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GEO STANDARD

Geological standard and guidelines

2025

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1.

Kart/Maps



1.1 Definisjoner	1.1 Definitions
1.1.1 Grunnlagskart	1.1.1 Basic maps
Underlagskart	<i>Base map</i>
Kart som danner underlaget for de fleste andre karttyper, f.eks. flateformkart og tykkelseskart. Underlagskart kan inneholde følgende informasjon: • Gradenett (geografiske, UTM) • Kystkonturer • Internasjonale grenser • Blokkinnndeling • Lisensbelagte områder • Tilbakeleverte områder • Brønnposisjon og status • Vanndypskonturer • Plattform og rørledninger etc.	Base maps may contain the following information: • <i>Grid (geographical, UTM)</i> • <i>Coastal contours</i> • <i>International borders</i> • <i>Quadrant and block boundaries</i> • <i>Licensed areas</i> • <i>Relinquished areas</i> • <i>Well position and status</i> • <i>Bathymetry contours</i> • <i>Platforms and pipelines etc</i>
Vanndypskart	<i>Bathymetry maps</i>
Vanndypskart viser vanndyp eller sjøbunnstopografien.	<i>Bathymetry maps show water depth or seabed topography.</i>
Aktivitetskart	<i>Activity map</i>
Aktivitetskart kan vise følgende: • Geografiske koordinater • Kystkonturer • Internasjonale grenser • Blokkinnndeling • Lisensbelagte blokker med operatørnavn • Brønnposisjon og status • Vanndypskonturer • Olje- og gassfelter • Plattform og rørledninger etc. • Byer og tettsteder (relevante) • Forbudte områder på sokkelen	The activity map may show the following: • <i>Geographical coordinates</i> • <i>Coastal contours</i> • <i>International borders</i> • <i>Block division</i> • <i>Licensed blocks, with the name of the operator</i> • <i>Well positions and status</i> • <i>Water depth contours</i> • <i>Oil and gas fields</i> • <i>Platforms and pipelines</i> • <i>Cities and villages</i> • <i>Restricted areas on the shelf</i>
Lokasjonskart	<i>Location maps</i>
Lokasjonskart skal vise et aktuelt område plassert i en større sammenheng.	<i>Location maps show a specific area placed in a larger context.</i>
1.1.2 Datakart	1.1.2 Data maps
Planleggingskart	<i>Planning maps</i>
Planlagt 2D seismisk programkart Kart som viser forslag til eller program for en 2D seismisk undersøkelse.	<i>Planned 2D seismic program map</i> Map showing a proposed program for a 2D seismic survey.
Planlagt 3D seismisk programkart Kart som viser forslag til eller program for en 3D seismisk undersøkelse.	<i>Planned 3D seismic program map</i> Map showing a proposed program for a 3D seismic survey.
Planlagt seismisk programkart for borestedsundersøkelse Kart som viser forslag til eller program for borestedsundersøkelse.	<i>Planned site survey program map</i> Map showing a proposed program for a site survey.
Planlagt borehullslokalitetskart Kart som viser forslag til plassering av et eller flere borehull.	<i>Planned borehole location map</i> Map showing the location of one or more proposed boreholes.

Dekningskart	Coverage maps
Seismisk linjeoversiktskart Kart som viser posisjonen til alle seismiske linjer innenfor et geografisk område.	Seismic line overview map Map showing the position of all seismic lines inside a geographical area.
Seismisk dekningskart Kart som viser posisjonen til registrerte seismiske linjer benyttet f.eks. i et prosjekt innenfor et angitt geografisk område.	Seismic data coverage map Map showing the position of only those seismic lines used in a given project.
Gravimetrisk dekningskart Kart som viser posisjon for gravimetriske undersøkelser.	Gravimetry data coverage map Map showing the position of gravity surveys.
Magnetometrisk dekningskart Kart som viser posisjon for magnetiske undersøkelser.	Magnetometry data coverage map Map showing the position of magnetometry surveys.
1.1.3 Geofysiske kart	1.1.3 Geophysical maps
Flateformkart, tid	Time structure contour map
Kart hvor det er trukket linjer (koter) gjennom punkter med samme toveis gangtid målt fra referansenivået og ned til en seismisk refleksjonsflate. Referansenivå: Havnivå eller annet relevant referansenivå.	A contour map of two way travel time measured from the reference datum down to a seismic reflection surface. Datum: Sea level or other relevant reference point.
Flateformkart, dyp	Depth structure contour map
Kart hvor det er trukket linjer (koter) gjennom punkter med samme dyp målt fra referansenivået og ned til en seismisk refleksjonsflate. Dybdeverdiene representerer vanligvis dybdekonverterte tidsverdier basert på refleksjonsseismikk. Referansenivå: Havnivå eller annet relevant referansenivå.	A contour map of depth measured from the reference datum down to a seismic reflection surface. The depth values usually represent depth converted time values from reflection seismic data. Datum: Sea level or other relevant reference point.
Tidsdifferansekart	Isochron map
Kart som viser toveis gangtid mellom to seismiske refleksjonsflater.	Contour map showing the two way travel time difference between two seismic reflection surfaces.

Tykkelseskart	<i>Isochore map</i>
a) Kart som viser boret vertikal tykkelse (i meter) av en gitt stratigrafisk enhet eller et dybdekonvertert tidsdifferansekart. Vertikal tykkelse er ikke nødvendigvis den sanne stratigrafiske mektighet, da lagene ofte er skråstilte. b) Kart som viser tykkelsen av den økonomiske delen av et reservoar mellom oljevannkontakten og takbergarten. Det er brukt for å beregne reservoarvolumet (Levorsen, 1967).	a) Contour map showing vertical thickness (in meters) of a given stratigraphic layer, or a depth isochron difference map. Vertical thickness is not the true stratigraphic thickness, where the layers are dipping. b) A contour map showing the vertical thickness of the economical part of a reservoir, above the hydrocarbon water contact. It is used to calculate the volume of the reservoir. (Levorsen, 1967).
Mektighetskart	<i>Isopach map</i>
Mektighetskart viser den sanne tykkelsen av et gitt stratigrafisk lag, målt vinkelrett på laget.	Isopach map showing the true stratigraphic thickness of a given stratigraphical layer, measured perpendicular to bedding.
Seismisk lukningskart	<i>Seismic closure map</i>
Kart som viser en strukturell lukning i tid eller dyp av en seismisk refleksjonsflate	Map which shows structural closure, in time or depth, of a seismic reflection surface.
Seismisk attributtkart	<i>Seismic attribute map</i>
Kart som viser variasjoner av en gitt seismisk karakter for en gitt seismisk refleksor.	Map showing variations in a given seismic attribute for a given seismic reflector.
1.1.4 Hastighetskart	<i>1.1.4 Velocity maps</i>
Intervallhastighetskart	<i>Interval velocity map</i>
Kart som viser intervallhastighet mellom to horisonter.	Map showing the interval velocity between two horizons.
Gjennomsnittshastighetskart	<i>Average velocity map</i>
Kart som viser gjennomsnittshastigheten av alle intervaller fra havnivå eller havbunn til den aktuelle horisonten.	Map showing the average mean velocity of all intervals from sea level or the sea bottom to a given horizon.
Opprinnelig velocity (Vo)-kart	<i>Initial velocity (Vo) map</i>
Kart som viser Vo-verdier i forbindelse med en dybdekonvertering ved hjelp av en lineær hastighetsfunksjon (LINVEL-metoden)	Map showing Vo-values in connection with depth conversion using linear function of velocity with depth (LINVEL method).
Stakkingshastighetskart	<i>Stacking velocity map</i>
Kart som viser stakkingshastigheter brukt ved seismisk prosessering til å korrigere for "normal moveout" (NMO).	Map that shows stacking velocities used in seismic processing to correct for normal moveout (NMO).
Migrasjonshastighetskart	<i>Migration velocity map</i>
Kart som viser hastigheter brukt for migrasjon ved seismisk prosessering.	A map showing velocities used for migration in seismic processing.
Hastighetsanomalikart	<i>Velocity anomaly map</i>
Kart som viser områder med hastighetsavvik.	Map showing areas with anomalous velocities.

1.1.5 Geologiske kart	1.1.5 Geologic maps
Tektonisk kart	<i>Tectonic map</i>
Kart som viser den strukturelle arkitekturen av jordskorpa. På kontinentalsokkelen viser et tektonisk kart primært forkastninger, men kan også vise andre strukturelementer som f.eks. foldeakser, høyde- og bassengakser.	A map showing the structural architecture of the crust of the earth. On the continental shelf a tectonic map primarily shows faults, but it can also show other structural elements such as fold axes, highs and trough axes.
Strukturelementkart	<i>Structural element map</i>
Kart som viser inndeling av strukturelementer.	A map showing the division of structure elements.
Paleogeografisk kart	<i>Paleogeographic map</i>
Kart som viser hvordan en antar landskapet/ jordoverflaten så ut til en bestemt geologisk tid.	A map of the interpreted landscape/surface of the earth at a particular geologic time.
Paleobreddekart	<i>Paleolatitude map</i>
Kart som viser beliggenheten av et landområde i forhold til ekvator og polene i et nærmere bestemt tidsrom av jordens historie.	Map showing how an area was situated in relation to the equator and the poles at a particular geologic time.
Facieskart	<i>Facies map</i>
Kart som viser utbredelsen av en eller flere facies innenfor et bestemt geografisk område. For denne type kart fylles identifikasjonsteksten "Horisont" i tittelfeltet inn med opplysninger om hvilken type facies som er kartlagt. Eks.: Sandsteinsfacies.	Map showing the distribution of one or more facies. For this type of map, the title box Datafield "Horizon" should list the facies which have been mapped. E.g: Sandstone facies.
Liggkart	<i>Subcrop map</i>
Kart som viser fordelingen av litologiske enheter som ligger under en gitt stratigrafisk flate, eller under en inkonformitet.	Map that shows the distribution of lithological units which lay <u>below</u> a stratigraphic level or unconformity.
Hengkart	<i>Supercrop map</i>
Kart som viser fordelingen av litologiske enheter som ligger over en gitt stratigrafisk flate, eller over en inkonformitet.	Map that shows the distribution of lithological units which lay <u>above</u> a stratigraphic level or unconformity.
Prospektkart	<i>Prospect map</i>
Prospektkart viser de enkelte prospekter innenfor en blokk eller et angitt geografisk område.	A prospect map shows different prospects, within a block or a given geographical area.
Letemodellkart	<i>Play map</i>
Kart som viser typer og utbredelse av geologiske letemodeller.	Map showing different types and distribution of geologic plays.
1.1.6 Reservoarkart	1.1.6 Reservoir maps
Porøsitetkart	<i>Porosity map</i>
Kart som viser aritmetisk middel av porøsiteten i netto reservoarbergart innenfor en reservoarsone. Middelerdien i brønnene er veid med hensyn til den tykkelsen hver enkel porøsitetsverdi representerer.	Map showing the arithmetic mean of the porosity of net reservoir rock. The porosity values are weighted in regard to the thicknesses of the intervals.

Netto-/bruttokart	<i>Net/Gross map</i>
Kart som viser forholdet mellom tykkelsen av netto reservoarbergart og tykkelsen av det totale stratigrafiske lag.	Map showing the relationship between the thickness of the net reservoir rock and that of the total stratigraphic layer.
Metningskart	<i>Saturation map</i>
Kart som viser gjennomsnittsverdiene for olje-, gass- eller vannmetningen for et reservoar. På kartet må det angis hvilken reservoarvæske kartet representerer. Eks: Vannmetningskart	Map showing the mean values for oil, gas or water saturation for a reservoir. The map must indicate which reservoir fluid the map represents. E.g: Water saturation map.
Kart over brutto hydrokanbonførende kolonne for olje/gass	<i>Gross reservoir thickness map for oil/gas</i>
Kart som viser brutto reservoarstykkelse over væskekontaktene i en reservoarsone.	Map showing gross reservoir thickness above the fluid contacts in a reservoir zone.
Kart over netto hydrokanbonførende kolonne for olje/gass	<i>Net reservoir thickness map for oil/gas</i>
Kart som viser netto reservoarstykkelse over væskekontaktene i en reservoarsone.	Map showing net reservoir thickness above the fluid contacts in a reservoir zone.
Hydrokarbonarealkart	<i>Hydrocarbon area map</i>
Kart som viser utbredelse av hydrokarboner på topp reservoarsone nivå.	Map showing the distribution of hydrocarbons at the top surface reservoir.
Reservoarparameterkart	<i>Reservoir parameter map</i>
Kart som viser utbredelsen av reservoargeologiske parametre, f.eks. reservoarstemperatur, trykk o.l.	Map showing the distribution of reservoir geological parameters, such as reservoir temperature, pressure etc.
Hydrokarbonkolonnekart	<i>Hydrocarbon column map</i>
Kart som viser tykkelsen av hydrokarbonkolonnen etter at ikke hydrokarbonfaser er fjernet innen en reservoarsone. Kartet genereres ved å multiplisere netto hydrokarbonførende kolonne med porøsitet og hydrokarbonmetning. (Dette kartet er ofte kalt hydrokarbonporevolumkart, men det er misvisende siden kartet ikke direkte representerer volum.)	Map showing the net thickness of the hydrocarbon column of a reservoir zone, excluding the non-hydrocarbon bearing intervals. The map is generated by multiplying net hydrocarbon column with porosity and hydrocarbon saturation. (This map is often called a hydrocarbon pore volume map, but this is misleading since the map does not directly represent volume).
Permeabilitetskart	<i>Permeability map</i>
Kart som viser gjennomsnittlig permeabilitet for en reservoarsone. Gjennomsnittsverdien kan beregnes på flere måter, og den valgte metoden skal angis på kartet.	Map showing mean permeability for a reservoir zone. The mean value can be calculated in many ways, and the chosen method should be given on the map.
1.1.7 Geokjemiske kart	<i>1.1.7 Geochemical maps</i>
Migrasjonskart	<i>Migration map</i>
Kart som viser migrasjonsretninger for hydrokarboner.	Map showing hydrocarbon migration direction or pathways.

Modningskart	<i>Maturation map</i>
Kart som viser modningsgraden av hydrokarbon kildebergarter (uttrykt i VR, Tmax, TAI, LOM).	Map showing the degree of maturation of hydrocarbon source rocks, (given in VR, Tmax, TAI, LOM).
1.1.8 Gravimetrisk kart	<i>1.1.8 Gravity maps</i>
Friluftsanomalikart	<i>Free air gravity map</i>
Kart som viser tyngdedata korrigert med den internasjonale tyngdeformelen og høyden over geoiden.	Map showing gravity data corrected by the international gravity formula and the height of the geoid.
Bougueranomalikart	<i>Bouguer gravity map</i>
Friluftsanomalikart korrigert for tettheten av bergarten mellom to flater. (Bouguerkorreksjonen).	Free air anomaly map corrected for the density of the rock between two surfaces (the Bouguer correction).
1.1.9 Magnetometriske kart	<i>1.1.9 Magnetometry maps</i>
Totalmagnetfeltkart	<i>Total magnetic field map</i>
Kart over absoluttverdien av magnetfeltet i en viss høyde.	Map of the total value of the magnetic field, at a specific height.
Magnetisk anomalikart	<i>Magnetic anomaly field map</i>
Kart over differansen mellom magnetisk totalfelt og referansefelt.	Map of the difference between the total magnetic field and a reference magnetic field.
Kart over magnetfeltet redusert til polen	<i>Map of magnetic field reduced to the pole</i>
Kart som viser magnetisk totalfeltkart eller anomalikart slik det ville ha sett ut ved den magnetiske nordpol.	Map showing what the total magnetic field map or the magnetic anomaly map would look like at the magnetic north pole.

1.2 Tittelfelt for kart og georelaterte tegninger	1.2 <i>Title box for maps and other geological displays</i>
Standarden gjelder for oversikts-/geologiske-/geofysiske kart og tegninger som utveksles mellom selskaper på norsk sokkel. Eksempler på tegninger er brønnkorrelasjoner, geoseismiske snitt, stratigrafiske søyler o .l. I det følgende benyttes kart som fellesbetegnelse på kart og tegninger. Standarden har til oppgave å beskrive alle kart på en enhetlig og fullstendig måte slik at registrering og gjenfinning i selskapenes arkivsystemer kan skje raskt, nøyaktig og på en enklest mulig måte med minimalt behov for fagfolk. Selskapene står fritt i utformingen av tittelfeltet så lenge ledetekstene er korrekte og omfatter alle typer som skal være med i henhold til standarden.	This standard is valid for survey/geological/geophysical maps and other illustrations that are in use by the O&G industry on the Norwegian shelf. Examples of these displays are well correlations, geoseismic cross sections, stratigraphic columns etc. In the following descriptions, "maps" will be used as a generic term both for maps and illustrations. The intent of a standarized title box is to describe all maps in a uniform and complete way so that registration and recovery in archive systems can be done quickly, accurately and in the easiest way possible with a minimal need of professionals. All companies are free to decide on the appearance of the title box as long as the text follows the standard.

1.2.1 Generelle regler	1.2.1 General rules
Kartbeskrivelsen består av: • Tittelfelt For bibliografisk informasjon. • Tegnforklaring Forklaring til symboler benyttet på kartet. • Lokasjonskart Kart som viser geografisk plassering av det aktuelle kartområdet. • Revisjonsfelt Hvis kartet er revidert mange ganger, kan det være ønskelig å lage eget felt for revisjoner. • Datagrunnlagsfelt Hvis kartet bygger på en stor mengde ulike datakilder, kan det være ønskelig å lage eget felt for denne informasjonen. • Målestokk Vist ved en lengdeskala. Av disse er tittelfelt og målestokk obligatoriske. Tegnforklaring kan utelates hvis det ikke er relevant (f.eks.: Seismisk programkart). Lokasjonskart er ønskelig og revisjon/datagrunnlagsfelt kan benyttes ved behov. Denne standarden omfatter bare tittelfelt.	A map may include: • <i>Title box</i> Description of map contents • <i>Legend</i> Key to the symbols used on the map. • <i>Location map</i> Map showing the location of the specific map area. • <i>Revision field</i> If a map has been revised many times, it may be necessary to make a specific field for revisions. • <i>Database field</i> If a map has been based on many different data sources, it may be necessary to make a specific field for this information. • <i>Scale</i> Shown by a scale of length. Of these, the title box and a scale of length are required. The legend can be left out if it is not relevant, (E.g: Seismic program map). A location map is preferable, and the revision/database fields should be used if needed. This standard includes only the title box.
Tittelfelt	<i>Title box</i>
Det enkelte selskap står fritt ved utforming av tittelfelt. Vedlagt følger et anbefalt forslag. Se Tittelfelt. Tittelfelt skal i det minste inneholde de datatyper som er listet under "Datatyper som skal være med i et karts tittelfelt."	The different companies are free to choose the appearance of the title box. Enclosed is a recommended example. However, there is some data that is required "Data required to be in the title box of a map".
Identifikasjonstekst	<i>Labels</i>
Tittelfeltet skal inneholde identifikasjonstekst til hver datatype nøyaktig som den er beskrevet i standarden. Kolon (:) skal alltid brukes for å signalisere at identifikasjonsteksten avsluttes og selve dataene starter. Identifikasjonsteksten kan skrives med valgfrie typer (fonter), størrelse og store eller små bokstaver. Identifikasjonsteksten skal alltid være på norsk eller engelsk.	The title box must contain a label for every datafield, exactly as written in this standard. A colon (:) must always be used to separate the label and the datafield. The label may be written using text of any font, size and capital or small letters. The label must always be in Norwegian or English.
Datafelt	<i>Data fields</i>
Alle datafelt skal fylles ut med mindre dette er irrelevant. Størrelsen på bokstaver og tall i datafeltene "Land", "Type dokument", "Felt/prospekt" og "Horisont". Datafelt kan fylles ut med valgfrie typer (fonter), størrelse og/eller store/små bokstaver. Dataene skrives på norsk eller engelsk, og skrivemåter skal følge vanlig norsk (bokmål/nynorsk) og engelsk rettskriving. Det skal brukes komma (,) som skille tegn mellom likeverdige data i et felt.	All relevant data fields should be filled in. The size of the text for data fields "Country", "Type of document", "Fieldproject" and "Horizon". The remaining data fields may be written using text of any font, size and capital or small letters. The data must be written in Norwegian or English, and must follow traditional Norwegian or English spelling. A comma should separate multiple entries.

1.2.2 Datatyper som skal være med i et karts tittelfelt	1.2.2 Data required to be in the title box of a map
Identifikasjonstekst - Databeskrivelse	Label - Data field
Firma	Company
Navn på det firmaet som har opphavsretten til kartet Firmanavnet skrives helt ut. Ev. kontorsted kan føyes til atskilt fra navnet med et komma. Selskapets logo skal ikke benyttes i dette feltet, men kan om ønskelig plasseres øverst i hovedfeltet. Hvis arbeidet er utført av et annet selskap enn det som eier kartet, kan det utførende selskaps logo plasseres øverst i hovedfeltet. Eks.: Søkeldirektoratet, Stavanger.	Name of the company that owns the map. The company name must be written in full. If necessary, the office site may be added, but separated from the company name by a comma. The company logo must not be used in this field, but can, if desired, be placed on top of the main field. If the work was done by a company other than that which owns the map, this company's logo may be placed above that of the company which owns the map. E.g: The Norwegian Offshore Directorate, Stavanger.
Land	Country
Hvilke(t) land kartet dekker. ISO 3166 (se "Referanser") benyttes i kortform. Dersom kortformen inneholder opplysninger som beskriver et lands styresett kan dette utelates (Kongeriket Norge forkortes til Norge). Sideformer godtas. Eks.: Norge, Danmark.	Countries covered by the map. Country names as described by ISO 3166 (see chapter 7 item 5) must be used. If this name contains information which describe a country's system of government, this may be left out (Kingdom of Norway may be shortened to Norway). E.g: Norway, Denmark.
Området	Area
Hvilket geografisk eller strukturelt område kartet dekker. Det skal brukes strukturelementer godkjent av Norsk stratigrafisk komite i områder der slik finnes. Eks.: Hordaplattformen Hvis kartet ikke naturlig faller innenfor et strukturelement, kan andre områdebetegnelser benyttes. Eks.: Tromsøflaket, Trænabanken, Haltenbanken.	Geographical or structural area covered by the map. Structural element names approved by the Norwegian Stratigraphic Committee must be used in areas where such exist. E.g: Horda platform If the map does not naturally fall within a structural element, other area terms may be used. E.g.: Tromsøflaket, Trænabanken, Haltenbanken.

Felt/prospekt	Field/prospect
<i>Hvilke(t) hydrokarbonfelt/prospekt kartet dekker.</i> Oljedirektorates liste over godkjente feltnavn benyttes som publisert i siste årsmelding. Eks.: Oseberg, Veslefrikk, Brage. Satelitt og delstrukturbetegnelser kan føyes til de lovligte betegnelse. Bare latinske bokstaver og/eller arabiske tall skal brukes. Eks.: Njord B1. Det enkelte selskapets interne prospektnavn kan benyttes. Eks.: 7/11 A-STRUKTUREN.	<i>Hydrocarbon field/prospect covered by the map.</i> The Norwegian Offshore Directorate's list of approved field names should be used, as published in the NOD's latest Annual Report. E.g: Oseberg, Veslefrikk, Brage Satellites and field segment designations may be added to the approved names. Only latin letters and/or arabian numerals may be used. E.g: Njord B1. The companies' internal prospect names may be used. E.g: 7/11-A-structure.
Kvadrant/blokk	Quadrant/block
<i>Hvilke(n) kvadrant(er) og/eller blokk(er) kartet dekker.</i> Det skal brukes arabiske tall uten ledende nuller. Kvadrat og blokk skilles med skråstrek. Eks.: 34/7, 34/8. Hvis kartet dekker kvadranter eller blokker på mer enn ett lands kontinentalsokkel, skal det for hver kvadrant eller blokk-nummer påføres landets kortkode. Tøtegnets kortkode skal følge ISO 3166. Eks.: GB 16/3, GB 16/4, NO 15/12, NO 15/3.	<i>Quadrant(s) and/or block(s) covered by the map.</i> Arabian numerals shall be used without leading zeros. Quadrant and block numbers should be separated by an oblique (/). E.g: 34/7,34/8. If the map covers quadrants or blocks of more than one country, the country's abbreviation should be added in front of the block number. This abbreviation should be that of ISO 3166 (see chapter 7 item 5.) E.g: GB 16/3, GB 16/4, NO 15/2, NO 15/3.
Lisens	Licence
<i>Hvilke(n) utvinningstillatelse(r) kartet dekker.</i> <i>Sokkeldirektoratets faktasider</i> https://factpages.sodir.no/nb-no <i>er retningsgivende for lisensbenevnelse. Det skal brukes latinske bokstaver og arabiske tall.</i> Eks.: 032, 172, PL054, PL085. <i>Lisensnumrene kan ha forstavelse, og kan ha landkode hvis kartet dekker lisenser på to eller flere lands områder.</i> Eks.: NO PL037, GB PL104	<i>Production licenses covered by the map.</i> <i>The Norwegian Offshore Directorate's NOD's factpages. https://factpages.sodir.no/en is the guideline for license designations. Only roman letters and arabian numerals may be used.</i> E.g: 032,172, PL054, PLO85. <i>The license number can have the prefix and a country code if the map covers licenses of two or more countries.</i> E.g: NO PL037, GB PL104

Type dokument	Type of document
<i>Standardisert beskrivelse av hva kartet forestiller.</i> Liste over tillatte karttyper er angitt i “Kartdefinisjoner”. Det er tillatt å benytte flere typer hvis kartet viser flere tema. Hvis kartet ikke naturlig faller inn under en av typene kan en av hovedtypene benyttes: grunnlagskart, datakart, geofysisk kart, hastighetskart, geologisk kart, reservoarkart, geokjemisk kart, gravimetrisk kart eller magnetomisk kart. Eks.: Flateformkart, tid.	<i>A standarized description of what the map represents.</i> The list of accepted types of maps is given in chapter 7 item 2. Several map types may be used if the map shows more than one subject. If the map does not naturally fall within one of the types, one of the main types can be used: basic map, geophysical map velocity map, geological map, reservoir map, geochemical map, gravimetric map or magnetometric map. E.g: Time structure contour map.
Horisont	Horizon
<i>Kartlagt kronostratigrafisk. litostratigrafisk eller uformelt nivå.</i> “Horisont” kan utelates hvis det ikke er relevant (f.eks. når det gjelder skuddpunktst, brønnkorrelasjoner o. l.). For kronostratigrafiske horisonter og ved nærmere angivelse av nivået ved bruk av “undre”, “midtre” og “øvre”, brukes Nystuen (1986, 189) som referanse. Eks.: Bunn øvre jura. En horisont kan også defineres som grensen mellom litostratigrafiske enheter. Eks.: Topp Garnformasjonen Deegan and Scull (1977), Vollset og Dore (1984), Dalland et.al. (1988), Isaksen og Tonstad (1989) og fortløpende oppdateringer av stratigrafiske nomenklatur er retningsgivende for angivelse av grenser mellom litostratigrafiske enheter. Se kap. 8.5 Nomenclature. Uformelle (ikke godkjente lito- eller kronostratigrafiske) enheter bør ikke benyttes. Dersom uformelle navn benyttes, skal de ikke kodes, men skrives helt ut. Eks.: Topp salt Uformell spesifisering av nivået bør i størst mulig grad unngås, “Antatt”, “ekvivalent” og “nær” er de eneste tillatte uformelle spesifiseringsbegreper.	<i>The mapped chronostratigraphic, lithostratigraphic or other informal level.</i> This datafield may be left out if it is not relevant (such as for map, well cross-section map etc). Nystuen (1986,1989) should be used as a reference for the naming of chronostratigraphic horizons, including his use of the modifiers “lower”, “middle”and “upper”. E.g: Base Upper Jurassic, A horizon can also be defined as the border between lithostratigraphic units. E.g: Top Garn Formation The references Deegan and Scull (1977), Vollset and Dore (1984), Dalland et al (1988) and Isaksen and Tonstad (1989), as well as the ongoing updating of stratigraphic nomenclature should be used as guidelines for the naming of lithostratigraphic units. See chapter 8.5 Nomenclature Informal (non approved Utho- or chronostratigraphic) units should be avoided. If informal names are used, they must not be abbreviated, but written in full. E.g: Top salt Informal modifying of the level should also be avoided. “Expected”, “equivalent”, and “near” are the only accepted informal modifiers.

Dekningsområde	Map coverage
<i>Koordinatene for området kartet dekker.</i> Et kart skal alltid være oppgitt i geografiske koordinater eller UTM-koordinater. Geografiske koordinater skrives på formen: gg mm ss.ss Grad, minutt- og sekundtegn kan føyes til geografiske koordinater om ønskelig. Gradene skal ikke angis med ledende nuller. Breddegrad relativt til ekvator angis med N eller S. Lengdegrader relativt til Greenwich angis med Ø eller V. Det skal være bindestrek mellom hvert sett av lengde- og breddegrad. Eks.: 60°00'00"N-62°00'00"N 2°00'00"Ø-4°00'00"Ø UTM-koordinater: YYYYYYY.YY. Koordinatene skal ikke angis med ledende nuller. Desimaler kan sløyfes. Det skal alltid være punktum foran desimalene. Det skal være bindestrek mellom hvert sett av UTM-koordinater. Eks.: 6651988.5 N-6874749.4 N 444221.0 Ø-552378.5 Ø	Coordinates of the map A map must always be described by geographic, or UTM coordinates. Geographic coordinates must be written in the format: dd mm ss.ss. Degree, minute, and second symbols may be added if desired. The degrees may not be given with leading zeros. Latitude relative to the equator should be shown by N or S. Longitude relative to Greenwich should be shown by E or W. There must be a hyphen between each set of longitude and latitude. E.g: 60° 00'00"N-62°00'00"N 2° 00'00"E-4° 00'00"E UTM coordinates must be written in the format: YYYYYYY.YY. These coordinates may not be given with leading zeros. Decimals may be omitted. There must be a period in front of the decimals. There must be a hyphen between each set of UTM coordinates. E.g: 6651988.5 N-6874749.4 N 444221.0 E-552378.5 E.
Projeksjon	Projection
<i>Hvilken matematisk måte punkter fra referanseellipsoiden er overført til et plan.</i> Eks.: UTM	Which mathematical projection from the reference ellipsoid is being used. E.g: UTM
Sentralmeridian	Central meridian
<i>Hvilket tangeringsmeridian som er brukt ved UTM-projeksjon.</i> Sentralmeridianen må oppgis med Ø eller V. Eks.: 3° Ø	The tangent meridian used by UTM projected maps. The central meridian must be given by degrees E or W. E.g: 3°E.
Geodetisk datum	Geodetic datum
<i>Hvilket system som er benyttet for måling og beregning av geodetisk grunnlagsdata.</i> eks.: WGS72	System used for the measurement and calculation of geodetic base data. E.g: WGS72
Vertikalt datum	Vertical datum
<i>Referansenivå ved målingen.</i> Eks.: MHN (midlere havnivå) LAT (Lavest astronomisk tidevann) RKB (Fra drivrørsforing på rotasjonsbord)	The reference level when measuring. E.g: MSL (mean sea level) LAT (Lowest Astronomical Tide) RKB (Rotary Kelly Board)

Godkjent dato	<i>Date approved</i>
<i>Tidspunkt for intern godkjenning eller endelig ferdigstilling av kart.</i> NS 4133 og ISO 8601 (se "Referanser") er standard for år-måned-dag. Formatet i numerisk form er AAAA-MM-DD med ledende nuller. Eks.: 1989-07-29	Date for internal approval or final completion of the map. The references NS 4133 and ISO 8601 (see chapter 7 item 5) give the standards for year-month-day. The format is YYYY-MM-DD with leading zeros. E.g: 1989-07-29.
Revisjon	<i>Revision</i>
<i>Siste revisjonsdato.</i> Det enkelte selskap står fritt til å beholde tidligere revisjonsdatoer i dette feltet, eller overføre dem til eget hovedfelt for revisjoner. Siste revisjonsdato skal alltid stå i dette feltet. Format som for feltet "Godkjent dato:". Eks.: 1988-05-20, 1989-10-01	Last date of revision. The various companies are free to keep earlier revision data in this field, or transfer them to another field for previous revisions. The latest revision date must always be kept in this field. Format as for the field "Date approved" E.g: 1988-05-20, 1989-10-01
Målestokk	<i>Scale</i>
<i>Kartets målestokk</i> Målestokk oppgis i brøk med arabiske tegn uten mellomrom eller annen tegnsetting. Eks.: 1:25 000	Map scale The scale is given as a fraction using arabian numerals, without a space or other type of punctuation. E.g: 1:25 000.

1.2.3 Datatyper som kan være med i et karts tittelfelt	1.2.3 Types of data that may be in the title box of a map
Identifikasjonstekst - Databeskrivelse	Label - data field
Referanseellipsoide	Reference ellipsoid
<i>Hvilken teoretisk beregningsflate som er benyttet.</i> Eks.: INT (Internasjonal) Ved angivelse av geodetisk datum er referanseellipsoide implisitt.	Which theoretical calculation level is used. E.g: INT (International). When the geodetical datum is given the reference ellipsoid is implicit.
Koteintervall	Contour interval
<i>Avstand mellom isolinjene på kartet.</i> Koteintervall kan utelates hvis det ikke er relevant. Det benyttes arabiske tall og måleenhetens navn. Hvis måleenheten er i SI-systemet, skal det angis med korrekt forkortelse av enhetens navn. Er enheten benyttet i en multiplum eller undermultiplum form, skal de gjeldende SI-forstavelser benyttes (f.eks. ms for millisekund). Benyttes enheter utenfor SI-systemet (ft, psi) skal disse i størst mulig grad følge godkjente industristandarder (f.eks. TULSA, SPE) Eks.: 20 ms	Between the contour lines on the map Contour interval may be left out if it is not relevant Arabian numerals must be used and the unit of measure stated. If the unit of measure is in the SI-system, it must be given with the correct abbreviation. If the unit is used in a multiple form or under multiple form, the existing SI-prefix must be used (for instance ms for millisecond). If units outside the SI-system are used (ft, psi), these must follow the approved standards in the industry (for instance TULSA, SPE). E.g: 20 ms
Inngår i rapport	Included in report
<i>Hvilken rapport kartet inngår i.</i> Selskapets interne rapportnummer, arkivkode eller beskrivelse angis her. Rapportens tittel kan også benyttes. Eks.: R-12345	Which report the map is a part of. The company's internal report number, archive code or description may be given here. The title of the report may also be used. E.g: R-12345.
Vedlegg nr	Enclosure no.
<i>Benyttes dersom kartet er utarbeidet for å inngå som vedlegg i en rapport.</i> Henvisningen gis i den form som er benyttet i rapporten. Dersom romertall er brukt i rapporten skal også feltet fylles ut med romertall. Eks.: IX	To be used if the map is an enclosure to a report. This reference should be given in the same form as that is used in the report. If Roman numerals are used in the report the field must also be filled out with Roman numerals. E.g: IX.
Serienr av	Serie no
<i>Benyttes dersom kartet inngår i en serie av kart.</i> Det skal benyttes arabiske tall. Eks.: 4 av: 5	To be used if the map is part of a series of maps, Arabian numerals must be used. E.g: 4 of: 5.
Sikkerhetsgradering	Classification
<i>Hvorvidt kartet er allment tilgjengelig eller ikke.</i> Selskapets egne koder benyttes. Eks.: Internt i lisensen.	Whether the map is publically available or not. The company's own codes may be used. E.g: Internally within the licence.

Prosjektnr	Project no
<i>Selskapets interne kostnads- og prosjektnummer.</i> Selskapets egne koder benyttes.	The company's internal AFE or project number. The company's own codes may be used.
Eks.: PTRU-5235-A01	E.g: PTRU-5235-A01.
Basert på	Based on
<i>Hvilket grunnlagsdata som er benyttet ved framstilling av kartet.</i> Benyttes hvis man vil markere hvile brønner, hvilken seismikk o. l. som er benyttet under tolkningen. Formatet er fritekst.	Which data the map is based on. Information may be given about which wells, seismic etc, were used in the interpretation. The format is free text.
Eks: 31/2-1 og ST8007.	E.g: 31/2-1 and ST8007.
Tolket av	Interpreted by
<i>Navn på den/de som utførte tolkningen.</i> Initialer kan benyttes, men fullt navn i format som ved referanselister foretrekkes hvis det er plass nok i feltet.	Name of the person(s) who did the interpretation. Initials may be used, but full names in the same format as for reference list are preferred if there is enough space in the field.
Eks.: Olsen O.P., Nilsen N., Eeg T.	E.g: Olsen O.P., Nilsen N, Eeg T.
<i>Navn på den/de som har utført kvalitetskontrollen.</i> Som for feltet "Tolket av:." Det kan også inneholde signatur og dato for kontrollen. Datoen bør være på formatet som for feltet "Godkjent dato:."	Name of the person(s) who did the quality control. As for the field "Interpreted by:". This field may also contain the signature and date of the control. The date should be in the same format as for the field "Date approved:".
Eks.: Fredriksen J. 1989-04-31	E.g: Fredriksen J. 1989-04-31.
Fagansvarlig	Author
<i>Navn på den/de som er faglig ansvarlig for kartet.</i> Som for feltet "Tolket av:."	Name of the person(s) who is technical responsible for the map. As for the field "Interpreted by:".
Godkjent av	Approved by
<i>Navn på den/de som har godkjent kartet.</i> Som for feltet "Kontrollert av:."	Name of the person(s) who approved the map. As for the field "Controlled by:"
Tegningsnr	Draught no
<i>Benyttes hvis kartet har et annet tegningsnummer enn arkivnummer.</i> Selskapets egne koder benyttes.	To be used if the map has a draft number that is different than the archive number. The company's own codes may be used.
Eks.: T-VK-00016-23487	E.g: T-VK-00016-23487.
Erstatter	Replaces
<i>Nummer eller navn på den tegningen som utgår.</i> Selskapets egne koder benyttes.	Number or name of any maps replaced by this one. The company's own codes may be used.
Eks.: M-123456	E.g:M-123456

Datafil	Computer file
<i>Henvisning til eventuelle datafil (er).</i> Selskapets egne koder benyttes. Eks: <USERA:DIRECTORY>USERAREA.-TOPGARN.DAT	Reference to possible computer data files. The company's own codes may be used. E.g: <USERA:DIRECTORY>USERAREA.-TOPGARN.DAT
Skaleringsfaktor	Scale factor
<i>Grad av skaling langs sentralmeridianen.</i> Arabiske tall. Eks.: 0.9996	The extent of scaling along the central meridian. Arabian numerals. E.g: 0.9996



SOKKELDIREKTORATET

Firma :	Sokkeldirektoratet	Dekningsområde :	64°12'07" N - 64°32'52" N 6°55'01" Ø - 7°24'59" Ø
Land :	Norge	UTM :	7121362 N-7159193 N 398868 Ø-424061 Ø
Område :	Haltenbanken	Projeksjon :	UTM
Felt/prospekt :	Njord	Sentralmeridian :	3°Ø
Kvadrant/blokk :	6407/7	Geodetisk datum :	WGS-72
Lisens :	PL 107	Vertikalt datum :	MHN
Type dokument :	Flateformkart,tid	Målestokk :	1/50000
Horisont :	Topp Garnfm.	Koteintervall :	20 ms
		Godkjent dato :	1989-07-14
		Revisjon :	1989-08-10
		Fagansvarlig ;	Olsen, O.P.
		Inngår i rapport :	R-12345
		Vedlegg nr.:	IX
		Tegningsnr.:	T-VK-00016-23487



SOKKELDIREKTORATET

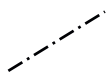
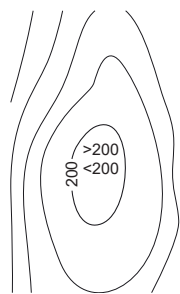
Company :	Norwegian Offshore Directorate	Map coverage :	64°12'07" N - 64°32'52" N 6°55'01" Ø - 7°24'59" Ø
Country :	Norway	UTM :	7121362 N-7159193 N 398868 Ø-424061 Ø
Area :	Haltenbanken	Projection :	UTM
Field/prospect :	Njord	Central meridian :	3°E
Quadrant/block :	6407/7	Geodetic datum :	WGS-72
License :	PL 107	Vertical datum :	MHN
Type of document :	Time structure contour map	Scale :	1/50000
Horizon :	Top Garn Fm.	Contour interval :	20 ms
		Date approved :	1989-07-14
		Revision :	1989-08-10
		Author ;	Olsen, O.P.
		Included in report :	R-12345
		Enclosure no .:	IX
		Draft no .:	T-VK-00016-23487

Eksempel på utforming av tittelfelt.
Example of a title box.

