred over hele landet på kart. Her finnes både informasjon om skredfarlige områder og om faktiske hendelser i historisk og førhistorisk tid.

<http://www.skrednett.no>

### **Kvernsteinslandskap i Norge**

Nettsted der geologer, arkeologer, historikere, geografer og folk med kunnskap om håndverksteknikkene samarbeider om å studere en type kultur- og industrilandskap som lenge har vært glemt i Norge, men som var viktig for vårt daglige brød:

Steinbruddslandskapene som ble til gjennom 1500 år med kvernsteinsproduksjon

<http://www.millstone.no>



## **NGU-rapporter**

<http://www.ngu.no/no/hm/Publikasjoner/Rapporter/2013/>

### **Anvendt geofysikk**

- Baranwal, V., Olesen, O. & Rønning, J.S.:** Preparation of Action map for tunnel planning in the South-Eastern Norway: Mapping of deep-weathered weak zones. NGU-report 2013.003.
- Baranwal, V., Rodionov, A., Ofstad, F., Koziel, J. & Lynum, R.:** Helicopter-borne magnetic, electromagnetic and radiometric geophysical surveys in the Kongsberg region: Krøderen, Sokna, Hønefoss, Kongsberg and Numedalen. NGU-report 2013.029.
- Dalsegg, E. & Koziel, J.:** Geofysiske målinger Vannareid og Fakken, Vanna, Karlsøy kommune, Troms. NGU-rapport 2012.060.
- Elvebakk, H.:** Borehullslogging i KH-08, Åknes, Stranda kommune, Møre og Romsdal. NGU-rapport 2013.032.
- Elvebakk, H.:** Borehullslogging med optisk televiwer, Jettan 1, Nordnesfjellet, Kåfjord kommune, Troms. NGU-rapport 2013.020.
- Ganerød, G.V.:** Geological logging of drill core from borehole NN-01-12 at Jettan, Nordnes mountain in Troms county, Northern Norway. NGU-report 2013.042.
- Ganerød, G.V.:** Geological logging of drill cores from borehole KH-08-12 at Åknes, Møre & Romsdal, Western Norway. NGU-report 2013.039.
- Ganerød, G.V., Baranwal, V., Elvebakk, H., Frengstad, B., Lauritsen, T., Lindahl, I., Rønning, J.S. & Sjørdal, T.:** Geologiske bakgrunnsdata for kartlegging av radonfare i Norge. NGU-rapport 2012.067.
- Ofstad, F., Baranwal, V., Koziel, J., Lynum, R. & Rodionov, A.:** Helicopter-borne magnetic, electromagnetic and radiometric geophysical survey in Repparfjord area, Alta and Kvalsund, Finnmark. NGU-report 2013.027.
- Rodionov, A., Ofstad, F., Lynum, R. & Tassis, G.:** Helicopter-borne magnetic, electromagnetic and radiometric geophysical survey in the Alta - Kvænangen area, Troms and Finnmark. NGU-report 2012.065.
- Rodionov, A., Ofstad, F. & Stampolidis, A. & Tassis, G.:** Helicopter-borne magnetic, electromagnetic and radiometric geophysical survey in the Senja, Berg, Lenvik and Tranøy Municipalities, Troms County. NGU-report 2013.047.
- Rodionov, A., Ofstad, F., Stampolidis, A. & Tassis, G.:** Helicopter-borne magnetic, electromagnetic and radiometric geophysical survey at Langøya in Vesterålen, Nordland. NGU-report 2013.044.
- Rodionov, A., Ofstad, F., Stampolidis, A. & Tassis, G.:** Helicopter-borne magnetic, electromagnetic and radiometric geophysical survey in the Evenes area. Evenes, Narvik, Skånland and Tjeldsund Municipalities, Nordland and Troms Counties. NGU-report 2013.046.
- Rodionov, A., Ofstad, F., Stampolidis, A. & Tassis, G.:** Helicopter-borne magnetic, electromagnetic and radiometric geophysical survey in the Øksfjord area, Finnmark. NGU-report 2013.050.
- Rodionov, A., Ofstad, F. & Tassis, G.:** Helicopter-borne magnetic, electromagnetic and radiometric geophysical survey in Holandsfjorden area, Meløy, Nordland. NGU-report 2013.043.

