

Space Sciences Committee of the Polish Academy of Sciences, Gdańsk Branch

*in cooperation with*

Baltic Sea & Space Cluster

and Institute of Oceanology Polish Academy of Sciences

*under the honorary patronage of the*

Polish Space Agency (POLSA)

*invite for conference:*

**Safe Planet & Space: Letter from Utopia**

**23 March 2023**

*Institute of Oceanology Polish Academy of Sciences*

*Sopot, Powstańców Warszawy 55*

## **AGENDA**

**09:00-9:30 Registration of participants**

**09.30-10.00 Opening Session**

Prof. Marcin Węśławski, Director of the Institute of Oceanology Polish Academy of Sciences

Prof. Edmund Wittbrodt, Chair of Space Sciences Committee of the Polish Academy of Sciences of  
Gdansk Branch

Prof. Grzegorz Wrochna, President of the Polish Space Agency

Prof. Mirosław Darecki, Head of Marine Physics Department at IOPAN - introduction to the sessions

Prof Marek Grzybowski, President of the BSSC, Gdynia, Deception of satellites and IT networks.

Bypassing sanctions in maritime transport after Russia's attack on Ukraine in the global  
transport of strategic raw materials

**10:00-11:15 Young Stars**, chaired by Prof Andrzej Stepnowski

Bartosz Rybacki, Wojciech Wysocki, PG Gdańsk, AMBER - Autonomous Modular Biotechnological  
Experiment on a Rocket

Marcin Jasiukowicz, Magdalena Sadowska, PG Gdańsk, SimLE Stardust - stratospheric platform to  
reach the skies

Patryk Sapiega, IMGW Gdynia, Satellite data as a component of multi-stream verification and  
calibration of the SWAN wave model

Maximilian Minta, NEPTUN STUDIO, Gdańsk, Modeling of security issues aimed in validation of  
artificial intelligence algorithms and the logic of unmanned and warning systems.

Katarzyna Dragańska-Deja, IOPAN Sopot, Detection of environmental changes - satellite remote  
sensing in the Arctic region.

Monika Gierszewska, PG, Gdańsk, Application of machine learning in flooding extent mapping using  
SAR data

Contact: [KNK2023@iopan.pl](mailto:KNK2023@iopan.pl)

IO PAN: dr Joanna Stoń\_Egiert +48 (58) 731 18 16, e-mail: [aston@iopan.pl](mailto:aston@iopan.pl)

BSSC: dr Paweł Chyc, mob. +48 514 784 017, e-mail: [p.chyc@wsaib.pl](mailto:p.chyc@wsaib.pl)

### **11:15 -11:30 Coffee break**

### **11:30 -13:00 Space and sea – application, Expert Panel**

Moderator: Marek Grzybowski PhD prof. (em) Maritime University

Maciej Brzozowski, Hafen Hamburg Marketing e.V. Port of Hamburg office in Poland -  
the introductory presentation: Port of Hamburg - Security and cybersecurity in terminals, ship  
traffic, cars and trains (case study)

Panel: Are Polish ports at the same level of security in the organization of ship, car, train and inland  
transport as the Port of Hamburg? In the times of the hot war in Ukraine and the threat of  
disruption of logistics chains, should Poland continue to develop resistance to satellite  
espionage and cyberattacks, physical threats from land and sea, and the threat of drone  
attacks?

Panelists:

Dominik Landa, Senior Executive in Maritime, Logistics and SCM

Kacper Synowiecki, Security Director, Pion Dyrektora Naczelnego, Port of Gdynia Authority  
Representative of the Port of Gdańsk Authority

Maximilian Minta, CEO of NEPTUN STUDIO

Andrzej Stateczny, prof. dr hab. Eng., President of the Management Board, Marine Technology

Krzysztof Anzelewicz, vicepresident, Baltic Sea & Space Cluster

### **13:00-13:30 Lunch**

### **13:30 - 15:20 Space and sea -science and applications, chaired by Prof Mirosława Ostrowska**

Mirosław Darecki, IOPAN, Sopot, Satellites as an effective tool for monitoring the Earth's climate  
change

Krzysztof Samp, iTTi, Poznań, International projects on planet and climate protection from the point  
of view of the IT industry

Bożena Łapeta, IMGW Kraków, Satellite data for atmospheric monitoring – estimation of NOx  
emissions from large point sources in Poland

Małgorzata Kępińska-Kasprzak, Piotr Struzik, IMGW Poznań i IMGW Kraków, The use of terrestrial  
and satellite data with various spatial resolutions to monitor processes related to agricultural  
drought from the county to the entire country

Krzysztof Kanawka, Blue Dot Solutions, Gdańsk, Startup accelerator Space3ac - results

### **15:20 - 15:50 Discussion and closing remarks**

*You can still register for the conference at the link <https://www.iopan.pl/KNK2023>*

co-organisers:



Instytut Meteorologii i Gospodarki Wodnej PIB



Komitet Badań Morza Polskiej Akademii Nauk



Konsorcjum Naukowe SatBałtyk

Contact: [KNK2023@iopan.pl](mailto:KNK2023@iopan.pl)

IO PAN: dr Joanna Stoń\_Egiert +48 (58) 731 18 16, e-mail: [aston@iopan.pl](mailto:aston@iopan.pl)

BSSC: dr Paweł Chyc, mob. +48 514 784 017, e-mail: [p.chyc@wsaib.pl](mailto:p.chyc@wsaib.pl)