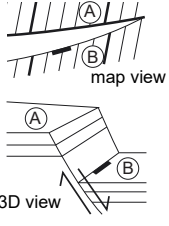
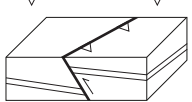
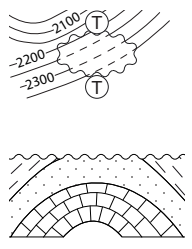
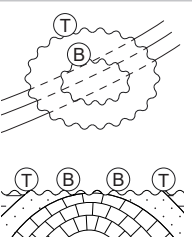
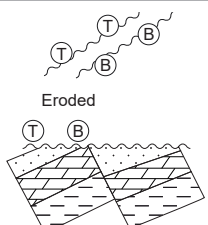
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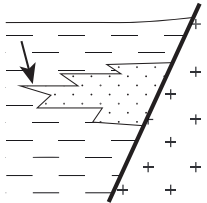
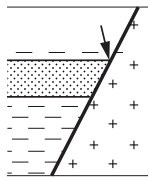
1.3 Symboler for geologiske og geofysiske kart

1.3 Symbols for geological and geophysical maps

1.3.1 Grenser og koter		1.3.1 Boundaries and contours
	Riksgrense	International boundary
Koter		Contour Line
	Hovedkote	Major contour
	Andre koter	Minor contour
	Vannndypskote	Water depth contour
	Høyde	High
	Senkning	Low
	Variasjon på tidsdifferanse/ tykkelseskart	Variations on isochron/isochore map
Erosjonsgrense		Erosional boundary
	Inkonformitet Ikke-konformitet Diskonformitet Vinkeldiskordans	Unconformity Nonconformity Disconformity Angular unconformity

1.3.2 Folder og foldakser		1.3.2 Folds and fold axes
	Akse for regional depresjon (synklinal) med horisontal akse.	Regional syncline with a horizontal axis.
	Regional akse for regional depresjon (synklinal) med aksens fall i pilens retning.	Regional syncline with the axis plunging in the direction of the arrow.
	Akse for regional høyderygg (antiklinal) med horisontal akse.	Regional anticline with a horizontal axis.
	Akse for regional høyderygg (antiklinal) med aksens fall i pilens retning.	Regional anticline with the axis plunging in the direction of the arrow.
	Symmetrisk synklinal med horisontal akse.	Symmetrical syncline with a horizontal axis.
	Symmetrisk synklinal med aksens fall i pilens retning.	Symmetrical syncline with the axis plunging in the direction of the arrow.
	Symmetrisk antiklinal med horisontal akse.	Symmetrical anticline with a horizontal axis.
	Symmetrisk antiklinal med aksens fall i pilens retning.	Symmetrical anticline with the axis plunging in the direction of the arrow.
	Asymmetrisk horisontal synklinal (dobbel pil på bratteste sjenkel).	Asymmetrical horizontal syncline (double arrow on the steepest flank).
	Asymmetrisk horisontal antiklinal (dobbel pil på bratteste sjenkel).	Asymmetrical horizontal anticline (double arrow on the steepest flank).
	Symmetrisk dom.	Symmetrical dome.
	Asymmetrisk dom.	Asymmetrical dome.
	Symmetrisk trau	Symmetrical trough
	Asymmetrisk trau	Asymmetrical trough

1.3.3 Forkastninger	1.3.3 Faults
	Normalforkastning
	Reversforkastning
	Forkastning (usikker posisjon)
	Forkastningspil
	Sidelengs-forkastning
1.3.4 Utgående enhet/formasjon	1.3.4 Subcropping strata/formation
	T=topp
	T=topp B=bunn
	T=topp B=bunn

1.3.5 Utskifring/Utkiling		1.3.5 <i>Shale out/pinch out</i>
	Eks: Utskifring/utkiling	E.g: Shale out/pinch out
1.3.6 Pålapp		1.3.6 <i>Onlap</i>
	Pålapp	Onlap
1.3.7 Diverse symboler		1.3.7 <i>Other symbols</i>
	Dreneringsretning for hydrokarboner	Hydrocarbon migration direction
	Spillretning	Direction off hydrocarbon spill
	Sedimenttilførsel inn i et basseng	Sediment transport into a basin
	Sedimenttransport internt i basseng	Sediment transportation within a basin
	Pålapp	Onlap

1.3.8 Seismisk stratigrafi		1.3.8 Seismic stratigraphy	
Reflektorende punkter		Reflection terminations	
	Utlapping		Lapout
	Bunnlapp		Baselap
On	Pålapp	On	Onlap
Dwn	Nedlapp	Dwn	Downlap
Tp	Topplapp	Tp	Toplap
	Avskjæring		Truncation
Te	Erosjon	Te	Erosional
	Strukturell		Structural
C	Konkordans	c	Concordance
	(ingen endepunkter)		(No termination)
Reflektormønstre (innenfor sekvenser) Hovedmønstre av lagning		Reflection configurations (within sequences) Principal strataconfiguration	
P	Parallell	P	Parallel
SP	Subparallell	SP	Subparallel
Obp	Skrå parallell	Obp	Oblique parallel
Obt	Skrå tangentiell	Obt	Oblique tangential
D	Divergent	D	Divergent
Prograderende klinofonner		Prograding clinoforms	
S	Sigmoid	S	Sigmoid
Ob	Skjevt	Ob	Oblique
SO	Komplekst sigmoid, skjevt	SO	Complex sigmoid-oblique
Sh	Taksteinformet	Sh	Shingled
H	Mangeformet	H	Hummocky
C	Kaotisk	C	Chaotic
RF	Refleksjonsfrie	RF	Reflection-free
M	Haugformet	M	Mounded
Mektighet		Thickness	
1/2 C:	1/2 Syklus	1/2 C:	1/2 Cycle
TH/AB:	Tynn/borte	TH/AB:	Thin/absent

Kontinuitet		Continuity	
LC:	Lav	LC:	Low
MC:	Middels	MC	Medium
HC:	Høy	HC	High
D:	Diskontinuerlig	D	Discontinuous
C:	Kontinuerlig	C	Continuous
	Amplitude		Amplitude
LA:	Lav	LA	Low
MA:	Middels	MA	Medium
HA:	Høy	HA	High
VA:	Variabel	VA	Variable
Progradasjonsretning		Direction of progradation	
	Pålapp		Onlap
	Nedlapp		Downlap
	Topplapp		Toplap
	Internt sammenløpende		Internal convergence
<u>A - B</u> C	A: Øvre grense B: Nedre grense C: Intern geometri	<u>A - B</u> C	A: Upper boundary B: Lower boundary C: Internal geometry
Frekvens		Frequency	
LF:	Lav	LF	Low
MF:	Middels	MF	Medium
HF:	Høy	HF	High
VF:	Variabel	VF	Variable

2.

Snitt og korrelasjoner/

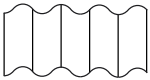
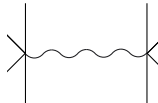
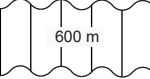
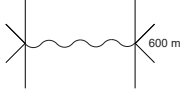
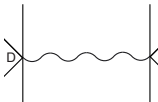
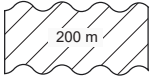
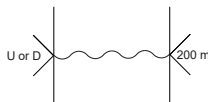
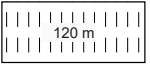
Cross-sections and correlations



2.1 Definisjoner	2.1 Definitions
Seismisk snitt	Seismic cross-section
Snitt som viser seismisk refleksjonsmønster.	<i>Cross-section that shows seismic reflection pattern.</i>
Geoseismisk snitt	Geoseismic cross-section
Seismisk snitt hvor det er inkorporert geologiske tolkninger og/eller informasjon fra brønner. Snittet kan også vise litografisk rekkefølge basert på brønninformasjon. Snittet kan illustreres både med og uten seismiske refleksjoner. Snittet skal være basert på dyp i tid.	<i>Seismic cross-section where it is incorporated geological interpretations and/or information from wells. The cross-section can also show lithographical order based on well information. The cross-section can be illustrated with and without seismic reflections. The cross-section shall be based on depth in time.</i>
Geologisk snitt	Geological cross-section
Snitt som viser geologiske tolkninger og informasjon basert på målte observasjoner fra feltgeologisk arbeid, geofysiske undersøkelser og/eller borehull. Snittet skal være basert på lineær dybdeskala (dybdekonvertert).	<i>Cross-section that shows geological interpretations and informations based on measured observation from field geological work, geophysical investigation and/or boreholes. The cross-section should be based on a linear depth scale (depth-converted).</i>
Litostratigrafisk snitt	Lithostratigraphic cross-section
Snitt som viser litostratigrafisk rekkefølge innenfor et definert område basert på brønndata og/eller felldata.	<i>Cross-section that shows lithostratigraphical order within a defined area based on well data and/or field data.</i>
Biostratigrafisk snitt	Biostratigraphic cross-section
Snitt som viser biostratigrafisk rekkefølge innenfor et definert område basert på brønndata og/eller felldata.	<i>Cross-section which shows the biostratigraphical order within a defined area based on well data and/or field data.</i>
Kronostratigrafisk snitt	Chronostratigraphic cross-section
Snitt som viser kronostratigrafisk rekkefølge innenfor et definert område basert på brønndata og/eller felldata.	<i>Cross-section which shows the Chronostratigraphic order within a defined area based on well data and/or field data.</i>
Tektonisk snitt	Tectonic cross-section
Snitt som viser (deskriptivt, kinematisk eller dynamisk) forkastninger, folder og/eller andre strukturer innenfor et definert område basert på seismiske data og/eller felldata.	<i>Cross-section which shows (descriptive, kinematic or dynamic) faults, folds and/or other structures within a defined area based on seismic data and/or field/data.</i>
Korrelasjon	Correlation
Demonstrasjon av sammenhengen mellom to eller flere geologiske fenomener i forskjellige områder. Korrelasjonen skal alltid angis med minst en av undergruppene: litostratigrafisk, biostratigrafisk eller kronostratigrafisk. Eks:-Litostratigrafiske korrelasjon.	<i>Demonstration of the relationship between two or more geological phenomena in different areas. Correlation titles shall always include one of the descriptions: lithostratigraphic, biostratigraphic or chronostratigraphic. Ex: Lithostratigraphic Correlation.</i>

2.2 Stratigrafiske brudd angitt i korrelasjoner

2.2 Stratigraphic breaks given in correlations

Tabeller/ Figures	Brønnkorrelasjoner/ Well correlations		
		Stratigrafiske brudd, ukjent mektighet	<i>Stratigraphic break, unknown thickness</i>
		Stratigrafisk brudd, kjent mektighet	<i>Stratigraphic break, known thickness</i>
		Stratigrafisk brudd, lagpakke ikke avsatt	<i>Stratigraphic break, strata not deposited</i>
		Stratigrafisk brudd, lagpakke erodert	<i>Stratigraphic break, strata eroded</i>
		Stratigrafisk brudd, pga forkastninger	<i>Stratigraphic break, due to faulting</i>
		D = Diskonformitet F = Forkasning DC = Ikke-konformitet V = Vinkeldiskordans	<i>D = Disconformity</i> <i>F = Faulting</i> <i>N = Nonconformity</i> <i>U = Angular unconformity</i>

3.

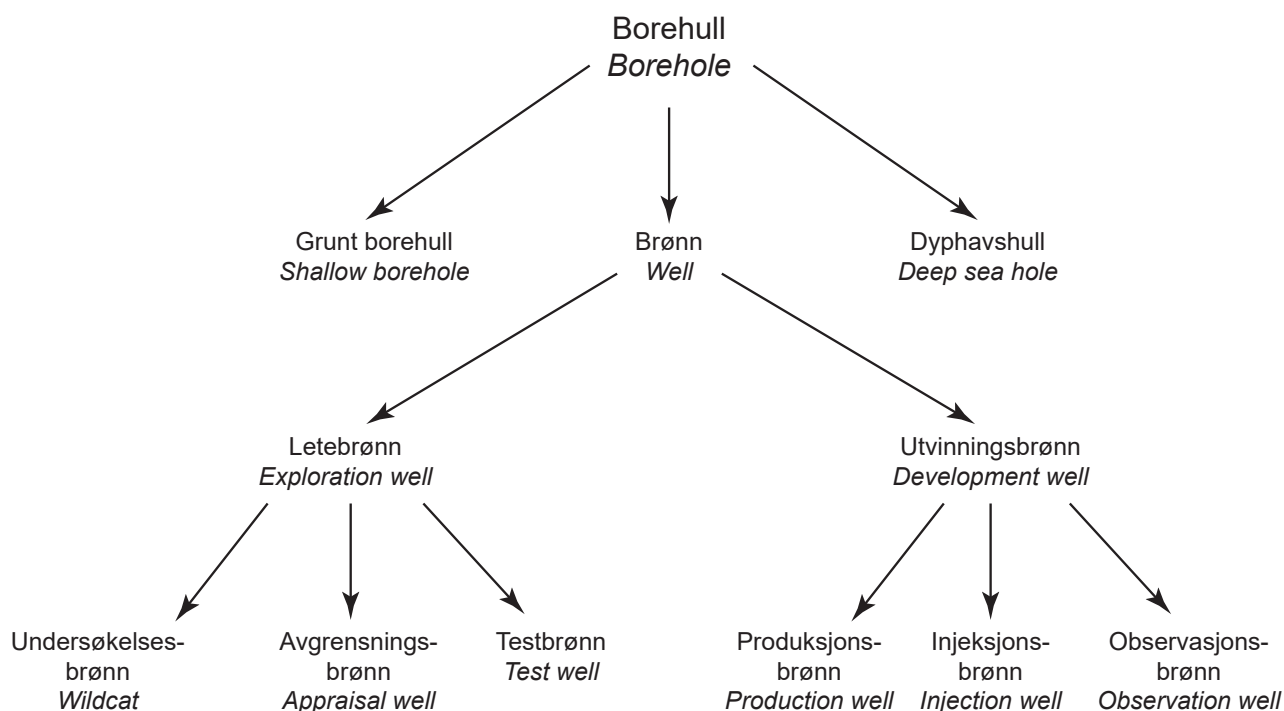
Borehull, brønner og
installasjoner/

Boreholes, wells and installations



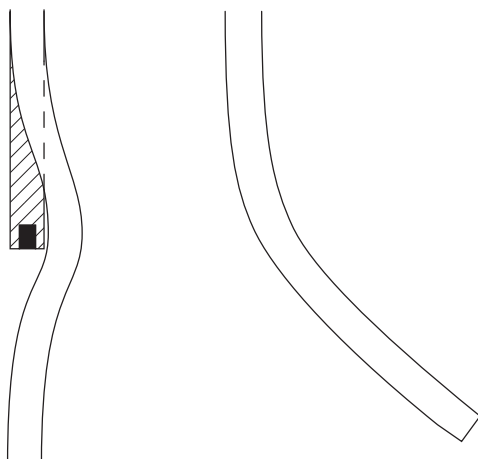
3.1 Definisjoner	3.1 Definitions
Borehull er et hull som er boret i løse jordlag eller fast fjell	Borehole is a hole that is drilled into unconsolidated soil or hard rock
Grunt borehull er et borehull som er dypere enn 25 m og maksimum 200 m under havbunnen	Shallow borehole is drilled from 25 m down to no deeper than 200 m below the sea bed.
Brønn er borehull i jorda som har til hensikt å finne og/eller produsere hydrokarboner eller for i injisere.	A well is a borehole drilled with the intention to find and/or produce hydrocarbons or to inject.
Letebrønn er brønn som bores for å påvise hydrokarboner og kartlegge utstrekning og omfang av funn. Letebrønn er en fellesbetegnelse for undersøkelses- og avgrensningsbrønner.	Exploration well is the broad term for wells which are drilled to search for hydrocarbons and/or establish the extent and the size of a discovery. Exploration well is the common term for wildcat and appraisal well.
Undersøkelsesbrønn er den første brønnen som bores i en ny blokk, eller som undersøker en ny klart definert geologisk enhet (avgrenset av en eller flere av følgende kriterier: strukturelle, lithologiske, facies eller trykk).	Wildcat is the narrower term for the first well that is drilled in a new block, or tests a new, clearly defined geological unit (separated by one or more of the following criteria: structure, lithology, facies or pressure.)
Avgrensningsbrønn er brønn som bores for å bestemme utstrekning og omfang av funn.	Appraisal well is the narrower term for a well which is drilled to establish the extent and the size of a discovery.
Utvinningsbrønn er en fellesbetegnelse for produksjonsbrønner, injeksjonsbrønner og observasjonsbrønner.	Development well is a generic term for production wells, injection wells and observation wells.
Produksjonsbrønn er en brønn som produserer eller er i stand til å produsere hydrokarboner.	Production well is a well which produces or is capable of producing hydrocarbons.
Injeksjonsbrønn er en brønn som brukes til injeksjon, uavhengig av injeksjonens formål.	Injection well is a well which is used for injection, regardless of the purpose of the injection.
Observasjonsbrønn er en brønn som brukes for å overvåke brønnparametre.	Observation well is a well which is used for observing well parameters.
Havbunnskompletterte brønner er produksjonsbrønner som blir komplettert ved ventiltre på sjøbunnen eller på bunnramme for senere tilkobling til produksjonsinnretning.	Subsea completed wells are production wells which are completed by a wellhead Christmas tree either on the seafloor or on a sea floor foundation to be hooked up later to a production platform.
Testproduksjonsbrønner er en brønn som produserer hydrokarboner med sikte på å evaluere feltets drivverdighet i fasen før feltet/strukturen settes i regulær drift, og der produsert petroleum blir solgt.	Test production well is a well which produces hydrocarbons to evaluate the commerciality of a field before the field/structure is put into regular commercial operation, and where the produced hydrocarbons are sold, rather than being flared.
Forbiboring er nødvendig boring ut til siden for å omgå uforutsette hindringer i brønnen. En forbiboring forandrer ikke brønnnavnet (se 3.1.1.).	Side tracking is necessary drilling out to the side to bypass an unforeseen obstacle in the well. A side track does not change the well name (see 3.1.).
Avviksboring er boring av brønn som er planlagt boret ut fra vertikalen, eller fra allerede eksisterende brønn, hvor nedre hullseksjon er tilbakeplugg og permanent forlatt. Avviksboringer er en felles betegnelse på skråboring og sideboring (se 3.1.2.).	Deviated drilling is drilling a well out from the vertical line or from an existing well where the bottom section has been plugged and abandoned. Deviated drilling is a generic term for inclined drilling and Side track (see 3.1.2.).
Skråboring er boring av en brønn som etter programmet ikke er vertikal.	Inclined drilling is drilling of a well that is planned to be non-vertical.

Sideboring er boring av en brønn som er boret til nytt område ut fra en eksisterende brønn hvor nedre hullseksjon er tilbakepluggert og permanent forlatt. Dette er en brønn med nytt tillatelsesnummer. Brønnen beholder betegnelsen for den originale brønnen og får tilleggsbetegnelsen "A". Dersom flere brønner bores ut vil disse få betegnelsen "B", "C", osv. Dersom brønnen det blir boret ut fra er skråboret vil ikke "S" bli tatt med i det nye brønnnavnet.	Side track is drilling a well to a new target out from an existing wellbore, where the bottom section has been plugged and abandoned. This is a new well which requires a new drilling permit. The well keeps the original designation, but receives in addition the designation "A ". If further wells are drilled out from the same hole, they will be designated "B", "C", "D" etc. If the first well is an inclined well, the "S" should not be included in the new well name.
Gjenåpnede brønner er letebrønner som har vært midlertidig forlatt og som er gjenåpnet.	Re-entered wells are exploration wells which have been temporarily abandoned and later reopened.
Oppgitte brønner er brønner som i borefasen er plagget og oppgitt av tekniske årsaker.	Abandoned wells are wells which in the drilling phase are plugged due to technical problems.
Innretningen hvor hydrokarbonene første gang samles eller hvor injeksjonen foregår fra, benevnes "A" utover til "P" for hvert felt eller blokk.	The installation is where hydrocarbon are collected initially or from where injection is taking place. The installation are given designations from "A" to "P" for each field or block.
Brønnspor er selve plasseringen av hullet på ethvert dyp. En brønn kan ha flere alternative brønnspor, som et resultat av forbiboring eller sideboring. Hvert brønnspor strekker seg fra utboringpunkt til totaldypet. Dersom en skal følge en brønn fra topp til bunn, må en ved sideboringer skjøte sammen flere brønnspor.	Well track is the location of the well at any depth. A well may have several well tracks, as a result of sidetracking. Each well track reaches from kick-off point to total depth. Following a well from top to bottom may require compositing several well tracks.



3.1.1 Forbiboring / Sidetrack

Skråboring
Inclined drilling

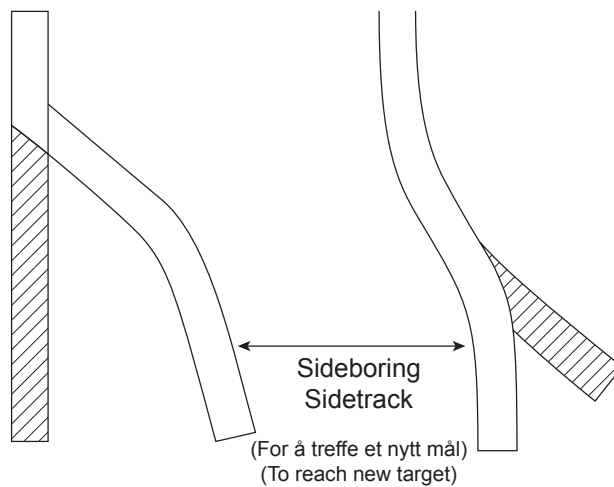


3.1.2 Avviksboringer / Deviated drilling

Sideboring
Sidetrack

(Ut fra rett hull)
(From a straight hole)

(Ut fra skråboret hull)
(From a deviated hole)



3.2 Brønnreferanser

Brønnnavnet består av 5 deler (for hvert nytt brønnnavn kreves en boretillatelse fra SoDir). I tillegg skal brønndata identifiseres med 2 deler med tilleggsinformasjon. Tilsammen vil dermed brønnreferansen bestå av 7 deler.

Formatet for brønnreferansen skal være følgende:

BRØNNREFERANSE												
Brønnnavn											Tillegg	
Del	1		2	3	4	5	6	7				
Posisjon			/		-	-						

Innen hver del skal tall høyrejusteres og bokstaver venstrejusteres.

For rapportering i tekst eller i figurer (f eks posteringer på kartblad) kan de blanke posisjonene mellom karakterene utelates samt bindestreken etter del 3.

3.2 Well references

The well name consists of 5 items (each new well name require a new drill permit from NOD). In addition well data should be identified by 2 items of additional information. All together, the well reference will consist of 7 items.

The format of the well reference should be:

WELL REFERENCE												
Wellname											Addition	
Item	1		2	3	4	5	6	7				
Position			/		-	-						

Within each item, numbers are to be right-adjusted and letters left-adjusted.

For reporting in text or in figures (e g registrations on maps), the blank positions between the characters can be left out, and in addition, the hyphen after item 3.

Del 1	Kvadrantidentifikasjon	Item 1	Quadrant number
Del 2	Blokkidentifikasjon	Item 2	Block number
Del 3	Type identifikasjon "(blank)" for letebrønn 'A-P' for produksjonsinnretning 'U' for grunne borehull 'T' for testproduksjonsbrønn	Item 3	Type identification '(space)' for exploration well 'A-P' for platform 'U' for shallow boreholes 'T' for test production well
Del 4	Nummer, løpenummer fra 1 til 99	Item 4	Number, from 1 to 99
Del 5	Brønnhistorie og konfigurasjon 'A', 'B', 'C', 'D', osv for sideboring (nye brønner) 'S' for letebrønn som er planlagt skråboret 'H' for brønn som er havbunnskomplettert (brukes bare for utvinningsbrønner) 'R' for gjenåpnet letebrønn (antall ganger gjenåpnet telles i del 6)	Item 5	Well history and configuration 'A', 'B', 'C', 'D',... for Side track (new wells) 'S' for an inclined exploration well 'H' for subsea completed well (used only on development wells) 'R' for reopened exploration well (times reopened are shown in item 6)
Del 6	Brønnhistorie "(blank)", '2', '3', '4', osv. for antall ganger gjenåpning av letebrønn 'X' for brønn som er oppgitt av tekniske årsaker	Item 6	Well history "(blank)", '2', '3', '4',... for the number of times an exploration well has been reopened 'X' for a well that is junked due to technical reasons
Del 7	Brønnbanenummer. Første brønnbane i en brønn betegnes ikke (blank). Neste brønnbane betegnes T2 og neste T3 osv.	Item 7	Well track number. First well track in a well is not to be given a number. The next is given T2 and the next T3 and so on

3.3 Eksempler på brønnreferanser	3.3 Examples of well references
3.3.1 Eksempler på brønnreferanser for letebrønner	3.3.1 Examples of well references for exploration wells
Eks 1: 31/2-5 letebrønn	Ex 1: 31/2-5 <i>an exploration well</i>
Eks 2: 31/2-5 S letebrønn som er skråboret	Ex 2: 31/2-5 S <i>an exploration well which is drilled incline</i>
Eks 3: 31/2-5 A brønn sideboret ut fra 31/2-5	Ex 3: 31/2-5 A <i>a well deviated from 31/2-5</i>
Eks 4: 31/2-5 X letebrønn som ikke nådde prospektet	Ex 4: 31/2-5 X <i>an exploration well which did not reach the prospect</i>
Eks 5: 31/2-5 R letebrønn som er gjenåpnet etter å ha vært midlertidig forlatt	Ex 5: 31/2-5 R <i>an exploration well reopened after being temporarily abandoned</i>
Eks 6: 31/2-5 R2 letebrønn som er gjenåpnet 2 ganger	Ex 6: 31/2-5 R2 <i>an exploration well which was reopened twice</i>
Eks 7: 31/2-5AR 2X letebrønn som er sideboret ut fra 31/2-5, gjenåpnet 2 ganger og som ikke nådde prospektet	Ex 7: 31/2-5AR 2X <i>an exploration well which was deviated from 31/2-5, reopened twice and did not reach the prospect</i>
Merknader: se eks 3: brønn som boret ut fra en eksisterende brønn mot et nytt prospekt vil få nytt tillatelsesnummer og regnes som en ny brønn. Den vil beholde den originale brønnens betegnelse, men få tilleggsbetegnelsen A for første utboring; B for andre osv. Se eks 5: letebrønn som er gjenåpnet en gang får betegnelsen R (RI brukes ikke).	Remarks: note Ex 3: a well which is drilled out from an already existing well towards a new prospect will have a new drilling permit and be registered as a new well. It will keep the original well number, but will get the additional letter A for the first deviation, B for the second and so on. Note ex 5: an exploration well which is reopened once receives the term R (RI is not used).
3.3.2 Eksempler på brønnreferanser for utvinningsbrønner	3.3.2 Examples of well references for development wells
Eks 1: 30/9-A-25 vanlig brønn boret fra innretning A	Ex 1: 30/9-A-25 <i>a well drilled from platform/template A</i>
Eks 2: 30/9-B-25 vanlig brønn boret fra innretning B	Ex 2: 30/9-B-25 <i>a well drilled from platform/template B</i>
Eks 3: 30/9-B-25 A ny brønn sidebores ut fra 30/9-B-25	Ex 3: 30/9-B-25 A <i>a new well deviated from well 30/9-B-25</i>
Eks 4: 30/9-B-25 X brønn som ikke nådde reservoaret	Ex 4: 30/9-B-25 X <i>a well that did not reach the reservoir</i>
Eks 5: 30/9-B-25 A X brønn som er sideboret ut fra 30/9-B-25 og som ikke nådde reservoaret	Ex 5: 30/9-B-25 A X <i>a well that is deviated from 30/9-B-25 and did not reach the reservoir</i>
Merknader: For innretningsbetegnelser brukes bokstaver fra A og utover fortløpende til P. R (Re-entry) brukes ikke om produksjonsbrønner da det er svært vanlig av slike brønner bores og/eller kompletteres i flere faser. Da de fleste produksjonsbrønner er skråboret brukes ikke bokstaven S i betegnelsen.	Remarks: For platform designations the letters from A to P are used. R (R-entry) is not used for production wells, though it is quite common that these wells are drilled and/or completed in different phases. Most production wells are inclined so the letter S is not used in the well name.

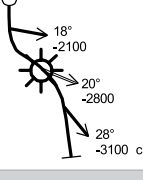
3.3.3 Eksempler på brønn-referanser for havbunnskompletterte utvinningsbrønner	3.3.3 Examples of well references for subsea completed development wells
Eks 1: 30/9-A-25 H brønn som er havbunnskomplettert og skal knyttes til innretning A	Ex 1: 30/9-A-25 H <i>a well which is subsea completed and is going to be linked to platform/template A</i>
Eks 2: 30/9-B-25-H brønn som er havbunnskomplettert og skal knyttes til innretning B	Ex 2: 30/9-B-25-H <i>a well which is subsea completed and is going to be linked to platform/template B</i>
Eks 3: 30/9-B-25 AH ny brønn sideboret ut fra 30/9-B-25	Ex 3: 30/9-B-25 AH <i>a new well deviated from 30 19-B -25</i>
Eks 4: 30/9-B-25-H X brønn som ikke nådde reservoaret	Ex 4: 30/9-B-25-H X <i>a well which did not reach the reservoir</i>
Eks 5: 30/9-B-25 AHX brønn som er sideboret ut fra 30/9-B-25 H og som ikke nådde reservoaret	Ex 5: 30/9-B-25 AHX <i>a well which is deviated from 30/9-B-25H and which did not reach the reservoir</i>
Merknader: Her gjelder de samme bestemmelser som for produksjonsbrønner	<i>Remark: Here the same format is used as for production wells</i>
3.3.4 Eksempler på brønnreferanse for testproduksjonsbrønner	3.3.4 Examples of well reference for test production wells
Eks 1: 30/9-25 T	Ex 1: 30/9-25 T
3.3.5 Eksempel på referanser for grunne borehull (25-200 m)	3.3.5 Example of reference for shallow boreholes (25-200 m)
Eks 1: 30/9-U-I nummereres fra 1 og oppover i hver blokk	Ex 1: 30/9-U-I <i>numbered from 1 and up in every block</i>
Merknader: Grunne borehull blir verken skråboret, sideboret eller gjenåpnet.	<i>Notice: Shallow boreholes are neither inclined, deviated or reopened.</i>
Grunne boringer utenfor konsesjonsbelagte områder blir identifisert etter Sokkeldirektoratets kvadrant/blokk-borehull nummer system.	<i>Shallow drilling outside concession areas follows the NOD's system for quadrant/block-borehole number.</i>

3.4 Brønnsymboler	3.4 Well symbols
3.4.1 Symbolenes inndeling og størrelse	3.4.1 The symbols' classification and size
Standarden er inndelt i følgende symboler: • Grunnsymboler • Kombinasjoner av grunnsymboler • Brønnfunksjoner • Avviksborede brønner • Orienterte helningsmålinger • Nærliggende og doble/multiple brønner	The standard is divided into following symbols: • Basic symbols • Combinations of basic symbols • Well functions • Deviated wells • Oriented dip measurement • Neighbouring and multiple wells
Grunnsymbolene er "byggsteinene" i systemet og inneholder først og fremst basissymbolene for teknisk status og hydrokarbonstatus. Ved hjelp av grunn symbolene og kombinasjoner av disse skal det la seg gjøre å klassifisere enhver brønn. Vær oppmerksom på at kun et utvalg av kombinasjonssymboler er tatt med i tabellene og at andre kombinasjoner kan lages ved å følge samme prinsipp. Hydrokarbonstatus gjelder generelt for brønnen som et hele, og brønnen får status etter eventuelle produktive soner. I de tilfeller hvor det er ønskelig å angi hydrokarbonstatus på kartlagt nivå, må det angis spesielt i tegnforklaringen at symbolene gjelder på sonebasis. Brønnfunksjoner angis med bokstavkoder eller med egne funksjonstegn i kombinasjon med symbolene. Kun de mest aktuelle bokstavkodene er angitt, men brukerne har anledning til å definere nye koder etter behov hvis lokale forhold gjør dette nødvendig. Benyttede bokstavkoder og symboler defineres i kartets tegnforklaring. Bruken av indekser bør avpasses etter kartets målestokk. Anbefalt plassering av indekser er:	The basic symbols are the foundation of the system and illustrate both technical and hydrocarbon status. Through the use of the basic symbols, alone and in combination it should be possible to classify every type of well. Note that only a selection of combined symbols are shown here and other combinations may be made by following the same principle. Hydrocarbon status generally refers to a well as a whole, though that status may apply only to (a) specific zone(s). In those cases where it is desired to show the hydrocarbon status for a mapped level, it must be specified in the map legend that the symbols refer only to a specific zone. The well functions are given with letter codes or with another symbol, in conjunction with the basic well symbols. Only the current letter codes are shown below, but the user may define new codes if required due to local conditions. The letter codes and symbols must be defined in the map legend. This well function symbology should be adjusted to the map scale. Recommended placement of this symbology is:
Brønn nr. ○ Funksjon Soneangivelse/tilleggsinformasjon Dyp/isopak	Well no ○ Function Zone/extra information Depth/isopak

3.4.2 Grunnsymboler		3.4.2 Principal symbols
	Grunt borehull	Shallow borehole
	Foreslått brønn	Proposed well
	Brønn forlatt på grunn av tekniske problemer (målet ikke nådd)	Well abandoned due to technical reasons (target not reached)
	Midlertidig forlatt eller stengt brønn	Temporarily abandoned or shut in well
	Plugget og forlatt brønn	Plugged and abandoned well
	Kartlagt enhet ikke påvist F = forkastet NR = ikke nådd NP = ikke tilstede	Mapped unit not observed F = faulted NR = not reached NP = not present
	Tørr brønn (sone)	Dry well (zone)
	Oljebrønn (oljeførende sone)	Oil well (oilbearing zone)
	Brønn (sone) med mindre mengder olje/olje med usikker produserbarhet	Well (zone) with minor oil/oil of uncertain producibility
	Brønn (sone) med ikke-bevegelig olje/spor av olje	Well (zone) with residual oil/traces of oil
	Gassbrønn (gassførende sone)	Gas well (gas bearing zone)
	Brønn (sone) med mindre mengder gass/gass med usikker produserbarhet.	Well (zone) with minor gas/gas of uncertain producibility
	Kondensatbrønn (kondensatførende sone)	Condensate (condensate bearing zone)
	Brønn (sone) med mindre mengder kondensat	Well (zone) with minor condensate
 el. 	Brønn med ikke-bevegelig gass/spor av gass	Well with residual gas/trace of gas
	Kull	Coal
	Foreslått plattform/installasjon	Proposed platform/-installalion
	Plattform	Platform
	Havbunnsinstallasjon	Subsea installation
3.4.3 Kombinasjoner av grunnsymboler		3.4.3 Combinations of principal symbols
	Forlatte brønner (utvalgte eks.)	Abandoned wells (selected)
	Tørr brønn plugget og forlatt	Dry well plugged and abandoned
	Oljebrønn plugget og forlatt	Oil well plugged and abandoned
	Gassbrønn plugget og forlatt	Gas well plugged and abandoned
	Kondensatbrønn plugget og forlatt	Condensate well plugged and abandoned

	Tilleggsinformasjon kan angis hvis dette er ønskelig T = tekniske grunner NC = ikke kommersiell W = for høyt vanninnhold	<i>Additional information may be added, if desired</i> <i>T = technical reasons</i> <i>NC = non-commercial</i> <i>W = watered out</i>
	Midlertidig forlatte brønner (utvalgte eks)	Temporarily abandoned wells (selected ex)
	Oljebrønn midlertidig forlatt/stengt	<i>Oil well temporarily abandoned/shut in</i>
	Gassbrønn midlertidig forlatt/stengt	<i>Gas well temporarily abandoned/shut in</i>
	Kombinasjon av hydrokarbonstatus hvor forskjellige hydrokarbontyper forekommer i separate soner/faser (utvalgte eks.)	Combinations of hydrocarbonstatus where different hydrocarbon types are present in separate zones/phases (selected ex)
	Olje- og gassbrønn	<i>Oil and gas well</i>
	Oljebrønn med mindre mengder gass/ gass med usikker produserbarhet	<i>Oil well with minor gas/gas of uncertain producibility</i>
	Olje- og kondensatbrønn	<i>Oil and condensate well</i>
	Gassbrønn med mindre mengder olje/ olje med usikker produserbarhet	<i>Gas well with residual oil/trace of oil of uncertain producibility</i>
	Gassbrønn med ikke-bevegelig olje/ spor av olje	<i>Gas well with residual oil/traces of oil</i>
	Gass og kondensatbrønn	<i>Gas and condensate well</i>
	Brønn med mindre mengder kondensat og gass	<i>Well with minor condensate and gas</i>
	Olje/gass og kondensatbrønn	<i>Oil/gas and condensate well</i>
	Brønn med mindre mengder olje og gass/olje og gass med usikker produserbarhet	<i>Well with minor oil and gas/oil and gas of uncertain producibility</i>
	Brønn med mindre mengder gass/gass med usikker produserbarhet og med ikke-bevegelig olje/spor av olje	<i>Well with minor gas/gas of uncertain producibility and with residual oil/traces of oil</i>
	Brønn med mindre mengder olje og gass	<i>Well with minor oil and gas</i>
	Brønn med ikke bevegelig gass/olje/ spor av gass/olje	<i>Well with residual gas/oil/traces of gas/oil</i>
	Brønn med mindre mengder kondensat	<i>Well with minor condensate</i>
3.4.4 Brønnsfunksjoner		3.4.4 Well functions
	Brønner i produksjon	Producing wells
	F = produksjon ved flømming	<i>F = production by flowing</i>
	P = produksjon ved pumping	<i>P = production by pumping</i>
	OBS = observasjonsbrønn	<i>OBS = observation well</i>
	Separat produksjon av olje fra to forskjellige soner	<i>Dual completion oil</i>