**Rodionov, A.**, Ofstad, F. & Tassis, G.: Helicopter-borne magnetic, electromagnetic and radiometric geophysical survey in Kvæfjord area, Kvæfjord, Troms. NGU-report 2012.055.

**Rodionov, A.**, Ofstad, F. & Tassis, G.: Helicopter-borne magnetic, electromagnetic and radiometric geophysical survey in the western part of Austvågøya, Lofoten archipelago, Nordland. NGU-report 2013.045.

## **Berggrunn**

**Bingen, B.** & Solli, A.: Geochronological database of magnetic events in Norway and related areas: update 2012. NGU-report 2013.028.

## **Byggeråstoffer**

**Lindahl, I.**: Om kleberstein- og kvernstein-lokaliteter i sørlige del av Troms fylke. NGU-rapport 2013.013.

**Neeb, P.R.**: Mineralressurser i Norge 2012. Mineralressurser og bergindustriberetning. NGU og DMF Publikasjon nr. 1

**Neeb, P.R.**: Norway's coastal aggregates. Export 2012 and potential. NGU-report 2013.036.

**Watson, R.J.**, Erichsen, E., Finne, T.E., Ganerød, G.V., Neeb, P., Rønning, J.S. & Tangstad, R.: Radontrygge byggeråstoffer. Vurdering av kartleggingsmetoder og fastsettelse av grenseverdier for pukkbergarter. NGU-rapport 2013.031.

## **Geokjemi**

**Finne, T.E.**: Kadmium i løsmasser, overflatevann og grunnvann fra Salten som lokalt naturlig bidrag til forhøyet Cd- nivå i taskekrabbe langs kysten. NGU-rapport 2013.056.

**Jensen, H.K.B.**, Finne, T.E., Gwynn, J. & Jensen, L.K.: Forurensningsbelastning i humusprøver fra østlige og indre Finnmark: tungmetaller, radioaktive elementer, arsen, og PAH16 og variasjoner i perioden 1995-2011. NGU-rapport 2012.042.

**Jensen, H.K.B.**, Knies, J., Finne, T.E. & Thorsnes, T.: Miljøgeokjemiske data og dateringsresultater fra Finnmark, Nordland VI og Mørebankene - MAREANO. NGU-rapport 2013.041

## **Grunnvann og urbangeologi**

**Engdal, M.**, Aune, T. & Frengstad, B.: 22nd NGU Seminar on Hydrogeology and Environment, May 14-15, 2013. "Groundwater and Cultural Heritage". NGU-report 2013.024.

**Gaut, S.** & Storrø, G.: Holmedal well field, Sunnfjord. Tracer tests and borehole geophysics conducted in 1999. NGU-report 2012.052.

**Storrø, G.**: Hydrogeologiske og maringeologiske undersøkelser av Nordbreigrunnen i Meløy kommune, Nordland fylke. NGU-rapport 2012.035.

## Maringeologi

- Bøe, R.**, Winsborrow, M., Rise, L., Dolan, M., Chand, S., Knies, J., Walderhaug, O. & Bellec, V.: Sandwaves and sand transport on the Barents Sea continental margin. NGU-report 2013.005. Confidential
- Chand, S.**, Thorsnes, T., Lepland, A., Rise, L. & Bøe, R.: Pockmarks, gas flares, carbonate crusts and their relation to tectonic and stratigraphic evolution of southwestern Barents Sea. NGU-report 2013.025. Confidential
- Longva, O.**, Mork, J., Lepland, A., McClimans, T. & Rise, L.: Miljøstatus i Borgenfjorden. NGU-rapport 2013.054.
- Rise, L.** & Brendryen, J.: Leirinnhold i jordarter - en sammenlignende studie med vekt på Coulter Laser 200 og Sedigraph, og forslag til beregning av ekvivalent leirinnhold i prosent. NGU-rapport 2013.012.
- Thorsnes, T.**, Sandberg, J.H., Longva, O., Røyland, G., Jakobsen, P.-A. & Hestvik, O.B.: Nye marine grunnkart i fiskeri-og havbruksnæringen - Fase 2. NGU-rapport 2013.037.

