WP6 Applications of iAOS towards stakeholders - general update and workplan per task

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WP 6 Main objective

Demonstrate the economic value and societal benefit of enhanced integration of data from Arctic observing systems through a suite of selected applications towards industry, governance, local communities and research

INTAROS

WP6 TASKS

6.0   Scientific Coordination

6.1   Improving skill of climate predictions

6.2   Improved ecosystem understanding and management

6.3   **NB** New task integrating old 6.3 and 6.7

6.4   Natural hazards in the Arctic

6.5   Data assimilation to advance process understanding in Arctic greenhouse gas exchange

6.6   Cross-fertilize local and scientific observations

6.8   Fisheries and environmental management

WP6 TASK LEADERS

Task	Task leader
6.0 Coordination	G. **Ottersen and M. Sejr**
6.1 Climate models	**Ralf Döscher, SMHI**
6.2 Ecosystem	**Gro van der Meeren, IMR**
6.3 *Integrates old 6.3 and 6.7*	**Hanne Sagen, NERSC; Erik Buch, EuroGOOS**
6.4 Natural hazards	**Anne Solgaard, GEUS**
6.5 Greenhouse gases	**Mathias Göckede, MPG**
6.6 Local and scientific observations	**Lisbeth Iversen, NERSC**
6.7 *Now integrated with 6.3*	
6.8 Fisheries and env. Management	**Marie Maar, AU**

Activities in new Task 6.3
lead by Hanne Sagen and Erik Buch

- Activity 1: Integrative analysis: ice-ocean statistics using remote sensing and in situ measurements

- Activity 2: Baseline description of Arctic Acoustic environments

- Activity 3: Ice-ocean modelling and assimilation experiments

- Activity 4: Risk management system for maritime activities (DNV GL)

- Activity 5: Formulation of user applications in maritim sector in collaboration with stakeholders.

Deliverables in Month 42 and Final versions Month 58.

WORK PLANS PER TASK

At the initiative of Hanne all WP6 task leaders have been asked to provide a work plan

Hanne has also provided a template, including:

Overview of Partners - People with corresponding Sub-tasks – Ressources
Overall objective, deliverables of task, deadlines and intermediate milestones

Tasks are broken down into Activities (sub-tasks)
For each Activity:
Goal, Phase, Action, Responsible partner(s), (internal) Milestones, Deliverables

Work plans sent to WP6 lead by May 1 have been compiled into one document

Examples from Task 6.3 Hanne and Erik

Partners in Task 6.3

Partner	Contact	Mail adress	Subtask	Resources MM
NERSC (lead)	Hanne Sagen	Hanne.Sagen@nersc.no	1, 2, 3, 4, 5	14
EUROGOOS (lead)	Erik Buch	Erik.buch@eurogoos.eu	4, 5	8,2
AWI	Thomas Soltwedel	thomas.soltwedel@awi.de	1	2
IOPAN	Agnieszka B. Møller, Waldemar Walczowski	abesz@iopan.gda.pl walczows@iopan.gda.pl	1	4
DTU	Ole Andersen Carsten A. Ludwigsen	oa@dtu.space.dk caanlu@space.dtu.dk	1	4
FMI	Bin Cheng	Bin.Cheng@fmi.fi	1	7
IFREMER	Fanny Ardhuin	fanny.ardhuin@ifremer.fr		
UB	Georg Heygster	heygster@uni-bremen.de	1	7
UHAM	Guokun Lyu Detlef Stammer	guokun.lyu@uni-hamburg.de Detlef.Stammer@uni-hamburg.de	3	14,4
ARMINES	Hans Wagernagel	hans.wackernagel@mines-paristech.fr	1	8
DNV GL	Øyvin Aaanes Øyvin Endresen	oivin.aarnes@dnvgl.com Oyvind.Endresen@dnvgl.com	4	12
CNRS - LOCEAN	Marie-Noelle Houssais	marie-noelle.houssais@locean-ipsl.upmc.fr		4
CNRS-IUEM	??		2	
UNIS	Frank Nilsen	frank.nilsen@unis.no	1	
IMR	??			
UiB-GFI	??			
WHOI??	??		1	
SIO??	???		2	