	Separat produksjon av gass fra to forskjellige soner	<i>Dual completion gas</i>
	Separat produksjon av olje og gass fra to forskjellige soner	<i>Dual completion oil and gas</i>
	Produksjon - olje	<i>Production - oil</i>
	Produksjon - ikke tilgjengelig	<i>Production - not available</i>
	Produksjon - ikke anvendelig	<i>Production - not applicable</i>
	Avlastningsbrønn	<i>Relief Well Location</i>
	Produksjon - gass	<i>Production - gas</i>
	Observasjon	<i>Observation</i>
	Produksjon - gass/kondensat	<i>Production-gas/condensate</i>
	Produksjon - vann	<i>Production-water</i>
Avstengte brønner		Shut-in
    	W = stengt p.g.a. høyt vanninnhold R = stengt p.g.a. reparasjoner G = stengt p.g.a. høyt gass/oljeforhold S = stengt p.g.a. sandproduksjon E = uttømt	<i>W = closed in for high water cut</i> <i>R = closed in for repair</i> <i>G = closed in for high gas/oil ratio</i> <i>S = closed in for sand production</i> <i>E = exhausted</i>
Injeksjonsbrønner		Injection well
	Vanninjeksjonsbrønn	<i>Water injection well</i>
	Gassinjeksjonsbrønn	<i>Gas injection well</i>
	Injeksjon - gass	<i>Injection - gas</i>
  	Konverterte brønner -Tidligere produksjonsbrønn som er konvertert til injeksjonsbrønn	<i>Converted well</i> <i>-Former production well that is converted to injection well</i>
	Injeksjon - ikke tilgjengelig	<i>Injection - not available</i>
	Injeksjon - ikke anvendelig	<i>Injection - not applicable</i>
	Injeksjon - borekaks	<i>Injection-cuttings</i>
	Injeksjon - vann	<i>Injection-water</i>
	Injeksjon - CO ₂	<i>Injection-CO₂</i>
Soneangivelse		Specification of zone
	Angitt funksjon gjelder grunnere nivå enn det kartlagte	<i>Specified function applies to level higher than zone of map</i>
	Angitt funksjon gjelder dypere nivå enn det kartlagte	<i>Specified function applies to level lower than zone of map</i>

3.4.6 Orientererte helningsmålinger		3.4.6 Oriented dip readings
	Helning av kartlagt flate bestemt fra fall-loggen	Dip of mapped surface determined from dip meter log
	Helning av kartlagt flate på angitt dyp bestemt fra fall-loggen	Dip of mapped surface at given depth determined from dip meter log
	Helning av flate bestemt ved kjernemålinger	Dip of surface determined from core measurement
	Helning av flate angitt dyp, målt på kjerner	Dip of surfaces at given depths from core measurement
	Helning av orienterte flater i avviksborede brønner	Dip of oriented surfaces in deviated wells
3.4.7 Aktive undersøkelsesbrønner		3.4.7 Active exploration wells
	Undersøkelsesbrønn	Wildcat
	Avgrensing	Appraisal
3.4.8 Seismikkområde		3.4.8 Seismic area
	Planlagt hovedområde for seismisk innsamling	Seismic acquisition, gross area planned
	Seismisk innsamling for hovedområdet pågår	Seismic acquisition, gross area ongoing
	Seismisk innsamling for hovedområdet midlertidig stoppet	Seismic acquisition, gross area paused
(White)	Seismisk innsamling (skjult)	Seismic acquisition (hidden)
3.4.9		3.4.9 Wells, by general class
		Development/service
		Exploratory
		Injector
		Non-hydrocarbon

3.5 Installasjoner		3.5 Installations
		Dead Man anchor (DMA)
		Diverless Latch Arrangement (DLA)
		Start/end Point
		Anchor
		Buoy, general
		Buoy, loading
		Buoy, midline
		Buoy, STL
		Buoy, weather
		Central Distribution Unit (CDU)
		Clamp
		Clump weight
		Concrete Block
		Counteract
		Crossing Point
		Flange
		Flare Platform
		Hang-off
		Junction Point (T/Y)
		Land valve Station
		Manifold
		Pile
		Pipe connection
		Pipeline end (PLEM)
		Pipeline end (PLET)
		Platform
		Riser base
		Rig
		Ship
		Subsea object, other
		Subsea template
		Subsea valve
		Tank
		Terminal/supply base

		<i>Touchdown point (TDP)</i>
		<i>Transponder</i>
		<i>Unknown</i>
		<i>Anchor, planned</i>
		<i>Buoy, general, planned</i>
		<i>Buoy, loading, planned</i>
		<i>Buoy, midline, planned</i>
		<i>Buoy, STL, planned</i>
		<i>Planned Dead Man anchor (DMA)</i>
		<i>Diverless Latch Arrangement (DLA), planned</i>
		<i>Buoy, weather, planned</i>
		<i>Clamp, planned</i>
		<i>Clump weight, planned</i>
		<i>Concrete Block, planned</i>
		<i>Counteract, planned</i>
		<i>Crossing Point, planned</i>
		<i>Flange, planned</i>
		<i>Flare Platform, planned</i>
		<i>Hang-off, planned</i>
		<i>Junction Point (T/Y), planned</i>
		<i>Land valve Station, planned</i>
		<i>Manifold, planned</i>
		<i>Pile, planned</i>
		<i>Pipe connection, planned</i>
		<i>Pipeline end (PLEM), planned</i>
		<i>Pipeline end (PLET), planned</i>
		<i>Platform, planned</i>
		<i>Riser base, planned</i>
		<i>Rig, planned</i>
		<i>Ship, planned</i>
		<i>Subsea object, planned</i>
		<i>Subsea template, planned</i>
		<i>Subsea valve, planned</i>
		<i>Tank, planned</i>
		<i>Terminal/supply base, planned</i>
		<i>Touchdown point (TDP), planned</i>
		<i>Transponder, planned</i>
		<i>Flare Platform, disused</i>

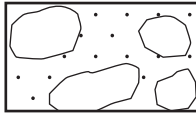
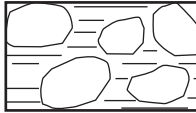
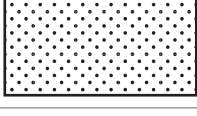
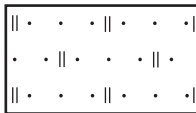
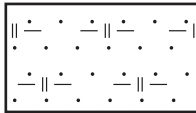
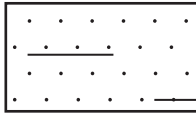
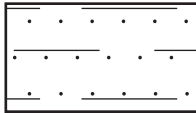
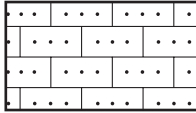
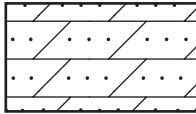
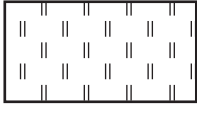
		<i>Platform, disused</i>
		<i>Pile, disused</i>
		<i>Pipeline end manifold, disused</i>
		<i>Riser base, disused</i>
		<i>Subsea object, disused</i>
		<i>Subsea template, disused</i>
		<i>Wind turbine</i>
		<i>Wind turbine, planned</i>
Safety zones		
	RGB 230-152-0	<i>Anchoring/fishing prohibited</i>
	RGB 204-204-204	<i>Safety zone, Permanent</i>
		<i>Safety zone, Temporary</i>
Cables, overview		
		<i>Cable</i>
		<i>Cable, planned</i>
		<i>Cable, disused</i>
	RGB 255 - 255 - 0 + black	<i>Bundle</i>
	RGB 255 - 190 - 232	<i>Condensate</i>
	RGB 0 - 0 - 0	<i>Flowline</i>
	RGB 255 - 0 - 0	<i>Gas</i>
	RGB 158 - 40 - 0	<i>Glycol</i>
	RGB 255 - 135 - 0	<i>Methanol</i>
	RGB 205 - 189 - 102	<i>CO₂</i>
	RGB 219 - 0 - 0	<i>Oil</i>
		<i>Oil and gas</i>
		<i>Riser</i>
		<i>Spool</i>
	RGB 0 - 145 - 255	<i>Water</i>
		<i>Water alternating gas (WAG)</i>
		<i>Tunnel</i>
		<i>Bundle, planned</i>
		<i>Condensate, planned</i>
		<i>Flowline, planned</i>
		<i>Gas, planned</i>
		<i>Glycol, planned</i>
		<i>Methanol, planned</i>
		<i>Oil, planned</i>
		<i>Oil and gas, planned</i>

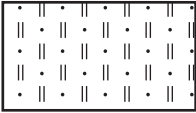
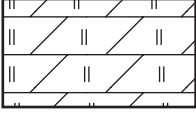
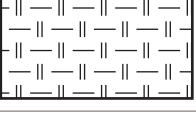
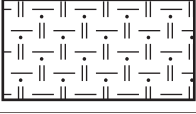
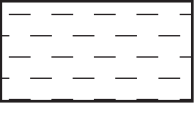
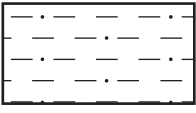
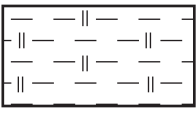
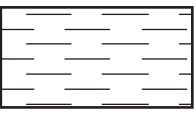
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		<i>Spool, planned</i>
		<i>Water, planned</i>
		<i>Water alternating gas (WAG), planned</i>
		<i>Bundle, disused</i>
		<i>Condensate, disused</i>
		<i>Flowline, disused</i>
		<i>Gas, disused</i>
		<i>Methanol, disused</i>
		<i>Oil, disused</i>
		<i>Oil and gas, disused</i>
		<i>Riser, disused</i>
		<i>Water, disused</i>
		Anchor lines
		<i>Planned</i>
		<i>Permanent</i>
		Rig anchor lines
		<i>Anchor chain, as laid</i>
		<i>Anchor chain, planned</i>
		<i>Anchor line, as laid</i>
		<i>Anchor line, planned</i>
		<i>Grapple wire, as laid</i>
		<i>Grapple wire, planned</i>
		<i>Piggyback, as laid</i>
		<i>Piggyback, planned</i>
		<i>Rig outline, as laid</i>
		<i>Rig outline, planned</i>
		Rig points
		<i><all other values></i>
		<i>Rig anchor, as laid</i>
		<i>Rig anchor, planned</i>
		<i>Rig center, as laid</i>
		<i>Rig center, planned</i>
		<i>Subsurface buoy, as laid</i>
		<i>Subsurface buoy, planned</i>
		<i>Surface buoy, as laid</i>
		<i>Surface uoy, planned</i>
		<i>Winch, as laid</i>
		<i>Winch, planned</i>

4.

Geologiske symboler/ Geological symbols

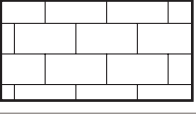
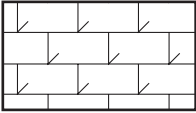
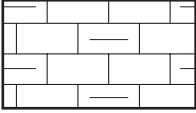
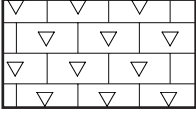
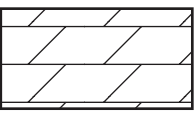


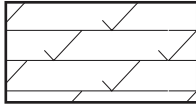
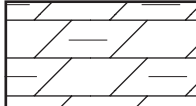
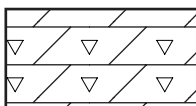
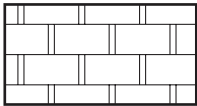
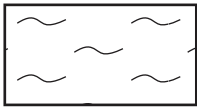
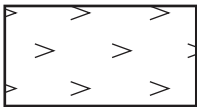
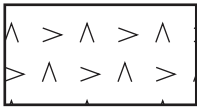
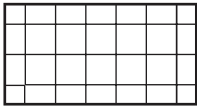
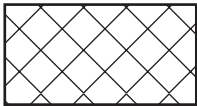
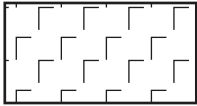
Main lithology		Secondary lithology	
4.1 Bergartstyper			
4.1 Rock types			
4.1.1 Epiklastiske bergarter			
4.1.1 Epiclastic rocks			
	Konglomerat Conglomerate		
			Conglomerate, clast supported
			Conglomerate, sand matrix supported
			Conglomerate, mud matrix supported
	Sedimentær breksje Sedimentary breccia		
	Sandstein Sandstone		
			Sandstone, silty
			Sandstone, muddy
			Sandstone, argillaceous
			Sandstone, very argillaceous
			Sandstone, calcareous
			Sandstone, dolomitic
	Siltstein Siltstone		

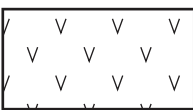
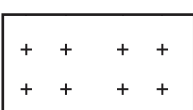
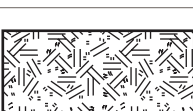
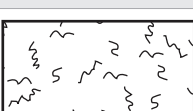
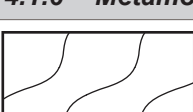
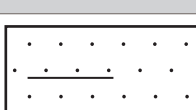
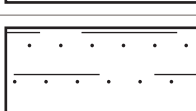
Main lithology		Secondary lithology	
			<i>Siltstone, sandy</i>
			<i>Siltstone, calcareous</i>
			<i>Siltstone, dolomitic</i>
	Slamstein <i>Mudstone</i>		
			<i>Mudstone, sandy</i>
	Leirstein <i>Claystone</i>		
			<i>Claystone, sandy</i>
			<i>Claystone, silty</i>
	Leirskifer <i>Shale</i>		

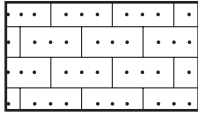
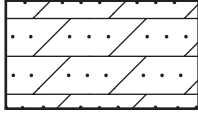
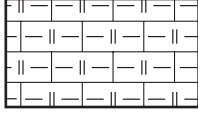
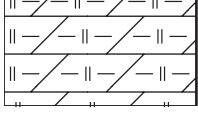
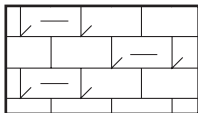
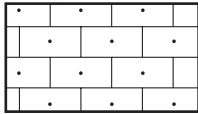
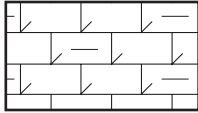
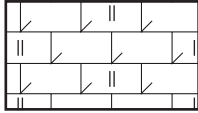
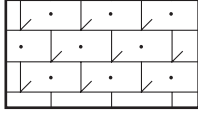
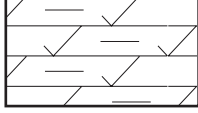
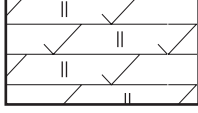
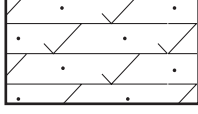
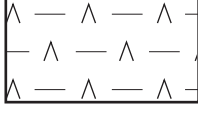
4.1.2 Karbonatbergarter

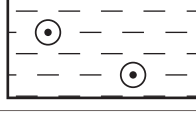
4.1.2 Carbonate rocks

	Kalkstein <i>Limestone</i>		
			Dolomittisk kalkstein <i>Limestone, dolomitic</i>
			<i>Limestone, argillaceous</i>
			<i>Limestone, siliceous</i>
	Dolomittstein <i>Dolostone</i>		

Main lithology		Secondary lithology	
			Kalkholdig dolomittstein <i>Dolostone, calcareous</i>
			<i>Dolostone, argillaceous</i>
			<i>Dolostone, siliceous</i>
	Kritt <i>Chalk</i>		
	Mergel <i>Marl</i>		
4.1.3 Evaporittbergarter 4.1.3 Evaporitic rocks			
	Gips <i>Gypsum</i>		
	Anhydritt <i>Anhydrite</i>		
	Gips/anhydritt uspesifisert <i>Gypsum/anhydrite unspecified</i>		
	Steinsalt <i>Halite</i>		
	<i>Potassium salts</i>		
	Salt <i>Salt, general</i>		
4.1.4 Kull 4.1.4 Coal			
	Kull <i>Coal</i>		
	Kullfragmenter <i>Coaly fragments</i>		
	Brunkull <i>Brown coal</i>		

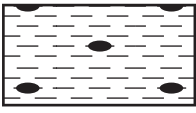
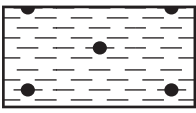
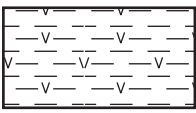
Main lithology		Secondary lithology	
4.1.5 Magmatiske bergarter 4.1.5 Magmatic rocks			
Vulkanske bergarter Volcanic rocks			
	Vulkanske bergarter Volcanic rocks		
			Tuffaceous rock
			Volcanic breccia and tuff
Dypbergarter Plutonic rocks			
	Dypbergarter Intrusive (plutonic) rock		
	Silisiske dypbergarter (Granitt, tonalitt etc.) Silicic plutonic rocks (Granite, tonialite etc.)		
	Mafiske dypbergarter (Gabbro, noritt etc.) Mafic plutonic rocks (Gabbro, norite etc.)		
Gangbergarter Dykes and sills			
	Gangbergarter Dykes and sills		
4.1.6 Metamorfe bergarter 4.1.6 Metamorphic rocks			
	Metamorfe bergarter Metamorphic rocks		
4.1.7 Kombinerte symboler 4.1.7 Combined symbols			
			Sandstone, argillaceous
			Sandstone, very argillaceous

Main lithology		Secondary lithology	
			<i>Sandstone, calcareous</i>
			<i>Sandstone, dolomitic</i>
			<i>Mudstone, calcareous</i>
			<i>Mudstone, dolomitic</i>
			<i>Organic rich mudstone</i>
			<i>Limestone argillaceous, dolomitic</i>
			<i>Limestone, silty</i>
			<i>Limestone, sandy</i>
			<i>Dolomitic limestone, argillaceous</i>
			<i>Dolomitic limestone, silty</i>
			<i>Dolomitic limestone, sandy</i>
			<i>Dolostone, argillaceous, calcareous</i>
			<i>Dolostone, silty</i>
			<i>Dolostone, sandy</i>
			<i>Anhydrite, argillaceous</i>

Main lithology		Secondary lithology	
			<i>Tuffaceous rock</i>
			<i>Volcanic breccia and tuff</i>
			<i>Ironstone</i>
			<i>Claystone Oolite/Pisolite (Ooze)</i>

4.1.8 Bergartsforstavelser. (Kombineres med symboler for andre bergarter f.eks. leirstein)

4.1.8 Rock prefixes (to combine with other rocks types i.e. Claystone)

	Bitumenrik. Kombineres med symboler for andre bergarter f.eks. leirstein <i>Bitumenious symbols for other rocks i.e. claystone</i>		
	Kildebergart. Kombineres med symboler for andre bergarter f.eks. leirstein <i>Source rock. Organic rich symbols for other rocks i.e. claystone</i>		
	Tuffitt (tuffholdig sediment). Kombineres med symboler for andre bergarter f.eks. leirstein <i>Tuffite. To combine with symbols for other rocks i.e. claystone</i>		
C	Karbonholdig <i>Carbonaceous</i>		
Mi	Micaceous		

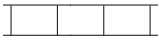
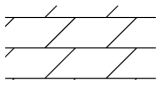
Andre aksessorier/forstavelser angis tilsvarende med norsk/engelsk bokstavforkortelse for det aktuelle mineral

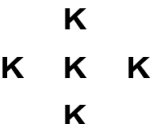
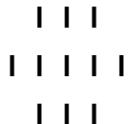
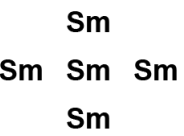
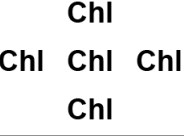
4.2 Aksessorier og bergartsforstavelser

4.2 Accessories and rock prefixes

4.2.1 Sementsymboler

4.2.1 Cement symbols

	Kalsittsment <i>Calcite cement</i>		
	Dolomitt/ankerittsment <i>Dolomite/ankerite cement</i>		
	Kvartsment <i>Quartz cement (silica)</i>		
S	Siderite cement		

	Kaolitt <i>Kaolinite</i>	Can be used to represent diverse types of clay/ claystone
	Illitt <i>Illinite</i>	
	Smektitt <i>Smectite</i>	
	Kloritt <i>Chlorite</i>	

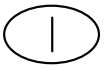
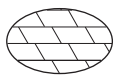
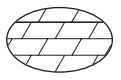
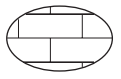
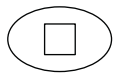
Bruk:

Når det diagenetiske mineralet også skal være hovedlitologi, er sementsymbolet en avledning av symbolet for hovedlitologien.

F.eks.: For kalsittsement brukes et utsnitt av symbolet for kalkstein. En annen hovedlitologi f.eks. sandstein, må alltid brukes som bakgrunn.

4.2.2 Konkresjoner

4.2.2 Concretions

	Concretion, undifferentiated		
	Concretion, siderite cemented		
	Concretion, dolomite cemented		
	Concretion, calcite cemented		
	Concretion, pyrite cemented		

Andre konkresjoner angis med symbol for konkresjon pluss norsk/engelsk bokstavforkortelse av det aktuelle mineral.

Other concretions are given by the symbol for concretions plus the Norwegian/English letter abbreviation of the most common mineral.

4.2.3 Ooide/Pisolitt

4.2.3 Ooid/Pisolite

	Ooide/pisolitt Ooid/pisolite		
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4.2.4 Mineraler og andre bergarter

4.2.4 Minerals and additional rock types

	Glaukonitt <i>Glaucouite</i>		
	Halittpseudomorf <i>Halite pseudomorph</i>		
	Svolvælkis <i>Pyrite</i>		

S	Sideritt <i>Siderite</i>		
▽	Kvarts <i>Quartz</i>		
M	Glimmer <i>Mica</i>		
K	Kaolinit <i>Kaolinite</i>		
L	Diagenetiske leirmineraler <i>Diagenetic clay minerals</i>		
Fe	Jernholdig mineral (f.eks. hematitt, goethitt) <i>Ferrogenous mineral (e.g. hematite, goethite)</i>		
⊗	Chamositt <i>Chamosite</i>		
P	Fosforitt <i>Phosphorite</i>		
⊖	Apatitt <i>Apatite</i>		
▲▲▲▲ ▲▲▲▲	Chert		
●■□○	Ironstone		

4.3 Primære sedimentære strukturer

4.3 Primary sedimentary structures

4.3.1 Lagdeling

4.3.1 Stratification

4.3.1.1 Homolitisk lagning/laminasjon

4.3.1.1 Homolithic bedding/lamination

		==	Planparallell lagning/laminasjon <i>Planar, parallel, horizontal bedding/lamination</i>
		- - - -	Faint horizontal parallel lamination
		==	Planar, parallell, lav vinkel lagning/laminasjon <i>Planar, parallel, low angle bedding/lamination</i>
		==	Planarparallell, høyvinklet lagning/laminasjon <i>Planar, parallel, high angle bedding/lamination</i>
		≠	Plan, ikke-parallell lagning/laminasjon <i>Planar, non-parallel bedding/lamination</i>
		≡	Konkav, parallell lagning/laminasjon <i>Concave, parallel bedding/lamination</i>

			Konkav, ikke-parallell lagning/ laminasjon <i>Concave, non-parallel bedding/ lamination</i>
			Konveks, parallell lagning/ laminasjon <i>Convex, parallel bedding/lamination</i>
			Konveks, ikke-parallell lagning/ laminasjon <i>Convex, non-parallel bedding/ lamination</i>
			Parallellbølget lagning/laminasjon <i>Wavy, parallel bedding/lamination</i>
			Bølget, ikke-parallell lagning/ laminasjon <i>Wavy, non-parallel bedding/ lamination</i>
			Normalgradering <i>Normal grading</i>
			Inversgradering <i>Inverse grading</i>
			<i>Tidal bundles</i>

4.3.1.2 Heterolitisk lagning/laminasjon 4.3.1.2 Heterolithic bedding/lamination

			<i>Fluid mud</i>
			Flaser lagning/laminasjon <i>Flaser bedding/lamination</i>
			Bølgete lagning/laminasjon <i>Wavy bedding/lamination</i>
			Linselagning/laminasjon <i>Lenticular bedding/lamination</i>
			Slamdraperinger <i>Mud drapes</i>
			Doble slamdraperinger <i>Double mud drapes</i>

4.3.1.3 Skråkiktning 4.3.1.3 Cross bedding

			Planskråsjikt <i>Planar tabular cross bedding</i>
			Kileskråsjikt <i>Wedge shaped cross bedding</i>
			Trau skråsjikt <i>Trough cross bedding</i>
			Ubestemt skråsjikt <i>Undifferentiated cross bedding</i>
			Planar, udifferensiert <i>Planar, undifferentiated</i>
			Tangensiell, udifferensiert <i>Tangential, undifferentiated</i>
			Haugskråsjikt <i>Hummocky cross bedding</i>

			<i>Herringbone cross stratification</i>
			<i>Sigmoidal</i> <i>Sigmoidal</i>
4.3.1.4 Riflelaminasjon 4.3.1.4 Ripple lamination			
			Udifferensiert <i>Undifferentiated</i>
			Bølge <i>Wave</i>
			Strøm <i>Current</i>
			Trau <i>Trough</i>
			Tabulær (planar) <i>Tabular (planar)</i>
			Kile (planar) <i>Wedge (planar)</i>
			Klatrende rifler ut av fase <i>Climbing ripples out of phase</i>
			Klatrende rifler i fase <i>Climbing ripples in phase</i>
			<i>Climbing ripple cross lamination</i>
			<i>Bidirectional current ripple cross lamination</i>
			<i>Current ripple cross lamination with mudrapes on foresets</i>
			Fiskebeinsrifler <i>Herringbone ripples</i>
Cross stratification			
			<i>Low angle cross stratification</i>
			<i>Faint low angle cross stratification</i>
			<i>Tabular cross stratification</i>
			<i>Faint tabular cross stratification</i>
			<i>Sigmoidal cross stratification</i>
			<i>Faint sigmoidal cross stratification</i>
			<i>Tagential cross stratification</i>
			<i>Faint tagential cross stratification</i>
			<i>Trough cross stratification</i>
			<i>Faint trough cross stratification</i>
			<i>Undifferentiated cross stratification</i>
			<i>Bottomsets</i>

			<i>Cross stratification with mud drapes</i>
			<i>Cross stratification with opposing current ripples</i>
			<i>Faint undifferentiated cross stratification</i>
			<i>Hummocky cross stratification</i>
			<i>Swaley cross stratification</i>

4.3.2 Grenser mellom enheter

4.3.2 Boundaries between units

	Skarp grense <i>Sharp contact</i>		
	Usikker grense <i>Indistinct contact</i>		
	Gradvis grense <i>Transitional contact</i>		
	Undulerende grense <i>Undulating contact</i>		
	Stylottisk grense <i>Stylolitic contact</i>		
	Erosjonsgrense <i>Erosive contact</i>		
	<i>Erosive surface</i>		
	<i>Set boundary</i>		

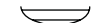
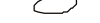
4.3.3 Sålemerkeavstøpninger

4.3.3 Sole casts

	Innsynkningsavstøpning <i>Load cast</i>		
	Strømningsmerkeavstøpning <i>Flute cast</i>		
	Skrapemerkeavstøpning <i>Groove cast</i>		

4.3.4 Diverse sedimentære strukturer

4.3.4 Miscellaneous sedimentary structures

	Massiv struktur <i>Massive structure</i>		
	Erosjonsfylling <i>Scour and fill</i>		
	<i>Structureless, massive</i>		
	<i>Structureless, homogenised</i>		
	<i>Intraformational clast</i>		
	<i>Mud clast</i>		
	<i>Pebble</i>		
	<i>Imbrication</i>		

4.4 Sekundære sedimentære strukturer

4.4 Secondary sedimentary structures

4.4.1 Deformasjonsstrukturer (uorganiske)

4.4.1 Deformation structures (inorganic)

	Bløtavsetningsdeformasjon uddifferensiert <i>Soft sediment deformation undifferentiated</i>		
	Utsklidd lag <i>Slumped strata</i>		
	Storskala utsklidd lag <i>Mega slump strata</i>		
	Overblikkende lag <i>Oversteepened strata</i>		
	Deformerte kryssjikt <i>Deformed cross stratification</i>		
	Innfoldningsstruktur <i>Convolute strata</i>		
	Innsynkningsstruktur <i>Load structure</i>		
	Avsnørt innsynkningsstruktur <i>Ball and pillow</i>		
	Tørkesprekk <i>Desiccation crack</i>		
	Syneresisprekk <i>Syneresis crack</i>		
	<i>Undifferentiated mud crack</i>		
	Disk <i>Dish</i>		
	<i>Dish and pillar</i>		
	Vannfluktstruktur <i>Water escape pipes</i>		
	<i>Sheet dewatering</i>		
	Flamme <i>Flame</i>		
	Sandsteinsill <i>Sandstone sill</i>		
	Sandsteinsdyke <i>Sandstone dyke</i>		
	<i>Tool mark</i>		

4.4.2 Tektoniske strukturer*

4.4.2 Tectonic structures

	<i>Syn sedimentary fault</i>		
	Generell forkastning <i>Fault</i>		
	Mikroforkastning <i>Microfault</i>		
	Sprekk <i>Fracture</i>		

	Åre (+type) f.eks. Q:kvarts Vein (+qualifier) e.g. Q:quartz		
	Glidestriper Slickensides		
* Se også symboler for geologiske og geofysiske kart			
4.4.3 Diagenetiske strukturer			
4.4.3 Diagenetic structures			
	Løsningsbreksje Collapse, solution breccia		
	Skorpekalk Calcrete		
	Kjegle i kjeglestruktur Cone in cone		
	Stylolitter Stylolites		
	Oppløsningshulrom Solution vug		
	Fugleøyestruktur Birdseye structure		
	Høsenettingstruktur Chicken wire structure		
4.4.4 Organiske strukturer			
4.4.4 Biogenic structures			
	Svakt bioturbert Weakly bioturbated		
	Moderat bioturbert Moderately bioturbated		
	Sterkt bioturbert Strongly bioturbated		
	Vertikalt gravespor Vertical burrow		
	Skrått gravespor Inclined burrow		
	Horisontalt gravespor Horizontal burrow		
	Fluktspor Escape burrow		
	Algemattestruktur Algal mat structure		
	Borestruktur Boring structure		
	Rotstruktur Root tube structure		
	Lag med rotstruktur Rooted bed structure		

4.5 Fossiler

4.5 Fossils

		<i>Coated grains</i>
		<i>Pellets</i>
		<i>Faecal pellets, coprolite</i>
		<i>Pisoids</i>
		<i>Peloids</i>
		<i>Bioclasts</i>
		<i>Microcodium</i>
		<i>Oncoids</i>
	Alger	<i>Algae</i>
	Alger, grønne	<i>Algae, green</i>
	Alger, røde	<i>Algae, red</i>
		<i>Algae, encrusting</i>
		<i>Phylloid, algae</i>
		<i>Girvanella</i>
		<i>Tubiphytes</i>
	Sporomorfer	<i>Calcsphere /Sporomorphs</i>
	Kransalger	<i>Charophytes</i>
	Koraller	<i>Corals, solitary</i>
		<i>Corals, colonial</i>
	Stromatoporider	<i>Stromatoporoids</i>
		<i>Palaeoaplysina</i>
	Armføttinger	<i>Brachiopods</i>
	Muslinger	<i>Bivalves</i>
		<i>Bivalves, prismatic</i>
		<i>Rudists</i>
	Snegler	<i>Gastropods</i>
	Ammonitter	<i>Ammonites</i>
	Belemnitter	<i>Belemnites</i>

		<i>Echinoderms</i>
	Sjøliljer	<i>Crinoids</i>
		<i>Bryozoans</i>
	Trilobitter	<i>Trilobites</i>
	Skjoldkreps	<i>Ostracods</i>
	Foraminifer	<i>Foraminifera, undifferentiated</i>
		<i>Foraminifera, planktonic</i>
		<i>Foraminifera, agglutinated</i>
		<i>Foraminifera, benthonic</i>
		<i>Foraminifera, encrusting</i>
		<i>Foraminifera, fusulinids</i>
		<i>Foraminifera, Orbitolina</i>
	Foraminifer	<i>Foraminifera</i>
	Foraminifer store	<i>Foraminifera large</i>
	Foraminifer små, bentoniske	<i>Foraminifera small, benthonic</i>
		<i>Sponges</i>
		<i>Sponge spicules</i>
	Fiskerester	<i>Fish remains</i>
		<i>Macrofossils, undifferentiated</i>
		<i>Microfossils, undifferentiated</i>
	Skjellag	<i>Shell bed</i>
	Vertebrater	<i>Vertebrates</i>
	Graptolitter	<i>Graptolites</i>
	Konodonte	<i>Conodonts</i>
	Marine mikroplankton	<i>Marine microplankton</i>
		<i>Diatoms</i>
		<i>Dinoflagellates</i>
		<i>Radiolaria</i>
		<i>Algal cysts</i>
		<i>Plant remains</i>
		<i>Wood fragments</i>
		<i>Plant debris</i>
		<i>Shell</i>

		<i>Shell fragments</i>
	Makrofossilfragmenter	<i>Macrofossil fragments</i>
	Mosedyr	<i>Bryozoa</i>
	Sjøpinnsvin	<i>Echinoids</i>
	Fiskeskjell	<i>Fish scales</i>
	Nåler	<i>Spicules</i>
	Stammer, grener	<i>Stems, twigs</i>
	Løv, blader	<i>Leaves</i>
	Marine mikrop plankton	<i>Marine microplankton</i>
	Arenicolites	<i>Arenicolites</i>
	Asterosoma	<i>Asterosoma</i>
	Chondrites	<i>Chondrites</i>
	Diplocraterion	<i>Diplocraterion</i>

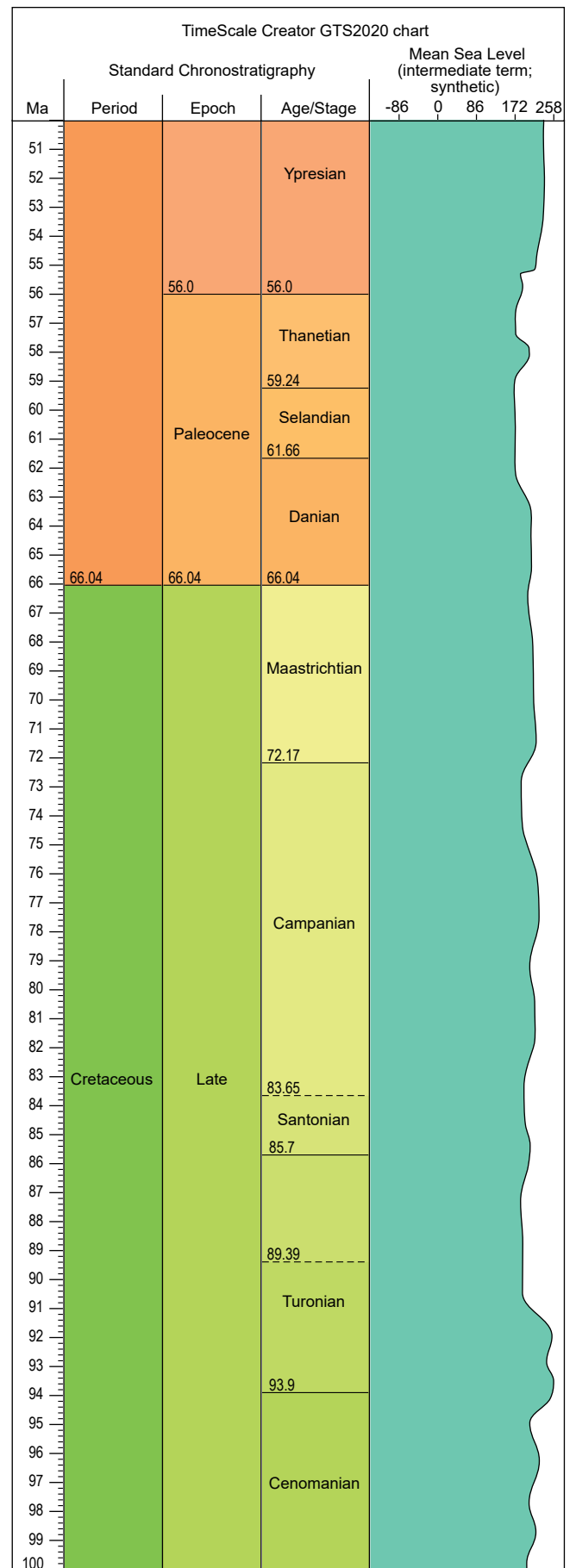
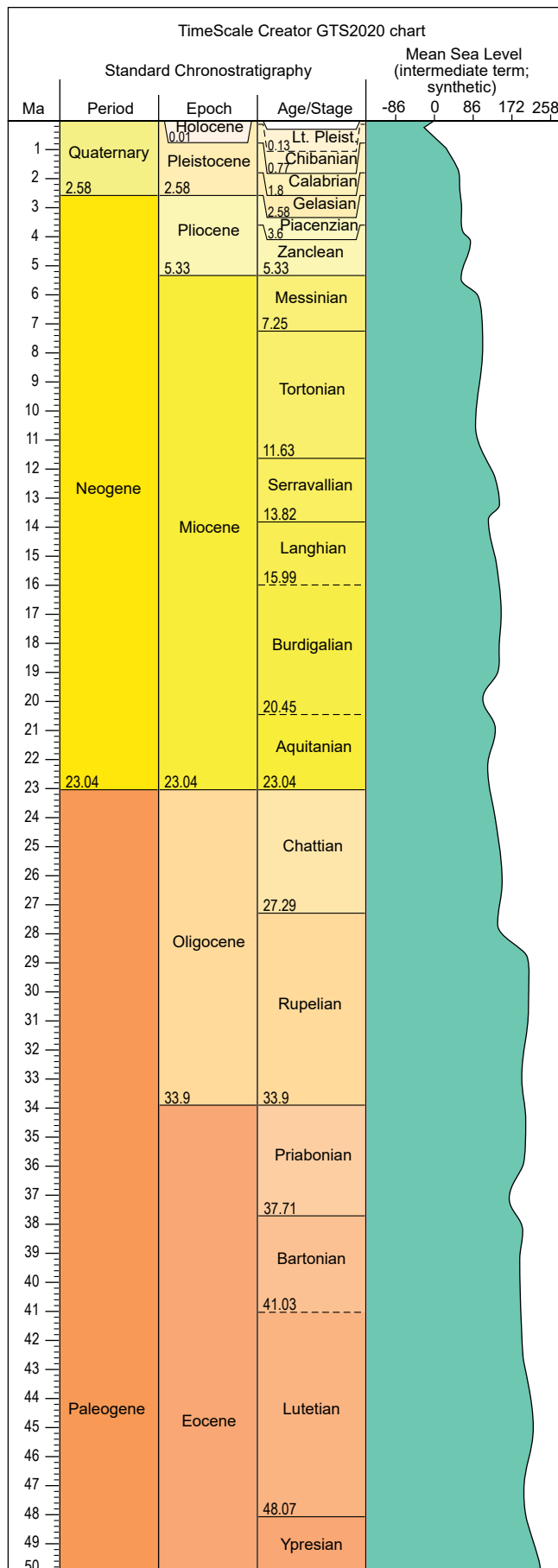
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Kronostratigrafi/ Chronostratigraphy

