

DAIMON DSS Demonstration Cruises and Workshops – mainly German language

Kiel, Germany

04.08.-05.08. & 06.08.-07.08.2020

The DSS-Workshop for target users of the Decision Support System (DSS) in Germany will take place in Kiel, organized by the Thünen-Institute of Fisheries Ecology within the DAIMON 2 project. The workshops will be carried out as a two-day event, from 04.08. to 05.08.2020 and from 06.08. to 07.08.2020 respectively. Participants can choose their favourite date, which will be met as far as possible.

In order to get insights into methods for the detection, chemical analysis and impact assessment on biota of dumped munitions, the “Kolberger Heide” dumpsite for conventional munitions in the Kiel Bight is used as study site (Figure 1). The study site can be reached by boat from Kiel within one hour. The seminars will be held at GEOMAR Helmholtz Centre for Ocean Research Kiel (east shore Campus) and the demonstration cruises will be carried out on the research vessels (RV) Clupea, Littorina and Haithabu. The departure of each RV will be expected at GEOMAR, east shore Campus.

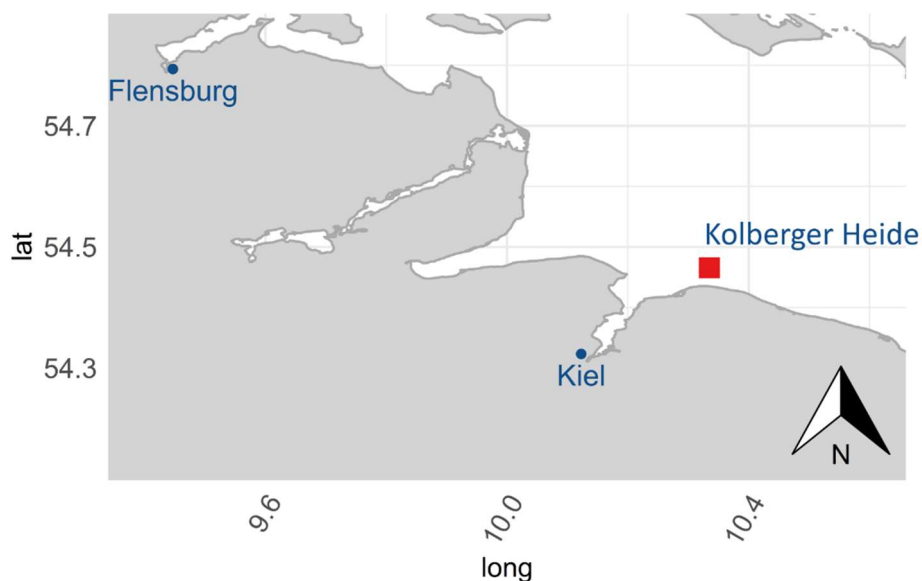


Figure 1: Location of the munition dumpsite “Kolberger Heide” in the Kiel Bight.

On the first day of the event (beginning at 9 am), a brief introduction to the topic of dumped munitions in the seas will be given, highlighting the significant risks, recent political developments and data requirements used to operate the DSS (see: <https://www.daimonproject.com/decision-support-system-dss.html>). For this purpose, participants will also be introduced to the DAIMON Ecotox Toolbox (see: <https://www.thuenen.de/de/fi/arbeitsbereiche/meeresumwelt/munition-im-meer/daimon-ecotox-toolbox/>), a compilation of fact sheets describing various methods useful for the detection, analysis and impact assessment of dumped munitions.

Subsequently, the participants will be divided among the different ships (RVs Clupea, Littorina, Haithabu) (see Table 1) according to their personal interests and cruises to the Kolberger Heide will fill the rest of the day. Following topics will be presented on the individual RVs:

Table 1: Offered DAIMON demonstration cruises and experimental work on board.

RV Clupea	RV Littorina	RV Haithabu
max. 6 participants per cruise	max. 6 participants per cruise	max. 10 participants per cruise
Fishing, fish health, fish sampling	Water samling, AUV, multibeam, side-scan sonar	Sediment sampling, water sampling, ROV

Due to limited capacities on the RVs, a priority order the different cruises is necessary and the respective desired participation cannot be guaranteed. In case the participants only want to join the theoretical seminars on the second day, please leave a comment while applying. The respective safety instructions on board the ships must be followed. All participants should bring clothes suiting the weather conditions and sturdy shoes on board.

