

Preliminary schedule for GEO-DEEP9500 course

3 – 10 August (11-12 August depending on time of departure)

Overview:

Session	<i>Fri 3.8</i>	<i>Sat 4.8</i>	<i>Sun 5.8</i>	<i>Mon 6.8</i>	<i>Tues 7.8</i>	<i>Weds 8.8</i>	<i>Thurs 9.8</i>	<i>Fri 10.8</i>	<i>Sat 11.8</i>	<i>Sun 12.8</i>	
Morning 1	Arrival Norwegian arr: 0135h (Sat) SAS arr: 1250h or 00:40 (Sat) Icebreaker(?)	Lecture		Safety		Field Trip Deltanaset- Diabasodden			Departure (?) Norwegian dep: 0410h SAS dep: 0225	Departure (?) SAS dep: 0800, 1445h	
Break		Break									
Morning 2											Final Group work/essay prep and summary
Lunch					Field trip Endalen cores						
Afternoon 1								Group work/essay prep (NOR-R-AM meeting)			Free in case some are catching the SAS dep:1335h flight
Break											
Afternoon 2			Student presentations					Free (NOR-R-AM meeting)			Free (Departure?)
Evening			Icebreaker(?)	Free	Free		Free	Free			Final dinner

Preliminary lecture schedule

Day 1 Saturday

Session: Introduction and Arctic geology and plate tectonics (Part 1)

Time	Lecture	Lecturer
0900-0930h	Welcome and short introductions by all lecturers	All
0930-1015h	Arctic geology and geophysics overview	Carmen Gaina
1015-1030h Break		
1030-1130h	Plate tectonics – general (Wilson cycle)	Grace Shephard
1130-1230h	Plate tectonics – Cenozoic Arctic (inc. Eurasia Basin)	Carmen Gaina
1230-1330h Lunch		
1330-1430h	Plate tectonics – Mesozoic Arctic (inc. Amerasia Basin)	Bernie Coakley
1430-1500h Break (inc. presentation upload)		
1500-1800h	Student introductions and presentations	All

Day 2 Sunday

Session: Arctic geology and plate tectonics (Part 2)

Time	Lecture	Lecturer
0900-1000h	Plate tectonics – Paleozoic Arctic	Lars Eivind Augland/Owen Anfinson
1000-1100h	Sedimentary Basins – Part 1 Formation	Sasha Minakov

1100-1115h Break		
1115-1215h	Sedimentary Basins – Part 2 Source to sink	Owen Anfinson
1215-1300h Lunch		
1300-1400h	Geochronology – Part 1 U/Pb dating	Lars Eivind Augland
1400-1500h	Geochronology – Part 2 Thermochron (inc. lowT, FT)	Danny Stockli
1500-1530h Break		
1530-1730h	Svalbard Geology	Kim Senger

Day 3 Monday

Session: Safety and visit to cores at Endalen

Time	Lecture	Lecturer
Morning TBC	Health, Safety and Environment (HSW)	Kim Senger
Afternoon TBC	Field trip to core store	Kim Senger

Day 4 Tuesday

Session: Magmatism, the HALIP and links to climate

Time	Lecture	Lecturer
0900-1000h	Volcanism and magmatic systems – Part 1 general	Morgan Jones
1000-1100h	– Part 2 links to climate, Svalbard examples inc PETM/PT	Morgan Jones
1100-1115h Break		
1115-1215h	Models of magma emplacement and plumes	Sasha Minakov

1215-1330h Lunch		
1330-1430h	Introducing the High Arctic Large Igneous Province (HALIP)	Bernie Coakley
1430-1545h	Geochemical methods – discerning settings (e.g.plume v MORB v arc)	Morgan Jones/Lars Eivind/Danny to coordinate
1545-1600h Break		
1600-1700h	CO2 storage and petroleum systems related to HALIP	Kim Senger

Day 5 Weds

Session: Field excursion to Deltanaset-Diabasodden

Time	Lecture	Lecturer
Morning TBC	Field Trip	Kim Senger
Afternoon TBC	Field Trip	Kim Senger

Day 6 Thursday

Session: Delving DEEPer into the Arctic

Time	Lecture	Lecturer
0900-1030h	Seismological methods - general	Andrew Schaeffer
1030-1045h Break		
1045-1200h	Imaging the lithosphere and upper mantle (N American case study?)	Andrew Schaeffer
1200-1300h Lunch		
1300-1530h	Students: group work part one	-

Final Dinner

Day 7 Friday

Session: Summary and Student Presentations

Time	Lecture	Lecturer
	Students to check out of accommodation	
0930-1030h	GPlates plate tectonic reconstruction software and linking w/ seismic tomography	Grace Shephard
	1030-1045h	Break
1045-1115h	Final group work : part two (can run their ideas by the lecturers)	All
1115-1145h	Summary and close	Carmen, All