

**Coral Workshop 31<sup>st</sup> May/1<sup>st</sup> June 2010**
**IRIS Biomiljø**

**Cold-water coral ecosystems: knowledge status, gaps,  
research needs and strategy related to O&G operations**

**DAY 1 – 31st May 2010**

	Topic	Invited speaker
08:30-09:00	Registration, coffee and tea	
09:00-09:10	Welcome. Opening sessions “General objectives of the workshop”	Egil Dragsund OLF, Oslo (Norway)
09:10-09:20	General information - General introduction for the 1 <sup>st</sup> day	Thierry Bausant IRIS, Stavanger (Norway)
<b>Session 1 - State-of-knowledge of the biology and key features of cold-water corals</b>		
09:20-09:45	“Ecophysiology and ecology of <i>Lophelia pertusa</i> in the NE Atlantic”	Laura Wicks Heriot Watt University, Edinburg (United Kingdom)
09:45-10:10	“Aspects on cold-water coral biology and calcification. Lessons learned from perturbation and on board experiments”	Cornelia Maier Laboratoire d’Océanographie de Villefranche sur Mer, Villefranche sur Mer (France)
10:10-10:30	“Reproduction biology” ( <i>title to be updated</i> )	Sandra Brooke Marine Conservation Biology Institute, Bellevue (United States) Presented by Johanna Järnegren, NINA, Trondheim (Norway)
10:30-10:50	<b>Coffee break</b>	
10:50-11:15	”Cold-water corals in Norway – an overview”	Pål Buhl-Mortensen Institute of Marine Research, IMR, Bergen (Norway)
<b>Session 2 - Coral ecosystems, ecology and specific associations</b>		
11:15-11:40	”The microbiology of <i>Lophelia pertusa</i> ”	Sven Christopher Neulinger Leibniz Institute of Marine Sciences IFM-GEOMAR, Kiel (Germany)
11:40-12:05	“Microbial ecology of <i>Lophelia pertusa</i> and the potential for using coral-associated bacteria as a diagnostic of coral stress”	Christina Kellogg U.S. Geological Survey, St. Petersburg (USA)
12:15-13:00	<b>Lunch break</b>	
13:15-13:45	Tour of IRIS Biomiljø experimental facilities	Anne Hjelle Adm. Manager IRIS Biomiljø
<b>Session 3 - Current state-of-knowledge of impacts on corals from natural and O&amp;G activities</b>		

13:45-14:10	“ <i>Lophelia pertusa</i> on oil and gas structures in the British North Sea”	Susan Gass Dalhousie University, Halifax (Canada)
14:10-14:35	“Study of effects of used water-based drilling mud on the cold-water coral <i>Lophelia pertusa</i> ”	Thierry Baussant IRIS-biomiljo, Stavanger (Norway)
14:35-15:05	“Experimental studies on <i>Lophelia pertusa</i> with emphasis on drill cutting exposure”	Ann Larsson University of Gothenburg, Dept. of Marine Ecology, Strömstad(Sweden)
15:10-15:30	<b>Coffee break</b>	
15:30-15:55	(title to come later)	Johanna Järnegren Norwegian Institute of Nature Research (Norway)
<b>Session 4 - Current sampling methods, mapping and monitoring strategies from laboratory and field experience with cold-water corals (CWC)</b>		
15:55-16:20	“The Coral Risk Assessment, Monitoring and Modelling (CORAMM) project: An overview of a new reef monitoring technique and results”	Autun Purser Jacobs University’ Bremen (Germany)
16:20-16:45	”Development of a DEB model of the coldwater coral <i>Lophelia pertusa</i> for the quantification of sedimentation stress”	Dick van Oevelen NIOO-KNAW, Yerseke, (The Netherlands)
16:45-17:10	”Biological and oceanographic studies at Scott Reef: highlights from 15 years of research”	Tim Cooper Australian Institute of Marine Science, Crawley (Australia)
17:10-17:30	1 <sup>st</sup> day closing remarks and summary	IRIS & all
<b>19:30 – Welcome drink &amp; Workshop dinner at CITY BRASSERIE &amp; VINBAR –</b> <a href="http://www.citybrasserie.no/en/index.html">http://www.citybrasserie.no/en/index.html</a>		

<b>DAY 2 –1st June 2010</b>		
	Topic	Invited speaker
09:00-09:10	General information - General introduction for the 2nd day	Thierry Baussant IRIS, Stavanger (Norway)
<b>Session 5 – Management measures and strategies to protect coral ecosystems</b>		
09:10-09:30	Regulation and legal requirements for drilling operations related to corals – 1: “Regulations relating to pollution control”	Mathilde Juel Lind Norwegian Climate and Pollution Agency, Oslo (Norway)
09:30-10:00	Regulation and legal requirements for drilling operations related to corals – 2: “Regulations relating to biodiversity”	Erlend Standal Directorate for nature management, Trondheim (Norway)
10:00-10:30	”Mitigating measures”	Rune Weltzien Statoil, Bergen (Norway)
10:30-10:50	<b>Coffee break</b>	

10:50-11:15	“Will drill cuttings and drill mud harm cold water corals?”	Edgar Furuholt Det Norske, Trondheim (Norway)
11:15-11:40	”Calculation of stresses (depositions and water column concentrations) at the sea floor caused by drilling discharges.”	Henrik Rye SINTEF, Trondheim (Norway)
11:40-12:05	“Experiences from exploration drillings, investigation, mitigation measures and monitoring program.”	Jannecke A. Moe (GDF Suez) Toralf Kaland (Certrica Energi) Stavanger and Oslo (Norway)
12:15-13:00	<i>Lunch break</i>	
<b>Session 6 –The way forward: identify current challenges, limitations and potential needs.</b>		
13:00-13:15	“Brief summary of workshop presentations: introduction to workshop discussion”	Thierry Baussant IRIS, Stavanger (Norway)
13:15-13:40	“Guidelines for the methodology of coral monitoring during drilling activities – an empirical approach”	Amund Ulfsnes Det Norske Veritas, Oslo (Norway)
13:40-15:00	“Panel discussion: where do we go from here?”	IRIS & all participants
15:00-15:15	<i>Coffee break</i>	
15:15-16:30	Summary workshop discussion & conclusions	IRIS & all participants
16:30	Closing workshop	