## Mineralressurser

- Bjerkgård, T.**, Marker, M., Slagstad, T. & Solli, A.: The Mofjell project: summary and conclusions. NGU-report 2013.048.
- Boyd, R.**, Gautneb, H., Ihlen, P.M., Korneliussen, A., Müller, A. & Wanvik, J.E.: Mineral- og metallressurser i Norge: Verdien av industrimineralforekomster av nasjonal betydning. NGU-rapport 2012.053.
- Ihlen, P.M.** & Furuhaug, L.: Kvalitetstest av metode for borkaksprøvetaking av apatitt-pyrokсенitter i Misværdalen, Nordland. NGU-rapport 2012.001.
- Lynum, R.**, Gautneb, H. & Korneliussen, A.: Fluoranalyser av vannprøver fra bekker i Sør-Norge. NGU-rapport 2013.006.
- Müller, A.**: The chemistry of the mobile phones Nokia Nuron 5230, Nokia 5130 and Sony Ericsson W595. NGU-report 2013.026.
- Müller, A.** & Wanvik, J.E.: Kjemisk og minrealogisk karakterisering av kvartsitt fra Hanestad i Rendalen. NGU-rapport 2013.004.
- Schilling, J.**: Petrography, mineralogy and whole-rock data of the major lithologies of the Fen Complex. NGU-report 2013.034.
- Schilling, J.**: REE potential of bedrock on Nordkinn Peninsula, Finnmark. NGU-report 2013.033.

## Skred

- Bunkholt, H.**, Otterå, S., Yugsi Molina, F.X., Hermanns, R.L., Dehls, J., Osmundsen, P.T., Redfield, T., Eiken, T. & Böhme, M.: Undersøkelser av ustabile fjellpartier i Troms - status og planer etter feltarbeid 2011 og 2012. NGU-rapport 2013.021.
- Eilertsen, R.S.** & Longva, O.: Sjøbunnkartlegging ved Kristiansand, Kristiansand kommune, Vest-Agder. NGU-rapport 2013.007.
- Oppikofer, T.**, Saintot, A., Otterå, S., Hermanns, R.L., Anda, E., Dahle, H. & Eiken, T.: Investigations on unstable rock slopes in Møre og Romsdal - status and plans after field surveys in 2012. NGU-report 2013.014.

**Oppikofer, T.**, Saintot, A., Otterå, S., Sandøy, G., Hermanns, R.L., Anda, E., Dahle, H. & Eiken, T.: Undersøkelser av ustabile fjellpartier i Møre og Romsdal – status og planer etter feltarbeid i 2012. NGU-rapport 2013.053.

### **Sokkelgeofysikk**

**Haase, C.** & Ebbing, J.: Complete Bouguer Correction - Statoil database Offshore Mid-Norway. NGU-report 2013.038. Confidential

**Maystrenko, Y.P.:** 2D gravity, magnetic and thermal modelling near Bergen and Stavanger, a COOP Report. NGU-report 2013.059. Confidential

**Olesen, O.**, Brønner, M., Ebbing, J., Elvebakk, H., Gellein, J., Koziel, J., Lauritsen, T., Lutro, O., Maystrenko, Y., Müller, C., Nasuti, A., Osmundsen, P.T., Slagstad, T. & Storrø, G.: Coop Phase I - Crustal Onshore-Offshore Project. NGU-report 2013.002. Confidential

# EKSTERN PUBLISERING

## *Eksterne rapporter*

### **Geokjemi**

**Moen, V.** & Flem, B.: Assigning origins of escaped farmed salmon (*Salmo salar L.*) by naturally occurring trace elements in scales – a test concept. Oppdragsrapport SalMar. 26 pp

### **Maringeologi**

**Vanneste, M.**, L'Heureux, J.-S., Forsberg, C.F., Strout, J.M., Kvalstad, T.J., Longva, O., Rise, L., Chand, S., Vardy, M.E., Lecomte, I., Haflidason, H., Brendryen, J. & Morgan, E.: Assessing Offshore Geohazards: Pore pressure monitoring and high-resolution seismic data collection at Finneidfjord SEABED project, CDog Phase II, Executive Summary, 2012 Activities, 13 pp.