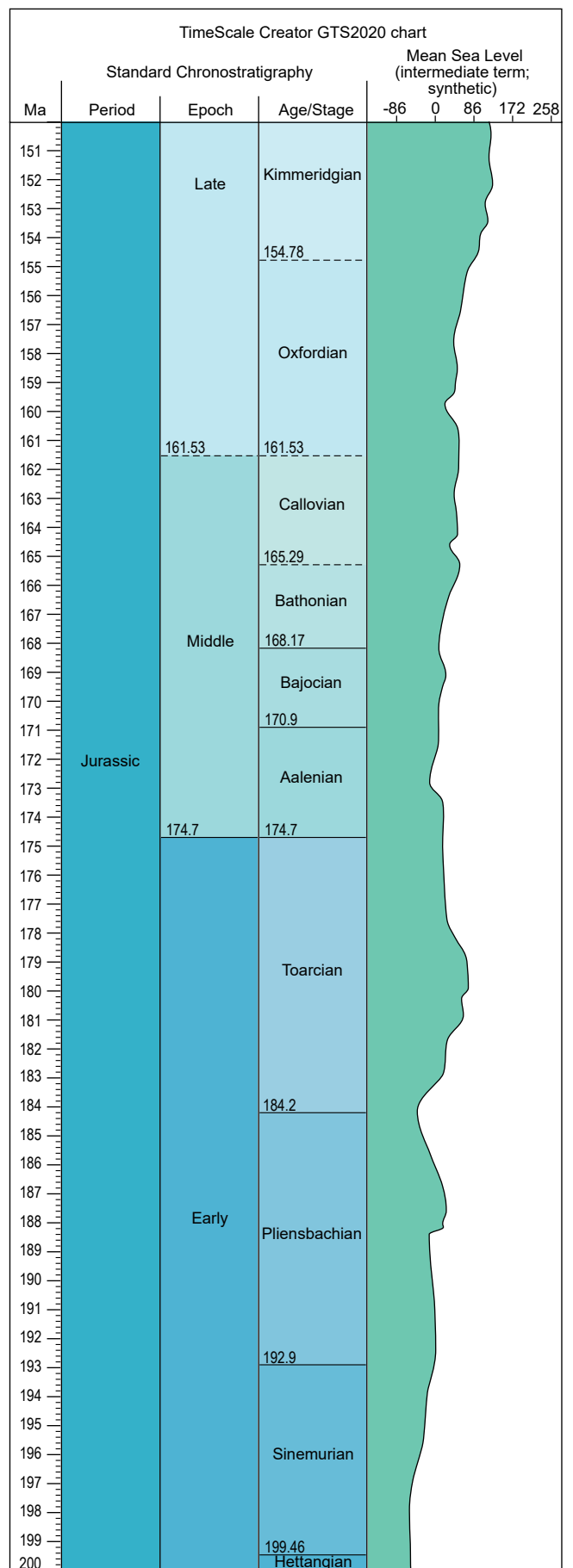
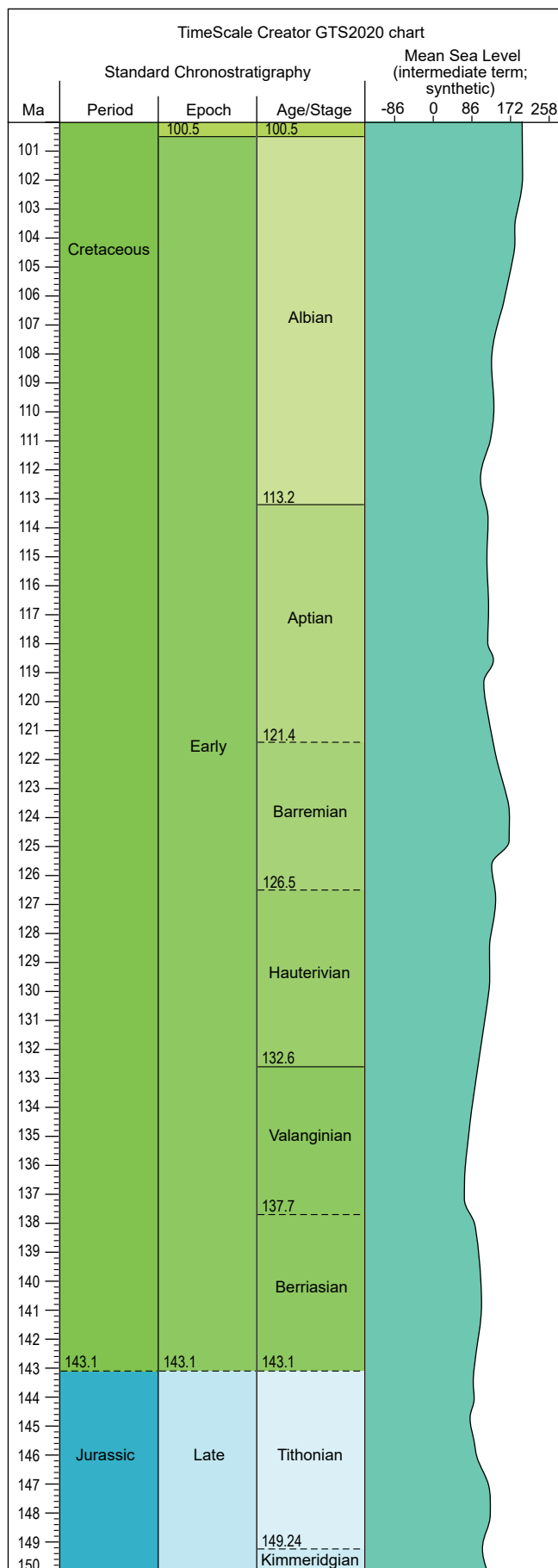
Items in chapter 5 are available as style-files for ArcGIS



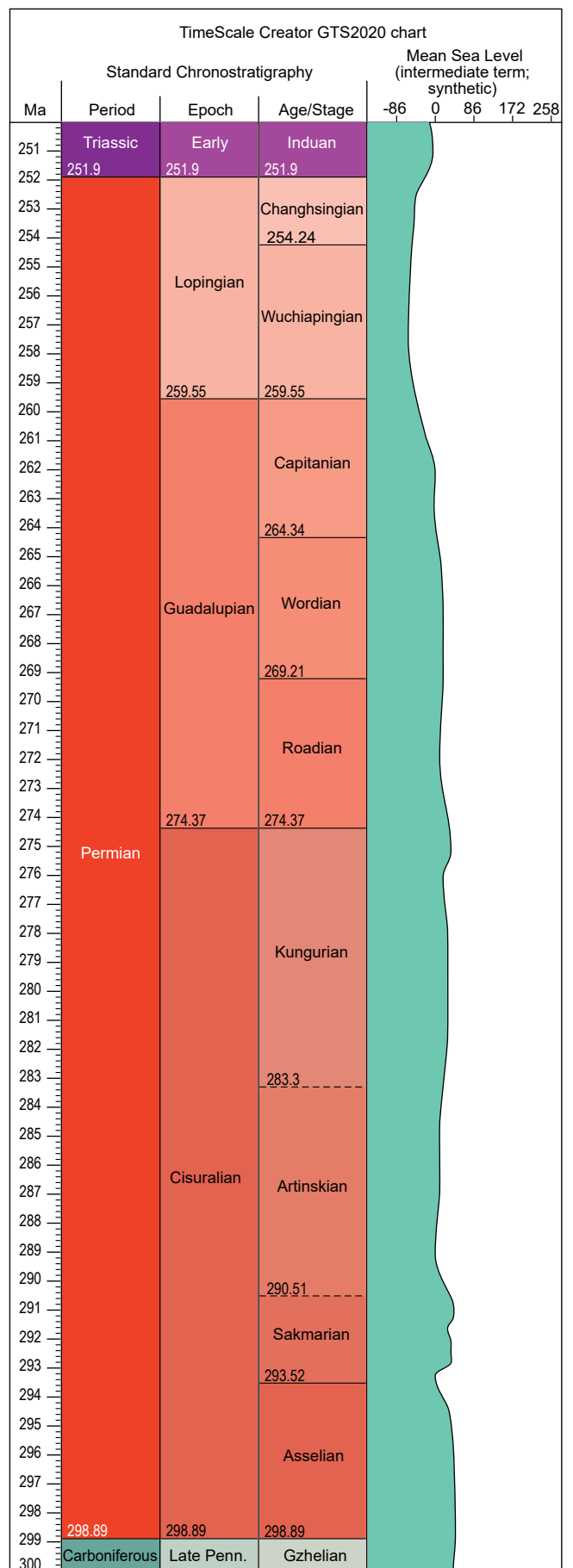
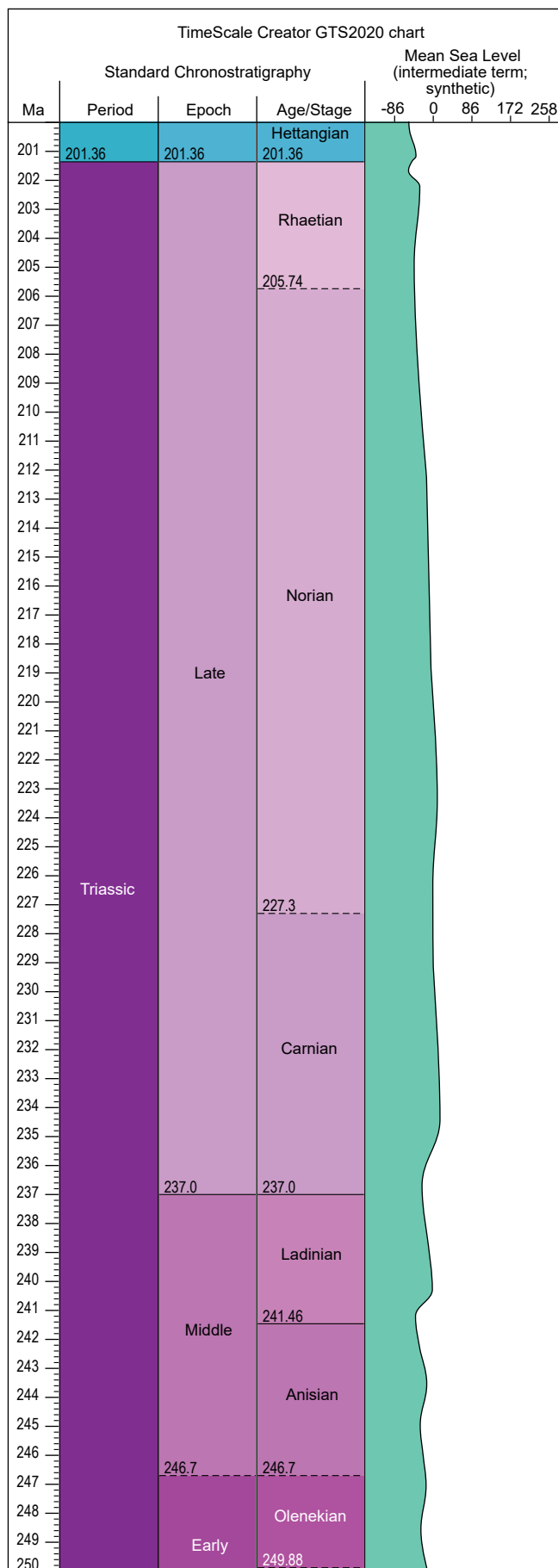
5.1 Standard Chronostratigraphy - Phanerozoic Sealevel Synthesis



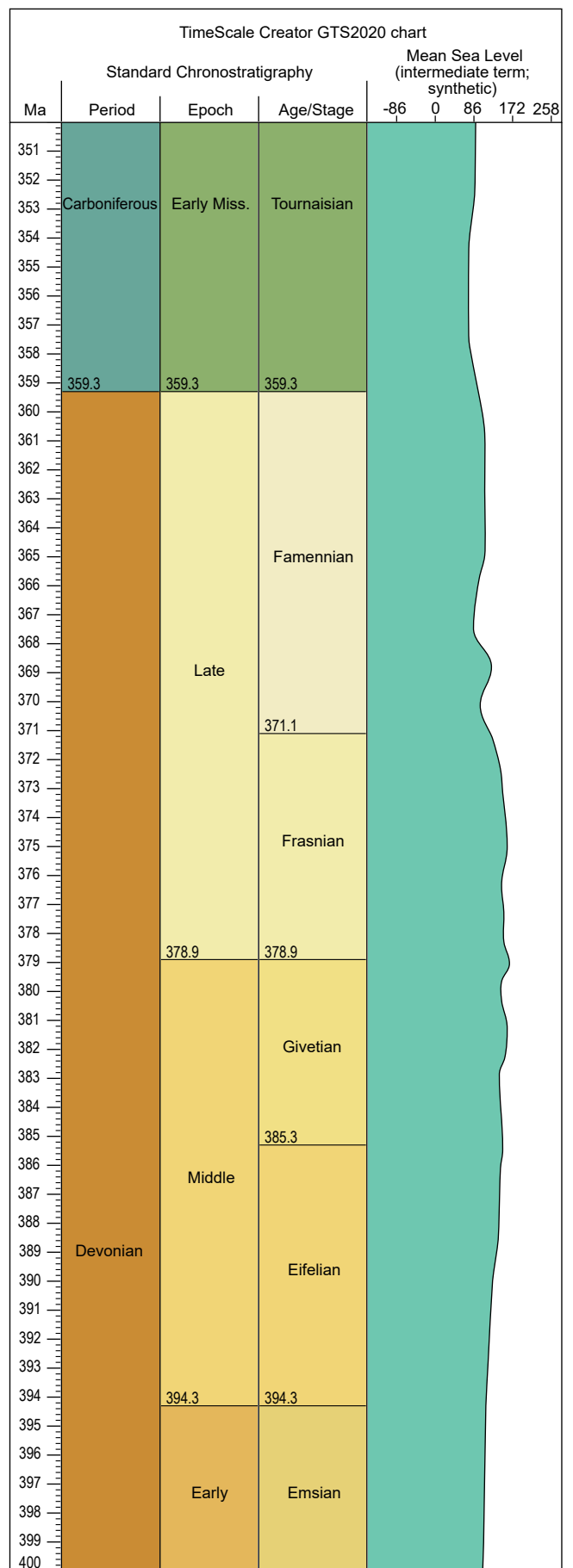
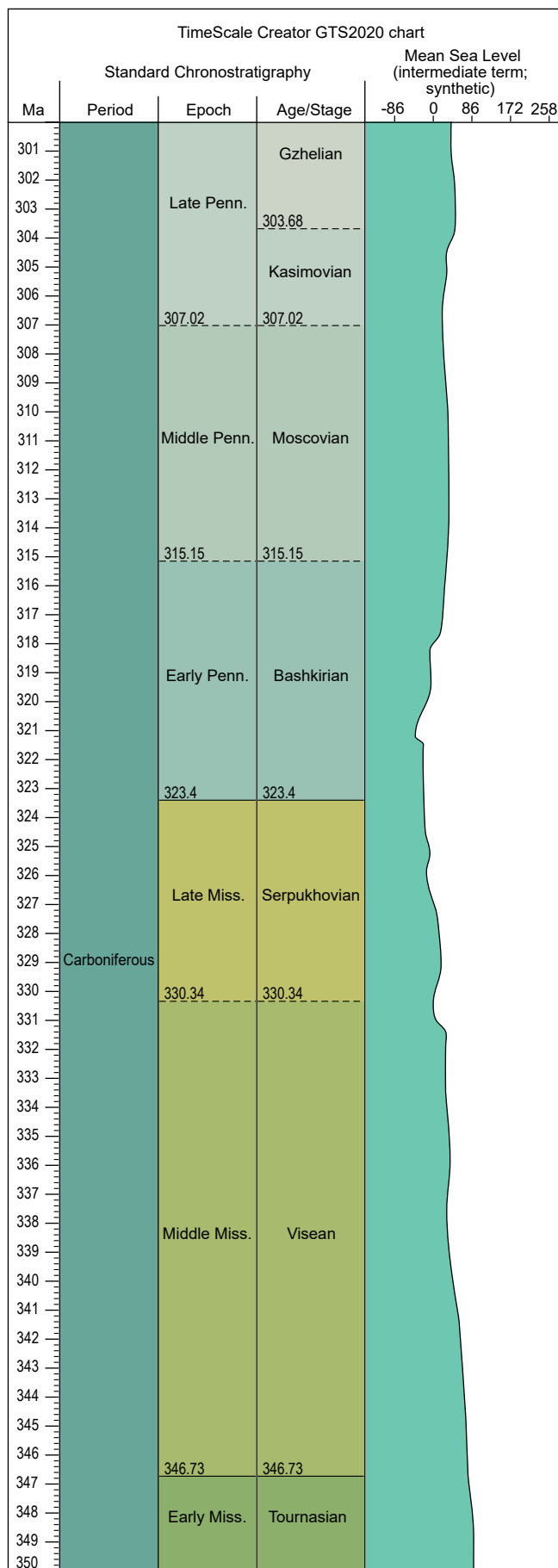
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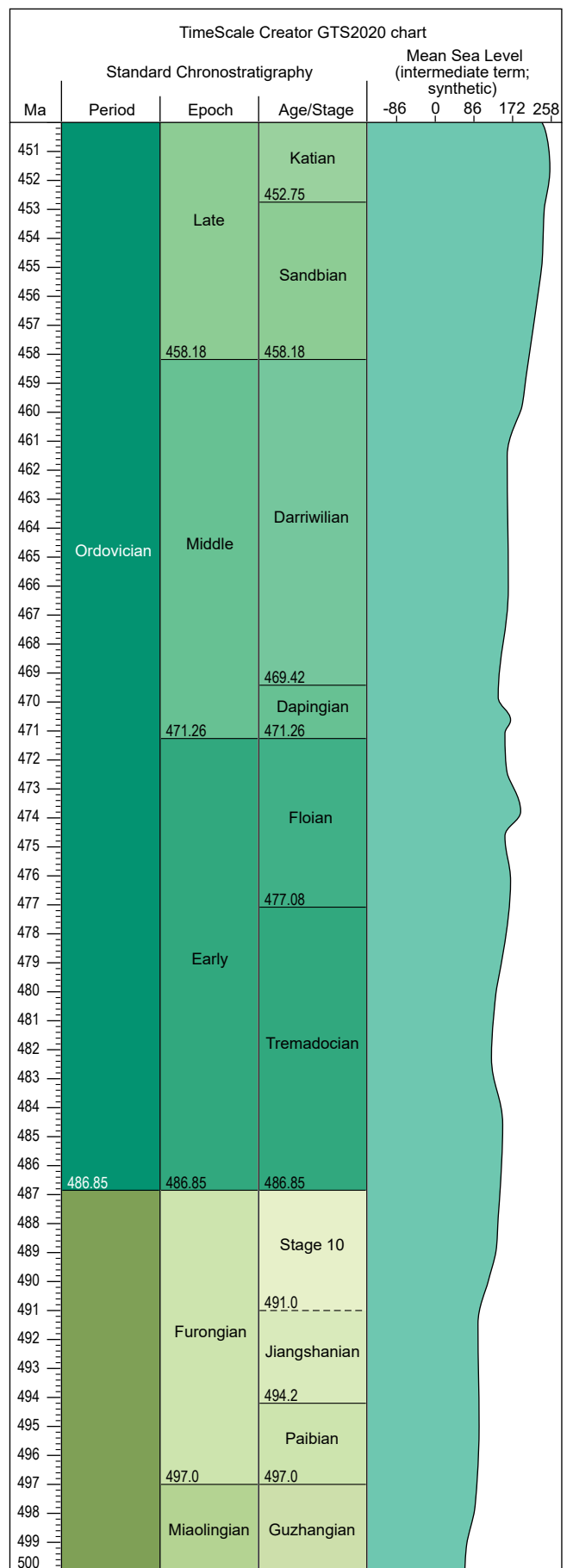
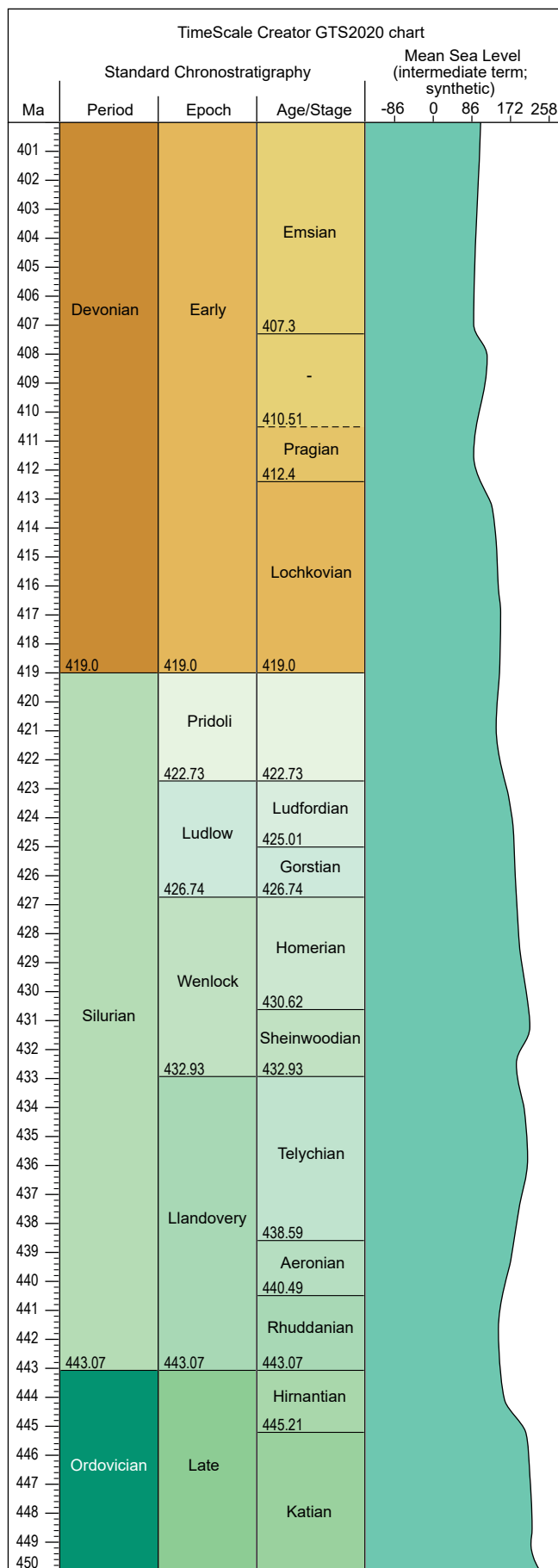
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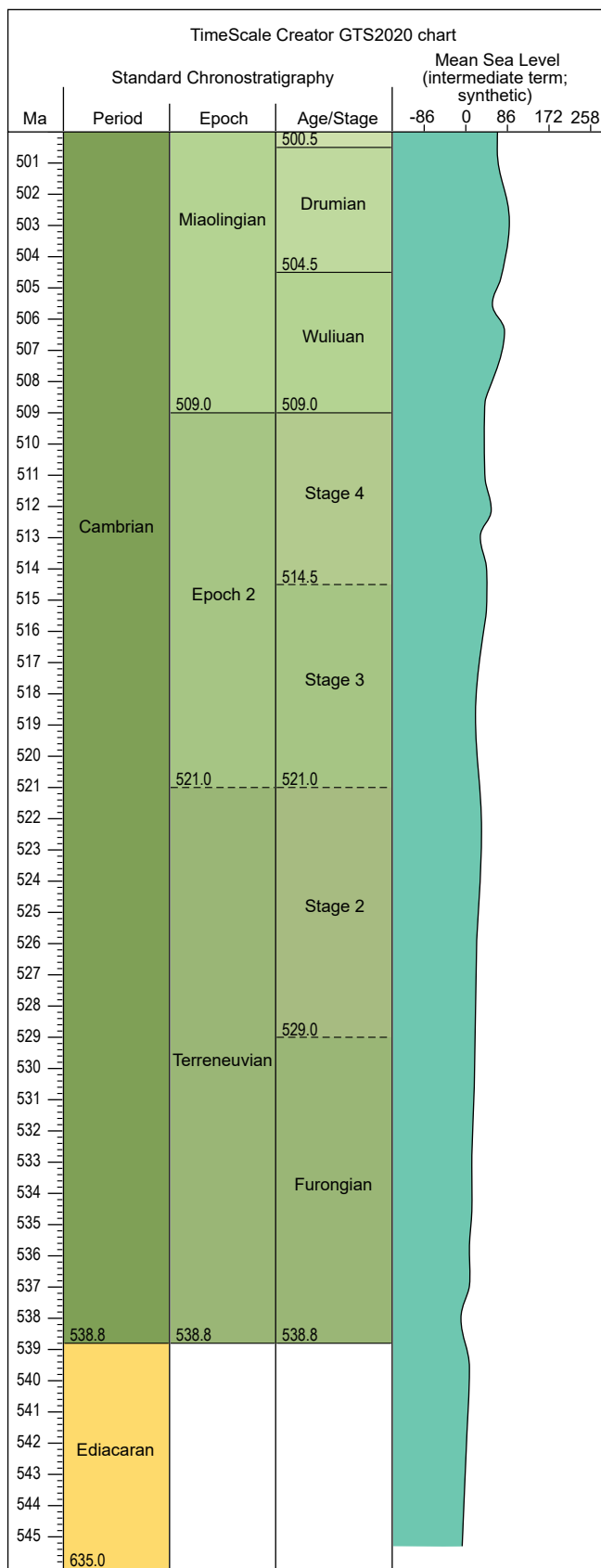
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INTERNATIONAL CHRONOSTRATIGRAPHIC CHART

International Commission on Stratigraphy

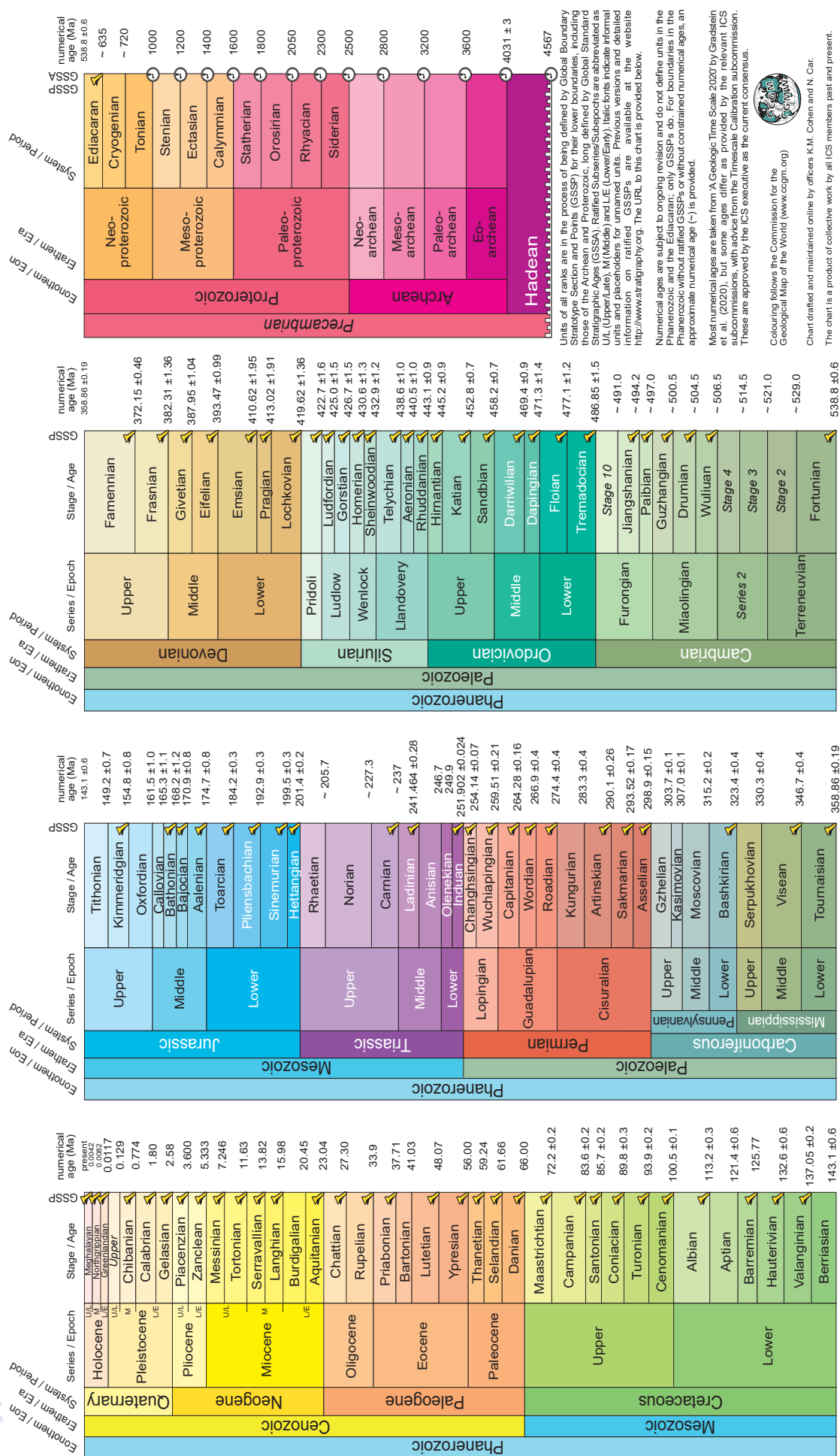
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Colouring follows the Commission for the

Chart drafted and maintained online by officers K.M. Cohen and N. Car.

The chart is a product of collective work by all ICS members past and present.

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URL: <http://www.stratigraphy.org/ICSchart/ChronostratChart2024-12.pdf>

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5.2 Geological time scale

Ref. Commission for the Geological Map of the World

Eonotem/Eon <i>Eonothem/Eon</i>	Eratem/Æra <i>Erathem/Era</i>	System/Periode <i>System/Period</i>	Serie/Epoke <i>Series/Epoch</i>	Etasje/Alder <i>Stage/Age</i>
Fanerozoikum Phanerozoic CMYK: 40/0/5/0, RGB: 154/217/221 HTML: 9ad9dd	Kenozoikum Cenozoic CMYK: 11/0/93/0, RGB: 242/249/29 HTML: f2f91d	Kvartær Quaternary CMYK: 0/0/50/0, RGB: 249/249/127 HTML: f9f9f	Holocen Holocene CMYK: 0/10/20/0, RGB: 254/235/210 HTML: feebd2	Megalaya Meghalayan CMYK: 0/10/5/0 RGB: 253/237/236 HTML: fdedec
				Northgrip Northgrippian CMYK: 0/10/10/0 RGB: 253/236/228 HTML: fdece4
				Gronland Greenlandian CMYK: 0/10/15/0 RGB: 254/236/219 HTML: feecdb
			Pleistocen Pleistocene CMYK: 0/5/40/0, RGB: 255/239/175 HTML: ffefaf	Øvre Upper CMYK: 0/5/15/0, RGB: 255/242/211 HTML: fff2d3
				Chiba Chibanian CMYK: 0/5/20/0, RGB: 255/242/199 HTML: fff2c7
				Calabria Calabrian CMYK: 0/5/25/0, RGB: 255/242/186 HTML: fff2ba
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Eonotem/Eon <i>Eonothem/Eon</i>	Eratem/Æra <i>Erathem/Era</i>	System/Periode <i>System/Period</i>	Serie/Epoke <i>Series/Epoch</i>	Etasje/Alder <i>Stage/Age</i>	
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				Zancle <i>Zanclean</i> CMYK: 0/0/30/0, RGB: 255/255/179 HTML: ffff93	Zan
			Miocen <i>Miocene</i> CMYK: 0/0/100/0, RGB: 255/255/0 HTML: ffff00	Messina <i>Messinian</i> CMYK: 0/0/55/0, RGB: 255/255/115 HTML: ffff73	Mes
				Tortona <i>Tortonian</i> CMYK: 0/0/60/0, RGB: 255/255/102 HTML: ffff66	Tor
				Serravalle <i>Serravallian</i> CMYK: 0/0/65/0, RGB: 255/255/89 HTML: ffff59	Srv
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Eonotem/Eon <i>Eonothem/Eon</i>	Eratem/Æra <i>Erathem/Era</i>	System/Periode <i>System/Period</i>	Serie/Epoke <i>Series/Epoch</i>	Etasje/Alder <i>Stage/Age</i>
Fanerozoikum <i>Phanerozoic</i> CMYK: 40/0/5/0, RGB: 154/217/221 HTML: 9ad9dd	Kenozoikum <i>Cenozoic</i> CMYK: 11/0/93/0, RGB: 242/249/29 HTML: f2f91d	Paleogen <i>Paleogene</i> CMYK: 5/0/90/0, RGB: 253/154/82 HTML: fd9a52	Oligocen <i>Oligocene</i> CMYK: 0/25/45/0, RGB: 254/192/122 HTML: fec07a	Chatt <i>Chattian</i> CMYK: 0/10/30/0, RGB: 254/230/170 HTML: fee6aa
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			Eocen <i>Eocene</i> CMYK: 0/30/50/0, RGB: 253/180/108 HTML: fdb46c	Priabona <i>Priabonian</i> CMYK: 0/20/30/0, RGB: 253/205/161 HTML: fdcda1
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				Ypres <i>Ypresian</i> CMYK: 0/35/45/0, RGB: 252/167/115 HTML: fca773
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							Aalen <i>Aalenian</i> CMYK: 40/0/5/0 RGB: 154/217/221 HTML: 9ad9dd	Aal	
						Undre <i>Lower</i> CMYK: 75/5/0/0 RGB: 66/174/208 HTML: 42aed0	J1	Toarc <i>Toarcian</i> CMYK: 40/0/5/0, RGB: 153/206/227 HTML: 99cee3	Toa
							Pliensbach <i>Pliensbachian</i> CMYK: 50/5/0/0 RGB: 128/197/221 HTML: 80c5dd	Plb	
							Sinemur <i>Sinemurian</i> CMYK: 60/5/0/0 RGB: 103/188/216 HTML: 67bcd8	Sin	
							Hettang <i>Hettangian</i> CMYK: 70/5/0/0 RGB: 78/179/211 HTML: 4eb3d3	Het	

Eonotem/Eon <i>Eonothem/Eon</i>	Eratem/Æra <i>Erathem/Era</i>	System/Periode <i>System/Period</i>	Serie/Epoke <i>Series/Epoch</i>	Etasje/Alder <i>Stage/Age</i>				
Fanerozoikum <i>Phanerozoic</i> CMYK: 40/0/5/0, RGB: 154/217/221 HTML: 9ad9dd	Mesozoikum <i>Mesozoic</i> CMYK: 60/0/10/0 RGB: 103/197/202 HTML: 67c5ca	Mz	Trias <i>Triassic</i> CMYK: 50/80/0/0 RGB: 129/43/146 HTML: 812b92	Tr	Øvre <i>Upper</i> CMYK: 25/40/0/0 RGB: 189/140/195 HTML: bd8cc3	Tr3	Ræt <i>Rhaetian</i> CMYK: 10/25/0/0 RGB: 227/185/219 HTML: e3b9db	Rht
					Nor <i>Norian</i> CMYK: 15/30/0/0 RGB: 214/170/211 HTML: d6aad3	Nor		
					Karn <i>Carnian</i> CMYK: 20/35/0/0 RGB: 201/155/203 HTML: c99bcb	Crn		
			Midtre <i>Middle</i> CMYK: 30/55/0/0 RGB: 177/104/177 HTML: b168b1	Tr2	Ladin <i>Ladinian</i> CMYK: 20/45/0/0 RGB: 201/131/191 HTML: c983bf	Lad		
				Anis <i>Anisian</i> CMYK: 25/50/0/0 RGB: 188/117/183 HTML: bc75b7	Ans			
			Undre <i>Lower</i> CMYK: 40/75/0/0 RGB: 152/57/153 HTML: 983993	Tr3	Olenek <i>Olenekian</i> CMYK: 30/65/0/0 RGB: 176/81/165 HTML: b051a5	Ole		
				Indus <i>Induan</i> CMYK: 35/70/0/0 RGB: 164/70/159 HTML: a4469f	Ind			

Eonotem/Eon <i>Eonothem/Eon</i>	Eratem/Æra <i>Erathem/Era</i>	System/Periode <i>System/Period</i>	Serie/Epoke <i>Series/Epoch</i>	Etasje/Alder <i>Stage/Age</i>
Fanerozoikum <i>Phanerozoic</i> CMYK: 40/0/5/0, RGB: 154/217/221 HTML: 9ad9dd	Paleozoikum <i>Paleozoic</i> CMYK: 40/10/40/0 RGB: 153/192/141 HTML: 99c08d	Perm <i>Permian</i> CMYK: 5/75/75/0 RGB: 240/64/40 HTML: f04028	Loping <i>Lopingian</i> CMYK: 0/35/30/0 RGB: 251/167/148 HTML: fba794	Changxing <i>Changhsingian</i> CMYK: 0/25/20/0 RGB: 252/192/178 HTML: fcc0b2
				Wujiaping <i>Wuchiapingian</i> CMYK: 0/30/25/0 RGB: 252/180/162 HTML: fcb4a2
			Guadalup <i>Guadalupian</i> CMYK: 0/55/50/0 RGB: 251/116/92 HTML: fb745c	Capitan <i>Capitanian</i> CMYK: 0/40/35/0 RGB: 251/154/133 HTML: fb9a85
				Word <i>Wordian</i> CMYK: 0/45/40/0 RGB: 251/141/118 HTML: fb8d76
				Road <i>Roadian</i> CMYK: 0/50/45/0 RGB: 251/128/105 HTML: fb8069
			Cisural <i>Cisuralian</i> CMYK: 5/65/60/0 RGB: 239/88/69 HTML: ef5845	Kungur <i>Kungurian</i> CMYK: 10/45/40/0 RGB: 227/135/118 HTML: e38776
				Artinsk <i>Artinskian</i> CMYK: 10/50/45/0 RGB: 227/123/104 HTML: e37b68
				Sakmara <i>Sakmarian</i> CMYK: 10/55/50/0 RGB: 227/111/92 HTML: e36f5c
				Assel <i>Asselian</i> CMYK: 10/60/55/0 RGB: 227/99/80 HTML: e36350

