

This project is funded from Norway Grants in the Polish-Norwegian Research Programme operated by the National Centre for Research and Development

CDOM-HEAT - Source and transformations of Chromophoric Dissolved Organic Matter and its role in surface ocean heating and carbon cycling in Nordic Seas and European Arctic.

**Polish-Norwegian Research Programme
Contract number: Pol-Nor/197511/40/2013**

Deliverable No: D.6.5		Workpackage: WP 6	
Date of submission:	23.08.2013	Due date of deliverable:	Month 3
Title:	Kick off Meeting Report		
Lead Partner for Deliverable:	Institute of Oceanology Polish Academy of Sciences - IOPAN		
Approved by (name and function):	Piotr Kowalczuk Principal Investigator	Approval date:	
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Kick-off Meeting Report

Institute of Oceanology Polish Academy of Sciences, Sopot 29-30 July 2013

Project Title:	Sources and transformations of Chromophoric Dissolved Organic Matter and role in surface ocean heating and carbon cycling in Nordic Seas and European Arctic .
Project Acronym:	CDOM-HEAT
Funding body:	Polish-Norwegian Research Programme – ‘Norway Grants’
Duration:	May 2013 – April 2016
Partner Organizations:	Institute Of Oceanology of Polish Academy of Sciences, Sopot, PL, Norwegian Polar Institute, Tromso, Norway

Aims of the project

The project aim is to study and understand the composition and sources of CDOM and the role of CDOM (and other optically active substances) in the fate of solar energy in the Nordic Seas and European Arctic, and how it contributes to the solar heating of the upper ocean and contributes to sea-ice melt and light availability (UV and PAR) for primary production. This information is also essential to calibrate satellite remote sensed information in the region.

Purpose of this document

The CDOM-HEAT project has evolved as an initiative of Polish and Norwegian researchers conducting scientific investigations in the field of marine optics and sea ice optics and biogeochemistry of Dissolved Organic Matter. One of the first initiative after project has been accepted for funding was the kick-off meeting held in the Institute of Oceanology, Polish Academy of Science, Sopot in 28-29 July 2013. Although the meeting was initially scheduled for second months of the project duration, it has to be postponed by one months due to involved researcher participation in the field work that started in June 2013. The purpose of the meeting was to establish personal links between project partners investigators, discuss project structure and research strategy, present scientific achievements of individual researchers and research organizations, evaluate and review research infrastructure designated for project execution. This documents summarises the discussion held during the meeting.

Kick-off Meeting Agenda

Date: August 29th – 30th, 2013

Place: Instytut Oceanologii Polskiej Akademii Nauk, Powstańców Warszawy 55,

Sopot Participants: As per the attached attendance list

Monday, July 29th, 2013

09.15 - 09.15 Greeting from IO PAN Deputy Director for Research professor Ksenia Pazdro

09.15 - 10.00 Piotr Kowalczyk: IOPAN's latest research on ocean optics and CDOM

10.00 - 10.30 Mats Granskog: NPI research on DOM cycling in the Arctic

10.30 - 11.00 Coffee Break

11.00 - 12.30 Piotr Kowalczyk: Administrative issues related to execution of CDOM-HEAT project

12.30 - 13.00 Joanna Piwowarczyk: WP6 Synthesis of the results, knowledge transfer and public outreach

13.00 - 14.30 Lunch time

14.30 - 15.00 Sławomir Sagan: WP1 - progress and plans

15.00 - 15.30 Mats Granskog: Field surveys on r/v Lance across Fram Strait at 79N

15.30 - 16.30 Open discussion: data protocols, reporting, co-ordination of field work

18.00 - Dinner - TBD

Tuesday, July 30th, 2013

09.00 - 09.30 Mats Granskog: WP2 execution plan

09.30 - 10.00 Monika Zabłocka: WP3 execution plan

10.00 - 10.30 Mirek Darecki: WP4 execution plan

10.30 - 11.00 Coffee Break

11.00 - 11.30 Stephen Hudson: WP5 execution plan

11.30 - 12.00 Piotr Kowalczyk: WP6 execution plan

12.00 - 13.00 Open discussion & closing of the meeting

13.00 - 14.30 - Lunch time

11 persons have participated in the kick-off meeting: 8 from the Institute of Oceanology Polish Academy of Science, Sopot; 2 persons from the Norwegian Polar Institute and 1 student from University of Gdańsk. The attendance list has been attached to the report.



Photo 1. The CDOM-HEAT project research team during kickoff meeting in Sopot, 29-30th July 2013. From left to right: dr Mats Granskog – NPI, Joanna Piwowarczyk, dr Agnieszka Zdun, dr Piotr Kowalczyk, Monika Zabłocka, dr Sławomir Sagan, Karolina Borzycka, dr Mirosław Darecki, Marta Konik – IOPAN, and dr Stephen Hudson – NPI.