### **Skred**

**Scheele, L.** & Yugsi Molina, F: ICG P10 2006 – Tsunami modeling and prediction. Modelling of the Aysen fjord rock slide tsunami. ICG Report 2013-10-1. NGI Report 20061073-02-R. 20 p.

## **Vitenskapelig publisering**

### **Anvendt geofysikk**

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### ***Grunnvann og urbangeologi***

**Beylich, A.A.,** Lamoureux, S.F. & Decaulne, A.: The I.A.G./A.I.G. SEDIBUD (Sediment Budgets in Cold Environments) Programme. Scientific key issues and future tasks (Poster). 8th IAG International Conference on Geomorphology, Paris, 27-31 August 2013.

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### **NGU-Lab**

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### **Geomatikk og informasjonsteknologi**

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**Grøtan, B.O.**: NADAG dataflyt. Vianova og Vegdirektoratet 3. juni 2013

**Grøtan, B.O.**: Distribuert autentisering med SAML. Geoportal arbeidsmøte, Kartverket, Oslo, 2013.

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**Grøtan, B.O.**: Autentisering og tilgangskontroll, Teknologiforum for Norge digitalt, Thon Hotel Arena, Lillestrøm 6.-7. november 2013

**Iversen, S.**: WFS Guideline and Test Client - a Norway digital project, ICA Commission on Maps and the internet & Workshop, Plzen Czech Republic, 23. August 2013.

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- Nordahl, B.:** The NADAG project – Establish a new database and services for sub surface investigations. Nordic-GIC, Trondheim 16. oktober 2013.
- Ryghaug, P.:** Standardisering av geografisk informasjon. EVU-kurs, BA6000 Geografisk informasjonsbehandling, NTNU, institutt for Geomatikk, 15. januar 2013
- Ryghaug, P.:** Nasjonale skred og kvartærgeologiske data. GeoAnalyse workshop, Nasjonalt utdanningscenter for samfunnsikkerhet og beredskap, NUSB, Asker, 5. mars 2013
- Ryghaug, P.:** Ny karttjeneste fra NGU – ”Geologien i min kommune”. Geoforum 2013, Lillestrøm 13. mars 2013.
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- Ryghaug, P.:** Aktuelle datasett fra NGU. GISLINE brukermøte, Gardermoen 29. oktober 2013.
- Ryghaug, P.:** New view service: Geology within my municipality. Nordic-GIC meeting, Trondheim, NGU 16. oktober 2013
- Ryghaug, P.:** NGUs hovedoppgaver og formidling av kunnskap gjennom kart og data. Norsk Fagbibliotekforening – avd. Trondheim, NGU, 28. oktober 2013

## ***Kommunikasjon***

- Amundsen, B.F.:** Geologien i din hverdag. Åpning av Geologiens Dag, Bergen, 14. september 2013.
- Amundsen, B.F.:** NGUs hovedoppgaver med spesiell vekt på Kommunikasjonsavdelingen. Møte med SGUs Infostab, Uppsala, 28. november 2013.
- Bjerke, C. & Løvø, G.:** Forskningstorget (Utstilling). Forskningsdagene, Trondheim, 20.-21. september 2013.
- Løseth, L., Moen, B.F. & Rønning, Å.:** Geomatikkdagene (Utstilling). Lillestrøm, 11.-14. mars 2013.
- Løvø, G.:** Mindre er mer. Innlegg ved kikk-off for Forskningsdagene 2013, NTNU, Trondheim, 23. april 2013.
- Løvø, G. & Reitan, E.P.:** Mediearbeid ved NGU. Møte med SGUs Infostab, Uppsala, 28. november 2013.
- Moen, B.F.:** Brisbane 2012 og geologisk verdenskongress 2016. Møte med SGUs Infostab, Uppsala, 28. november 2013.
- Rasmussen, M.C.:** Geologiens dag - Utstilling Bergen. 14. september 2013.
- Rasmussen, M.C.:** NGU-dagen - Program og video-produksjon. NGU, Trondheim, 6.-7. februar 2013.
- Rasmussen, M.C.m.f.:** PDAC, Toronto - Utstilling, Roll ups, Flyer og Fokus-ark. PDAC, Toronto, 3.-5. mars 2013.
- Rasmussen, M.C. & Høst, J.:** Kyst-Mareano, roll-up og program. Oslo, 3. april 2013.
- Rasmussen, M.C., Moen, B.F. & Løvø, G.:** Vintermøtet 2013 - Utstilling. Oslo, 8.-10. januar 2013.
- Rasmussen, M.C. & Reitan, E.P.:** Geologiens dag - Utstilling Trondheim. 14.-15. september 2013.

