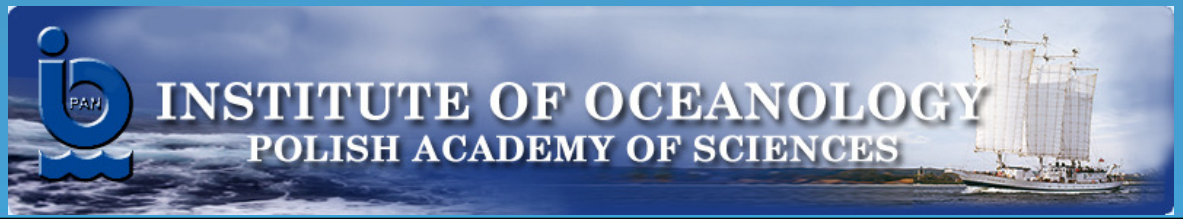
AWAKE-2 K-O meeting
31 May 2013, Sopot, Poland

Arctic climate system study of ocean, sea ice and glaciers interactions in Svalbard area.

Waldemar Walczowski
Institute of Oceanology Polish Academy of Sciences



AGENDA

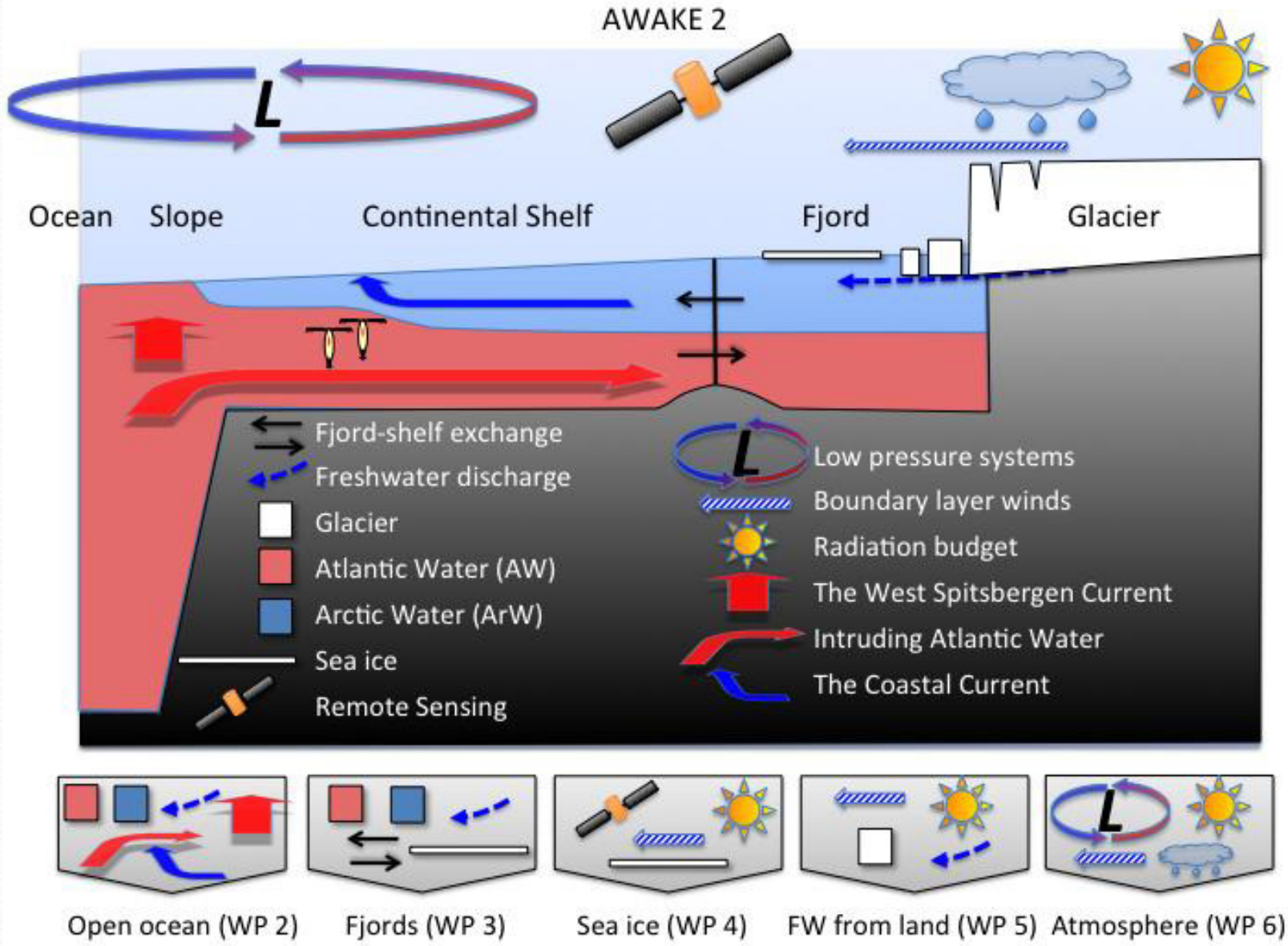
- *10:00 - 10:15 Welcome, short round table presentation of project partners, housekeeping matters*
- *10:15 - 10:45 Introduction to the project structure (Waldemar)*
- *Presentations and discussion of the project Workpackages (including a flexible coffee break):*
- *10:45 - 11:15 WP1 "Project management and dissemination" (Waldemar)*
- *11:15 - 11:45 WP2 "Open ocean oceanography" (Agnieszka)*
- *11:45 - 12:15 WP3 "Fjord oceanography" (Eva)*
- *12:15 - 13:30 Lunch break*
- *13:30 – 14:00 WP4 "Sea Ice" (Frank)*
- *14:00 -14:30 WP5 "Freshwater from the land" (Mariusz)*
- *14:30 - 15:00 WP6 "Atmosphere and climate change" (Rajmund)*
- *15:00 - 15:30 WP7 "Synthesis" (Stein)*
- *15:30 – 16:00 Coffee break*
- *16:00 - 16:30 Discussion of field work plans for 2013 and 2014*
- *16:30 – 17:00 Administrative issues: Partnership Agreement, budget, reporting, next meetings*
- *17:00 – 18:00 General discussion and concluding of the AWAKE Kick-off Meeting*
- *19:00 Meeting dinner (Bulaj)*