Eonotem/Eon <i>Eonothem/Eon</i>	Eratem/Æra <i>Erathem/Era</i>	System/Periode <i>System/Period</i>	Serie/Epoke <i>Series/Epoch</i>	Etasje/Alder <i>Stage/Age</i>						
Fanerozoikum <i>Phanerozoic</i> CMYK: 40/0/5/0, RGB: 154/217/221 HTML: 9ad9dd	Paleozoikum <i>Paleozoic</i> CMYK: 40/10/40/0 RGB: 153/192/141 HTML: 99c08d	Pz	Pen Pennsylvania / Pennsylvanian CMYK: 50/10/20/0 RGB: 126/188/198 HTML: 7ebcc6	Øvre <i>Upper</i> CMYK: 25/10/20/0 RGB: 191/208/186 HTML: bfd0ba	Gzhel <i>Gzhelian</i> CMYK: 20/10/15/0 RGB: 204/212/199 HTML: ccd4c7	Gze				
				Kasimov <i>Kasimovian</i> CMYK: 25/10/15/0 RGB: 191/208/197 HTML: bfd0c5	Kas					
				Midtre <i>Middle</i> CMYK: 35/10/30/0 RGB: 166/199/183 HTML: a6c7b7	Moskva <i>Moscovian</i> CMYK: 30/10/20/0 RGB: 179/203/185 HTML: b3cbb9	Mos				
				Undre <i>Lower</i> CMYK: 45/10/20/0 RGB: 140/190/180 HTML: 8cbeb4	Basjkir <i>Bashkirian</i> CMYK: 40/10/20/0 RGB: 153/194/181 HTML: 99c2b5	Bsh				
				C	Mis Mississippi / Mississippian CMYK: 60/25/55/0 RGB: 103/143/102 HTML: 678f66	Øvre <i>Upper</i> CMYK: 30/15/55/0 RGB: 179/190/108 HTML: b3be6c	Serphukhov <i>Serpukhovian</i> CMYK: 25/15/55/0 RGB: 191/194/107 HTML: bfc26b	Spk		
						Midtre <i>Middle</i> CMYK: 40/15/55/0 RGB: 153/180/108 HTML: 99b46c	Visé <i>Visean</i> CMYK: 35/15/55/0 RGB: 166/185/108 HTML: a6b96c	Vis		
						Undre <i>Lower</i> CMYK: 50/15/55/0 RGB: 128/171/108 HTML: 80ab6c	Tournai <i>Tournaisian</i> CMYK: 45/15/55/0 RGB: 140/176/108 HTML: 8cb06c	Tou		
						Devon <i>Devonian</i> CMYK: 20/40/75/0 RGB: 203/140/55 HTML: cb8c37	D3	Øvre <i>Upper</i> CMYK: 5/10/35/0 RGB: 241/225/157 HTML: f1e19d	Famenn <i>Famennian</i> CMYK: 5/5/20/0 RGB: 242/237/179 HTML: f2edb3	Fam
								Midtre <i>Middle</i> CMYK: 5/20/55/0 RGB: 241/200/104 HTML: f1c868	Frasne <i>Frasnian</i> CMYK: 5/5/30/0 RGB: 242/237/173 HTML: f2edad	Frs
		Undre <i>Lower</i> CMYK: 10/30/65/0 RGB: 229/172/77 HTML: e5ac4d	D1					Givet <i>Givetian</i> CMYK: 5/10/45/0 RGB: 241/225/133 HTML: f1e185	Giv	
				Eifel <i>Eifelian</i> CMYK: 5/15/50/0 RGB: 241/213/118 HTML: f1d576	Eif					
				Ems <i>Emsian</i> CMYK: 10/15/50/0 RGB: 229/208/117 HTML: e5d075	Ems					
		Praha <i>Pragian</i> CMYK: 10/20/55/0 RGB: 229/196/104 HTML: e5c46b	Pra	Lochkov <i>Lochkovian</i> CMYK: 10/25/60/0 RGB: 229/183/90 HTML: e5b75a	Loc					

Eonotem/Eon <i>Eonothem/Eon</i>	Eratem/Æra <i>Erathem/Era</i>	System/Periode <i>System/Period</i>	Serie/Epoke <i>Series/Epoch</i>	Etasje/Alder <i>Stage/Age</i>
Fanerozoikum <i>Phanerozoic</i> CMYK: 40/0/5/0, RGB: 154/217/221 HTML: 9ad9dd	Paleozoikum <i>Paleozoic</i> CMYK: 40/10/40/0 RGB: 153/192/141 HTML: 99c08d	Pz Silur <i>Silurian</i> CMYK: 30/0/25/0 RGB: 179/225/182 HTML: b3e1b6	Pridoli <i>Pridoli</i> CMYK: 10/0/10/0 RGB: 230/245/225 HTML: e6f5e1	CMYK: 10/0/10/0 RGB: 230/245/225 HTML: e6f5e1
			Ludlow <i>Ludlow</i> CMYK: 25/0/15/0 RGB: 191/230/207 HTML: bfe6cf	Ludford <i>Ludfordian</i> CMYK: 15/0/10/0 RGB: 217/240/223 HTML: d9f0df
				Gorsty <i>Gorstian</i> CMYK: 20/0/10/0 RGB: 204/236/221 HTML: ccecdd
			Wenlock <i>Wenlock</i> CMYK: 30/0/20/0 RGB: 179/225/194 HTML: b3e1c2	Homer <i>Homerian</i> CMYK: 20/0/15/0 RGB: 204/235/209 HTML: ccebd1
				Sheinwood <i>Sheinwoodian</i> CMYK: 25/0/20/0 RGB: 191/230/195 HTML: bfe6c3
			Llandovery <i>Llandovery</i> CMYK: 40/0/25/0 RGB: 153/215/179 HTML: 99d7b3	Telych <i>Telychian</i> CMYK: 25/0/15/0 RGB: 191/230/207 HTML: bfe6cf
				Aeron <i>Aeronian</i> CMYK: 30/0/20/0 RGB: 179/225/194 HTML: b3e1c2
				Rhuddan <i>Rhuddanian</i> CMYK: 35/0/25/0 RGB: 166/220/181 HTML: a6dcb5
		Ordovicium <i>Ordovician</i> CMYK: 100/0/60/0 RGB: 0/146/112 HTML: 009270	Øvre <i>Upper</i> CMYK: 50/0/40/0 RGB: 127/202/147 HTML: 7fca93	Hirnant <i>Hirnantian</i> CMYK: 35/0/30/0 RGB: 166/219/171 HTML: a6dbab
				Katy <i>Katian</i> CMYK: 40/0/35/0 RGB: 153/214/159 HTML: 99d69f
				Sandby <i>Sandbian</i> CMYK: 45/0/40/0 RGB: 140/208/148 HTML: 8cd094
			Midtre <i>Middle</i> CMYK: 70/0/50/0 RGB: 77/180/126 HTML: 4db47e	Darriwil <i>Darriwilian</i> CMYK: 55/0/35/0 RGB: 116/198/156 HTML: 74c69c
				Daping <i>Dapingian</i> CMYK: 60/0/40/0 RGB: 102/192/146 HTML: 66c092
			Undre <i>Lower</i> CMYK: 90/0/60/0 RGB: 26/157/111 HTML: 1a9d6f	Flo <i>Floian</i> CMYK: 75/0/45/0 RGB: 65/176/135 HTML: 41b087
				Tremadoc <i>Tremadocian</i> CMYK: 80/0/50/0 RGB: 51/169/126 HTML: 33a97e

Eonotem/Eon <i>Eonothem/Eon</i>	Eratem/Æra <i>Erathem/Era</i>	System/Periode <i>System/Period</i>	Serie/Epoke <i>Series/Epoch</i>	Etasje/Alder <i>Stage/Age</i>
Fanerozoikum <i>Phanerozoic</i> CMYK: 40/0/5/0, RGB: 154/217/221 HTML: 9ad9dd	Paleozoikum <i>Paleozoic</i> CMYK: 40/10/40/0 RGB: 153/192/141 HTML: 99c08d	Pz Kambrium <i>Cambrian</i> CMYK: 50/20/65/0 RGB: 127/160/86 HTML: 7fa056	E Furong <i>Furongian</i> CMYK: 30/0/40/0 RGB: 179/224/149 HTML: b3e095	Etasje 10 <i>Stage 10</i> CMYK: 10/0/20/0 RGB: 230/245/201 HTML: e6f5cp
				Jiangshan <i>Jiangshanian</i> CMYK: 15/0/25/0 RGB: 217/240/187 HTML: d9f0bb
				Paibi <i>Paibian</i> CMYK: 20/0/35/0 RGB: 204/235/174 HTML: ccebae
			Miaoling <i>Miaolingian</i> CMYK: 35/5/45/0 RGB: 166/207/134 HTML: a6cf86	Guzhang <i>Guzhangian</i> CMYK: 20/5/30/0 RGB: 204/223/170 HTML: ccdfaa
				Drum <i>Drumian</i> CMYK: 25/5/35/0 RGB: 191/217/157 HTML: bfd99d
				Wuliu <i>Wuliuan</i> CMYK: 30/5/40/0 RGB: 179/212/146 HTML: b3d492
				Etasje 4 <i>Stage 4</i> CMYK: 30/10/40/0 RGB: 179/202/142 HTML: b3ca8e
			Serie 2 <i>Series 2</i> CMYK: 40/10/50/0 RGB: 153/192/120 HTML: 99c078	Etasje 3 <i>Stage 3</i> CMYK: 35/10/45/0 RGB: 166/197/131 HTML: a6c583
				Etasje 2 <i>Stage 2</i> CMYK: 35/15/45/0 RGB: 166/186/128 HTML: a6ba80
				Fortune <i>Fortunian</i> CMYK: 40/15/50/0 RGB: 153/181/117 HTML: 99b575
			Terreneuv <i>Terreneuvian</i> CMYK: 45/15/55/0 RGB: 140/176/108 HTML: 8cb06c	

Super-Eonotem/ <i>Super-Eonothem</i>	Eonotem/ <i>Eonothem</i>	Eratem/ <i>Erathem</i>	System/ <i>System</i>
Prekambrium <i>Precambrian</i> CMYK: 0/75/30/0 RGB: 247/67/112 HTML: f74370	Proterozoikum <i>Proterozoic</i> CMYK: 0/80/35/0 RGB: 247/53/99 HTML: f73563	Neoproterozoikum <i>Neoproterozoic</i> CMYK: 0/30/70/0 RGB: 254/179/66 HTML: feb342	Ediacara <i>Ediacaran</i> CMYK: 0/15/55/0 RGB: 254/217/106 HTML: fed96a
			Kryogen <i>Cryogenian</i> CMYK: 0/20/60/0 RGB: 254/204/92 HTML: fecc5c
			Ton <i>Tonian</i> CMYK: 0/25/65/0 RGB: 254/191/78 HTML: febf4e
		Mesoproterozoikum <i>Mesoproterozoic</i> CMYK: 0/30/55/0 RGB: 253/180/98 HTML: fdb462	Sten <i>Stenian</i> CMYK: 0/15/35/0 RGB: 254/217/154 HTML: fed99a
			Ektas <i>Ectasian</i> CMYK: 0/20/40/0 RGB: 253/204/138 HTML: fdcc8a
			Kalym <i>Calymmian</i> CMYK: 0/25/45/0 RGB: 253/192/122 HTML: fdc07a
		Paleoproterozoikum <i>Paleoproterozoic</i> CMYK: 0/75/30/0 RGB: 247/67/112 HTML: f74370	Stather <i>Statherian</i> CMYK: 0/55/10/0 RGB: 248/117/167 HTML: f875a7
			Orosir <i>Orosirian</i> CMYK: 0/60/15/0 RGB: 247/104/152 HTML: f76898
			Ryax <i>Rhyacian</i> CMYK: 0/65/20/0 RGB: 247/91/137 HTML: f75b89
			Sider <i>Siderian</i> CMYK: 0/70/25/0 RGB: 247/79/124 HTML: f74f7c
	Arkeikum <i>Archean</i> CMYK: 0/100/0/0 RGB: 240/4/127 HTML: ec008c	Neoarkeikum <i>Neoarchean</i> CMYK: 0/50/1/0 RGB: 249/155/193 HTML: f99bc1	CMYK: 0/44/1/0 RGB: 250/167/200 HTML: faa7c8
		Mesoarkeikum <i>Mesoarchean</i> CMYK: 0/60/5/0 RGB: 247/104/169 HTML: ff768a9	CMYK: 0/50/5/0 RGB: 248/129/181 HTML: f881b5
		Paleoarkeikum <i>Paleoarchean</i> CMYK: 0/75/0/0 RGB: 244/68/159 HTML: f4449f	CMYK: 0/60/0/0 RGB: 246/104/178 HTML: f668b2
		Eoarkeikum <i>Eoarchean</i> CMYK: 10/100/0/0 RGB: 218/3/127 HTML: da037f	CMYK: 5/90/0/0 RGB: 230/29/140 HTML: e61d8c
	Hadeikum <i>Hadean</i> CMYK: 30/100/0/0 RGB: 174/2/126 HTML: ae027e		

6.

Farger/Colours

Items in chapter 6 are available as style-files for ArcGIS



	Gr/Gp	Fm	R	G	B	html
6.1 Formasjonsfarger						
6.1 Formation colours						
6.1.1 Barentshavet						
6.1.1 Barents Sea						
Havbunn <i>Seabed</i>			117	190	233	75bee9
Nordland			255	222	47	ffde2f
Sotbakken			253	198	146	fdc692
Torsk			255	236	205	ffeccd
Nygrunnen			175	212	108	afd46c
Kviting			230	240	205	e6f0cd
Kveite			144	210	197	90d2c5
Adventdalen			104	200	198	68c8c6
Kolmule			183	218	155	b7da9b
Kolje			214	224	61	d6e03d
Knurr			115	193	103	73c167
Hekkingen			222	240	233	def0e9
Fuglen			161	209	230	a1d1e6
Kapp Toscana			52	178	201	34b2c9
Realgrunnen			132	204	241	84ccf1
Stø			204	219	241	ccdbf1
Nordmela			28	219	241	1cdbf1
Tubåen			49	50	131	313283
Fruholmen			245	232	242	f5e8f2
Storfjorden			223	195	222	dfc3de
Snadd			232	188	216	e8bcd8
Sassendalen			110	102	152	6e6698
Ingøydjupet			178	130	185	b282b9
Kobbe			240	103	166	f067a6
Steinkobbe			176	81	165	b051a5
Klappmyss			160	93	165	a05da5
Havert			110	102	152	6e6698
Tempelfjorden			246	141	118	f68d76
Ørret			254	230	211	fee6d3
Røye			250	190	175	fabeaf
Bjarmeland			148	94	83	945e53
Isbjørn			226	192	183	e2c0b7
Ulv			223	128	109	df806d
Polarrev			185	128	108	b9806c
Gipsdalen			203	212	209	cbd4d1

	Gr/Gp	Fm	R	G	B	html
Ørn			222	227	225	dee3e1
Falk			190	208	209	bed0d1
Ugle			140	192	199	8cc0c7
Billefjorden			196	196	137	c4c489
Blærerot			218	216	180	dad8b4
Tettegras			184	191	137	b8bf89
Soldogg			130	157	130	829d82
6.1.2 Frans Josefs land						
6.1.2 Frans Josef Land						
Salisbury			221	221	28	dddd1c
Tikhaya Bay			122	187	87	7abb57
Bashenov			231	243	238	e7f3ee
Tegetthoff			94	191	237	5ebfed
Vasiliev			237	197	222	edc5de
Wilczec			235	95	158	eb5f9e
6.1.3 Svalbard (Sentral)						
6.1.3 Svalbard (Central)						
Van Mijenfjorden			253	167	95	fda75f
Aspelintoppen			255	240	213	fff0d5
Battfjellet			254	209	109	fed16d
Frysjaodden			249	241	101	f9f165
Grumantbyen			250	232	11	fae80b
Hollendar- dalen			250	232	11	fae80b
Basilika			251	222	6	fbde06
Firkanten			255	203	10	ffcb0a
Adventdalen			104	200	198	68c8c6
Carolinefjellet			204	218	45	ccda2d
Helvetiafjellet			167	205	59	a7cd3b
Kong Karls Land Flows			115	193	103	73c167
Janusfjellet (Subgroup)			138	211	224	8ad3e0
Rurikfjellet			172	223	234	acdfea
Agardhfjellet			139	211	224	8bd3e0
Kapp Toscana			52	178	201	34b2c9
Wilhelmøya			153	196	198	99c4c6
Svenskøya (Subgroup)			98	199	209	62c7d1
Flatsalen			106	196	175	6ac4af
Storfjorden (Subgroup)			202	158	199	ca9ec7
De Geerdalen			201	157	198	c99dc6
Tschermakfjellet			172	132	185	ac84b9
Sassendalen			146	123	182	927bb6

	Gr/Gp	Fm	R	G	B	html
Botneheia			167	150	199	a796c7
Vikingshøgda			144	108	173	906cad
Bravaisberget			167	150	199	a79c7
Tvillingodden			144	108	173	906cad
Vardebukta			153	85	160	9955a0
Kistefjellet			186	169	211	baa9d3
Tempelfjorden			246	141	118	f68d76
Kapp Starostin			171	212	136	abd488
Tokrossøya			171	212	136	abd488
Miseryfjellet			171	212	136	abd488
Bjarmeland			243	116	93	f3745d
Hambergfjellet			171	212	136	abd488
Gipsdalen			203	212	209	cbd4d1
Dickson Land (Subgroup)			222	227	225	dee3e1
Gipshuken			190	208	209	bed0d1
Wordiekammen			140	192	199	8cc0c7
Tårnkanten			201	230	255	c9e6ff
Petrellskåret			139	155	149	8b9b95
Treskelodden			165	201	204	a5c9cc
Hyrnefjellet			113	155	158	719b9e
Campbellryggen (Subgroup)			113	159	183	719fb7
Minkinfjellet			141	178	197	8db2c5
Ebbadalen			170	197	212	aac5d4
Hultberget			198	217	226	c6d9e2
Scheteligfjellet			135	155	166	879ba6
Brøggertinden			175	189	196	afbdc4
Malte Brunfjellet			215	222	225	d7dee1
Hårdbardbreen			165	166	154	a5a69a
Billefjorden			195	196	188	c3c4bc
Sergeijevfjellet			222	227	225	dee3e1
Hornsundet			181	192	188	b5c0bc
Adriabukta			210	206	213	d2ced5
Vegardfjellet			232	230	234	e8e6ea
Orustdalen			192	189	172	c0bdac
Mumien			139	155	149	8b9b95
Hørbyebreen			185	195	191	b9c3bf
6.1.4 Bjørnøya						
6.1.4 Bjørnøya						
Storfjorden			223	195	222	dfc3de
Skuld			255	175	255	ffafff

	Gr/Gp	Fm	R	G	B	html
Sassendalen			110	102	152	6e6698
Urd			240	103	166	f067a6
Tempelfjorden			246	141	118	f68d76
Miseryfjellet			250	190	175	fabeaf
Bjarmeland			148	94	83	945e53
Hambergfjellet			223	128	109	df806d
Gipsdalen			203	212	209	cbd4d1
Kapp Dunér			201	230	255	c9e6ff
Kapp Hanna			139	155	149	8b9b95
Kapp Kåre			165	201	204	a5c9cc
Landnørdingsvika			113	155	158	719b9e
Billefjorden			196	196	137	c4c489
Nordkapp			218	216	180	dad8b4
Røedvika			130	157	130	829d82
Pre-Old red basement			206	49	49	ce3131
6.1.5 Midt-Norge						
6.1.5 Mid-Norway						
Havbunn <i>Seabed</i>			117	190	233	75bee9
Nordland			255	222	47	ffde2f
Naust			255	251	204	fffbcc
Naust T			255	251	204	fffbcc
Naust S			255	204	102	ffcc66
Naust U			255	200	30	ffc81e
Naust A			255	230	180	ffe6b4
Naust N			255	255	0	ffff00
Kai			255	245	121	fff579
Molo			255	225	50	ffe132
Hordaland			253	198	146	fdc692
Brygge			253	209	176	fdd1b0
Rogaland			250	166	26	faa61a
Tare			246	139	31	f68b1f
Tang			187	127	50	bb7f32
Shetland			175	212	108	afd46c
Springar			230	240	205	e6f0cd
Nise			144	210	198	90d2c5
Kvitnos			183	218	155	b7da9b
Cromer Knoll			104	200	198	68c8c6
Lysing			214	224	61	d6e03d
Lange			115	193	103	73c167

	Gr/Gp	Fm	R	G	B	html
Lyr			0	138	80	008a50
Viking			171	225	250	abe1fa
Spekk			222	240	233	def0e9
Rogn			199	234	251	c7eafb
Melke			161	209	230	a1d1e6
Fangst			132	204	241	84ccf1
Garn			204	219	241	ccdbf1
Not			77	190	238	4dbeee
Ile			28	219	241	1c9ad6
Båt			77	134	189	4d86bd
Ror			0	116	178	0074b2
Tofte			146	169	215	92a9d7
Tilje			87	108	179	576cb3
Åre			49	50	131	313283
Zechstein			246	141	118	f68d76

	Gr/Gp	Fm	R	G	B	html
6.1.6 Faroe-Shetland Basin						
6.1.6 Faroe-Shetland Basin						
Westray			254	230	170	fee6aa
Stronsay			253	198	146	fdc692
Strachan sst.			253	209	176	fdd1b0
Moray			226	172	139	e2ac8b
Flett			226	172	139	e2ac8b
Faroe			250	166	26	faa61a
Vaila/Lamba			250	166	26	faa61a
Sullom/Egga			122	82	57	7a5239
Macbeth			115	193	103	73c167
Commodore/Svarte			0	138	80	008a50
Co/Cruiser/Rødby			207	223	221	cfdidd
RoSou			235	235	124	eb7c
Neptune			235	235	124	eb7c
Carrack			154	194	147	9ac293
Valhall			0	143	130	008f82
Kimmeridge Clay			204	236	244	ccecf4
Humber			171	225	250	abe1fa
6.1.7 Øst-Shetlandbassenget						
6.1.7 East Shetland Basin						
Havbunn Seabed			117	190	233	75bee9
Nordland			255	222	47	ffde2f
Naust			255	251	204	ffbcc
Utsira			255	245	121	fff579
Hordaland			253	198	146	fdc692
Skade			255	236	205	ffeccd
Ull			255	236	205	ffeccd
Grid			253	209	176	fdd1b0
Frigg			255	206	113	ffce71
Rogaland			250	166	26	faa61a
Balder			226	172	139	e2ac8b
Hermød			253	185	19	fdb913
Sele			246	139	31	f68b1f
Ty			197	179	115	c5b373
Heimdal			187	127	50	bb7f32
Lista			242	212	144	f2d490
Våle			122	82	57	7a5239
Maureen			176	149	133	b09585
Shetland			175	212	108	afd46c

	Gr/Gp	Fm	R	G	B	html
Hardåde			230	240	205	e6f0cd
Jorsalfare			144	210	197	90d2c5
Kyrre			183	218	155	b7da9b
Tryggvason			214	224	61	d6e03d
Blodøks			115	193	103	73c167
Svarte			0	138	80	008a50
Cromer Knoll			104	200	198	68c8c6
Rødby			207	223	201	cfdfc9
Sola			154	194	147	9ac293
Mime			179	193	53	b3c135
Åsgard			0	143	130	008f82
Viking			171	225	250	abe1fa
Draupne (Munin)			222	240	233	def0e9
Magnus			199	234	251	c7eafb
Heather			161	209	230	a1d1e6
Brent			132	204	241	84ccf1
Tarbert			87	139	167	578ba7
Ness			204	219	241	ccdbf1
Etive			77	190	238	4dbeee
Rannoch			28	219	241	1c9ad6
Dunlin			77	134	189	4d86bd
Drake			0	84	154	00549a
Cook			146	169	215	92a9d7
Burton			87	108	179	576cb3
Amundsen			49	50	131	313283
Statfjord			0	61	117	003d75
Nansen			158	210	241	9ed2f1
Eiriksson			112	164	216	70a4d8
Raude			174	161	206	aea1ce
Hegre			178	130	185	b282b9
Lunde			245	232	242	f5e8f2
Alke			201	140	197	c98cc5
Snadd			232	188	216	e8bcd8
Lomvi			240	103	166	f067a6
Teist			160	93	165	a05da5
Zechstein			246	141	118	f68d76
Rotliegendes			148	94	83	945e53

	Gr/Gp	Fm	R	G	B	html
6.1.8 Nordlige Vikinggraben						
6.1.8 Northern Viking Trough						
Havbunn <i>Seabed</i>			117	190	233	75bee9
Nordland			255	222	47	ffde2f
Naust			255	251	204	fffbcc
Utsira			255	245	121	fff579
Hordaland			253	198	146	fdc692
Skade			255	236	205	ffeccd
Grid			253	209	176	fdd1b0
Frigg			255	206	103	ffce71
Ull			255	236	205	ffeccd
Rogaland			250	166	26	faa61a
Balder			226	172	139	e2ac8b
Hermod			253	185	19	fdb913
Sele			246	139	31	f68b1f
Heimdal			187	127	50	bb7f32
Lista			242	212	144	f2d490
Ty			197	179	115	c5b373
Våle			122	82	57	7a5239
Shetland			175	212	108	afd46c
Hardråde			230	240	205	e6f0cd
Jorsalfare			144	210	197	90d2c5
Kyrre			183	218	155	b7da9b
Tryggvason			214	224	61	d6e03d
Blodøks			115	193	103	73c167
Svarte			0	138	80	008a50
Cromer Knoll			104	200	198	68c8c6
Rødby			207	223	201	cfdfc9
Sola			154	194	147	9ac293
Mime			179	193	53	b3c135
Åsgard			0	143	130	008f82
Viking			171	225	250	abe1fa
Draupne			222	240	233	def0e9
Heather			161	209	230	a1d1e6
Brent			132	204	241	84ccf1
Tarbert			87	139	167	578ba7
Ness			204	219	241	ccdbf1
Etive			77	190	238	4dbeee
Rannoch			28	219	241	1c9ad6

	Gr/Gp	Fm	R	G	B	html
Broom/Oseberg			0	116	178	0074b2
Dunlin			77	134	189	4d86bd
Drake			0	84	154	00549a
Cook			146	169	215	92a9d7
Burton			87	108	179	576cb3
Amundsen			49	50	131	313283
Statfjord			0	61	117	003d75
Nansen			158	210	241	9ed2f1
Eiriksson			112	164	216	70a4d8
Raude			174	161	206	aea1ce
Hegre			178	130	185	b282b9
Lunde			245	232	242	f5e8f2
Alke			201	140	197	c98cc5
Smith Bank			228	141	187	e48dbb
Lomvi			240	103	166	f067a6
Teist			160	93	165	a05da5
Zechstein			246	141	118	f68d76
Rotliegendes			148	94	83	945e53
Kupferschiefer			254	230	211	fee6d3
6.1.9 Hordaplattform						
6.1.9 Horda Platform						
Havbunn <i>Seabed</i>			117	190	233	75bee9
Nordland			255	222	47	ffde2f
Utsira			255	245	121	fff579
Hordaland			253	198	146	fdc692
Skade			255	236	205	ffeccd
Ull			255	236	205	ffeccd
Rogaland			250	166	26	faa61a
Balder (Radøy)			226	172	139	e2ac8b
Sele (Sula)			246	139	31	f68b1f
Lista (Sotra)			242	212	144	f2d490
Våle (Egga equivalent)			122	82	57	7a5239
Shetland			175	212	108	afd46c
Kyrre			183	218	155	b7da9b
Tryggvason			214	224	61	d6e03d
Blodøks			115	193	103	73c167
Svarte			0	138	80	008a50
Cromer Knoll			104	200	198	68c8c6
Rødby			207	223	201	cfdfc9

	Gr/Gp	Fm	R	G	B	html
Sola			154	194	147	9ac293
Agat			235	235	124	eb7b7c
Mime			179	193	53	b3c135
Åsgard			0	143	130	008f82
Viking			171	225	250	abe1fa
Draupne (Munin)			222	240	233	def0e9
Sognefjord			199	234	251	c7eafb
Heather			161	209	230	a1d1e6
Fensfjord			179	196	202	b3c4ca
Krossfjord			121	168	189	79a8bd
Brent			132	204	241	84ccf1
Tarbert			87	139	167	578ba7
Ness			204	219	241	ccdbf1
Etive			77	190	238	4dbeee
Rannoch			28	219	241	1c9ad6
Dunlin			77	134	189	4d86bd
Drake			0	84	154	00549a
Cook			146	169	215	92a9d7
Johansen			87	108	179	576cb3
Amundsen			49	50	131	313283
Statfjord			0	61	117	003d75
Hegre			178	130	185	b282b9
Lunde			245	232	242	f5e8f2
Alke			201	140	197	c98cc5
Lomvi			240	103	166	f067a6
Teist			160	93	165	a05da5
Zechstein			246	141	118	f68d76
Kupferschiefer			254	230	211	fee6d3
Rotliegendes			148	94	83	945e53

	Gr/Gp	Fm	R	G	B	html
6.1.10 Sørilige Vikinggraben 6.1.10 Southern Viking Trough						
Havbunn <i>Seabed</i>			117	190	233	75bee9
Nordland			255	222	47	ffde2f
Utsira			255	245	121	fff579
Hordaland			253	198	146	fdc692
Skade (Ull)			255	236	205	ffeccd
Grid			253	209	176	fdd1b0
Frigg			255	206	113	ffce71
Rogaland			250	166	26	faa61a
Balder (Bea ulv) (Odin)			226	172	139	e2ac8b
Hermod			253	185	19	fdb913
Sele			246	139	31	f68b1f
Lista			242	212	144	f2d490
Meileleddet			209	163	44	d1a32c
Heimdal			187	127	50	bb7f32
Våle			122	82	57	7a5239
Shetland			175	212	108	afd46c
Ekofisk			230	240	205	e6f0cd
Tor			234	235	134	eaeb86
Jorsalfare			144	210	197	90d2c5
Kyrre			183	218	155	b7da9b
Hod			146	155	61	929b3d
Tryggvason			214	224	61	d6e03d
Blodøks			115	193	103	73c167
Svarte			0	138	80	008a50
Cromer Knoll			104	200	198	68c8c6
Rødby			207	223	201	cfdfc9
Sola			154	194	147	9ac293
Ran sst unit			104	176	170	68b0aa
Mime			179	193	53	b3c135
Åsgard			0	143	130	008f82
Viking			171	225	250	abe1fa
Draupne			222	240	233	def0e9
Brae			199	234	251	c7eafb
Heather			161	209	230	a1d1e6
Vestland			132	204	241	84ccf1
Hugin			77	190	238	4dbeee
Sleipner			0	116	178	0074b2

	Gr/Gp	Fm	R	G	B	html
Hegre			178	130	185	b282b9
Lunde			245	232	242	f5e8f2
Alke			201	140	197	c98cc5
Skagerrak			232	188	216	e8bcd8
Smith Bank			228	141	187	e48dbb
Zechstein			246	141	118	f68d76
Kupferschiefer			254	230	211	fee6d3
Rotligendes			148	94	83	945e53
6.1.11 Norsk-danske basseng (Fiskebank subbasseng)						
6.1.11 Norwegian Danish Basin (Fiskebank Sub-basin)						
Havbunn <i>Seabed</i>			117	190	233	75bee9
Nordland (Naust)			255	222	47	ffde2f
Hordaland			253	198	146	fdc692
Lark (informal)			255	206	113	ffce71
Rogaland			250	166	26	faa61a
Sele			246	139	31	f68b1f
Fiskebank (Kolga)			209	163	44	d1a32c
Lista (Rind / Idun equivalent)			242	212	144	f2d490
Siri			187	127	50	bb7f32
Våle			122	82	57	7a5239
Borr sandstone			155	129	98	9b8162
Shetland			175	212	108	afd46c
Ekofisk			230	240	205	e6f0cd
Tor			234	235	134	eaeb86
Hod			146	155	61	929b3d
Blodøks			115	193	103	73c167
Hidra			0	138	80	008a50
Cromer Knoll			104	200	198	68c8c6
Rødby			207	223	201	cfdfc9
Ran sst unit			104	176	170	68b0aa
Tuxen			235	235	124	ebeb7c
Åsgard			0	143	130	008f82
Boknfjord			171	225	250	abe1fa
Flekkefjord			222	240	233	def0e9
Sauda			199	234	251	c7eafb
Tau			161	209	230	a1d1e6
Børglund			179	196	202	b3c4ca
Egersund			121	168	189	79a8bd
Vestland			132	204	241	84ccf1

	Gr/Gp	Fm	R	G	B	html
Sandnes			77	190	238	4dbeee
Bryne			0	116	178	0074b2
Dunlin Group equivalent			77	134	189	4d86bd
Fjerritslev			49	50	131	313283
Stafford Group equivalent			0	61	117	003d75
Gassum			245	232	242	f5e8f2
Hegre			178	130	185	b282b9
Alke			201	140	197	c98cc5
Skagerrak			232	188	216	e8bcd8
Smith Bank			228	141	187	e48dbb
Zechstein			246	141	118	f68d76
Shearwater salt (informal)			226	192	183	e2c0b7
Turbot anhydrite (informal)			223	128	109	df806d
Halibut carbonate (informal)			185	128	108	b9806c
Kupferschiefer			254	230	211	fee6d3
Rotliegendes			148	94	83	945e53
Auk (informal)			223	128	109	df806d
Fraserburgh			185	128	108	b9806c
Inge volcanics			189	81	66	bd5142
6.1.12 Norsk-danske basseng (Dansk subbasseng)						
6.1.12 Norwegian Danish Basin (Danish Sub-basin)						
Havbunn <i>Seabed</i>			117	190	233	75bee9
Nordland			255	222	47	ffde2f
Gram			255	242	235	fff2eb
Hodde			255	237	179	ffedb3
Odderup			255	245	121	fff579
Arnum			255	242	0	fff200
Ribe			255	222	47	ffde2f
Vejlefjord			255	236	205	ffeccd
Branden			253	209	176	fdd1b0
Viborg mbr			255	206	113	ffce71
Grundfor mbr			210	171	95	d2ab5f
Søvind			226	172	139	e2ac8b
Lillebælt			253	185	19	fdb913
Røsnæs			246	139	31	f68b1f
Knutshoved			187	127	50	bb7f32
Vaerum			226	172	139	e2ac8b
Fur			246	139	31	f68b1f
Ølst			253	185	19	fdb913

	Gr/Gp	Fm	R	G	B	html
Haslund			242	212	144	f2d490
Holmehus			187	127	50	bb7f32
Kertminde			206	131	45	ce832d
Lellinge			122	82	57	7a5239
Shetland			175	212	108	afd46c
Hidra			0	138	80	008a50
Cromer Knoll			104	200	198	68c8c6
Rødby			207	223	201	cfdfc9
Vedsted			179	193	53	b3c135
Skagen			0	143	130	008f82
Boknfjord			171	225	250	abe1fa
Fredrikshavn mbr			222	240	233	def0e9
Borglum			199	234	251	c7eafb
Haldager			132	204	241	84ccf1
Flyvbjerg			121	168	189	79a8bd
Haldager sand			77	190	238	4dbeee
Fjerritslev			49	50	131	313283
Mors			223	195	222	dfc3de
Gassum			245	232	242	f5e8f2
Vinding			226	183	178	e2b7b2
Alke			201	140	197	c98cc5
Skagerrak			232	188	216	e8bcd8
Jylland			178	130	185	b282b9
Oddesund			189	124	181	bd7cb5
Tønder			156	65	152	9c4198
Lolland			215	88	137	d75889
Falster			240	103	166	f067a6
Ørslev			208	24	116	d01874
Bacton			160	93	165	a05da5
Bunter sandstone			155	149	201	9b95c9
Bunter shale			110	102	152	6e6698
Zechstein			246	141	118	f68d76
Kupferschiefer			254	230	211	fee6d3
Rotliegendes			148	94	83	945e53

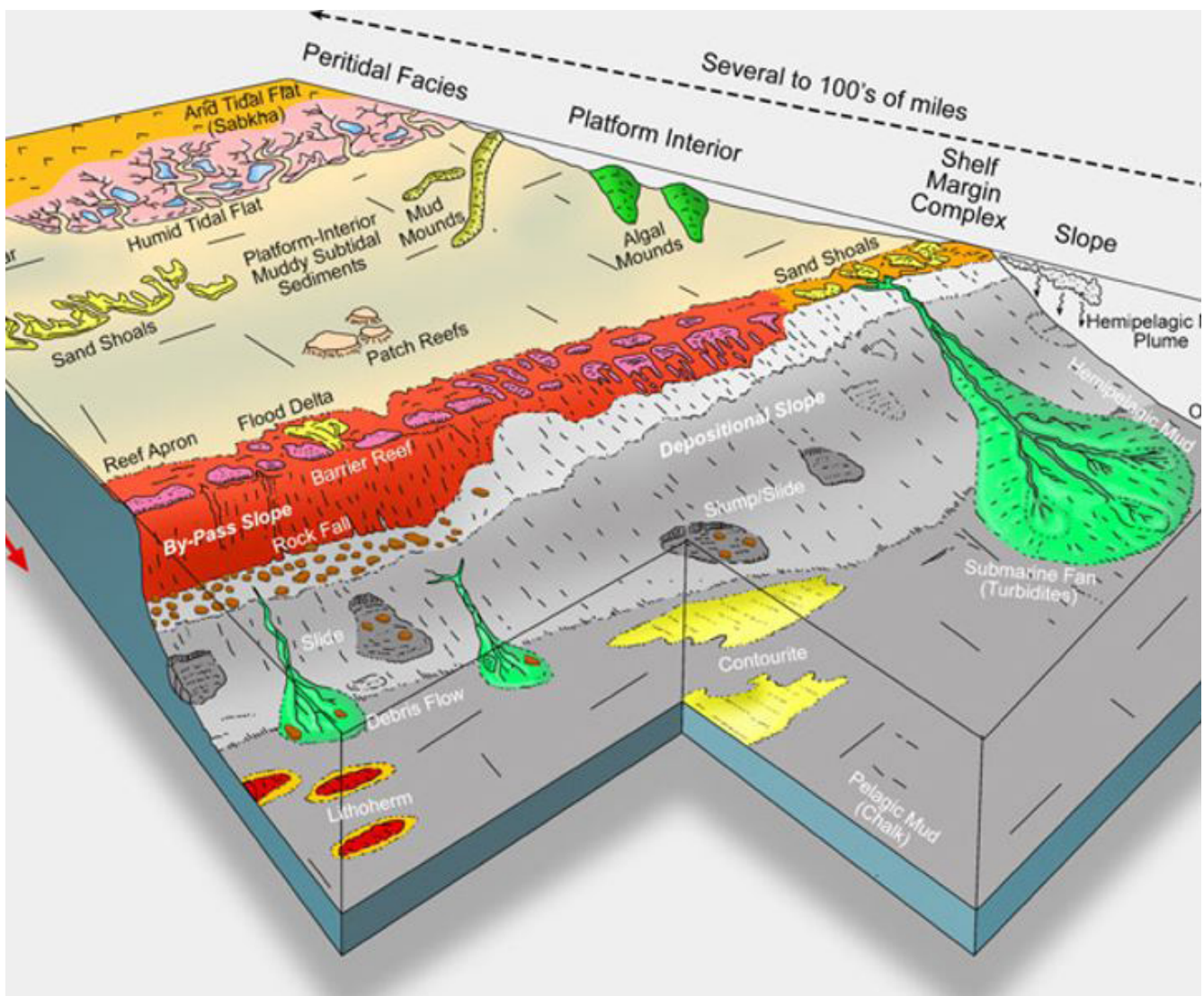
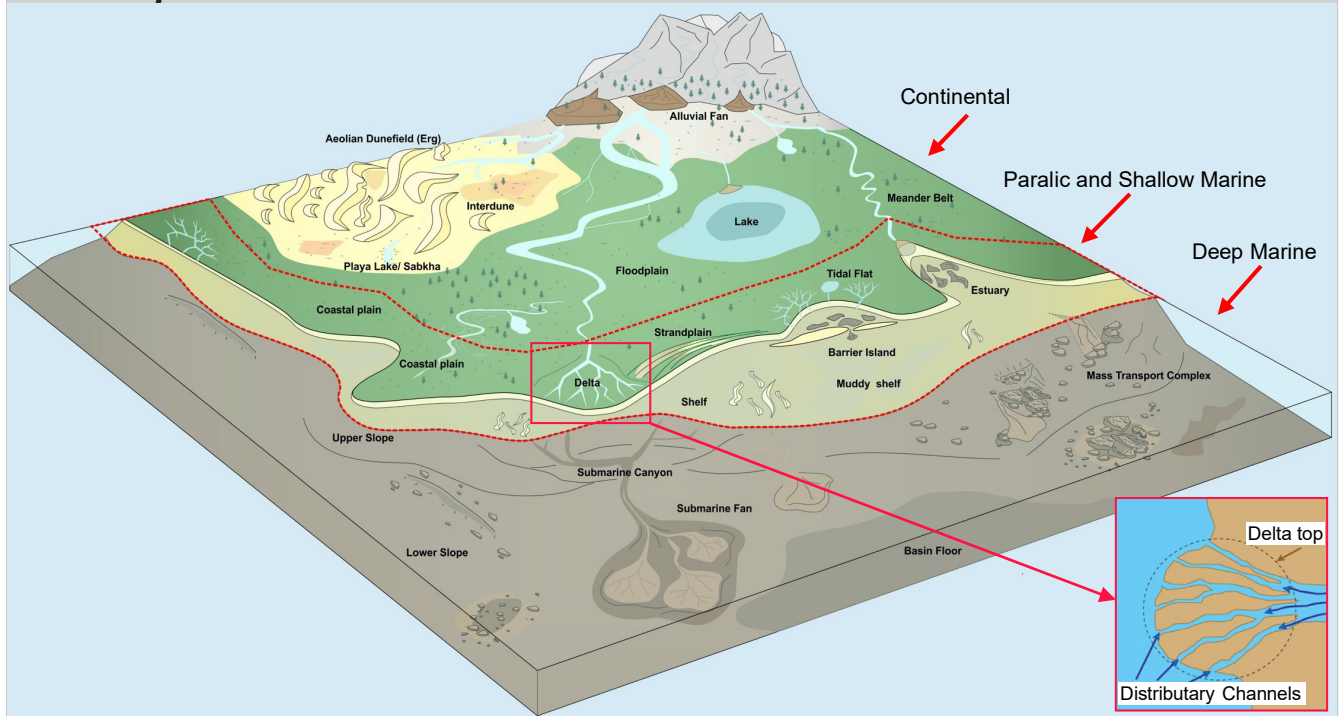
	Gr/Gp	Fm	R	G	B	html
6.1.13 Sentraltrauet (nordlige del)						
6.1.13 Central Trough (northern part)						
Havbunn <i>Seabed</i>			117	190	233	75bee9
Nordland			255	222	47	ffde2f
Naust (informal)			255	251	204	fffbcc
Utsira			255	245	121	fff579
Hordaland			253	198	146	fdc692
Vade			255	236	205	ffeccd
Lark (informal)			255	206	113	ffce71
Rogaland			250	166	26	faa61a
Balder			226	172	139	e2ac8b
Forties			209	163	44	d1a32c
Sele			246	139	31	f68b1f
Lista			242	212	144	f2d490
Andrew			187	127	50	bb7f32
Vidar			209	163	44	d1a32c
Våle			122	82	57	7a5239
Shetland			175	212	108	afd46c
Ekofisk			230	240	205	e6f0cd
Tor			234	235	134	eaeb86
Hod			146	155	61	929b3d
Blodøks			115	193	103	73c167
Hidra			0	138	80	008a50
Cromer Knoll			104	200	198	68c8c6
Rødby			207	223	201	cfdfc9
Ran sst unit			104	176	170	68b0aa
Sola			154	194	147	9ac293
Tuxen			235	235	124	ebeb7c
Åsgard			0	143	130	008f82
Tyne			171	225	250	abe1fa
Mandal			0	101	87	006557
Farsund			222	240	233	def0e9
Eldfisk			161	209	230	a1d1e6
Haugesund			121	168	189	79a8bd
Ula			199	234	251	c7eafb
Vestland			132	204	241	84ccf1
Sandnes			77	190	238	4dbeee
Bryne			0	116	178	0074b2
Dunlin Group equivalent			77	134	189	4d86bd