## VERV I INTERNASJONALE ORGANISASJONER OG KOMITEER

- 1<sup>st</sup> International Workshop on Landslides in Sensitive Clays (IWLSC):** L. Hansen, member of advisory committee
- 11<sup>th</sup> International Congress for Applied Mineralogy (ICAM) 2013:** M.A.T.M. Broekmans, conference proceedings referee
- 12<sup>th</sup> SGA Biennial Meeting 2013:** R. Boyd, medlem av organisasjonskomité
- 13<sup>th</sup> International workshop on modelling of mantle and lithosphere dynamics:** S. Buiters, member of organizing committee
- 14<sup>th</sup> Euroseminar on Microscopy Applied to Building Materials (EMABM) 2013:** M.A.T.M. Broekmans, conference proceedings referee
- 15<sup>th</sup> Euroseminar on Microscopy Applied to Building Materials (EMABM) 2015:** M.A.T.M. Broekmans, member of scientific committee
- 75<sup>th</sup> EAGE Conference and Exhibition, London:** O. Olesen, reviewer of extended abstracts
- 3P Arctic Conference Stavanger:** G. Peron-Pinvidic, co-convenor of session “North Atlantic conjugate margins and the Arctic connection”, T.F. Redfield, co-convenor of session “Cenozoic Uplift of Arctic Margins and the Implications for Petroleum Potential”
- Acta Mineralogica Sinica:** M.A.T.M. Broekmans, journal referee
- American Mineralogist:** M.A.T.M. Broekmans, Associate editor
- Boreas (International Journal of Quaternary Geology):** E. Larsen, member of administrative board
- Cement and Concrete Research:** M.A.T.M. Broekmans, journal referee
- Construction Materials:** M.A.T.M. Broekmans, journal referee
- EU Working Group C on Groundwater** A. Dagestad, Norges representant.
- EuroGeoSurveys:** J. Høst, national delegate
- EuroGeoSurvey Earth Observation Expert Group:** J.F. Dehls, member
- EuroGeoSurvey Geochemistry Expert Group:** C. Reimann, chairman
- EuroGeoSurvey Marine Geology Expert Group:** R. Bøe, member
- EuroGeoSurvey Mineral Resources Expert Group:** H. Schiellerup, member
- European Commission, Enterprise and Industry:** R. Boyd, member of Ad Hoc Working Group on Critical Raw Materials
- European Environmental Agency:** B. Frengstad, Norges representant grunnvann
- European Geoscience Union Tectonics and Structural Geology Division:** S. Buiters, president
- European Geoscience Union Tectonics and Structural Geology Programme Committee:** S. Buiters chair; G. Peron-Pinvidic, member
- European Geoscience Union Geodynamics Programme Committee:** S. Buiters, member
- European Geoscience Union General Assembly Vienna 2013:** S. Buiters, G. Peron-Pinvidic, conveners of session “The evolution of passive continental margins: From rifting to post-break-up processes”, S. Buiters, co-convenor of session “Subduction dynamics from surface to deep mantle”, S. Buiters, co-convenor of session “Mantle and outer shell structure, dynamics and evolution in the Earth”, S. Buiters, co-convenor of session “Open session on Tectonics and Structural Geology”, P.T. Osmundsen, co-convenor of session “Lessons on tectonic processes from the Caledonides”