Partners

- *Institute of Oceanology PAS (project promoter)*
- *Nansen Environmental and Remote Sensing Center*
- *Norwegian Polar Institute*
- *The Norwegian Meteorological Institute*
- *The University Centre in Svalbard*
- *Nicolaus Copernicus University*
- *University of Silesia*
- *Institute of Geophysics, Polish Academy of Sciences*

AWAKE-2 is the multidisciplinary research project investigating the Arctic climate system where the ocean interacts with the atmosphere, sea ice, fjords and tidewater glaciers

The project will investigate climate processes on regional scale which can have impact on the entire Arctic climate system.
The interaction between hydrosphere, cryosphere and atmosphere will be studied on regional scale and will be a contribution to polar research.


AWAKE 2
L
Ocean
Slope
Continental Shelf
Fjord
Glacier
Fjord-shelf exchange
Freshwater discharge
Glacier
Atlantic Water (AW)
Arctic Water (ArW)
Sea ice
Remote Sensing
L
Low pressure systems
Boundary layer winds
Radiation budget
The West Spitsbergen Current
Intruding Atlantic Water
The Coastal Current
L
Open ocean (WP 2)
Fjords (WP 3)
Sea ice (WP 4)
FW from land (WP 5)
Atmosphere (WP 6)

AWAKE-2 will focus on specific processes in the Svalbard area using historical data, new observations and dedicated model runs

- *Impact of the Atlantic Water variability in the West Spitsbergen Current on the adjacent shelf- and fjord ocean climate;*
- *Exchange processes between shelf and fjord;*
- *Freshwater input and distribution in an Arctic fjord (Hornsund);*
- *Sea ice variability and its impact on fjord circulation;*
- *Glaciers dynamics and interactions between ocean and glaciers;*
- *Atmospheric climate variability and trends in the coastal areas of the western Spitsbergen.*

AWAKE-2 is divided into four phases

2013 Preparatory Phase

- *Field measurements to extent the main meteorological, glaciological and oceanographic time series*
- *Analysis of historical data.*
- *Preparatory phase for the core campaign*
- *Recognition of a main features of the Hornsund hydro-glaciological basin.*

2014

The main campaign in fjords and in the open ocean

The main goal is to achieve a complete picture of all climatic components in Hornsund and in the region potentially influencing the Hornsund conditions, i.e. the West Spitsbergen Current, slope and shelf, the Spitsbergen Coastal Current.

