

→ BALTIC FROM SPACE WORKSHOP

29–31 March 2017 | Helsinki, Finland

PROGRAMME

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European Space Agency

SCIENCE COMPONENT

Session	Main Content
Salinity & Physical Oceanography in the Baltic Sea	Basic physics of the Baltic Sea , Kai Myrberg, Finish Environment Institute (SYKE) (FI)
	Baltic ocean dynamics, Jüri Elken, Tallinn University of Technology, (EE)
	Salinity Dynamics in the Baltic sea, Andreas Lehman, GEOMAR (DE)
	EO potential (SMOS/SMAP) to map SSS dynamics in the Baltic sea, Antonio Turiel, CSIC (ES)
	Open Discussion
Biochemical feedbacks in the Baltic Region	Biochemical feedbacks: Overview of the problem and scientific questions, Gregor Rehder, Leibniz Institute for Baltic Sea Research Warnenunde (IOW) (DE)
	Using bio-optics and remote-sensing to evaluate coastal influence on Baltic Sea water quality, Susanne Kratzer, Stockholms University (SE)
	Land-sea biochemical transfer from EO, Tiit Kutser, University of Tartu (EE)
	Bridging the divide between satellite and shipborne sensing for water quality assessment, Jenni Attila, SYKE (FI)
	Open Discussion

SCIENCE COMPONENT

Understanding sea level dynamics in the Baltic Sea	Sea level in the Baltic Sea: Changes and variability across time scales, Ralf Weisse, HZG (DE)
	Altimetry perspectives for the Baltic Sea Level, Kristine Madsen, DMI (DK)
	Potential of SAR and SARIn in coastal altimetry in the Baltic Sea, Ole Andersen, DTU (DK)
	Geodetic SAR for Sea Level and Height System Unification in the Baltic, Thomas Gruber, TUM (DE)
	Open Discussion
Natural hazards, extreme events and climate change impact on the water cycle in the Baltic	Introduction to the problem and science questions, Jari Haapala, FMI (FI)
	Detecting sea ice extremes by satellites, Eero Rinne, FMI (FI)
	Extreme winds, Merete Badger, DTU (DK)
	Climate Change and the water cycle in the Baltic, Anders Omstedt, University of Gothenburg (SE)
Open Discussion	
Other scientific priorities in the Baltic region	Sea-air interactions: CO2 fluxes, Anna Rutgersson, Uppsala University (SE)
	Forest and Carbon cycle in the Baltic, Toumas Häme, VTT (FI)
	SatBaltyk Sytem, Miroslaw Darecki, Institute of Oceanology PAS (PL)
	Open Discussion

APPLICATION AND SERVICES COMPONENT

Session	Main Content
Environmental monitoring	Custom services for Baltic Environment Monitoring, Ina Lorkowski, BSH, DE
	EO for HELCOM Vivi Fleming-Lehtinen, SYKE, FIN
	Pollution and eutrophication, Heikki Pitkänen, SYKE FIN
	Airborne/spaceborne data for monitoring sensitive habitats, Dainis Jakovels, IES, LV
	Open Discussion
Security, Transport and Economic Development	Maritime Transport and Maritime Security Issues, Heidi Kuusniemi, FGRI, FIN
	Increasing the value of satellite data through modelling of marine waters, Hanne Kaas, DHI, DK
	Examples of Big Data Analytics in the Baltic Region, RISE, SWE
	Smart Cities in the Baltic, Esther Kreutz, UBC, INT
	Open Discussion

APPLICATION AND SERVICES COMPONENT

Commercial and Operational Geo-Information Services	Maritime Spatial Planning in the Baltic, Jacek Zaucha, Gdansk Maritime, Institute, PL
	Territorial Planning and Management, Agata Hoscilo, IGIK, PL
	Grasslands Monitoring, Kalev Koppel, KappaZeta, EE
	Natural Resources Management, Kestutis Papšys, GIS Centras, LT
	Open Discussion
Perspectives from Regional and International Initiatives	Copernicus Core Services for the Baltic, EC DG GROW, EU
	Copernicus Marine Environment Service, Laura Tuomi, FMI, FIN
	Development of new national monitoring services in Lithuania, Diana Vaiciute, Klaipeda University, LT
	Water quality monitoring for WFD, MSFD and Helcom, Petra Phillipson, Brockmann Geomatics, SWE
	Forest management - current capabilities and future opportunities, Mattias Renne, Reach-U, EE
	Open Discussion