**European Plate Observation System (EPOS):** J.F. Dehls, member of WG8  
 “Satellite information data”

**European Standardization Committee, CEN TC 154/TG11:** E. Erichsen, B. Flem, members

**European Standardization Committee, CEN TC 287, WG5 - Spatial Data Infrastructures:** S. Iversen, P. Ryghaug, J.G. Wesche, members

**FEM 2013 (Fennoscandian Exploration and Mining):** J.S. Sandstad, medlem av organisasjonskomiteen

**Fennoscandian Review Board:** R. Boyd, representant for Norsk Bergindustri

**Geo-Marine Letters:** R. Bøe, editorial Board

**GeoHab:** T. Thorsnes, member of International Scientific Committee

**Geological Society of America Annual Meeting, Northeastern Section:** P. Robinson, theme session organizer

**Geological Society of London Journal:** B. Bingen, topical editor

**INQUA (International Quaternary Union):** E. Larsen, leder norsk INQUA-komit 

**International Association of Geochemistry (IAGC):** C. Reimann, President

**International Association of Geomorphologists (IAG) Programme SEDIBUD:** A.A. Beylich, chair

**International Association of Hydrological Sciences, Commission on GroundWater:** B. Frengstad, Norges representant.

**International Cartographic Organisation (ICA), Commission on Maps and the Internet:** S. Iversen, member

**Journal of Geochemical Exploration:** A. M ller, associate editor and guest editor of special issue 2014 “the 150<sup>th</sup> anniversary of the birth of Vladimir I. Verdnasky (1863-1945)

**Marine Observation and Data Expert Group (MODEG):** T. Thorsnes

**Nordic Geoscience Information Consortium (Nordic GIC):** S. Iversen, member

**PAST Gateways (Palaeo-Arctic Spatial and Temporal Gateways, a network research programme endorsed by IASC):** L.R. Bjarnad ttir, steering committee

**Precambrian Research:** B. Bingen, G. Viola, members of editorial board

**Solid Earth:** S. Buitter, topical editor

**Tectonophysics:** G. Peron-Pinvidic og P.T. Osmundsen, editor of special issue  
 ”Young Conjugate Margins Laboratory in the Gulf of Aden: the YOCMAL project”