	Gr/Gp	Fm	R	G	B	html
Fjerritslev			49	50	131	313283
Statfjord Group equivalent			0	61	117	003d75
Gassum			245	232	242	f5e8f2
Hegre			178	130	185	b282b9
Skagerrak			232	188	216	e8bcd8
Bunter sandstone			155	149	201	9b95c9
Smith Bank			228	141	187	e48dbb
Zechstein			246	141	118	f68d76
Shearwater salt (informal)			226	192	183	e2c0b7
Turbot anhydrite (informal)			223	128	109	df806d
Halibut carbonate (informal)			185	128	108	b9806c
Argyll carbonate member (informal)			250	190	175	fabeaf
Kupferschiefer			254	230	211	fee6d3
Rotliegendes			148	94	83	945e53
Auk			223	128	109	df806d
Fraserburgh			185	128	108	b9806c
Inge volcanics			189	81	66	bd5142
6.1.14 Sentraltrauet (sørlige del)						
6.1.14 Central Trough (southern part)						
Havbunn <i>Seabed</i>			117	190	233	75bee9
Nordland			255	222	47	ffde2f
Hordaland			253	198	146	fdc692
Vade			255	236	205	ffeccd
Rogaland			250	166	26	faa61a
Balder			226	172	139	e2ac8b
Lista			242	212	144	f2d490
Våle			122	82	57	7a5239
Shetland			175	212	108	afd46c
Hidra			0	138	80	008a50
Cromer Knoll			104	200	198	68c8c6
Rødby			207	223	201	cfdfc9
Ran sst unit			104	176	170	68b0aa
Sola			154	194	147	9ac293
Tuxen			235	235	124	ebeb7c
Åsgard			0	143	130	008f82
Leekleddet			0	101	87	006557
Humber			171	225	250	abe1fa
Farsund			222	240	233	def0e9
Vyl			199	234	251	c7eafb

	Gr/Gp	Fm	R	G	B	html
Poul			161	209	230	a1d1e6
Lola			121	168	189	79a8bd
Heno			87	139	167	578ba7
Vestland			132	204	241	84ccf1
Bryne			0	116	178	0074b2
Fjerritslev			49	50	131	313283
Penarth			250	191	178	fabfb2
Haisborough			178	130	185	b282b9
Triton			232	188	216	e8bcd8
Dudgeon			156	65	152	9c4198
Dowsing			228	141	187	e48dbb
Alke			201	140	197	c98cc5
Bacton			160	93	165	a05da5
Bunter sandstone			155	149	201	9b95c9
Bunter shale			110	102	152	6e6698
Zechstein			246	141	118	f68d76
Kupferschiefer			254	230	211	fee6d3
Rotliegendes			148	94	83	945e53
6.1.15 Generelle farger 6.1.15 General colours						
Base Cretaceous unconformity (BCU)			127	198	78	7fc64e
Grey beds			187	176	163	bbb0a3
Red beds			223	152	129	df9881
Upper salt			250	191	189	fabfbd
Lower salt			247	159	155	f79f9b

6.2 Standarder for avsetningsmiljø

6.2 Depositional environment standards - all GDEs



Parent GDE			R	G	B	html
6.2.1 Gross depositional environment						
1st tier. Gross depositional environment						
Clastic continental			111	138	69	6f8a45
Clastic paralic shallow marine			225	225	225	e1e1e1
Clastic deep marine			175	175	175	afafaf
Carbonate continental			197	207	218	c5cfda
Carbonate paralic shallow marine			119	197	213	77c5d5
Carbonate deep marine			70	112	182	4670b6
Igneous - volcanic			226	77	97	e24d61
Igneous - intrusive			238	16	45	ee102d
Metamorphic			90	20	125	5a147d
Evaporite continental			255	204	204	ffcccc
Evaporite platform			241	119	170	f177aa
Evaporite slope and basin			210	73	241	d249f1
1st tier. Source to sink (EXP)						
Alpine			172	137	0	ac8900
Lowland			111	138	69	6f8a45
Shelf			225	225	225	e1e1e1
Slope			175	175	175	afafaf
Basin floor			125	125	125	7d7d7d
2nd tier. Depositional environment						
Alluvial	Clastic continental		179	242	0	b3f200
Erg	Clastic continental		248	203	173	f8cbad
Lacustrine (Lake)	Clastic continental		197	207	218	c5cfda
Glacigenic Undiff	Clastic continental		28	128	78	1c804e
Glacigenic Sub-glacial	Clastic continental		24	77	50	184d32
Glacigenic Pro-glacial	Clastic continental		158	219	189	9edbbd
Delta	Clastic paralic shallow marine		255	102	51	ff6633
Fluvio-deltaic	Clastic paralic shallow marine		255	155	50	ff9b32
Wave-influenced delta	Clastic paralic shallow marine		255	170	90	ffaa5a
Tide-influenced delta	Clastic paralic shallow marine		255	155	130	ff9b82
Tide-dominated delta	Clastic paralic shallow marine		204	150	75	cc964b
Wave-dominated delta	Clastic paralic shallow marine		243	92	75	f35c4b
Estuary	Clastic paralic shallow marine		255	153	102	ff9966
Tide-dominated estuary	Clastic paralic shallow marine		255	200	180	ffc8b4
Wave-dominated estuary	Clastic paralic shallow marine		255	242	161	fff2a1
Tide-dominated coast	Clastic paralic shallow marine		204	102	51	cc6633
Tidal shoreline-non deltaic	Clastic paralic shallow marine		204	120	30	cc781e
Wave-influenced tidal shoreline	Clastic paralic shallow marine		204	180	110	ccb46e
Barrier island	Clastic paralic shallow marine		255	225	20	ffe114
Tide-influenced barrier island	Clastic paralic shallow marine		255	230	110	ffe66e
Bay	Clastic paralic shallow marine		148	173	182	94adb6
Shoreface	Clastic paralic shallow marine		204	102	51	cc6633
Fluvial-influenced shoreface	Clastic paralic shallow marine		204	224	71	cce047
Tide-influenced shoreface	Clastic paralic shallow marine		204	244	91	ccf45b
Shelf	Clastic paralic shallow marine		225	225	225	e1e1e1
Glacigenic subaqueous	Clastic paralic shallow marine		215	247	231	d7f7e7
Glacigenic pro-glacial subaqueous	Clastic paralic shallow marine		102	255	179	66ffb3
Upper slope	Clastic deep marine		204	204	204	cccccc
Lower slope	Clastic deep marine		179	179	179	b3b3b3
Slope apron	Clastic deep marine		125	125	125	7d7d7d
Ponded basin	Clastic deep marine		102	102	102	666666

	Parent GDE		R	G	B	html
<i>Injectite</i>	<i>Clastic deep marine</i>		204	51	0	cc3300
<i>Shelf edge</i>	<i>Clastic deep marine</i>		173	160	117	ada075
<i>Basin floor</i>	<i>Clastic deep marine</i>		125	125	125	7d7d7d
<i>Subaerial</i>	<i>Carbonate continental</i>		215	215	195	d7d7c3
<i>Lacustrine carbonate platform undifferentiated</i>	<i>Carbonate continental</i>		197	207	218	c5cfda
<i>Lacustrine ramp - undifferentiated</i>	<i>Carbonate continental</i>		153	144	209	9990d1
<i>Lacustrine ramp - inner ramp</i>	<i>Carbonate continental</i>		52	125	144	347d90
<i>Lacustrine ramp - mid ramp</i>	<i>Carbonate continental</i>		214	78	235	d64eeb
<i>Lacustrine ramp - outer ramp</i>	<i>Carbonate continental</i>		111	157	249	6f9df9
<i>Lacustrine shelf - undifferentiated</i>	<i>Carbonate continental</i>		104	90	208	685ad0
<i>Lacustrine shelf - interior</i>	<i>Carbonate continental</i>		0	80	100	005064
<i>Lacustrine shelf - margin</i>	<i>Carbonate continental</i>		174	0	201	ae00c9
<i>Lacustrine shelf - slope undifferentiated</i>	<i>Carbonate continental</i>		111	211	53	6fd335
<i>Lacustrine shelf - upper slope</i>	<i>Carbonate continental</i>		0	153	255	0099ff
<i>Lacustrine shelf - lower slope</i>	<i>Carbonate continental</i>		0	25	200	0019c8
<i>Lacustrine shelf - toe of slope</i>	<i>Carbonate continental</i>		0	80	20	005014
<i>Lacustrine - intra-platform basin</i>	<i>Carbonate continental</i>		130	245	175	82f5af
<i>Lacustrine - basinal</i>	<i>Carbonate continental</i>		0	40	60	00283c
<i>Carbonate platform undifferentiated</i>	<i>Carbonate paralic shallow marine</i>		123	167	188	7ba7bc
<i>Ramp undifferentiated</i>	<i>Carbonate paralic shallow marine</i>		153	144	209	9990d1
<i>Ramp - inner ramp</i>	<i>Carbonate paralic shallow marine</i>		197	208	230	c5d0e6
<i>Ramp - mid ramp</i>	<i>Carbonate paralic shallow marine</i>		214	78	235	d64eeb
<i>Shelf undifferentiated</i>	<i>Carbonate paralic shallow marine</i>		70	112	182	4670b6
<i>Shelf - interior</i>	<i>Carbonate paralic shallow marine</i>		0	80	100	005064
<i>Shelf - margin</i>	<i>Carbonate paralic shallow marine</i>		174	0	201	ae00c9
<i>Ramp - outer ramp</i>	<i>Carbonate deep marine</i>		111	157	249	6f9df9
<i>Shelf - slope undifferentiated</i>	<i>Carbonate deep marine</i>		51	121	153	337999
<i>Shelf - upper slope</i>	<i>Carbonate deep marine</i>		0	153	255	0099ff
<i>Shelf - lower slope</i>	<i>Carbonate deep marine</i>		0	25	200	0019c8
<i>Shelf - toe of slope</i>	<i>Carbonate deep marine</i>		0	80	20	005014
<i>Shelf intra-platform basin</i>	<i>Carbonate deep marine</i>		130	245	175	82f5af
<i>Basinal</i>	<i>Carbonate deep marine</i>		22	42	104	162a68
<i>Continental subaerial volcanic sequence - undifferentiated</i>	<i>Igneous - volcanic</i>		206	31	42	ce1f2a
<i>Continental subaerial - lava field (fissure fed)</i>	<i>Igneous - volcanic</i>		207	32	69	cf2045
<i>Continental subaerial - volcano (point sourced)</i>	<i>Igneous - intrusive</i>		203	43	93	cb2b5d
<i>Continental subaerial pyroclastic</i>	<i>Igneous - intrusive</i>		168	83	146	a85392
<i>Continental subaerial volcanoclastic (reworked)</i>	<i>Igneous - intrusive</i>		152	94	155	985e9b
<i>Continental subaqueous volcanic sequence - undifferentiated</i>	<i>Igneous - intrusive</i>		174	31	206	ae1fce
<i>Transitional subaerial volcanic sequence - undifferentiated</i>	<i>Igneous - intrusive</i>		81	6	120	510678
<i>Transitional subaqueous volcanic sequence - undifferentiated</i>	<i>Igneous - intrusive</i>		83	7	133	530785
<i>Transitional subaqueous - lava delta</i>	<i>Igneous - intrusive</i>		84	10	147	540a93
<i>Transitional - volcano (point sourced)</i>	<i>Igneous - intrusive</i>		118	60	179	763cb3
<i>Transitional subaqueous pyroclastic</i>	<i>Igneous - intrusive</i>		152	100	211	9864d3
<i>Transitional subaqueous volcanoclastic (reworked)</i>	<i>Igneous - intrusive</i>		83	14	161	530ea1

			<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
<i>Marine subaqueous volcanic sequence - undifferentiated</i>	<i>Igneous - intrusive</i>		81	19	175	5113af
<i>Marine subaqueous - volcano (point sourced)</i>	<i>Igneous - intrusive</i>		75	25	190	4b19be
<i>Marine subaqueous pyroclastic</i>	<i>Igneous - intrusive</i>		176	135	217	b087d9
<i>Marine subaqueous volcanoclastic (reworked)</i>	<i>Igneous - intrusive</i>		44	39	101	2c2765
<i>Intrusive - undifferentiated</i>	<i>Igneous - intrusive</i>		184	7	35	b80723
<i>Intrusive minor sheets-stocks - shallow</i>	<i>Igneous - intrusive</i>		208	77	78	d04d4e
<i>Intrusive minor sheets-stocks - deep</i>	<i>Igneous - intrusive</i>		227	123	122	e37b7a
<i>Intrusive major complex-batholith</i>	<i>Igneous - intrusive</i>		235	145	145	eb9191
<i>Hydrothermal vent complex</i>	<i>Igneous - intrusive</i>		184	59	7	b83b07
<i>Metamorphic - undifferentiated</i>	<i>Metamorphic</i>		143	81	174	8f51ae
<i>Contact metamorphism</i>	<i>Metamorphic</i>		143	81	240	8f51f0
<i>Regional metamorphism</i>	<i>Metamorphic</i>		124	101	135	7c6587
<i>Evaporite undifferentiated</i>	<i>Evaporite continental</i>		241	119	170	f177aa
<i>Platform evaporites undifferentiated</i>	<i>Evaporite platform</i>		241	73	146	f14992
<i>Platform evaporites - ramp</i>	<i>Evaporite platform</i>		187	19	90	bb135a
<i>Platform evaporites - shelf</i>	<i>Evaporite platform</i>		151	11	72	970b48
<i>Slope and basin evaporites undifferentiated</i>	<i>Evaporite slope and basin</i>		210	73	241	d249f1
<i>Slope evaporites</i>	<i>Evaporite slope and basin</i>		190	46	199	be2ec7
<i>Basinal evaporite</i>	<i>Evaporite slope and basin</i>		168	14	159	a80e9f
3rd tier. Subenvironment						
<i>Alluvial fan</i>			242	220	219	f2dcdb
<i>Alluvial plain</i>			220	170	170	dcaaaa
<i>Fluvial</i>			197	133	144	c58590
<i>Incised valley (alluvium constrained)</i>			194	186	187	c2babb
<i>Incised valley (bedrock constrained)</i>			168	150	152	a89698
<i>Incised valley (undifferentiated)</i>			168	136	142	a8888e
<i>Overbank</i>			146	208	80	92d050
<i>Dune complex</i>			248	203	173	f8cbad
<i>Sandsheet</i>			228	223	173	e4dfad
<i>Interdune</i>			228	203	173	e4cbad
<i>Sabkha undifferentiated</i>			252	199	252	fcc7fc
<i>Sabkha</i>			252	199	252	fcc7fc
<i>Lacustrine</i>			197	207	218	c5cfda
<i>Lacustrine delta</i>			140	190	240	8cbef0
<i>Lacustrine non deltaic shoreline</i>			167	175	184	a7afb8
<i>Glacial plain undifferentiated</i>			0	97	48	006130
<i>Glacial delta undifferentiated</i>			0	227	113	00e371
<i>Glacial delta top</i>			27	94	61	1b5e3d
<i>Glacial lake</i>			133	153	143	85998f
<i>Delta front</i>			75	115	75	4b734b
<i>Delta top</i>			118	147	80	769350
<i>Prodelta</i>			217	217	162	d9d9a2
<i>Fan delta</i>			0	102	51	006633
<i>Estuary central basin</i>			160	75	40	a04b28
<i>Supra-tidal</i>			255	171	47	ffab2f
<i>Inter-tidal</i>			255	212	75	ffd44b
<i>Sub-tidal</i>			255	224	122	ffe07a
<i>Barrier complex</i>			255	225	20	ffe114
<i>Barrier inlet</i>			255	102	0	ff6600
<i>Lagoon</i>			140	190	240	8cbef0

			<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
<i>Interdistributary bay</i>			51	102	102	336666
<i>Bay head</i>			255	171	47	ffab2f
<i>Backshore</i>			169	201	109	a9c96d
<i>Coastal plain</i>			225	250	180	e1fab4
<i>Foreshore</i>			242	242	58	f2f23a
<i>Shoreface</i>			204	102	51	cc6633
<i>Shelf</i>			255	255	255	ffffff
<i>Offshore transition zone</i>			217	217	190	d9d9be
<i>Offshore</i>			172	137	0	ac8900
<i>Glacial delta subaqueous undifferentiated</i>			124	222	212	7cded4
<i>Glacial delta front</i>			54	194	180	36c2b4
<i>Glacial delta prodelta</i>			27	110	101	1b6e65
<i>Canyon</i>			92	92	0	5c5c00
<i>Shelf incised canyon</i>			51	51	0	333300
<i>Contourite</i>			175	95	25	af5f19
<i>Channel complex</i>			215	180	0	d7b400
<i>Erosional channel complex</i>			215	180	0	d7b400
<i>Leveed channel complex</i>			204	153	51	cc9933
<i>Structurally confined channel complex</i>			207	170	99	cfaa63
<i>Weakly confined channel complex</i>			215	200	150	d7c896
<i>Lobe complex</i>			102	102	51	666633
<i>Semi confined lobe complex</i>			153	153	51	999933
<i>Confined lobe complex</i>			153	153	102	999966
<i>Mass transport complex</i>			102	153	102	669966
<i>Submarine fan</i>			102	102	51	666633
<i>Perched lobe complex</i>			172	137	0	ac8900
<i>Ponded lobe complex</i>			111	83	3	6f5303
<i>Injectite complex</i>			204	51	0	cc3300
<i>Shelf edge delta</i>			173	160	117	ada075
<i>Pelagic</i>			125	125	125	7d7d7d
<i>Hemipelagic</i>			111	83	3	6f5303
<i>Marginal peritidal</i>			183	233	243	b7e9f3
<i>Salina and Sabkha</i>			165	132	165	a584a5
<i>Salina/Sabkha</i>			165	132	165	a584a5
<i>Lagoon (Crb)</i>			130	150	130	829682
<i>Low energy inner ramp</i>			52	125	144	347d90
<i>High energy inner ramp</i>			133	196	212	85c4d4
<i>Shoreline-detached high energy belt</i>			214	78	235	d64eeb
<i>Low energy platform interior</i>			0	80	100	005064
<i>High energy platform interior</i>			59	147	169	3b93a9
<i>Shoal-margin</i>			31	117	254	1f75fe
<i>Buildup-margin</i>			174	0	201	ae00c9
<i>SE - undifferentiated</i>			160	160	160	a0a0a0
<i>By-pass slope margin</i>			130	130	50	828232
<i>Channel complex (Crb)</i>			215	180	0	d7b400
<i>Crb - Mass transport complex (Crb)</i>			67	76	129	434c81
<i>Contourite (Crb)</i>			140	145	185	8c91b9
<i>Contourite drift - plastered (Crb)</i>			113	120	155	71789b
<i>Contourite drift - sheet (Crb)</i>			87	95	126	575f7e
<i>Contourite drift - base of slope mounded (Crb)</i>			63	71	98	3f4762
<i>Contourite drift - channel-delta-related (Crb)</i>			40	49	71	283147

			R	G	B	html
<i>Basin floor fan</i>			26	72	118	1a4876
<i>Pelagic</i>			122	153	172	7a99ac
<i>Tabular lava flow complex</i>			191	73	81	bf4951
<i>Compound braided lava flow complex</i>			165	79	83	a54f53
<i>Subaerial - volcano (shield volcano - point sourced)</i>			224	123	156	e07b9c
<i>Subaerial - volcano (stratovolcano - point sourced)</i>			194	56	115	c23873
<i>Subaerial - volcano (saldera - point sourced)</i>			182	70	132	b64684
<i>Subaerial - volcano (composite - several vents)</i>			193	83	84	c15354
<i>Maar volcano</i>			111	85	85	6f5555
<i>Pyroclastic complex (proximal)</i>			198	102	172	c666ac
<i>Pyroclastic compex (distal ash - fallout)</i>			167	97	146	a76192
<i>Volcaniclastic</i>			136	91	122	885b7a
<i>Epiclastic</i>			106	84	98	6a5462
<i>Subaqueous lava flow complex</i>			135	52	246	8734f6
<i>Hyaloclastite - undifferentiated</i>			150	68	217	9644d9
<i>Hyaloclastite delta - pro-delta debris flow - reworked</i>			151	99	166	9763a6
<i>Hyaloclastite delta - foresets</i>			142	114	145	8e7291
<i>Pillow lava complex</i>			73	6	80	490650
<i>Sill complex</i>			179	0	50	b30032

			<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.2.2 4th tier. Architectural element						
<i>Aeolian dunes</i>			228	223	173	e4dfad
<i>Dry sandsheet</i>			248	203	173	f8cbad
<i>Dry interdune</i>			228	203	173	e4cbad
<i>Damp interdune</i>			228	223	173	e4dfad
<i>Damp sabkha</i>			238	193	183	eec1b7
<i>Wet sabkha</i>			238	173	193	eeadc1
<i>Evaporite</i>			252	199	252	fc13fc
<i>Sub aerial debris flow</i>			242	220	219	f2dcdb
<i>Sheet, undifferentiated</i>			220	170	170	dcaaaa
<i>Sheetflood</i>			220	170	170	dcaaaa
<i>Fluvial sheetflood</i>			220	170	170	dcaaaa
<i>Abandoned channel fill</i>			102	51	51	663333
<i>Crevasse channel</i>			102	51	0	663300
<i>Crevasse splay sheet</i>			102	81	0	663300
<i>Trunk channel</i>			197	133	144	c58590
<i>Channel belt, multistorey multilateral</i>			79	41	38	4f2926
<i>Channel belt, multistorey undifferentiated fill</i>			105	51	43	69332b
<i>Channel belt, multistorey unilateral</i>			120	56	46	78382e
<i>Channel belt, singlestorey multilateral</i>			204	133	138	cc858a
<i>Channel belt, singlestorey unilateral</i>			227	171	176	e3abb0
<i>Channel belt, undifferentiated fill</i>			235	191	191	ebbfbf
<i>Channel fill</i>			197	133	144	c58590
<i>Incised valley, undifferentiated fill</i>			194	186	187	c2babb
<i>Point bar</i>			102	0	102	660066
<i>Mid-channel bar</i>			153	0	153	990099
<i>Side-attached bar</i>			204	102	204	cc66cc
<i>Bar, undifferentiated</i>			153	102	153	996699
<i>Levee complex</i>			204	153	204	cc99cc
<i>Overbank mudstone</i>			146	208	80	92d050
<i>Paleosol, immature</i>			166	183	80	a6b750
<i>Paleosol, mature</i>			166	172	106	a6ac66
<i>Paleosol, undifferentiated</i>			176	152	106	b0986a
<i>Peat/coal</i>			26	26	26	1a1a1a
<i>Lacustrine beach</i>			204	204	255	ccccff
<i>Lacustrine delta mouth bar</i>			173	221	142	addd8e
<i>Lacustrine distributary channel</i>			197	102	124	c5667c
<i>Lacustrine shoreface</i>			204	204	255	ccccff
<i>Lacustrine turbidite</i>			173	241	142	adf18e
<i>Floodplain lake</i>			204	204	255	ccccff
<i>Lagoon</i>			140	190	240	8cbef0
<i>Lagoonal sandstone, undifferentiated</i>			153	153	204	9999cc
<i>Bay head delta</i>			255	171	47	ffab2f
<i>Crevasse splay</i>			102	81	0	665100
<i>Crevasse delta</i>			51	51	0	333300
<i>Crevasse delta channel</i>			102	51	0	663300
<i>Coastal dune</i>			228	223	173	e4dfad
<i>Beach</i>			204	102	51	cc6633
<i>Barrier complex, undifferentiated</i>			255	225	20	ffe114
<i>Washover fan</i>			71	204	71	47cc47
<i>Tempestite</i>			232	227	208	e8e3d0
<i>Shoreface, undifferentiated</i>			232	232	0	e8e800

			<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
<i>Beach ridge/chenier</i>			224	194	51	e0c233
<i>Upper shoreface</i>			247	224	23	e0e017
<i>Middle shoreface</i>			255	242	161	fff2a1
<i>Lower shoreface</i>			232	227	148	e8e394
<i>Proximal lower shoreface</i>			237	232	173	ede8ad
<i>Distal lower shoreface</i>			237	235	189	edebbd
<i>Rip channel</i>			173	137	0	898900
<i>Wave-dominated bay</i>			120	103	120	786778
<i>Distributary channel</i>			197	102	124	c5667c
<i>Mouth bar</i>			55	135	75	37874b
<i>Delta lobe</i>			75	115	75	4b734b
<i>Upper delta front</i>			118	147	80	769350
<i>Lower delta front</i>			150	168	123	96a87b
<i>Prodelta</i>			217	217	162	d9d9a2
<i>Tidally influenced fluvial bar</i>			93	78	53	5d4e35
<i>Tidally influenced fluvial channel</i>			255	204	153	ffcc99
<i>Tidal point bar</i>			102	78	102	664e66
<i>Tidal creek</i>			197	133	144	c58590
<i>Tidal inlet</i>			204	51	0	cc3300
<i>Tidal sandwave</i>			255	102	0	ff6600
<i>Tidal channel</i>			255	102	51	ff6633
<i>Tidal bar</i>			255	153	51	ff9933
<i>Ebb-tidal delta</i>			0	51	51	003333
<i>Flood-tidal delta</i>			0	102	51	006633
<i>Supra-tidal flat</i>			0	153	51	009933
<i>Supra-tidal sabkha</i>			193	71	108	c1476c
<i>Inter-tidal bar</i>			51	153	102	339966
<i>Inter-tidal flat</i>			51	204	102	33cc66
<i>Inter-tidal sabkha</i>			196	90	122	c45a7a
<i>Sub-tidal flat</i>			51	102	102	336666
<i>Muddy tidal flat</i>			102	255	204	66ffcc
<i>Sandy tidal flat</i>			51	204	153	33cc99
<i>Mixed tidal flat</i>			153	204	153	99cc99
<i>Tidal deposits, undifferentiated</i>			204	244	91	ccf45b
<i>Tidal flat, undifferentiated</i>			190	183	91	beb75b
<i>Bay fill</i>			148	173	182	94adb6
<i>Bay fill mudstone</i>			148	133	132	948584
<i>Sub-bay</i>			168	173	135	a8ad87
<i>Shelf channel, undifferentiated</i>			255	255	105	ffff69
<i>Shelf channel</i>			255	255	105	ffff69
<i>Shelf mudstone</i>			255	255	255	ffffff
<i>Shelf turbidite</i>			255	224	122	ffe07a
<i>Offshore transition</i>			230	230	230	e6e6e6
<i>Offshore bar</i>			255	204	0	ffcc00
<i>Abandoned channel fill</i>			102	51	51	663333
<i>Crevasse channel</i>			102	51	0	663300
<i>Distributary channel</i>			197	102	124	c5667c
<i>Mouth bar</i>			55	135	75	37874b
<i>Delta lobe</i>			75	115	75	4b734b
<i>Canyon fill</i>			92	92	0	5c5c00
<i>Channel element</i>			215	180	0	d7b400
<i>Channel axis</i>			204	153	51	cc9933

			<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
<i>Channel margin</i>			207	170	99	cfaa63
<i>Channel off-axis</i>			215	200	150	d7c896
<i>Channel lobe transition zone</i>			191	148	13	bf940d
<i>High amalgamation zone</i>			237	207	61	edcf3d
<i>Channel fill, undifferentiated</i>			225	180	30	e1b41e
<i>Heterolithic channel fill</i>			102	173	153	66ad99
<i>Sinuuous channel</i>			215	180	0	d7b400
<i>Straight channel</i>			215	180	0	d7b400
<i>Stepped channel</i>			215	180	0	d7b400
<i>Sediment wave</i>			204	153	102	cc9966
<i>Bypass lag</i>			153	51	204	9933cc
<i>Scour fill</i>			204	102	204	cc66cc
<i>Sandy contourite</i>			175	95	25	af5f19
<i>Proximal levee</i>			153	153	102	999966
<i>Distal levee</i>			102	122	51	667a33
<i>External levee</i>			153	255	0	99ff00
<i>Internal levee</i>			153	204	102	99cc66
<i>Levee, undifferentiated</i>			153	153	51	999933
<i>Proximal crevasse splay</i>			102	51	0	663300
<i>Distal crevasse splay</i>			102	81	0	665100
<i>Lobe</i>			102	102	51	666633
<i>Lobe element</i>			102	102	51	666633
<i>Lobe axis</i>			102	51	51	663333
<i>Lobe fringe</i>			153	102	51	996633
<i>Lobe lateral fringe</i>			204	102	51	cc6633
<i>Lobe finger</i>			204	153	102	cc9966
<i>Lobe off-axis</i>			193	119	0	c17700
<i>Lobe distal fringe</i>			102	151	0	669700
<i>Perched lobe</i>			153	204	51	99cc33
<i>Intraslope lobe</i>			102	153	51	669933
<i>Debrite</i>			102	153	132	669984
<i>Mass transport</i>			102	153	102	669966
<i>Slide</i>			153	204	204	99cccc
<i>Slump</i>			102	153	153	669999
<i>Creep</i>			51	204	51	33cc33
<i>Olistolith</i>			52	153	162	3499a2
<i>Mud injectite</i>			255	153	123	ff997b
<i>Sand injectite</i>			255	212	75	ffd44b
<i>Remobilized deposit</i>			255	170	157	ffaa9d
<i>Fluidized deposit</i>			255	133	145	ff8591
<i>Extrudite</i>			153	0	0	990000
<i>Muddy contourite</i>			77	77	77	4d4d4d
<i>Muddy turbidites</i>			102	102	102	666666
<i>Overbank</i>			204	204	204	cccccc
<i>Pelagic mudstone</i>			179	179	179	b3b3b3
<i>Hemipelagic mudstone</i>			111	83	3	0b5303
<i>Terrace</i>			255	153	123	ff997b
<i>Mud vulcano</i>			70	83	95	46535f
<i>Sand vulcano</i>			255	212	75	ffd44b
<i>Vent/spring subaerial travertine/tufa</i>			36	231	84	24e754
<i>Lunette (gypsum aeolian dune)</i>			230	200	230	e6c8e6
<i>Subaerial dune</i>			228	223	173	e4dfad
<i>Swamp</i>			102	255	204	66ffcc

			<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
<i>Skeletal bank</i>			105	110	255	696eff
<i>Evaporitive mudflat (early diagenetic)</i>			252	199	252	fcc7fc
<i>Carbonate mudflat</i>			100	120	150	647896
<i>Microbial mudflat</i>			101	151	111	65976f
<i>Subaqueous dune</i>			170	200	230	aac8e6
<i>Barrier island</i>			255	255	20	ffe114
<i>Shoal undifferentiated</i>			31	117	254	1f75fe
<i>Shoal complex</i>			71	139	155	478b9b
<i>Shoal organic/skeletal</i>			104	160	255	68a0ff
<i>Shoal intertidal</i>			135	180	254	87b4fe
<i>Foreshoal</i>			0	125	209	007dd1
<i>Backshoal</i>			0	106	180	006ab4
<i>Buildup undifferentiated</i>			174	0	201	ae00c9
<i>Mound undifferentiated</i>			111	0	255	6f00ff
<i>Microbialite</i>			130	150	130	829682
<i>Stromatolite</i>			156	178	156	9cb29c
<i>Thrombolite</i>			156	178	156	9cb29c
<i>Algal mound</i>			198	13	3	c60d03
<i>Bioclastic mound</i>			249	84	47	f9542f
<i>Mud-mound</i>			249	52	78	f9344e
<i>Skeletal mound</i>			216	89	80	d85950
<i>Vent related mound</i>			252	123	132	fc7b84
<i>Bioherm</i>			244	208	154	f4d09a
<i>Biostrome</i>			237	191	40	edbf28
<i>Biostrome - grain-rich matrix</i>			206	140	33	ce8c21
<i>Biostrome - mud-rich matrix</i>			198	114	65	c67241
<i>Patch reef</i>			165	226	59	a5e23b
<i>Patch reef complex</i>			11	193	154	0bc19a
<i>Reef core</i>			33	206	90	21ce5a
<i>Back reef</i>			102	214	138	66d68a
<i>Fore reef</i>			48	201	191	30c9bf
<i>Inter-buildup/mound</i>			122	122	122	7a7a7a
<i>Intra-buildup</i>			161	161	161	a1a1a1
<i>Ridge-mound undifferentiated</i>			174	0	201	ae00c9
<i>Ridge-mound chevron</i>			152	106	201	986ac9
<i>Ridge-mound domical</i>			193	145	247	c191f7
<i>Ridge-mound tabular</i>			86	37	145	562591
<i>Cliniform undifferentiated</i>			81	182	249	51b6f9
<i>Cliniform oblique (tangential)</i>			15	33	229	0f21e5
<i>Cliniform oblique (parallel)</i>			49	160	254	31a0fe
<i>Cliniform sigmoid</i>			20	72	214	1448d6
<i>Cliniform complex sigmoid oblique</i>			16	129	225	1081e1
<i>Cliniform margin</i>			62	49	183	3e31b7
<i>Cliniform platform interior</i>			123	208	237	7bd0ed
<i>Cliniform oblique down-stepping</i>			95	174	198	5faec6
<i>Cliniform shingled</i>			55	93	163	375da3
<i>Margin wall</i>			167	90	190	a75abe
<i>Escarpment</i>			125	65	144	7d4190
<i>Accretionary slope</i>			90	150	255	5a96ff
<i>Breccia undifferentiated</i>			118	184	150	76b896
<i>Shoreline/desiccation breccia</i>			73	227	141	49e38d
<i>Slope breccia</i>			2	255	124	02ff7c
<i>Solution and collapse breccia</i>			1	147	71	019347
<i>Tectonic breccia</i>			31	126	75	1f7e4b
<i>Hydrothermal breccia</i>			53	95	74	355f4a
<i>Karst undifferentiated</i>			255	0	255	ff00ff
<i>Talus</i>			203	227	181	cbe3b5

			<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
<i>Carbonate turbidite</i>			255	224	122	ffe07a
<i>Chalk - in situ</i>			171	80	166	ab50a6
<i>Chalk redeposited</i>			205	91	164	cd5ba4
<i>Chalk debris flow</i>			250	83	210	fa53d2
<i>Chalk slump</i>			102	153	153	669999
<i>Grainy contourite</i>			158	158	158	9e9e9e
<i>Heterolithic contourite</i>			117	117	117	757575
<i>Organic-rich carbonate</i>			102	102	0	666600
<i>Carbonate mudstone</i>			78	105	173	4e69ad
<i>Till</i>			171	235	0	abeb00
<i>Overcompacted till /traction till</i>			100	181	136	64b588
<i>Deformation till</i>			1	71	33	014721
<i>Boulder pavement</i>			172	189	179	acbdb3
<i>Ice marginal moraine</i>			89	102	85	596655
<i>Esker</i>			194	157	54	c29d36
<i>Drumlin / multi-scale glacial lineations</i>			28	107	64	1c6b40
<i>Glacial outwash plain / sandur</i>			219	164	13	dba40d
<i>Tunnel valley</i>			168	69	27	a8451b
<i>Glaciomarine mudstone</i>			158	235	255	9eebff
<i>Lava flow - undifferentiated</i>			44	39	101	2c2765
<i>Lava flow upper crust</i>			52	40	103	342867
<i>Lava flow massive interior</i>			59	41	104	3b2968
<i>Lava flow lower crust</i>			66	41	106	42296a
<i>Lava flow crust autobreccia (transitional/aa lava)</i>			72	42	107	482a6b
<i>Ponded lava colonnade</i>			79	43	108	4f2b6c
<i>Ponded lava entablature</i>			85	43	109	552b6d
<i>Lava tube</i>			91	44	110	5b2c6e
<i>Invasive lava flow</i>			98	44	111	622c6f
<i>Cinder cone</i>			104	45	112	682d70
<i>Rootless cone</i>			110	45	112	6e2d70
<i>Volcaniclastic fan (breccia)</i>			116	46	113	742e71
<i>Epiclastic fan (breccia)</i>			122	47	113	7a2f71
<i>Volcaniclastic (undifferentiated)</i>			127	48	113	7f3071
<i>Volcaniclastic (fluvial conglomerate)</i>			133	48	113	853071
<i>Epiclastic (fluvial conglomerate)</i>			138	49	113	8a3171
<i>Volcaniclastic (sand)</i>			144	50	112	903270
<i>Epiclastic (sand)</i>			149	51	112	953370
<i>Volcaniclastic (mud or silt)</i>			155	52	112	9b3470
<i>Epiclastic (mud or silt)</i>			160	54	111	a0366f
<i>Lahar</i>			165	55	110	a5376e
<i>Pyroclastic scoria</i>			170	57	109	aa396d
<i>Pyroclastic agglutinate</i>			174	59	109	ae3b6d
<i>Pyroclastic ignimbrite unwelded</i>			179	61	108	b33d6c
<i>Pyroclastic ignimbrite welded</i>			184	63	106	b83f6a
<i>Hyaloclastite breccia</i>			188	65	105	bc4169
<i>Hyaloclastite (wave or current reworked)</i>			192	67	104	c04368
<i>Volcanic debris flow</i>			196	70	103	c44667
<i>Peperite (dynamic lava-sediment mingling)</i>			200	73	101	c84965
<i>Subaqueous sheet flow</i>			204	76	100	cc4c64
<i>Pillow lava</i>			208	79	98	d04f62
<i>Dike</i>			211	82	97	d35261
<i>Sill</i>			215	85	95	d7555f
<i>Aureole</i>			218	88	94	da585e
<i>Vent agglomerate</i>			221	92	92	dd5c5c
<i>Stock or plug</i>			219	109	89	db6d59
<i>Weathering - undifferentiated</i>			216	208	220	d8d0dc