Deliverables in Task 6.3

#	Action	Responsible	Intermediate milestones
1	**D6.4: Ocean Statistics and state estimation V1** • Collect Inputs from activity 1-3 • Prepare 1 draft of D6.4 • Feedback from partners • 2. Draft of D6.4 • Feedback from partners • Final report	 NERSC NERSC All NERSC All NERSC	 01-03-2020 21-03-2020 15-04-2020 01-05-2020 10-05-2020 20-05-2020
2	D6.5: Risk assessment system. First results of using integrated data from iAOS into a risk assessment system. (Activity 4) • Prepare first draft of D6.5 • Feedback from partners • Second Draft of D6.5 • Feedback from partners • Final report	DNV	 01-03-2020 21-03-2020 15-04-2020 01-05-2020 20-05-2020
3	Prepare D6.9 Report on business development and economic potential. May 2021, Lead EuroGOOS • Collect Inputs from Activity 1-4, • Prepare 1 draft of D6.9 • Feedback from partners • 2. Draft of D6.9 • Feedback from partners • Final report	 EuroGOOS EuroGOOS All EuroGOOS All EuroGOOS	 01-03-2021 21-03-2021 15-04-2021 01-05-2021 10-05-2021 20-05-2021

+ deliverable 4,5,6

Examples from Task 6.3 Hanne and Erik

Activities in Task 6.3

Activity 2 Baseline description of Arctic soundscape

Work Plan

	Action	Responsible*	Intermediate Milestone
1	Overview of available passive acoustic data in the Arctic in collaboration with IQOE working group on ocean acoustics using the QA and QB from WP 2.	NERSC	November 2019
2	Develop a standard of how to describe the sound scape together with IQOE	NERSC	April 2020
3	Process the data according to the standards to produce knowledge about the current status as described by available data.	NERSC	April 2020
4	Provide final input to D6.4	NERSC	May 2020.
5	Process and analyse data available from the UNDER-ICE experiment.	NERSC	May 2021
6	Update the baseline description of the Arctic Sound Scape and provide final input to D6.14	NERSC	Sept 2021

WORK PLANS PER TASK

Example from Task 6.2 Gro

Activity 6.2.2 Disko Bay

Work Plan

		Action	Responsible*	Deadline Milestone
1		Collect and select data	AU	August 2019
2		Calibrate models	AU	December 2019
2		Run analyses and prepare results for report D6.2	AU, DTU	March 2020
4		Publish report as final D6.2	AU	May 2020
5		Run analyses and prepare results for stakeholder workshop in task 6.8 and report D6.12	AU, DTU	Sep 2020
6		Workshop to present Barents Sea and Greenland water results and outline the common report (D6.3)	IMR/AU/DTU	January 2021
7		Final report delivery on D6.12	AU	December 2021

WORK PLANS PER TASK

Example from Task 6.4 Anne

Activity 6.4.2 Earthquakes

Work Plan

	Action	Responsible*	Deadline Milestone
1	Data • Define data needed for analysis; parameters and time period • Extract data from iAOS	GEUS GEUS	2020-02-01 2020-04-01
2	Analysis • Test and decide on possible improvements on analysis tools • Define the outputs and presentation results based on expressed user requirements • Perform initial analysis • Present preliminary results and output for selected stakeholders for feedback • Perform analysis based on stakeholder feedback	GEUS UIB GEUS UIB GEUS	2020-06-01 2020-08-01 2020-10-01 2020-12-01 2021-03-01
3	Prepare input to D6.16 and target results using the stakeholder needs identified in WP1. • Collect Inputs from activity 1 and 3, • Prepare 1 draft of D6.16 • Feedback from partners • 2. Draft of D6.16 • Feedback from partners • Final report	GEUS UIB UIB GEUS UIB GEUS	2021-05-15 2021-06-01 2021-06-15 2021-08-01 2021-08-15 2021-09-01