DATA INFRASTRUCTURE COMPONENT

Session	Main Content
Environment data for the Baltic region I	Data and services at the Estonian CollGS, S. Lätt, Enterprise EE
	Data and services at the Finnish CollGS, J. Heilimo, FMI
	Data and services at the German CollGS, J. Hoffmann, DLR
	Data and services at the Swedish CollGS, K. Holmquist, SNSB
	Data and services at the Polish CollGS, B. Mikolajek-Zielinska, Min. of Sci. and Higher Education, Poland
Environment data for the Baltic region II	EUDAT, P. Öster, CSC.FI
	HELCOM data and map services, J. Kaitaranta, HELCOM
	Open Data from SYKE, Y. Sucksdorff, SYKE
	EMODNET Baltic Sea Checkpoint, K. Skov-Madsen, DMI
	ICES Ecosystem Data Portal, M. Dickey-Collas, ICES DK
Collaborative Platforms	Forestry TEP, T. Häme/R. Tergujeff, VTT
	Coastal TEP, S. Clerc, ACRI (TBC)
	Hydro TEP, D. Gustafsson, SMHI
	Polar TEP, E. Rinne, FMI
	Urban TEP, M. Boettcher, Brockmann Consult

DATA INFRASTRUCTURE COMPONENT

Big Data Infrastructures	<p>Copernicus data access, DIAS, A. Veispak, DG-GROW Earth Observation data in SAP HANA , O. Genis, SAP European Open Science Cloud, C. Martinez, DG-CONNECT Amazon Web Services , J. Sundwall, AWS Google Earth Engine, N. Gorelick, Google NEXT GEOSS, N. Catarino, Deimos IPT Poland, M. Krzyzanowsk, Cloudferro</p>
Panel: Towards a Baltic initiative – data and infrastructures	<ul style="list-style-type: none"> · Panel introduction · Panel discussion · Wrap-up

DAY 1 Wednesday 29 March 2017

09:15 - 10:40	Welcome and Introduction to the Workshop	
	· Welcome, FMI · Introduction to the workshop, ESA · Welcome talk, EC DG-Grow · Welcome talk, Baltic Earth · Welcome talk, BONUS	
10:40 - 11:10	Coffee break	
11:10 - 12:50	Salinity & Physical Oceanography in the Baltic Sea	Environment data for the Baltic region I
12:50 - 14:00	Lunch break	
14:00 - 15:40	Biochemical feedbacks in the Baltic Region	Environment data for the Baltic region II
15:40 - 16:10	Coffee break	
16:10 - 17:50	Understanding Sea Level Dynamics	Collaborative Platforms
17:50 - 19:00	Poster session and cocktail	

Science	Applications	Infrastructure
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DAY 2 Thursday 30 March 2017

09:00 - 10:40	Climate, Natural Hazards, Extreme Events...	Environmental Monitoring
10:40 - 11:10	Coffee break	
11:10 - 12:50	Other Scientific Priorities for the Baltic	Security, Transport and Economic Development
12:50 - 14:00	Lunch break	
14:00 - 15:40	Commercial and Operational Geo-Information Services	Big Data Infrastructures
15:40 - 16:10	Big Data Infrastructures	
16:10 - 17:50	Perspectives from Regional and International Initiatives	Towards a Baltic initiative – data and infrastructures
17:50 - 19:00	Poster session and cocktail	

Science	Applications	Infrastructure
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DAY 3 Friday 31 March 2017

09:00 - 10:00	Weak-up keynote: A view on future Baltic science, Markku Kulmala, University of Helsinki (FI) Summary Session and panel discussions
10:00 - 10:30	Coffee break
10:30 - 12:30	Continuation of Summary Session: Reporting and discussion: - Science - Novel Applications - Infrastructures Open discussion: Evolution to 2021 and beyond

Science Applications Infrastructure

notes:

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The Scientific
component of
this workshops is
organised jointly
with Baltic Earth



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