Minutes from the Kick-off Meeting

The meeting has been opened by IO PAN Deputy Director for Research professor Ksenia Pazdro who has greeted the audience and wished for open-minded discussions and fruitful results from this gathering. The next speaker was dr Piotr Kowalczyk who presented the latest results of research on CDOM optical properties and ocean optics conducted in the Institute of Oceanology. The role of CDOM in the total absorption budget and interaction of CDOM with ambient solar light field at a given depth in the spectral range from 300 to 500 nm in oceanic water was emphasized by presenting results of field measurements in the tropical, subtropical and temperate waters of the Atlantic Ocean. Dr Mats Granskog in his presentation has presented results of the latest research on water masses distribution in the Fram Strait and use of CDOM optical properties as water masses tracers. After coffee break dr Piotr Kowalczyk presented information on the administrative issues related to project execution such as employment of personnel, audit obligations after spending at least 60% of the planned budget. The audit will be required separately for Polish and Norwegian partners. The project will require a Steering Committee and meeting participants have agreed that the Steering Committee will consist of: Project Coordinator, Work Package Leaders, and project officer. In the later stages of project execution the Steering Committee may be extended by an external expert in the field of biogeochemistry of Dissolved Organic Matter. Joanna Piwowarczyk has introduced the basics of the promotion plan. The project is obliged to organize two major events in the promotion plan, is also obliged to set up a project website and the project logo. The project also needs to issue a promotion brochure that explains the undertaken research to the wider public and may be used as a handout distributed at conferences,

workshops, scientific meetings, and other promotion events. Project need also to develop an official stationary that contains logos of the Polish-Norwegian Research Program, logo of the funder the Norway Grants and logo of the program operator: National Centre for Research and Development. All publications related to the CDOM-HEAT Project, or resulted from project activities must have official acknowledgements form. All details of promotion will be summarised in the Project Promotion Plan. Document is scheduled as the Deliverable 6.2.2 as will be distributed between project partners in the Month 6.

There was an open discussion before lunch. During discussion there was a brain storming on project logo design and web page structure. Notes has been taken and has been passed to a graphical designer as the starting point for design of logo and web page. There was also discussion on the major promotion events; dr Piotr Kowalczyk has talked about the planned workshop on the International Workshop on Organic Matter Spectroscopy. The series of workshops has been organized in the past 10 years. Dr Kowalczyk has participated in the third International Workshop on Organic Matter Spectroscopy held in La Garde City, France and organized by Université du Sud Toulon-Var and Aix-Marseille Université. He has proposed that forth workshop in the series could be organized in IOPAN Sopot and be sponsored or co-sponsored in the CDOM-HEAT project. This initiative has received good response in Dissolved Organic Matter spectroscopy community. This idea will be promoted further and preparatory origination works will be undertaken in 2014. Dr Mats Granskog has proposed an idea that the project could sponsored/co-sponsored a special session on the big conferences like ASLO, EGU or AGU meetings. This idea will explored further during the duration of the project.

After lunch dr Sławomir Sagan has presented the field measurements program and rules data management and exchange between partners. He has also presented preliminary results of field works undertaken in the framework of CDOM-HEAT project in June and early July 2013. Dr Mats Granskog presented plans for field work on r/v Lance cruise in Auguts/September 2013. He has also addressed the IOPAN contribution for this cruise. IOPAN has planned to delegate one person to participate in the cruise and main scientific task would be sampling for particulate absorption. Before end of the agenda planned for 29 of July 2013 there was an open discussion. The main topic of open discussion were technical problems related to logistics and planning of field work on r/v Lance in August 2013.

The second day of the meeting has been opened on July 30 by presentation by dr Mats Granskog, who has presented of work and analysis planned in the WP2. Next presentations by Monika Zabłocka, dr Mirosław Darecki, dr Stephen Hudson and dr Piotr Kowalczyk were focused on detailed description of work planned in Work Packges 3, 4, 5, and 6. Dr Stephen Hudson – NPI, has presented his research on the sea ice physics and optical properties. He has presented in details plans of optical measurement during planned by NPI ice base camp expeditions. He has addresses challenges of conducting small scale, detailed measurements of sea ice optical properties and optical properties of melt water and oceanic waters under the ice cover. Open discussion has focused on solutions of practical problems of in situ measurements of optical properties of sea ice, melt water and sea water under the ice cover.

The meeting was closed by dr Kowalczyk on lunch time July 30, 2013.