On the second day of the event (beginning at 9 am), the cruises of the previous day will be discussed, the collected data reviewed and evaluated. The aim is to clarify possible questions about the different methods and to get an insight into the process from data collection to utilization of the DSS. The second half of the day includes the demonstration and application of the DSS.



The participants have to organize their accommodation and dinner on their own expenses. Food on board and during the seminars at GEOMAR will be provided.

DAIMON Target User Workshops, 4.-7. August 2020, Kiel

Preliminary (stand 04.03.2020)

Aims

Demonstration cruises and trainings for target users (executive and technical staff of maritime administrations, environmental agencies or coastal guards, offshore companies, academia and NGOs) involved in marine risk assessment in areas affected by dumped munitions.

Schedule

Tue, 04.08.2020	Wed, 05.08.2020	Thu, 06.08.2020	Fri, 07.08.2020
1 st Workshop	1 st Workshop	2 nd Workshop	2 nd Workshop
1 st day	2 nd day	1 st day	2 nd day

04.08.2020, Tuesday

Workshop 1st day

Start of the DAIMON workshops for executive and technical staff. The workshops will be organized as a two-day event, including one day on board of research vessels. The workshops will take place in Kiel at GEOMAR Helmholtz Centre for Ocean Research Kiel.

Agenda Tuesday 04.08.2020

Venue: GEOMAR (east shore Campus)

09:00	Welcoming words & group photo DAIMON & GEOMAR representatives	Executives and technicians together
09:20	„Introduction into the case“ Discovery of munition compound. How significant are the risks? How to find answers? Which data are needed to fulfil the requirements of the Toolbox? Technical tasks. Presentation of the DAIMON Toolbox	Executives and technicians separated
10:00	Cruise RV CLUPEA, RV HAITHABU, RV LITTORINA Data acquisition and compilation on board of the RV. RV CLUPEA (TI): Fisheries, fish health, chemical analyses of fish samples RV HAITHABU (MELUND): Sediment sampling, water sampling, ROV RV LITTORINA (GEOMAR): Water sampling, AUV, multibeam, Side Scan Sonar	Executives and technicians together
16:30	Return to Kiel	

05.08.2020, Wednesday

Workshop 2nd day

The second day of the workshops is mainly dedicated to the evaluation, assessment of the data collected and the decision regarding the specific case.

For this purpose, the legal framework conditions and the DSS will be discussed for the executives. The technicians will be informed in detail about the applied and further methodologies; further focus will be on data formats (data for AI applications, TUC).

Agenda Wednesday 05.08.2020

Venue: GEOMAR (east shore Campus)

09:00	Executives: Data evaluation and assessment in accordance to the Toolbox (DAIMON, TI, EGEOS, TUC, GEOMAR,CAU) Technicians: Data evaluation and compilation, detailed Information on how different methods (Sediment, water, biota, hydroacustics) are conducted (DAIMON, TI, EGEOS, TUC, GEOMAR, CAU)	Executives and technicians separated
12:00	Lunch	Executives and technicians separated
13:00	Executives: Decision criteria and application of the DSS (EGEOS, TUC) and further implications	Executives and technicians separated

06.08.2020, Thursday

Second workshop (1st day) with new participants. Same agenda as from Tuesday, 04.08.2020.

07.08.2020, Friday

Second workshop (2nd day) with new participants. Same agenda as from Wednesday, 05.08.2020.

For more information:

DAIMON - *Decision Aid for Marine Munitions* - <https://www.daimonproject.com/>

TI - Thünen-Institute of Fisheries Ecology - <https://www.thuenen.de/en/fi/>

EGEOS - <https://www.egeos.de/> and <https://www.amucad.org/>

TUC - *Clausthal University of Technology* - <https://www.tu-clausthal.de/en/> and <https://dssi.in.tu-clausthal.de/new/login.php>

MELUND - Ministerium für Landwirtschaft, Umwelt, Natur und Digitalisierung / State Government Schleswig-Holstein - https://www.schleswig-holstein.de/DE/Landesregierung/V/v_node.html and <https://www.schleswig-holstein.de/DE/Fachinhalte/M/meeresschutz/kampfmittelStoffe.html>

GEOMAR - *Helmholtz Centre for Ocean Research Kiel* - <https://www.geomar.de/forschen/>

CAU - *Kiel University Christian Albrecht* - <https://www.uni-kiel.de/en/>