<i>Parent GDE</i>			<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
<i>Salina or evaporite pan</i>			255	200	255	ffc8ff
<i>Evaporite turbidite</i>			145	105	145	916991
<i>Layered evaporite</i>			107	77	107	6b4d6b
<i>Undifferentiated</i>			255	255	255	ffffff

		R	G	B	html
6.3 Bergartstyper					
6.3 Rock types					
6.3.1 Epiklastiske bergarter					
6.3.1 Epiclastic rocks					
Konglomerat <i>Conglomerate</i>		255	193	0	ffd100
Sedimentær breksje <i>Sedimentary breccia</i>		255	193	0	ffd100
Sandstein <i>Sandstone</i>		255	247	143	fff78f
Siltstein <i>Siltstone</i>		179	212	84	b3d454
Slamstein <i>Mudstone</i>		31	180	108	1fb46c
Leirstein <i>Claystone</i>		101	167	64	65a740
Skifrig siltstein <i>Fissile siltstone</i>		179	212	84	b3d454
Skifrig slamstein <i>Fissil mudstone</i>		31	180	108	1fb46c
Skifrig leirstein <i>Shale</i>		136	112	0	887000
Grey silty clay		197	179	115	c5b373
6.3.2 Karbonatbergarter					
6.3.2 Carbonate rocks					
Kalkstein <i>Limestone</i>		0	165	203	00a5cb
Dolomittisk kalkstein <i>Dolomitic limestone</i>		0	155	219	009bdb
Dolomittstein <i>Dolostone</i>		54	17	99	361163
Kalkh. dolomittstein <i>Calcareous dolostone</i>		115	173	222	73adde
Kritt <i>Chalk</i>		0	181	214	00b5d6
Mergel <i>Marl</i>		98	200	206	62c8ce
Koraller <i>Spiculities</i>		214	133	137	d68589
6.3.3 Evaporittbergarter					
6.3.3 Evaporitic rocks					
Gips <i>Gypsum</i>		241	119	170	f177aa
Anhydritt <i>Anhydrite</i>		241	119	170	f177aa
Gips/Anhydritt <i>Gypsum/Anhydrite</i>		241	119	170	f177aa
Steinsalt <i>Halite</i>		246	160	169	f6a0a9
Salt generelt <i>Salt</i>		246	160	169	f6a0a9

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.3.4 Kull					
6.3.4 Coal					
Kull <i>Coal</i>		0	0	0	000000
Brun kull <i>Brown coal</i>		76	75	57	4c4b39
6.3.5 Magmatiske bergarter					
6.3.5 Magmatic rocks					
Vulkanske bergarter Volcanic rocks					
Vulkanske bergarter generelt <i>Volcanic rocks</i>		255	50	50	ff3232
Dypbergarter Plutonic rocks					
Dypbergarter generelt <i>Intrusive (plutonic) rocks</i>		251	184	141	fb88d
Silisiske dypbergarter/sills <i>Silicic plutonic rocks</i>		240	81	70	f05146
Mafiske dypbergarter <i>Mafic plutonic rocks</i>		128	69	0	804500
Ooze		119	110	85	776e55
Gangbergarter Dykes and sills					
Gangbergarter generelt <i>Dykes and sills</i>		75	57	0	4b3900
6.3.6 Metamorfe bergarter					
6.3.6 Metamorphic rocks					
Metamorfe bergarter generelt <i>Metamorphic rocks</i>		245	127	51	f57f33
6.3.7 Kombinerte symboler					
6.3.7 Combined symbols					
Tuffit <i>Tuffitt</i>		211	128	181	d380b5
Bitumerik <i>Bitumenious</i>		235	220	175	ebdcaf
Tuffit og Bitumerik kombineres med symboler for andre bergarter f eks for leirstein <i>Tuffitt and Bitumenious to combine with symbols for other rocks, i e claystone</i>					

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.4 Vanndyp					
6.4 Water depths					
Vanndyp 0 - 200 m <i>Water depth 0 - 200 m</i>		157	214	237	9dd6ed
Vanndyp 200 - 300m <i>Water depth 200 - 300m</i>		138	199	235	8ac7eb
Vanndyp 300 - 500m <i>Water depth 300 - 500m</i>		114	179	232	72b3e8
Vanndyp 500-1000m <i>Water depth 500-1000m</i>		64	145	227	4091e3
Vanndyp 1000-1500m <i>Water depth 1000-1500m</i>		33	118	217	2176d9
Vanndyp 1500-2000m <i>Water depth 1500-2000m</i>		32	94	201	205ec9
Vanndyp 2000-2500m <i>Water depth 2000-2500m</i>		32	73	186	2049ba
Vanndyp 2500-3000m <i>Water depth 2500-3000m</i>		28	55	176	1c37b0
Vanndyp >3000m <i>Water depth >3000m</i>		23	40	166	1728a6
6.5 Tektoniske elementer					
6.5 Tectonic elements					
Grunt basseng <i>Shallow basin</i>		196	229	249	c4e5f9
Dypt basseng <i>Deep basin</i>		0	165	203	00a5cb
Plattform og terrasse <i>Platform and terrace</i>		0	171	101	00ab65
Høyde <i>High</i>		255	209	0	ffd100
<i>Shelf</i>		225	235	207	e1ebcf
<i>Slope/shelf</i>		177	187	47	b1bb2f
<i>Basin floor</i>		93	129	60	5d813c
<i>Cenozoic high</i>		255	255	115	fff73
<i>Volcanic rocks</i>		255	50	50	ff3232
<i>Upper crust</i>		179	179	179	b3b3b3
<i>Middle crust</i>		199	178	153	C7B299
<i>Lower crust</i>		128	110	100	806E64
<i>LCB (Lower crystal body)</i>		255	0	255	806E64
<i>Mantle rock</i>		170	170	225	AAAAFF

								R	G	B	html
6.6 Tilleggsfarger											
6.6 Additional colours											
		Back-ground	R	G	B	html	45° stripe	R	G	B	html
Humid terrestrial shales			136	112	0	887000	2pkt	117	190	223	75bee9
Arid terrestrial shales			207	198	153	cfc699					
Lacustrine			101	167	64	65a740					
Alluvial fans			255	247	143	fff78f	2pkt	179	212	84	b3d454
Marine shales and mudstone			136	112	0	887000	2pkt	77	180	108	4db46c
Organic rich shale			184	169	102	b8a966					
Extrusives			208	162	203	d0a2cb					
Hiatus			255	255	255	ffffff					
URU Upper regional unconformity			190	190	190	bebebe					
6.7 Seismisk fasieskart											
6.7 Seismic facies map											
Haugformet og drapert refleksjonsmønster <i>Mounded and draped reflection pattern</i>			255	200	51	ffc833					
Prograderende refleksjonsmønster <i>Prograding reflection pattern</i>			164	153	140	a4998c					
Pålapp og fyllrefleksjonsmønster <i>Onlap and fill reflection pattern</i>			212	231	176	d4e7b0					
Parallelt og divergent refleksjonsmønster <i>Parallel and divergent reflection pattern</i>			179	145	10	b3910a					
Stratigrafisk brudd (kondensering mest sannsynlig) <i>Stratigraphic break (condensed section most probable)</i>			241	119	170	f177aa					
Erosjon <i>Erosion</i>			226	0	124	e2007c					
Øvre del av sekvensen/ enheten er erodert <i>Upper part of the sequence/unit is eroded</i>											
6.8 Risk											
6.8 CRS											
High			255	190	190	ffbebe					
Moderate			255	255	115	ffff73					
Low			211	255	190	d3ffbe					

			R	G	B	html
6.9 Modningsgrad						
6.9 Maturity level						
Karbonatbergarter						
Carbonate rocks						
Umoden, ingen hydrokarbondannelse			210	202	193	d2cac1
Immature, no hydro-carbon generation						
Umoden -tidlig gass			255	247	143	fff78f
Immature, early gas						
Tidlig olje			0	102	0	006600
Early oil						
Olje			2	219	0	02db00
Oil						
Olje/våt gass			98	200	206	62c8ce
Oil/wet gas						
Våt gass/tørr gass			241	119	170	f177aa
Wet gas /dry gas						
Tørr gass			255	0	0	ff0000
Dry gas						
Overmoden			176	63	151	b03f97
Postmature						
6.9.1 Transformation ratio						
6.9.1 Transformation ratio						
Kerogen type II						
0-15	Immature		210	202	193	d2cac1
15-35	Early oil		0	102	0	006600
35-60	Main oil		2	219	0	02db00
60-80	Oil and gas		98	200	206	62c8ce
80-98	Gas		255	0	0	ff0000
99-100	Postmature		176	63	151	b03f97
Kerogen type III						
0-20	Immature		210	202	193	d2cac1
20-60	Wet gas		241	119	170	f177aa
60-98	Gas		255	0	0	ff0000
98-100	Postmature		176	63	151	b03f97
6.9.2 Easy %RO						
6.9.2 Easy %RO						
Kerogen type II						
0.55	Immature		210	202	193	d2cac1
0.55-0.65	Early oil		0	102	0	006600
0.65-0.9	Main oil		2	219	0	02db00
0.9-1.35	Late oil (oil/wet gas)		98	200	206	62c8ce
1.35-2.0	Wet gas/condensate		241	119	170	f177aa
2.0-3.99	Dry gas		255	0	0	ff0000
4.0	Postmature		176	63	151	b03f97

		R	G	B	html
6.10					
6.10 SR richness and quality					
6.10.1					
6.10.1 Source rock richness for clastic source rocks					
(after Cooles, 1985; Cornford; 1998, and Peters et al., 2005)					
No source rock: 0-0.5 wt% TOC		210	202	193	d2cac1
Poor source rock: 0.5-1 wt% TOC		255	0	0	ff0000
Fair source rock: 1-2 wt% TOC		241	119	170	f177aa
Good source rock: 2-4 wt% TOC		98	200	206	62c8ce
Very good source rock: 4-12 wt% TOC		0	102	0	006600
Excellent source rock: 12-50 wt% TOC		2	219	0	02db00
Coal: >50 wt% TOC		0	0	0	000000
6.10.2					
6.10.2 Source rock richness for carbonate source rocks					
(after Cooles, 1985; Cornford; 1998, and Peters et al., 2005)					
No source rock: 0-0.3 wt% TOC		210	202	193	d2cac1
Poor source rock: 0.3-0.5 wt% TOC		255	0	0	ff0000
Fair source rock: 0.5-1 wt% TOC		241	119	170	f177aa
Good source rock: 1-2 wt% TOC		98	200	206	62c8ce
Very good source rock: 2-6 wt% TOC		0	102	0	006600
Excellent source rock: >6 wt% TOC		2	219	0	02db00
Coal: >50 wt% TOC		0	0	0	000000
6.10.3					
6.10.3 Source rock quality, based on Hydrogen Index					
(after Cornford 1998)					
Inert: <50 mg HC/g TOC		210	202	193	d2cac1
Gas prone: 50-200 mg HC/g TOC		255	0	0	ff0000
Gas and oil prone: 200-300 mg HC/g TOC		98	200	206	62c8ce
Oil prone: >300 mg HC/g TOC		2	219	0	02db00
6.11 Grunnelementer					
6.11 Basic elements					
Predevonske bergarter <i>Predevonian rocks</i>		240	81	70	f05146
Havbunnsskorpe <i>Oceanic crust/ consolidated crust</i>		203	153	255	cb99ff
Landområder <i>Land area</i>		252	200	171	fcc8ab
Grunnfjell <i>Basement</i>		206	49	49	ce3131

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.12 Hydrokarbontype					
6.12 Hydrocarbon type					
Olje <i>Oil</i>		2	219	0	02db00
Kondensat <i>Condensate</i>		255	190	232	ffbee8
Gass <i>Gas</i>		255	0	0	ff0000
Olje/gass <i>Oil/gas</i>		2 255	219 0	0 0	02db00 ff0000
Gass/kondensat <i>Gas/condensate</i>		255 255	0 190	0 232	ff0000 ffbee8
<i>Gas hydrates</i>		176	63	151	b03f97
Hydrokarboner <i>Hydrocarbons</i>		255	203	5	ffcb05
<i>Unknown</i>		96	131	168	6083a8
6.12.1 Shows					
6.12.1 Shows					
<i>Proven oil zone</i>		0	153	0	009900
<i>Oil shows</i>		0	255	0	00ff00
<i>Oil traces</i>		230	255	230	e6ffe6
<i>Proven oil & gas zones</i>		153	51	0	993300
<i>Oil and gas shows</i>		204	153	0	cc9900
<i>Proven gas zone</i>		255	0	0	ff0000
<i>Gas shows</i>		255	128	128	ff8080
<i>Gas traces</i>		255	230	230	ffe6e6
<i>No shows</i>		204	204	204	cccccc
<i>Petroleum proximity</i>		178	236	255	b2ecff
<i>Contamination</i>		255	255	0	ffff00
<i>Unsampled section</i>		248	182	140	f8b68c
6.12.2 CO₂					
6.12.2 CO₂					
CO ₂		210	189	102	cdbd66

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.13 Prospekt 6.13 Prospect					
Prospekt <i>Prospect</i>		255	255	0	ffff00
Prospektmulighet <i>Lead</i>		245	132	31	f5841f
Lav mengde (P90) <i>Low side volume</i>		251	170	41	fbaa29
Forventet mengde <i>Expected amount Mean</i>		255	255	0	ffff00
Høy mengde (P10) <i>High side volume</i>		255	255	190	ffffbe
<i>Dry areas</i>		156	156	156	9c9c9c
Flatflekk <i>Flat spot</i>		255	255	0	ffff00
6.13.1 Prospektrelatert 6.13.1 Prospect related					
Seal <i>Takbergart</i>		136	122	112	887a70
<i>SBL receiver</i>		255	242	24	fff218
Juxtaposition <i>Sidestilling</i>		115	223	255	73dfff
Spill point <i>Spillpunkt</i>		0	197	255	00c5ff
Apex <i>Toppunkt</i>		0	92	230	005ce6
Migration route <i>Migrasjonsrute</i>		241	88	66	f15842
6.14 Blokkstatus 6.14 Block status					
Tilbudt areal <i>Offered acreage</i>		190 105	232 230	255 252	bee8ff 69e6fc
Utlyst areal/utlyste blokker <i>Announced area/announced blocks</i>		255	190	190	ee2d27
<i>Licensing, APA open, stratigraphic</i>		255	190	190	ffbebe
<i>Licensing, APA open, full</i>		230	0	0	e60000
Omsøkt areal <i>Area applied for</i>		238	45	39	ee2d27
Omsøkt areal, stratigrafisk lisens <i>Area applied for, stratigraphic licence</i>		180	0	0	b40000
Lisensbelagte områder <i>Licenced areas</i>		191	191	189	bfbfbd
Seismikkområder <i>Seismic areas</i>		0	0	0	000000
<i>Business areas (units)</i>		255	255	0	fff200
<i>AFEX, Area Fee Exemption</i>		154	198	255	9ac6ff
<i>Area with stratigraphic licensing</i>		198 137	198 136	198 135	c6c6c5 888887

		R	G	B	html
6.14.1 Arealstatuskart					
6.14.1 Area map					
Åpnet for petroleumsvirksomhet		142	201	122	8ec97a
Åpnet, spesielle ordninger, ref. Meld.St. 10 (2010-2011)		243	231	126	f3e77e
Tildeling i forhåndsdefinerte områder (TFO) <i>Award in predefined areas (APA)</i>		230	0	0	e60000
Antatt grense mot dyphavet for sedimentære bergarter som kan inneholde petroleum		52	52	52	343434
Internasjonal grense (Grense - norsk sokkel ihht Havrettskonvensjonen) <i>International border</i>		170	170	170	aaaaaa
6.15 Metningsgrad					
6.15 Saturation					
God <i>Good</i>		98	194	161	62c2a1
Middels <i>Medium</i>		254	195	87	fec357
Dårlig <i>Poor</i>		245	142	121	f58e79
Normal moderat <i>Normal moderate</i>		254 245	195 142	87 121	fec357 f58e79
6.16 Sekvensstratigrafi					
6.16 Sequence stratigraphy					
(SB1 eller SB2) Sekvensgrense <i>(SB1 eller SB2) Sequence boundary</i>		237	32	36	ed2024
(HTS) Høystand systemrekke <i>(HTS) Høystand systemrekke</i>		251	170	41	fbaa29
(MFS) Maksimum oversvømmelsesflate <i>(MFS) Maximum flooding surface</i>		16	154	72	109a48
(CS) Kondensat lagpakke <i>(CS) Condensed section</i>		0	171	101	00ab65
(TST) Transgressiv høystand systemrekke <i>(TST) Transgressive høystand systemrekke</i>		23	101	51	176533
(TS) Transgressiv overflate <i>(TS) Transgressive surface</i>		40	174	228	28aee4
(PW) Prograderende kile <i>(PW) Prograding wedge</i>		247	148	80	f79450
(TSFS) Nedlappsflate på skråningsvifte <i>(TSFS) Downlap surface on slope fan</i>		16	154	72	109a48
(SF) Skråningsvifte <i>(SF) Slope fan</i>		240	80	42	f0502a
(TBFS) Nedlappflate på bassengbunnvifte <i>(TBFS) Downlap surface on basin floor fan</i>		16	154	72	109a48
(BF) Bassengbunnvifte <i>(BF) Basin floor fan</i>		254	230	75	fee64b
(TS) Transgressiv flate <i>(TS) Transgressive surface</i>		40	174	228	28aee4
(SMST) Sokkelkant systemrekke <i>(SMST) Shelf margin systems tract</i>		247	236	19	f7ec13

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
Korrelasjoner <i>Correlations</i>		24	24	24	181818
Reflektorendepunkter <i>Reflection terminations</i>		237	32	36	ed2024
Parasekvensflate <i>Parasequence surface</i>		113	205	244	71cdf4
Karbonatdominerende facies <i>Carbonate prone facies</i>		95	138	173	5f8aad
Sand-dominerende facies (transgressiv pro-graderende) eller kanal-sandhauger (bestående vesentlig av sand) <i>Sandprone facies (transgressive, prograding) and channel sand (sand prone mounds)</i>		251	244	156	fbf49c
Dalfyll <i>Incised valleyfill</i>		247	183	27	f7b71b
6.17 Fargeskala for permeabilitetskart 6.17 Colour scale for permeability maps					
High		117	26	27	751a1b
		126	27	33	7e1b21
		150	77	19	964d13
		201	94	40	c95e28
		188	152	92	bc985c
		245	127	51	f57f33
		251	170	41	fbaa29
		255	200	51	ffc833
		255	238	0	ffee00
Low		255	247	143	fff78f

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.18 Fargeskala for flateformkart, tid dyp, mektighets-, tykkelses- og tidsdifferansekart 6.18 Colour scale for structural time, depth, isopach, isochore and isochrone maps					
Shallow/thin		255	3	87	ff0357
		255	38	56	ff2638
		255	70	28	ff461c
		255	106	13	ff6a0d
		255	140	0	ff8c00
		255	179	0	ffb300
		255	208	0	ffd000
		255	238	0	ffee00
		255	251	0	fffb00
		238	255	0	eeff00
		204	255	0	ccff00
		162	237	0	a2ed00
		120	212	0	78d400
		79	173	2	4fad02
		49	158	27	319e1b
		16	161	55	10a137
		4	189	87	04bd57
		0	224	127	00e07f
		0	217	166	00d9a6
		0	196	214	00c4d6
		0	149	255	0095ff
		0	102	255	0066ff
		41	52	255	2934ff
		81	33	255	5121ff
		115	0	255	7300ff
		153	0	255	9900ff
		187	0	255	bb00ff
Deep/thick		225	0	255	e100ff

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.19 Fargeskala for porøsitetskart 6.19 Colour scale for porosity maps					
Low		255	247	143	fff78f
		255	244	101	fff465
		255	238	0	ffee00
		255	209	0	ffd100
		255	200	51	ffc833
		251	170	41	fbaa29
		245	127	51	f57f33
		225	125	28	e17d1c
		244	120	48	f47830
		238	48	79	ee304f
		246	160	169	f6a0a9
		241	119	170	f177aa
		225	42	145	e12a91
High		165	76	157	a54c9d
6.20 Fargeskala for netto/bruttokart 6.20 Colour scale for net/gross maps					
Low		0	164	121	00a479
		0	174	142	00ae8e
		31	180	108	1fb46c
		111	192	93	6fc05d
		157	206	107	9dce6b
		179	212	84	b3d454
		216	225	85	d8e155
		225	229	88	e1e558
		212	231	176	d4e7b0
		255	238	0	ffee00
High		255	247	143	fff78f

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.21 Fargeskala for temperaturkart					
6.21 Colour scale for temperature maps					
High		255	0	0	ff0000
		255	51	0	ff3300
		255	81	0	ff5100
		255	102	0	ff6600
		244	128	0	ff8000
		255	149	0	ff9500
		255	170	0	ffaa00
		255	195	0	ffc300
		255	217	0	ffd900
		255	238	0	ffee00
		251	255	25	fbff19
		239	255	59	efff3b
		224	255	84	e0ff54
		207	255	110	cfff6e
		192	255	133	c0ff85
		150	255	175	96ffaf
		125	255	201	7dfc9
		92	255	222	5cffde
		46	255	245	2efff5
		28	240	255	1cf0ff
		43	213	255	2bd5ff
		54	188	255	36bcff
		59	160	255	3ba0ff
		59	137	255	3b89ff
		56	112	255	3870ff
		51	88	255	3358ff
		43	65	255	2b41ff
Low		33	44	255	212cff

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.22 Fargeskala for vannmetningskart					
6.22 Colour scale for water saturation maps					
High		132	0	168	8400a8
		37	0	199	2500c7
		0	92	230	005ce6
		115	222	255	73deff
		56	168	0	38a800
		76	230	0	4ce600
		255	255	0	ffff00
		255	85	0	ff5500
		211	35	0	d32300
Low		168	0	0	a80000

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.23 Fargeskala for amplitudekart					
6.23 Colour scale for amplitude maps					
		255	251	170	fffbaa
		255	246	85	fff655
		255	242	0	fff200
		251	195	15	fbcb30f
		247	148	30	f7941e
		237	28	36	ed1c24
		190	73	29	be491d
		142	119	22	8e7716
		95	164	14	5fa40e
		47	210	7	2fd207
		0	255	0	00ff00
		0	219	32	00db20
		0	166	81	00a651
		4	187	125	04bb7d
		8	209	168	08d1a8
		11	230	212	0be6d4
		15	251	255	0ffbff
		8	213	247	08d5f7
		0	174	239	00aeef
		23	112	193	1770c1
		46	49	146	2e3192
		79	46	145	4f2e91
		113	42	144	712a90
		146	39	143	92278f
		176	26	142	b01a8e
		206	13	141	ce0d8d
		236	0	140	ec008c
		189	10	122	bd0a7a
		142	20	104	8e1468
		94	31	87	5e1f57
		47	41	69	2f2945
		0	51	51	003333

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.24 Fargeskala for magnetisk anomalikart					
6.24 Colour scale for magnetic anomaly maps					
High		255	207	255	ffcfff
		255	160	255	ffa0ff
		255	112	255	ff70ff
		246	56	198	f638c6
		236	0	140	ec008c
		246	0	70	f60046
		255	0	0	ff0000
		255	51	0	ff3300
		255	98	0	ff6200
		255	136	0	ff8800
		255	153	0	ff9900
		255	170	0	ffaa00
		255	183	0	ffb700
		255	196	0	ffc400
		255	221	0	ffdd00
		255	242	0	fff200
		251	255	0	fbff00
		228	255	0	e4ff00
		204	255	0	ccff00
		157	255	0	9dff00
		106	255	0	6aff00
		70	255	32	46ff20
		33	255	63	21ff3f
		46	255	116	2eff74
		46	255	164	2effa4
		36	255	218	24ffda
		28	240	255	1cf0ff
		38	202	255	26caff
		49	165	255	31a5ff
		59	127	255	3b7fff
		48	76	255	304cff
Low		13	17	255	0d11ff

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.25 Operatør 6.25 Operator					
Equinor Energy AS		104	230	252	68e6fc
No operator		241	221	236	f1ddec
Under negotiation		251	184	141	ffb88d
6.26 Strukturelementkart 6.26 Structural element maps					
6.26.1 Forkastninger og grenser 6.26.1 Faults and boundaries					
<i>Escarpment</i>					
<i>Minor escarpment</i>					
<i>Truncation</i>					
<i>Boundary of lavas/Inner flow'</i>		255	0	197	ff00c5
<i>Continent-ocean boundary (COB)</i>		197	0	255	c500ff
<i>Faults</i>		0	0	0	000000
<i>Erosion line</i>		255	0	0	ff0000
<i>Oceanic magnetic anomaly</i>		115	255	223	73ffdf
<i>Other geological boundaries</i>		230	0	169	e600a9
<i>Subcrop of base Cretaceous below Quarternary</i>		230	76	0	e64c00
<i>Subcrop of top Basement below Quarternary</i>		0	92	230	005ce6
6.26.2 Domes 6.26.2 Domes					
<i>Domes</i>		255	249	176	fff9b0
Helland-Hansen-hvelvet		211	255	190	d3ffbe
Modgunnhvelvet		232	190	255	e8beff
Naglfardomen		190	210	255	bed2ff
Ormen Lange-domen		255	255	190	ffffbe
Vemadomen		255	167	127	ffa77f

		<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.26.3 Strukturelementer 6.26.3 Structural elements					
<i>Seabed</i>		117	190	233	75bee9
<i>Domes</i>		255	249	176	fff9b0
<i>Cretaceous high</i>		224	255	140	e0ff8c
<i>Deep Cretaceous basin</i>		183	219	76	b7db4c
<i>Marginal volcanic high</i>		204	153	255	cc99ff
<i>Volcanics</i>		204	204	255	ccccff
<i>Erosion</i>		249	193	211	f9c1d3
<i>Platform</i>		183	220	255	b7dcff
<i>Pre-Jurassic basin in platform</i>		220	226	232	dce2e8
<i>Palaeozoic high in platform</i>		148	148	148	949494
<i>Shallow Cretaceous basin in platform</i>		125	190	254	7dbefe
<i>Terraces and intra-basinal elevations</i>		132	194	163	84c2a3
<i>Oceanic crust / consolidated crust</i>		203	153	255	cb99ff

		<i>Back-ground</i>	<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>	<i>45° stripe</i>	<i>R</i>	<i>G</i>	<i>B</i>	<i>html</i>
6.27 Andre symbol 6.27 Other symbols											
<i>OWC oil-water contact</i>		<i>dash gap 4 pt</i>	2	219	0	ff0000	<i>illustrator graphic style. Black line 1.5 pt, red line 1 pt.</i>				
<i>GWC gas-water contact</i>		<i>dash gap 4 pt</i>	255	0	0	02db00	<i>illustrator graphic style. Black line 1.5 pt, green line 1 pt.</i>				
<i>CSEM towline</i>			0	169	230	00a9e6					
<i>CSEM receiver</i>			0	169	230	00a9e6					
<i>Seismic line/ Seismic profile Geoseismic profile</i>			0	112	255	0070ff					
<i>Well correlation</i>			240	84	70	f05446					

6.28 Symboler for bassengtekttonisk stratigrafi

6.28 Symbols for basintectonic stratigraphy

Potential reservoirs		R	G	B	html
Terrestrial clastics /red beds		255	208	0	ffd000
Shallow marine clastics		252	237	98	fcce62
Deep marine clastics		255	247	180	fff7b4
Tectonic event symbols					
Tectonic episode major		255	255	255	ffffff
Tectonic episode moderate		255	255	255	ffffff
Extension		153	217	232	99d9e8
Compression		245	175	175	f5afaf
Halokinesis diapirism		125	188	89	7dbc59
Strike or oblique slip					
Regional uplift		199	95	42	c75f2a
Igneous activity		247	50	63	f7323f
Source symbols					
Proven major source rock - high impact discoveries		119	146	60	77923c
Proven source rock - medium / small discoveries		169	215	155	c4d79b
Speculative source rock		235	240	222	ebf0de

	Back-ground	R	G	B	html	45° stripe	R	G	B	html
Reservoir symbols										
Proven terrestrial clastic reservoir		255	208	0	ffd000					
Proven margin to shallow marine clastic reservoirs		252	237	98	fcce62					
Expected margin to shallow marine clastic reservoirs		255	255	255	ffffff	2.5 pkt + 3 pkt	252	237	98	fcce62
Proven deep-marine clastic reservoirs		255	247	180	fff7b4					
Expected deep-marine clastic reservoirs		255	255	255	ffffff	2.5 pkt + 3 pkt	255	247	180	fff7b4
Proven carbonate reservoirs		92	195	240	5cc3f0					
Expected carbonate reservoirs		255	255	255	ffffff	3 pkt	92	195	240	5cc3f0
Regional seal		255	255	255	ffffff	3 pkt	220	220	220	dcdcdc
Trap		254	219	167	fedba7					
Critical moment		227	0	27	e3001b					

7.

Vedlegg/Appendix



7.1 Liste over tillatte karttyper	7.1 List of accepted map types
Grunnlagskart	Basic maps
Aktivitetskart	Activity map
Lokasjonskart	Location map
Underlagskart	Base map
Vanndypskart	Bathymetry map
Datakart	Data maps
Planleggingskart	Planning map
Planlagt borehullslokalitetskart	Planned borehole location map
Planlagt 2D seismisk programkart	Planned 2D seismic program map
Planlagt 3D seismisk programkart	Planned 3D seismic program map
Planlagt seismisk programkart for borestedsundersøkelse	Planned site survey program map
Dekningskart	Coverage maps
Seismisk linjeoversiktskart	Seismic line overview map
Seismisk dekningskart	Seismic data coverage map
Gravimetrisk dekningskart	Gravimetry data coverage map
Magnetometrisk dekningskart	Magnetometry data coverage map
Geofysiske kart	Geophysical maps
Flateformkart, dyp	Depth structure contour map
Flateformkart, tid	Time structure contour map
Mektighetskart	Isopach map
Postert kart	Posted map
Seismisk attributtkart	Seismic attribute map
Seismisk kotelukningskart	Seismic closure map
Tidsdifferansekart	Isochron map
Tykkelseskart	Isochore map
Hastighets kart	Velocity maps
Gjennomsnittshastighetskart	Average velocity map
Hastighetsanomalikart	Velocity anomaly map
Intervallhastighetskart	Interval velocity map
Migrasjonshastighetskart	Migration velocity map
Stakkinghastighetskart	Stacking velocity map
Vo-kart	Vo-map
Geologiske kart	Geologic maps
Facieskart	Facies map
Hengkart	Supercrop map
Letemodellkart	Play map
Liggkart	Subcrop map
Paleobreddekart	Paleo -latitude map
Paleografisk kart	Paleogeographic map
Prospektkart	Prospect map
Tektonisk kart	Tectonic map
Strukturelementkart	Structural element map

Reservoarkart	Reservoir maps
Hydrokarbonarealkart	<i>Hydrocarbon area map</i>
Hydrokarbonkolonnekart	<i>Hydrocarbon column map</i>
Kart over brutto hydrokarbonførende kolonne for olje/gass	<i>Gross reservoir thickness map for oil/gas</i>
Kart over netto hydrokarbonførende kolonne for olje/gass	<i>Net reservoir thickness map for oil/gas</i>
Metningskart Netto-/bruttokart	<i>Saturation map net/gross map</i>
Permeabilitetskart	<i>Permeability map</i>
Porøsitetskart	<i>Porosity map</i>
Reservoarparameterkart	<i>Reservoir parameter map</i>
Geokjemiske kart	Geochemical maps
Migrasjonskart	<i>Migration map</i>
Modningskart	<i>Maturation map</i>
Gravimetriske kart	Gravity maps
Bougueranomali kart	<i>Bouguer gravity map</i>
Friluftsanomali kart	<i>Free air gravity map</i>
Magnetometriske kart	Magnetometry maps
Kart over magnetfelt redusert til polen	<i>Map of magnetic field reduced to the pole</i>
Magnetisk anomali kart	<i>Magnetic anomaly field map</i>
Totalmagnetfeltskart	<i>Total magnetic field map</i>

7.2 Engelske forkortelser for litologiske beskrivelser

7.2 English abbreviations for lithological descriptions

Word	Abbreviation
A	
about	abt
above	ab
absent	abs
abundant	abd
acicular	acic
agglomerate	Aglm
aggregate	Agg
algae, algal	Alg, alg
allochem	Allo
altered	alt
alternating	altg
ammonite	Amm
amorphous	amor
amount	amt
and	&
angular	ang
anhedral	ahd
Anhydrite (-ic)	Anhy, anhy
anthracite	Anthr
aphanitic	aph
appears	ap
approximate	apprx
aragonite	Arag
arenaceous	aren
argillaceous	arg
Arkose (-ic)	Ark, ark
as above	a.a.
Asphalt (ic)	Asph, asph
assemblage	Assem

Word	Abbreviation
associated	assoc
at	@
authigenic	authg
average	Av, av
B	
Band (-ed)	Bnd, bnd
Basalt (-ic)	Bas, bas
basement	Bm
Become (-ing)	bcm
Bed (-ed)	Bd, bd
bedding	Bdg
Bentonite (-ic)	Bent, bent
Bitumen (-inous)	Bit, bit
bioclastic	biocl
Bioherm (-al)	Bioh, bioh
bi.omicrite	Biomi
biosparite	Biosp
Biostrom (~al)	Biost, biosc
biotite	Biot
birdseye	Bdye
Black (-ish)	blk, blksh
blade(-ed)	Bld, bld
blocky	blky
Blue (-ish)	bl, blsh
Bored (-ing)	Bor, bor
bottom	Btm
Botryoid (-al)	Bot, bot
boulder	Bld
boundstone	Bdst
brachiopod	Brach

Word	Abbreviation
brackish	brak
branching	brhg
break	Brk, brk
Breccia (-ted)	Brec, brec
bright	brt
brittle	brit
brown	brn
bryozoa	Bry
bubble	Bubl
buff	bu
Burrow (-ed)	Bur, bur
C	
calcarenite	Clcar
calcilutite	Clclt
calcirudite	Clcrd
calcisiltite	Clslt
calcisphere	Clcsp
Calcite (-ic)	Calc, calctc
calcareous	calc
caliche	cche
carbonaceous	carb
carbonized	cb
cavern (-ous)	Cav, cav
caving	Cvg
cement (-ed, -ing)	Cmt, cmt
cephalopod	Ceph
chalcedony (-ic)	Chal, chal
chalk (-y)	Chk, chky
charophyte	Char
chert (-y)	Cht, cht
chitin (-ous)	Chit, chit
chlorite (-ic)	Chlor, chlor

Word	Abbreviation
chocolate	choc
circulate (-ion)	circ, Circ
clastic	clas
clay (-ey)	Cl, cl
claystone	Clst
clean	cln
clear	clr
cleavage	Clvg
cluster	Clus
coal	cc
coarse	cs
coated (-ing)	cotd, cotg, Cotg
coated grains	cotd gr
cobble	Cbl
colour (-ed)	col, col
common	com
compact	cpct
compare	cf
concentric	cncn
conchoidal	conch
concretion (-ary)	Conc, conc
conglomerate (-ic)	Cgl, cgl
conodont	Cono
considerable	cons
consolidated	consol
conspicuous	conspic
contact	Ctc
contamination (-ed)	Contam, contam
content	Cont
contorted	cntrt
coquina (-oid)	Coq, coqid
coral, coralline	Cor, corln

Word	Abbreviation
core	C,
covered	cov
cream	crm
crenulated	cren
crinkled	crnk
crinoid (-al)	Crin, crinal
cross	x
cross-bedded	x-bd
cross-laminated	x-lam
cross-stratified	x-strat
crumpled	crpld
cryptocrystalline	crpxln
crystal (-line)	Xl, xln
cube, cubic	Cub, cub
cuttings	Ctgs
D	
dark (-er)	dk, dkr
dead	dd
debris	Deb
decrease (-ing)	Decr, decr
dense	dns
depauperate	depau
description	Descr
detrital	detr
devitrified	devit
diabase	Db
diagenesis (-etic)	Diagn, diagn
diameter	Dia
disseminated	dissem
distillate	Dist
ditto	" or do
dolomite (-ic)	Dol, dol

Word	Abbreviation
dominant (-ly)	dom
drilling	drlg
drill stem test	DST
drusy	dru
E	
earthy	ea
east	E
echinoid	ch
elevation	Elev
elongate	elong
embedded	embd
equant	eqnt
equivalent	Equiv
euhedral	euhd
euxinic	eux
evaporite (-itic)	Evap, evap
excellent	ex
exposed	exp
extraclast (-ic)	Exclas, exclas
extremely	extr
extrusive rock, extrusive	Exv, exv
F	
facet (-ed)	Fac, fac
faint	fnt
fair	fr
fault (-ed)	Flt, flt
fauna	Fau
feet	ft
feldspar (-athic)	Fspr, fspr
fenestra (-al)	Fen, fen
ferruginous	ferr
fibrous	fibr

Word	Abbreviation
fine (-ly)	f, fnly
fissile	fis
flaggy	flg
flake, flaky	Flk, flk
flat	fl
floating	fltg
flora	Flo
fluorescence (-ent)	Fluor, fluor
foliated	fol
foot	Ft
foraminifer, foraminiferal	Foram, foram
Formation	Fm.
fossil (-iferous)	Foss, foss
fracture (-d)	Frac, frac
fragment (-al)	Frag, frag
frequent	freq
fresh	frs
friable	fri
fringe (-ing)	Frg, frg
frosted	fros
frosted quartz grains	F.Q.G.
furoid (-al)	Fuc, fuc
fusulinid	Fus
G	
gabbro	Gab
gastropod	Gast
gas	Gg
generally	en
geopetal	gept
gilsonite	Gil
glass (-y)	Glas, glas
glauconite (-itic)	Glauc, glauc