**Zeitschrift f r Geologische Wissenschaften (journal):** A. M ller, associate editor

## VERV I NASJONALE ORGANISASJONER OG KOMITEER

- Forvaltningsplan for havområdene utenfor Lofoten og Barentshavet:** T. Thorsnes, medlem av Faglig forum og Overvåkningsgruppe
- Implementering EUs Vanddirektiv,** Direktoratsgruppa: A. Dagestad. Prosjekt Grunnvann: A. Dagestad. Prosjekt Miljøtilstand: B. Frengstad, Prosjekt Overvåking: B. Frengstad..
- Midtnorsk Geofagnettverk:** B.F. Moen, medlem
- Nasjonal toktkomite og instrumentpool:** R. Bøe
- Naturtyper i Norge (NiN):** M. Dolan, medlem av Vitenskaplig råd og Marin faggruppe
- Norge Digitalt, Teknologiforum:** B.O. Grøtan og S. Iversen, medlemmer
- Norge Digitalt, Teknologiforum – Arbeidsgruppe GML - WFS:** S. Iversen, medlem
- Norge Digitalt, Teknologiforum – Arbeidsgruppe Rammeverk:** S. Iversen, P. Ryghaug, medlemmer
- Norges Teknisk Naturvitenskapelige Universitet (NTNU) – Laboratoriet for radiologisk datering:** L. Olsen, vararepresentant til faglig råd
- Norsk Bergforening:** J.S. Sandstad, styremedlem, K.A. Aasly, medlem av redaksjon for tidsskriftet Mineralproduksjon
- Norsk Bergindustri:** K.A. Aasly, medlem av Natursteinskomiteen
- Norsk Fagbibliotekforening:** G. Henriksen, varamedlem
- Norsk Fagbibliotekforening avd. Trondheim:** G. Henriksen, styremedlem
- Norsk Fjellmuseum:** B.F. Moen, styreleder
- Norsk Geologisk Forening:** R. Dahl, O. Olesen, styremedlemmer, O. Longva og L. Plassen, medlemmer av valgkomite
- Norsk Geologisk Forening, Geologiens Dag:** B.F. Moen, utstilling og møteleder hovedarrangement Bergen
- Norsk Geologisk Forening, Geoturismekonferansen 2013:** B.F. Moen, møteleder
- Norsk Geologisk Forening, Vinterkonferansen 2013:** S. Buitter, A. Engvik, medlemmer av programkomité
- Norsk Havforskerforening:** T. Thorsnes, leder, O. Longva, medlem
- Norsk hydrologiråd:** B. Frengstad, styremedlem, B.F. Amundsen, jurymedlem for Norsk hydrologiråds pris for god populærvitenskap ”Viten om vann”
- Norsk kompetansesenter for avfall og gjenvinning (NORSAS) Byggavfallskonferansen:** R.T. Ottesen, arrangementskomité
- Norsk Kvernsteinsenter:** T. Heldal, styremedlem, G. Meyer, varamedlem
- Norwegian Center for Geothermal Energy Research:** B. Frengstad, styremedlem
- Rogaland fylkeskommune, Regionalplan for sand-, grus- og pukkforekomster i Ryfylke:** K. Wolden, medlem av prosjektgruppe
- Samarbeidsrådet for Femundsmarka nasjonalparksenter:** K. Wolden, medlem
- Standard Norge, Komité for tilslag (SN/K 005):** E. Erichsen og B. Flem, medlemmer
- Standard Norge, Referansekomité for Natursteinstprodukter (SN/K 343):** K.A. Aasly, leder
- Stiftinga Geirangerfjorden Verdensarv:** B.F. Moen, medlem i faglig råd
- Universitetet i Oslo, Naturhistorisk museum:** B.F. Moen, styremedlem
- Vegdirektoratet, Styringsgruppe for steinmaterialer:** E Erichsen, medlem

## **SENSORER, VEILEDERE OG BEDØMMELSESKOMITÉER**

**Christian-Albrecht-Universität zu Kiel:** J. Ebbing

**Deakin University, Australia:** M. Dolan

**Helsinki University:** K. Fabian

**Katholieke Universiteit Leuven, Belgium:** G. Viola

**Norsk institutt for naturforskning:** R. Dahl

**Norges Tekniske Naturvitenskapelige Universitet (NTNU):** J. Ebbing, O.A.

Eggen, H. Elvebakk, E. Erichsen, T.E. Finne, O. Fredin, T. Grenne, L. Hansen,

R.L. Hermanns, F. Høgaas, H.K.B. Jensen, O. Longva, A. Müller, P.R. Neeb,

P.T. Osmundsen, R.T. Ottesen, L. Rise, A. Romundset, J.S. Sandstad, I.L.

Solberg, O.M. Sæther, J.F. Tønnesen, G. Viola

**Simon Fraser University:** R.L. Hermanns

**Université de Bordeaux:** J. Knies

**Université de Nantes:** A.A. Beylich

**Université de Strasbourg:** P.T. Osmundsen

**Université Pierre et Marie Curie, Paris:** G. Peron-Pinvidic

**Universitetet for miljø- og biovitenskap (UMB):** L. Hansen, E. Larsen

**Universitetet i Bergen:** O. Fredin, J. Knies, E. Larsen, P.T. Osmundsen

**Universitetet i Oslo:** B. Bingen, G.V. Ganerød, D. Gasser, O. Longva, I.L. Solberg

**Universitetet i Tromsø:** L.R. Bjarnadóttir, S. Chand, J.F. Dehls, R. Eilertsen, L.

Hansen, R.L. Hermanns, J. Knies, A. Lyså, G.B. Meyer, L. Olsen, L. Plassen, A.

Romundset, K. Stalsberg

**Universitetet i Tromsø, Forskerskolen for Arktisk maringeologi og geofysikk:** J.

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**Universität Erlangen:** R.L. Hermanns

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