The main observed processes will include:

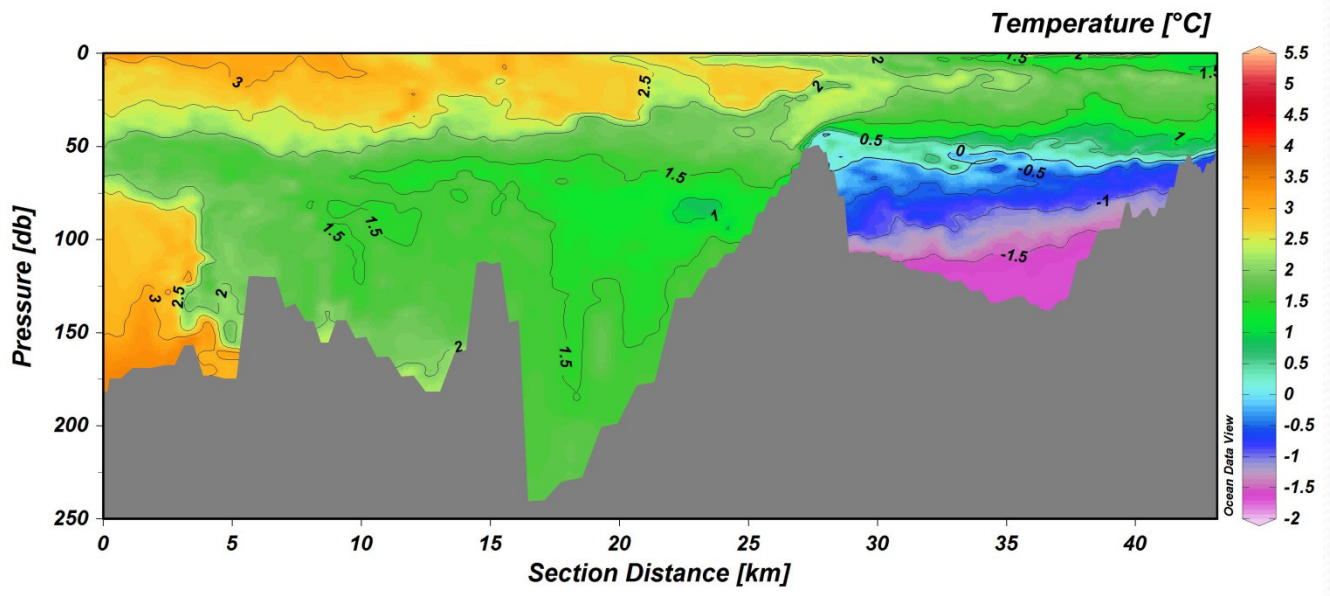
- *exchange of water masses between open ocean, shelf area and fjords;*
- *ocean-atmosphere fluxes in the open ocean, shelf and in fjords;*
- *melting and calving of glaciers, river discharge and precipitation/evaporation;*
- *variability of sea-ice concentration on the shelf and in fjords.*

2015

- *Further extension of the core parameters time series.*
- *Analysis and synthesis of the new data provided by the core field campaign.*
- *Potential possibility to repeat measurements failed in 2014.*

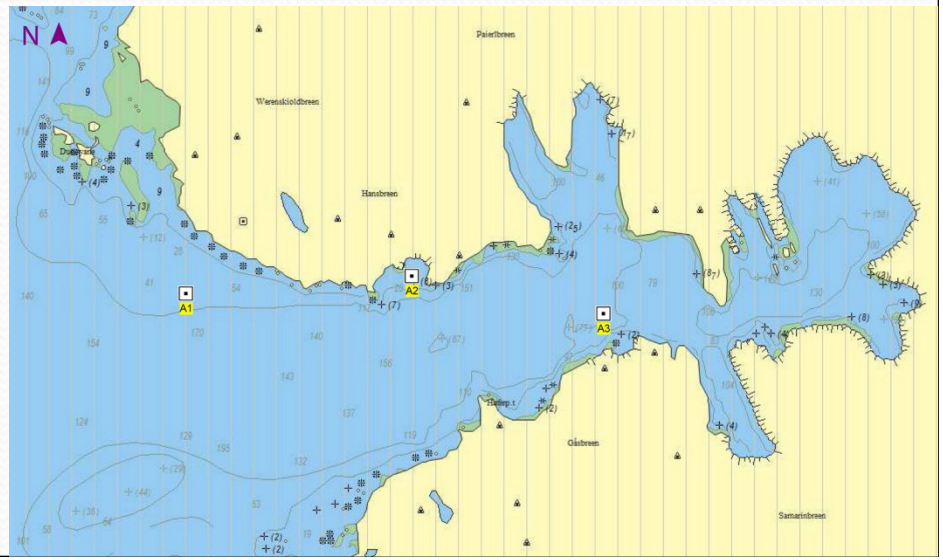
2016

- *Joint analysis of the project data and a synthesis of the new results obtained in different spheres (hydro-, cryo- and atmosphere) of the studied fjord system.*