Word	Abbreviation
Globigerina (-inal)	Glob, glob
gloss (-y)	Glos, glos
gneiss (-ic)	Gns, gns
good	gd
grading	grad
grain (-s, -ed)	Gr, gr
grainstone	Grst
granite	Grt
granite wash	G.W.
granule (-ar)	Gran, gran
grapestone	grapst
graptolite	Grap
gravel	Grv
grey, gray (-ish)	gry, grysh
graywacke	Gwke
greasy	gsy
green (-ish)	gn, gnsh
grit (-ty)	Gt, gt
Group	Gp.
gypsum (-iferous)	Gyp, gyp
H	
hackly	hkl
halite (-iferous)	Hal, hal
hard	hd
heavy	hvy
hematite (-ic)	Hem, hem
Heterostegina	Het
heterogeneous	hetr
high (-ly)	hi
homogeneous	hom
horizontal	hor
hydrocarbon	Hydc

Word	Abbreviation
I	
igneous rock (igneous)	Ig, ig
impression	Imp
inch	In
inclusion (-ded)	Incl, incl
increasing	incr
indistinct	indst
indurated	ind
Inoceramus.	Inoc
in part	I.P.
insoluble	insl
interbedded	intbd
intercalated	intercal
intercrystalline	intxln
intergranular	intgran
intergrown	intgn
interlaminated	intrlam
interparticle	intpar
interstices (-itial)	Intst, intst
interval	Intvl
intraclast (-ic)	Intclas, intclas
intraparticle	intrapar
intrusive rock, intrusive	Intr, intr
invertebrate	Invtb
iridescent	irid
ironstone	Fe-st
irregular (-ly)	irr
isopachous	iso
J	
jasper	Jasp
joint (-ed, -ing)	Jt, jt

Word	Abbreviation
K	
kaolin (-itic)	Kao, kao
L	
lacustrine	lac
lamina (-tions, -ated)	Lam, lam
large	lge
laterite (-itic)	Lat, lat
lavender	lav
layer	Lyr
leached	Ichd
lens, lenticular	Len, lent
light	lt
lignite (-itic)	Lig, lig
limestone	Ls
limonite (itic)	Lim, lim
limy	lmy
lithic	lit
lithographic	lithgr
lithology (-ic)	Lith, lith
little	Ltl
littoral	litt
local	loc
long	lg
loose	lse
lower	l
lustre	Lstr
lutite	Lut
M	
macrofossil	Macrofos
magnetite, magnetic	Mag, mag
manganese. mangan(fer)	Mn, mn
marble	Mbl

Word	Abbreviation
marl (-y)	Mrl, mrl
marlstone	Mrlst
marine	marn
maroon	mar
massive	mass
material	Mat
matrix	Mtrx
maximum	max
medium	m or med.
Member	Mbr.
meniscus	men
metamorphic rock,	Meta
metamorphic (-osed)	meta, metaph
mica (-ceous)	Mic, mic
micrite (-ic)	Micr, micr
microcrystalline	microxln
microfossil (-iferous)	Microfos, microfos
micrograined	micgr
micro-oolite	Microool
micropore (-osity)	Micropor, micropor
microspar	Microspr
microstylolite	Microstyl
middle	Mid
miliolid	Milid
milky	mky
mineral (-ized)	Min, min
minor	mnr
moderate	mod
mold (-ic)	Mol, mol
mollusc	Moll
mosaic	mos
mottled	mott

Word	Abbreviation
mud (-dy)	md, mdy
mudstone	Mdst
muscovite	Musc
N	
nacreous	nac
nodules (-ar)	Nod, nod
north	N
no sample	n.s.
no show	n/s
novaculite	Novac
no visible porosity	n.v.p.
numerous	num
O	
occasional	occ
ochre	och
oil	0
oil source rock	OSR
olive	olv
oid (-al)	00, oo
oolicast (-ic)	Ooc, ooc
oolite (-itic)	Ool, 00l
oomold (-ic)	Oomol, oomol
oncolite (-oidal)	Onc, onc
opaque	op
orange (-ish)	or, orsh
Orbitolina	Orbit
organic	org
orthoclase	Orth
orthoquartzite	O-Qtz
ostracod	Ostr
overgrowth	ovgth
oxidised	ox

Word	Abbreviation
oyster	Oyst
P	
packstone	Pkst
paper (-y)	Pap, pap
part (-ly)	Pt, pt
particle	Par, par
parting	Ptg
parts per million	PPM
patch (-y)	Pch, pch
pebble (-ly)	Pbl, pbl
pelecypod	Pelec
pellet (-al)	Pel, pel
pelletoid (-al)	Peld, peld
permeability (-able)	Perm, k, perm
pendular (-ous)	Pend, pend
petroleum, petroliferous	Pet, pet
phlogopite	Phlog
phosphate (-atic)	Phos, phos
phyllite, phyllitic	Phyl, phyl
phreatic	phr
pink	pk
pinkish	pkish
pin-point (porosity)	P-PPiso,
pisoid (~al)	piso
pisolite, pisolitic	Pisol, pisol
pitted	pit
plagioclase	Plag
plant	Plt
plastic	plas
platy	plty
polish, polished	Pol, pol
pollen	Poln

Word	Abbreviation
polygonal	poly
porcelaneous	porcel
porosity, porous	Por, ϕ , por
possible (-ly)	poss
predominant (-ly)	pred
preserved	pres
primary	prim
probable (-ly)	prob
production	Prod
prominent	prom
pseudopseudo	ps
oolite (-ic)	Psool, psool
pumice-stone	Pst
purple	purp
pyrite (-itized, -itic)	Pyr, pyr
pyrobitumen	Pybit
pyroclastic	pyrcI
Q	
quartz (-ose)	Qtz, qtz
quartzite (-ic)	Qtzt, qtzt
R	
radial (-ating)	Rad, rad
radial axial	Radax
range	rng
rare	rr
recemented	ecem
recovery (-ered)	Rec, rec
recrystallized	rexIzd
red (-ish)	rd, rdsh
reef (-oid)	Rf, rf
remains	Rem
replaced (-ment)	rep, Repl

Word	Abbreviation
residue (-ual)	Res, res
resinous	rsns
rhomb (-ic)	Rhb, rhb
ripple	Rpl
rock	Rk
round (-ed)	rnd, rndd
rounded, frosted, pitted	r.f.p.
rubble (-bly)	Rbl, rbl
rudist	Rud
S	
saccharoidal	sacc
salt (-y)	Sa, sa
salt and pepper	s & p
salt water	S.W.
same as above	a.a.
sample	Spl
sand (-y)	Sd, sdy
sandstone	Sst
saturation (-ated)	Sat, sat
scarce	scs
scattered	scat
schist (-ose)	Sch, sch
scolecodont	Scol
secondary	sec
sediment (-ary)	Sed, sed
selenite	Sel
shale (-ly)	Sh, sh
Shell	Shl
shelter porosity	Shlt por
show	Shw
siderite (-itic)	Sid, sid
sidewall core	S.W.C.

Word	Abbreviation
silica (-iceous)	Sil, sil
silky	slky
silt (-y)	Slt, slty
siltstone	Sltst
similar	sim
skeletal	skel
slabby	slb
slate (-y)	Sl, sl
slickenside (-d)	Slick, slick
slight (-ly)	sli, slily
small	sml
smooth	sm
soft	sft
solution, soluble	Sol, sol
somewhat	smwt
sorted (-ing)	srt, srtg
south	S
spar (-ry)	Spr, spr
sparse (-ly)	sps, spsly
speck (-led)	Spk, spkld
sphalerite	Sphal
spherule (-itic)	Spher, spher
spicule (-ar)	Spic, spic
splintery	Splin
sponge	spg
spore	Spo
spotted (-y)	sptd, spty
stain (-ed, -ing)	Stn, stn
stalactitic	stal
strata (-ified)	Strat, strat
streak (-ed)	Strk, strk
striae (-ted)	Stri, stri

Word	Abbreviation
stringer	strgr
stromatolite (-itic)	Stromlt, stromlt
stromatoporoid	Strom
structure	Str
stylolite (-itic)	Styl, styl
subangular	sbang
sublithic	sblit
subrounded	sbrndd
sucrosic	suc
sulphur, sulphurous	Su, su
superficial oolite (-ic)	Spfool, spfool
surface	Surf
syntaxial	syn
T	
tabular (-ate)	tab
tan	tn
terriginous	ter
texture (-d)	Tex, tex
thick	thk
thin	thn
thin-bedded	t.b.
thin section	T.S.
throughout	thru
tight	ti
top	Tp
tough	tgh
trace	Tr
translucent	trnsl
transparent	trnsp
trilobite	Tril
tripoli (-itic)	Trip, trip
tube (-ular)	Tub, tub

Word	Abbreviation
tuff (-aceous)	Tf, tf
type (-ical)	Typ, typ
U	
unconformity	Unconf
unconsolidated	uncons
underclay	Uc
underlying	undly
uniform	uni
upper	u
V	
vadose	Vad, vad
variation (able)	Var, var
variegated	vgt
varicoloured	varic
varved	vrvd
vein (-ing, -ed)	Vn, vn
veinlet	Vnlet
vermillon	verm
vertebrate	vrtd
vertical	vert
very	v
very poor sample	V.P.S.
vesicular	ves
violet	vi
visible	vis
vitreous (-ified)	vit
volatile	volat
volcanic rock, volcanic	Volc, volc
vug (-gy)	Vug, vug
W	
wackestone	Wkst
washed residue	W.R.

Word	Abbreviation
water	Wtr
wavy	wvy
waxy	wxy
weak	wk
weathered	wthd
well	Wl, wl
west	W
white	wh
with	w/
without	w/o
wood	Wd
Y	
yellow (ish)	yel, yelsh
Z	
zircon	Zr
zone	Zn

7.3 Referanser

Fra NOD bulletin no 7

7.3 References

From NOD bulletin no 7

Dalland A, Worsley, D. and Ofstad, K., 1988:

A lithostratigraphic scheme for the Mesozoic and Cenozoic succession offshore Mid- and Northern Norway. NOD-Bulletin no 4.

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Rules and recommendations for naming geological units in Norway. Norsk geologisk tidsskrift vol. 66, supplement 1.

Vollset J. and Dore A.-G., 1984:

A revised Triassic and Jurassic lithostratigraphic nomenclature for the Norwegian North Sea. NOD-Bulletin no 3.

Dokumentet følger i størst mulig grad norsk standard (Norges standardiseringsforbund) der disse er anvendelige.

Dette gjelder:

- NS 4133 Brev og andre dokumenter. Skrivning og oppstilling
- ISO 3166 Codes for the representation of names of countries
- ISO 8601 Data elements and interchange formats. Information interchange. Representation of dates and time.

This document follows as close as possible standards from Norwegian Standards Association or the International Standardization Organization (ISO).

This references:

- *NS 4133 Letters and other documents. Typing and arrangements.*
- *ISO 3166 Codes for the representation of names of countries*
- *ISO 8601 Data elements and interchange formats. Information interchange. Representation of dates and time.*

For fargestandard:

- Commission for the Geological Map of the World Geological World Atlas.
- General co-ordinators: G. Choubert & A. Faure-Muret. Cartographic art: P. Chateaux Published in 1976 by UNESCO, Paris

Fargekode:

- Derwent viser til fargeskala 19 for Derwents fargeblyanter som er mye anvendt av geologer og geofysikere.
- PMS (The Pantone Matching System) er en international fargekode brukt ved trykking og publisering.

For standardization of colors:

- *Commission for the Geological Map of the World Geological World Atlas.*
- *General co-ordinators: G. Choubert & A. Faure-Muret. Cartographic art: P. Chateaux Published in 1976 by UNESCO, Paris*

Color code:

- *Derwent refers to the color scale 19 for Derwent colorpencils that are widely used among geologists and geophysicists.*
- *PMS is an international color code used in printing and publishing.*

7.4 Nomenklatur

7.4 Nomenclature

7.4.1 Capitalisation and non-capitalisation

Capitalise only the first word in a sentence or title

- *Petroleum expulsion efficiency*
- *Coniacian isopach*
- *Base Cretaceous unconformity*
- *Jan Mayen Fault Zone (all part of the name)*
- *Magnus Ridge (name)*
- *Marlin sub-basin (description)*
- *North, South, East and West, Northwestern, northeastern and likewise*
- *Tampen area*
- *Carmen prospect*
- *Lind lead*
- *Bronwyn field*
- *Nise Formation, Viking Group*
- *The Åre and Spekk formations*
- *PL123, well 6701/12-2*
- *Differentiate between stratigraphy and time: “The Upper Jurassic sandstone (rock/stratigraphy)” while “deposition took place in the late Jurassic (time)”*
- *Blocks applied for*
- *Announced blocks*
- *AMI area*
- *Licensed acreage*
- *TWT (ms)*
- *TWD (m)*
- *m (MSL)*
- *domes*
- *Xx prospect*
- *Xx lead*
- *Xx highs*
- *Xx terrace*

7.4.2 Abbreviations

Only when short space use abbreviations

- *North, South, East and West, N, S, NW, SE*
- *Nise Fm*
- *Nise and Lysing fms*
- *Viking Gp*
- *Viking and Shetland gps*
- *Use approximately rather than c. or ca. or ~*
- *Write out unconformity, unc when short of space*
- *Write versus rather than vs.*
- *900 m (space between number and unit of measurement)*
- *2000 m/s*
- *Triassic/sand (no space)*
- *TVD below seafloor*
- *Mervyn sandstone (not sst.)*
- *o.e. for oil equivalent*

7.4.3 Hyphenation and dashes

- *. . . intra-slope basins, intra-shelf, pinch-out, amplitude shut-off, switch-off*
- *. . . post-rift, pre-rift, syn-rift*
- *. . . near offset stack, spill point, sea level*
- *. . . onlap, topseal, fault zone, pinchout, updip, downdip*

7.4.4 Punctuation

- *Single quotes: Chatangiella 'spinosa', not Chatangiella "spinosa".*
- *Aptian/Albian*

7.4.5 Mathematics

- 2 x 32"
- Gas (billion Sm³/yr), condensate (million Sm³/yr)
- 40%

7.4.6 Figure references

(reference to one or more figures, chapter, sections, tables, figure captions)

use *Figure* in the text and in the captions and *Fig.* in legends and within figures.

- *It is shown (Fig. 2.1)....*
- *It is shown (Figs 2.1, 2.4, & 2.8)*
- *In Figure 2.1*
- *In Figures 2.1 and 2.3*
- *In Chapter 2.1.5*
- *In Table 2*
- *In the figure captions, always write Figure all the way out with a capital F (e.g. Figure 2.8*)

7.4.7 Informal names

Whenever informal names are used, the structure element has to start with a lower case, like in these documents:

- *The Barents Sea region: NOD bulletin 6*
- *The Norwegian Sea region: NOD bulletin 8*

Informal names

- *Central Barents arch*
- *Edgeøya platform*
- *Fedynsky high*
- *Gardarbanken high*
- *Gjesvær low*
- *Hopenbanken arch*
- *Hornsund fault complex*
- *Kong Karl platform*
- *North anticline*
- *Northeast anticline*
- *Northwest anticline*
- *Olga basin*
- *Ottar basin*
- *Sentralbanken high*
- *Southeast anticline*
- *Southwest anticline*
- *Sørkapp basin*
- *Tiddlybanken basin*
- *Trollfjord-Komagelv fault trend*
- *Vestbakken volcanic province*
- *West Kola saddle*

7.4.8 Strukturelementer (navn) NOD*	7.4.8 Structural elements (names) NOD*	Nivå/ level
Nordsjøen	North Sea	
Øygardsforkastningskompleks	Øygarden Fault Zone	2
Øst-shetlandbassenget	East Shetland Basin	2
Tampenutstikkeren	Tampen Spur	3
Makrellhorsten	Makrell Horst	3
Vikinggrabenen	Viking Graben	2
Marfloryggen	Marflo Ridge	3
Lomreterrassen	Lomre Terrace	3
Sleipnerterrassen	Sleipner Terrace	3
Sognegrabenen	Sogn Graben	2
Måløyterrassen	Måløy Terrace	3
Seljahøgda	Selje High	4
Uerterrassen	Uer Terrace	3
Hordaplattformen	Horda Platform	2
Utsirahøgda	Utsira High	3
Stordabassenget	Stord Basin	3
Patchbankryggen	Patchbank Ridge	3
Bragehorsten	Brage Horst	3
Osebergforkastningsblokk	Oseberg Fault Block	3
Norsk-danske basseng	Norwegian Danish Basin	2
Lingsenkningen	Ling Depression	3
Åstagrabenen	Åsta Graben	3
Egersundbassenget	Egersund Basin	3
Listaforkastningsblokkkompleks	Lista Fault Block Complex	3
Krabbeforkastningssonen	Krabbe Fault Zone	3
Krepsforkastningssonen	Kreps Fault Zone	3
Holmslandsforkastningssonen	Holmsland Fault Zone	3
Selehøgda	Sele High	3
Fennoskandiske grense	Fennoscandian Border	2
Rottbassenget	Rott Basin	3
Stavangerplattformen	Stavanger Platform	3
Eigerøyhorsten	Eigerøy Horst	3
Varnesgrabenen	Varnes Graben	3
Farsundbassenget	Farsund Basin	3
Fjerritslevforkastningssonen	Fjerritslev Fault Zone	3
Sørvestlandshøgda	Sørvestlandet High	2
Rekeforkastningssonen	Reke Fault Zone	3
Hummerforkastningssonen	Hummer Fault Zone	3
Jærhøgda	Jæren High	3
Ula-Gyda-forkastningssonen	Ula Gyda Fault Zone	3
Coffe-soil-forkastning	Coffee Soil Fault	3

Sentralgrabenen	Central Trough	2
Codterrassen	<i>Cod Terrace</i>	3
Hidrahøgda	<i>Hidra High</i>	3
Steinbitterrassen	<i>Steinbit Terrace</i>	3
Piggvarterrassen	<i>Piggvar Terrace</i>	3
Breiflabbassenget	<i>Breiflab Basin</i>	3
Fedagrabenen	<i>Feda Graben</i>	3
Gerterudgrabenen	<i>Gerterud Graben</i>	3
Lindesnesryggen	<i>Lindesnes Ridge</i>	3
Ålbassenget	<i>Ål Basin</i>	3
Grenseutstikkeren	<i>Grensen Nose</i>	3
Josephinehøgda	<i>Josephine High</i>	3
Søgnebassenget	<i>Søgne Basin</i>	3
Norskehavet	Norwegian Sea	
Vøringbassenget	Vøring Basin	2
Råsbassenget	<i>Rås Basin</i>	3
Helland-Hansen-hvelvet	<i>Helland-Hansen Arch</i>	4
Slettringsryggen	<i>Slettringen Ridge</i>	4
Griphøgda	<i>Grip High</i>	4
Trænbassenget	<i>Træna Basin</i>	3
Ytreholmsforkastningssonen	<i>Ytreholmen Fault Zone</i>	
Någrindsynklinalen	<i>Någrind Syncline</i>	3
Nykhøgda	<i>Nyk High</i>	4
Utgardshøgda	<i>Utgard High</i>	4
Helgrabenen	<i>Hel Graben</i>	3
Naglfardomen	<i>Naglfar Dome</i>	4
Fenrisgrabenen	<i>Fenris Graben</i>	3
Flesforkastningskomplekset	<i>Fles Fault Complex</i>	3
Revfallsforkastningskomplekset	<i>Revfallet Fault Complex</i>	3
Klakksforkastningskomplekset	<i>Klakk Fault Complex</i>	3
Surtlineamentet	<i>Surt Lineament</i>	3
Rymforkastningssonen	<i>Rym Fault Zone</i>	4
Gjallarryggen	<i>Gjallar Ridge</i>	3
Dønnterrassen	<i>Dønna Terrace</i>	3
Haltenterrassen	<i>Halten Terrace</i>	3
Sklinnaryggen	<i>Sklinna Ridge</i>	4
Grindagrabenen	<i>Grinda Graben</i>	4
Høgbrakhorsten	<i>Høgbraken Horst</i>	4
Ellingråsgrabenen	<i>Ellingråsa Graben</i>	4
Gimsbassenget	<i>Gimsan Basin</i>	4
Kyforkastningssonen	<i>Kya Fault Zone</i>	4
Gjæslinglineamentet	<i>Gjæslingan Lineament</i>	4
Vemadomen	<i>Vema Dome</i>	4
Vigridsynklinalen	<i>Vigrid Syncline</i>	3
Ytreholmsforkastningssonen	<i>Ytreholmen Fault Zone</i>	3

Vøringgrandhøgda	Vøring Marginal High	2
Vøring skrenten	Vøring Escarpment	3
Gleipnebruddsonen	Gleipne Fracture Zone	3
Jan Mayen-lineamentet	Jan Mayen Lineament	2
Jan Mayen-bruddsonen	Jan Mayen Fracture Zone	2
Bivrostlineamentet	Bivrost Lineament	2
Bivrostbruddsonen	Bivrost Fracture Zone	2
Trøndelagsplattformen	Trøndelag Platform	2
Nordlandsryggen	Nordland Ridge	3
Sørhøgda	Sør High	4
Rødøyhøgda	Rødøy High	4
Grønøyhøgda	Grønøy High	4
Helgelandsbassenget	Helgeland Basin	3
Vegahøgda	Vega High	3
Ylvingforkastningssonen	Ylvingen Fault Zone	3
Bremsteinsforkastningskomplekset	Bremstein Fault Complex	3
Ellingråsgraben	Ellingrås Graben	
Vingleiforkastningskomplekset	Vingleia Fault Complex	3
Frobassenget	Froan Basin	3
Frøyhøgda	Frøya High	3
Møre-bassenget	Møre Basin	2
Møre-Trøndelag- forkastningskomplekset	Møre-Trøndelag Fault Complex	3
Manetryggen	Manet Ridge	4
Gnausehøgda	Gnausen High	4
Giskehøgda	Giske High	4
Gossehøgda	Gossa High	4
Onahøgda	Ona High	4
Magnusbassenget	Magnus Basin	4
Marulkbassenget	Marulk Basin	4
Slørebotnunderbassenget	Slørebotn Sub-basin	4
Ormen Lange-domen	Ormen Lange Dome	3
Vigrahøgda	Vigra High	3
Modgunnhvelvet	Modgunn Arch	4
Mørerandhøgda	Møre Marginal High	2
Færøy-Shetland-skrenten	Faroe-Shetland Escarpment	3
Vestfjordsbassenget	Vestfjorden Basin	2
Lofotryggen	Lofoten Ridge	2

Ribbebassenget	Ribban Basin	2
Skomværunderbassenget	Skomvær Sub-basin	3
Havbåenunderbassenget	Havbåen Sub-basin	3
Utrøstryggen	Utrøst Ridge	2
Røsthøgda	Røst High	3
Marmæleutstikkeren	Marmæle Spur	3
Jennegghøgda	Jennegga High	3
Vesterdjupforkastningssonen	Vesterdjupet Fault Zone	2
Barentshavet	Barents Sea	
Bjarmelandsplattformen	Bjarmeland Platform	2
Haapetdomen	Haapet Dome	
Veslekaridomen	Veslekari Dome	
Polstjernaforkastningskomplekset	Polstjerna Fault Complex	
Gardarbankhøgda	Gardarbanken high	3
Hoopforkastningskomplekset	Hoop Fault Complex	3
Maudbassenget	Maud Basin	3
Mercuriushøgda	Mercurius High	3
Norselhøgda	Norsel High	3
Norvargdomen	Norvarg Dome	
Nysleppforkastningskomplekset	Nysleppen Fault Complex	3
Samsondomen	Samson Dome	3
Svalisdomen	Svalis Dome	3
Swaengrabenen	Swaen Graben	3
Bjørnøybassenget	Bjørnøya Basin	2
Fingerdjupsunderbassenget	Fingerdjupet Sub-basin	3
Leirdjupsforkastningskomplekset	Leirdjupet Fault Complex	3
Veslemøyhøgda	Veslemøy High	3
Bjørnøyrenneforkastningskomplekset	Bjørnøyrenna Fault Complex	2
Edgeøyplassformen	Edgeøya platform	2
Finnmarksplattformen	Finnmark Platform	2
Signalhornet	Signalhorn Dome	
Måsøyforkastningskomplekset	Måsøy Fault Complex	3
Thor Iversen-forkastningskomplekset	Thor Iversen Fault Complex	3
Tiddlybankbassenget	Tiddlybanken basin	3
Troms-Finnmark-forkastningskomplekset	Troms-Finnmark Fault Complex	3
Trollfjord-Komagelv-forkastningstrenden	Trollfjord-Komagelv fault trend	
Hammerfestbassenget	Hammerfest Basin	2
Harstadbassenget	Harstad Basin	2

Hornsundsforkastningskomplekset	<i>Hornsund fault complex</i>	2
Knøleggforkastningen	<i>Knølegga Fault</i>	3
Kong Karl-plattformen	<i>Kong Karl platform</i>	2
Lopphøgda	<i>Loppa High</i>	2
Asteriasforkastningskomplekset	<i>Asterias Fault Complex</i>	3
Polhemsunderplattformen	<i>Polhem Sub-platform</i>	3
Nordkappbassenget	<i>Nordkapp Basin</i>	2
Olgabassenget	<i>Olga basin</i>	2
Ringvassøy-Loppaforastningskomplekset	<i>Ringvassøy-Loppa Fault Complex</i>	2
Sentralbankhøgda	<i>Sentralbanken high</i>	2
Stappehøgda	<i>Stappen High</i>	2
Sørkappbassenget	<i>Sørkapp basin</i>	2
Sørvestsnagsbassenget	<i>Sørvestsnaget Basin</i>	2
Vestbakkvulkanittprovinsen	<i>Vestbakken volcanic province</i>	3
Tromsøbassenget	<i>Tromsø Basin</i>	2
Senjaryggen	<i>Senja Ridge</i>	3
* Norsk nomenklatur på strukturelementene er skrevet på denne måten i hht retningslinjer fra Norsk Språkråd og Søkeldirektoratet. Dette gjelder bare norske navn. Årsaken til at det skrives f.eks. Dønnterrassen (og ikke Dønnaterrassen) er at det ikke skal være dobbelt bestemt form		
	<i>Russia</i>	
	<i>GLOBEX (2005) Asterias Fault</i>	
	<i>Admiralteistva Ridge</i>	
	<i>Akhmatovskij Spur</i>	
	<i>Albanovskaja Saddle</i>	
	<i>Ancient Slope of the Baltic Shield</i>	
	<i>Arkhangelskaja Depression</i>	
	<i>Demidovskoje High</i>	
	<i>East Barents Basin</i>	
	<i>East Barents Slope</i>	
	<i>Fersmanovskoje High</i>	
	<i>Franz Josef Land Step</i>	
	<i>Gorbovskij High Zone</i>	
	<i>Gusino-Zemelskij Spur</i>	
	<i>Izhimka-Tarskij Ridge</i>	
	<i>Kanin-Timan Orogen</i>	
	<i>Kola Monocline</i>	
	<i>Korginsko-Sedijahinskaja Step</i>	
	<i>Kurentsovskij Slope</i>	
	<i>Ledovyi Spur</i>	

	<i>Ludlovskaja Saddle</i>	
	<i>Luninskij Spur</i>	
	<i>Malozemelsko-Kolguevskaja Monocline</i>	
	<i>Mezhdusharskaja High Zone</i>	
	<i>Mityushinskaja High Zone</i>	
	<i>Murmanskij Slope</i>	
	<i>Senja Ridge</i>	
	<i>Nadezhdinskij Spur</i>	
	<i>North Barents Basin</i>	
	<i>Sedov Depression</i>	
	<i>Shatskij Horst</i>	
	<i>Shojninskij Basin</i>	
	<i>Shtokmanovskij Spur</i>	
	<i>South Barents Basin</i>	
	<i>Vernadskij High</i>	
	<i>Zhelanija Spur</i>	

7.5 Lithology Legend

Lithology Legend				
	CONGLOMERATE		MARL	... SANDY, VERY
	SEDIMENTARY BRECCIA		CHALK	.. SANDY
	SAND / SANDSTONE		LIMESTONE	. SANDY, SLIGHTLY
	SILT / SILTSTONE		DOLOMITIC LIMESTONE	SILTY, VERY
	FISSILE SILTSTONE		CALCAREOUS DOLOMITE	SILTY
	MUDSTONE		DOLOMITE	SILTY, SLIGHTLY
	FISSILE MUDSTONE			— ARGILLACEOUS
	CLAY / CLAYSTONE			== CALCITE
	SHALE			≡ DOLOMITE
			GENERAL VOLCANICS	♂ MACROFOSSILS, GEN.
			TUFF	♂ MACROFOSSIL FRAGS
			GENERAL INTRUSIVE	♂ MICROFOSSILS, GEN.
			SILICIC INTRUSIVE	⌒ SHELL BED
			MAFIC INTRUSIVE	≡ ALGAE
			DYKES & SILLS	⊗ AMMONITES
	ANHYDRITE			▽ BELEMNITES
	SALT			⌒ BRACHIOPODS
	GYPSUM			⌒ BRYOZOA
				⊗ CHAROPHYTES
				⊗ ECHINOIDS
				== CALCITE CEMENTED
				≡ DOLOMITE CEMENTED
				≡ SIDERITE CEMENTED
				○ CONCRETIONS, GEN.
				○ OOLIDS
				* GLAUCONITE
				⌒ HALITE
				□ PYRITE
				s SIDERITE
				M MICA
				K KAOLINITE
				C CARBONACEOUS
				⊗ CHAMOSITE
				P PHOSPHORITE
				♂ FISH REMAINS
				♂ FISH SCALES
				♂ FORAMINIFERA
				♂ GASTROPODS
				♂ GRAPTOLITES
				⊗ CONODONTS
				⊗ CORALS
				★ CRINOIDS
				♂ BIVALVES
				Y SPICULES
				♂ OSTRACODS
				Q QUARTZ CEMENTED
				K KAOLIN CEMENTED
				ILLITE CEMENTED
				○ PISOLITHS
				◇ CLASTS
				● BITUMINOUS
				v TUFFACEOUS
				≡ CHALKY
				— COAL FRAGMENTS
				△ CHERT
				Chl CHLORITE
				~ MARLY
				^ ANHYDRITIC
				♂ SPOROMORPHS
				♂ STROMAPOROIDS
				⌒ STEMS / TWIGS
				♂ LEAF BLADES
				♂ TRILOBITES
				♂ VERTEBRATES
				♂ MAR. MICROPLANKTON
				♂ OOZE
				♂ PLANT REMAINS
				Sm SMECTITE CEMENTED
				Chl CHLORITE CEMENTED
				== CARBONATE CEMENTED
				♂ PELLETS
				⊗ PSEUDO OOLITHS

7.6 Standard - Lithology - NOD description coding

Main lithologies		Cements		Modifiers	
None	0	None	0	None	0
Conglomerate (general)	10	Calcite	1	Concretions gen.	10
Grain supported congl	11	Dolomite /Ankerite	2	Calcite concret.	11
Muddy congl.	12	Siderite	3	Dolomite concr.	12
Muddy, sandy, congl.	13	Quartz	4	Siderite concr.	13
Sandy congl.	14	Kaolinite	5	Ooid / pisolite	14
Conglomeratic sandstone	15	Illite	6	Tuffite	15
Conglomeratic muddy sandst.	16	Smectite	7	Bitumenious	16
Sedimentary breccia	20	Chlorite	8	Glauconite	17
Sandstone	30	.	.	Halite pseudomorph	18
Clayey sandstone	31	.	.	Pyrite	19
Muddy sandstone	32	.	.	Siderite	20
Silty sandstone	33	.	.	Mica	21
Siltstone	40	.	.	Kaolinite	22
Sandy siltstone	41	.	.	Carbonaceous	23
Fossile siltstone	45	.	.	Chamosite	24
Mudstone	50	.	.	Phosporite	25
Sandy mudstone	51	.	.	Argillaceous	26
Conglomeratic mudstone	52	.	.	Calcareous	27
Fissile mudstone	55	.	.	Chert	28
Claystone	60	.	.	Sulphat	29
Sandy claystone	61	.	.	Arenaceous	30
Silty claystone	62	.	.	Bioclastic	31
Shale	65	.	.	Chalky	32
Silty shale	66	.	.	Ferruginous	33
Limestone	70	.	.	Fossils	34
Dolomitic limestone	72	.	.	Plant Remains	35
Dolostone	74	.	.	Lignite	36
Calcareous dolostone	76	.	.	Feldspar	37
Chalk	78	.	.	Fissile	38
Marl	80	.	.	Silty	39
Gypsum	85	.	.	Dolomite	40
Anhydrite	86	.	.	.	.
Gypsum / Anhydrite unspec	87	.	.	.	.
Halite	88	.	.	.	.
Salt, general	89	.	.	.	.
Coal	90	.	.	.	.
Brown coal	91	.	.	.	.
Volcanic rock gen.	92	.	.	.	.
Intrusive rock gen.	93	.	.	.	.
Silicic plutonic rocks	94	.	.	.	.
Mafic plutonic rocks	95	.	.	.	.
Dykes and sills gen.	96	.	.	.	.
Metamorphic rocks gen.	97	.	.	.	.

7.7 Presentasjonsregler for berggrunn NGU

Presentasjonsregler for Berggrunn

Bruk standard farger og symboler for å øke gjenkjenning og dermed lesbarheten av kartet. Med forbehold om endringer.

Kart	Datasekk	Egenskap	Kode	Kodebeskrivelse	Forklaring	RGB	Symbol
Berggrunn	BergartFlateN250	HBERGKODE	1	Løsmasser		210,210,210	
	BergartFlateN250	HBERGKODE	2	Sandstein		254,248,164	
	BergartFlateN250	HBERGKODE	3	Konglomerat, sedimentær breksje		183,223,134	
	BergartFlateN250	HBERGKODE	4	Breksje		194,254,194	
	BergartFlateN250	HBERGKODE	5	Mylonitt, fyllonitt		130,125,184	
	BergartFlateN250	HBERGKODE	7	Sedimentære bergarter (uspesifisert)		254,250,194	
	BergartFlateN250	HBERGKODE	8	Skifer, sandstein, kalkstein		143,188,143	
	BergartFlateN250	HBERGKODE	9	Sandstein, skifer		196,227,147	
	BergartFlateN250	HBERGKODE	10	Kalkstein, skifer, mergelstein		164,249,254	
	BergartFlateN250	HBERGKODE	11	Kalkstein, dolomitt		50,205,50	
	BergartFlateN250	HBERGKODE	21	Granitt, granodioritt		217,29,29	
	BergartFlateN250	HBERGKODE	22	Dioritt, monzonit		202,134,135	
	BergartFlateN250	HBERGKODE	23	Syenitt, kvartssyenitt		223,116,116	
	BergartFlateN250	HBERGKODE	24	Monzonitt, kvartsmonzonitt		234,92,182	
	BergartFlateN250	HBERGKODE	25	Mangerittsyenitt		251,225,213	
	BergartFlateN250	HBERGKODE	26	Ryolitt, ryodacitt, dacitt		220,197,253	
	BergartFlateN250	HBERGKODE	27	Rombeporfy		160,102,50	
	BergartFlateN250	HBERGKODE	28	Metabasalt		192,155,66	
	BergartFlateN250	HBERGKODE	29	Vulkanske bergarter (uspesifisert)		219,205,0	
	BergartFlateN250	HBERGKODE	30	Mangeritt til gabbro, gneis og amfibolitt		192,192,192	
	BergartFlateN250	HBERGKODE	35	Gabbro, amfibolitt		111,40,40	
	BergartFlateN250	HBERGKODE	37	Keratofyr		240,130,253	
	BergartFlateN250	HBERGKODE	38	Kvartsdioritt, tonalitt, trondhjemit		254,179,179	
	BergartFlateN250	HBERGKODE	40	Olivinstein		179,15,254	
	BergartFlateN250	HBERGKODE	41	Eklogitt		153,0,166	
	BergartFlateN250	HBERGKODE	45	Anortositt		219,196,196	
	BergartFlateN250	HBERGKODE	46	Charnokittiske til anortosittiske dypbergarter, stedvis omdannet		219,133,0	
	BergartFlateN250	HBERGKODE	50	Amfibolitt og glimmerskifer		60,168,0	
	BergartFlateN250	HBERGKODE	55	Grønnstein, amfibolitt		186,165,0	
	BergartFlateN250	HBERGKODE	60	Metasandstein, skifer		254,210,94	
	BergartFlateN250	HBERGKODE	61	Kvartsitt		255,255,0	
	BergartFlateN250	HBERGKODE	62	Glimmergneis, glimmerskifer, metasandstein, amfibolitt		180,254,0	
	BergartFlateN250	HBERGKODE	65	Fyllitt, glimmerskifer		0,249,150	
	BergartFlateN250	HBERGKODE	66	Kalkglimmerskifer, kalksilikatgneis		0,252,234	
	BergartFlateN250	HBERGKODE	70	Marmor		0,129,254	
	BergartFlateN250	HBERGKODE	71	Dolomitt		0,218,254	
	BergartFlateN250	HBERGKODE	82	Diorittisk til granittisk gneis, migmatitt		251,162,175	
	BergartFlateN250	HBERGKODE	85	Øyegneis, granitt, foliert granitt		255,127,80	
	BergartFlateN250	HBERGKODE	87	Båndgneis (amf., hbl.gneis, glim.gneis), stedvis migm.		255,199,174	
	BergartGrenseN250	GeoPåvisningType				135,135,135	 Heltrukken linje 0,10 p

8.

Oppdateringer/Updates



2025

The front page has been updated with a new AI- image and a new explanatory text on what geostandard means. Geological standards and guidelines have been added under the heading.

Chapter 6

6.13.1

Added norwegian translation to:

Seal-tagbergart

Juxtaposition-sidestilling

Apex-toppunkt

Migration route-migrasjonsrute

6.17

Moved the text so that the English text comes right after the Norwegian.

I have also changed the colors of some parts.

Color scales added high-low

In 6.1.3 this is changed:

'Minimum mengde min (P90) / Minimum amount' to 'lav mengde (P90) / low side volume'

'Maksimum mengde Max (P10) / maximum amount' to 'høy mengde (P10) / high side volume'

6.1.1

Soldugg change name to Soldogg

Changed Frysjaodden to Frysjaodden,

Removed Wordie Creek, Wegener Halvø equivalent, Schuchert Dal, Ravnefjeld, Karstryggen and Huledal,

Hecla Hoeck & add e in Pre-Old red basement

6.1.7

Added Naust, Ull, Sele, Hermod, Ty and Hardråde, Åsgard, Alke

Changed Draupne to Draupne (Munin)

Removed Ransst unit, Oseberg

6.1.8

Added Naust, Frigg, Ull, Kyrre. Removed Kyrreblålange, Rødspette Member and Magnus

6.1.9

Removed Ull from Skade and added Ull on a seperate line

Removed Broom/Oseberg

6.1.10

Added Lunde

6.7

Changed norwegian translation from Skjell- og haugformet refleksjonsmønster to Haugformet og drapert refleksjonsmønster

Chapter 7

Some English abbreviations have been updated

In section 7.4.5 is following changed:

billSm³/yr - changed to billion Sm³/yr

millSm³/yr - changed to million Sm³/yr