Highlights

- *Utilizing the AWAKE 1 data and experiences*
- *Close cooperation between partners*
- *2014 – the most important phase of the project – unique snapshot*
- *PUBLICATIONS*
- *What result do we expect ? (Intended long-term application of outcomes)*



AWAKE WP1

Project management and dissemination

Objectives

- *organize project meetings including kick-off and final meetings;*
- *establish and maintain a communication with the NCBIR through the responsible Scientific Officer;*
- *follow up the project work plan including provision of deliverables at the agreed deadlines;*
- *taking necessary actions in case of deviations;*
- *prepare and submit all official project reports required by the NCBIR to schedule;*
- *administer all financial/budgetary aspects of the project;*
- *establish and maintain all communication by the project, especially a project website, press releases and other relevant information material*
- *establish and maintenance of the program data base*

WP1 will be joint responsibility of IOPAS and NERSC

AWAKE WP1

Project management and dissemination

Tasks

- *T 1.1 Project management (IOPAS)*
- *T 1.2 Financial and administrative project management (IOPAS)*
- *T 1.3 Project data management (NERSC)*
- *T 1.4 Dissemination and webpage (IOPAS)*

AWAKE WP1

Project management and dissemination Deliverables

- *D1.1 Kick Off meeting report (IOPAS- Mo 03)*
- *D1.2.1 Annual reports (IOPAS- Mo 8, 20, 32)*
- *D1.2.2 Final report (IOPAS- Mo 36)*
- *D1.3 Project database (NERSC Mo 12)*
- *D1.4 Project Web Page (IOPAS Mo 6)*

AWAKE WP1

Project management and dissemination

Milestones

- *M1.1 AWAKE-2 kicked off (Month 1)*
- *M1.2.1 AWAKE-2 mid-term reached (Month 18)*
- *M1.2..2 Project completed successfully (Month 36)*
- *M1.3 Project database fully operational (Month 12)*
- *M1.4 Project webpage fully operational (Month 6)*

- *11:15 - 11:45 WP2 “Open ocean oceanography” (Agnieszka)*
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Administrative issues

- *Partnership Agreement*
- *Steering Committee*
- *Budget*
- *Reporting*
- *Next meetings*

Budget

- ***Requested: 4 098 604 PLN***
- ***Received: 4 056 284 PLN***

The General Assembly, The Scientific Steering Committee

- *The General Assembly, which will have representatives from all partners, is the decision making body.*
- *The Scientific Steering Committee (SSC) will be established, including of one representative from each partner to monitor progress of the project and prepare the General Assembly agenda;*
- *each partner institution will appoint the Principal Investigator and the Financial Officer*

Partners

- *Institute of Oceanology PAS*
- *Nansen Environmental and Remote Sensing Center*
- *Norwegian Polar Institute*
- *The Norwegian Meteorological Institute*
- *The University Centre in Svalbard*
- *Nicolaus Copernicus University*
- *University of Silesia*
- *Institute of Geophysics, Polish Academy of Sciences*

			WP1	WP2	WP3	WP4	WP5	WP6	WP7	SSC
Promoter		IOPAN	*****	*****	*****				*****	Waldek Walczowski Agnieszka Beszczynska-Moeller
P1.		NERSC	*****			*****			*****	Stein Sandven
P2		NPI							*****	Arild Sunfjord
P3		MetNo							*****	Øyvind Nordli
P4		UNIS		*****	*****	*****			*****	Frank Nilsen Eva Falck
P5		NCU						*****	*****	Rajmund Przybylak
P6		US					*****		*****	Mariusz Grabiec
P7		IGF					*****		*****	Adam Nawrot

Meetings

- *Scientific Steering Committee will meet every six months*
- *The General Assembly will meet every year.*
- *The GA will be complemented by workshops and conferences.*
- *The final GA and scientific meeting will approve the final report and discuss the conclusions of the project.*

- *17:00 – 18:00 General discussion and concluding of the AWAKE Kick-off Meeting*
- *19:00 Meeting dinner (Bulaj)*