



Satellite Services for the Maritime Industry



Welcome by Dr. Knut Hartmann | MarSat Project Coordinator and COO at EOMAP

Hello from the MarSat team! The last few months have been very exciting for the MarSat team. It was an excellent opportunity for us to meet with many of you at our second “Maritime Industry meets Space” workshop in Hamburg. This was followed by a number of meet and greets worldwide: The Shallow Survey 2018 in Canada, the Arctic Circle Assembly in Iceland, the HYDRO2018 Conference in Australia, the Arctic Technology Conference in the United States and the Ice Charting Working Group Meeting in Finland. The discussions at all of these maritime industry and hydrography-related meetings documented a paradigm change: the increased understanding and actual uptake of satellite services into large scale surveys and planning processes. In times of generic standards such as IHO S-100 and digitalization, the maritime communities are now taking advantage of these developments and jointly working on interfaces to efficiently integrate powerful solutions and systems in the maritime 4.0 domain. Through this newsletter, we want to share some of these developments. And further foster a fruitful collaboration in our community to sustain a safe, ecological and economically efficient way forward in a highly challenged maritime world.

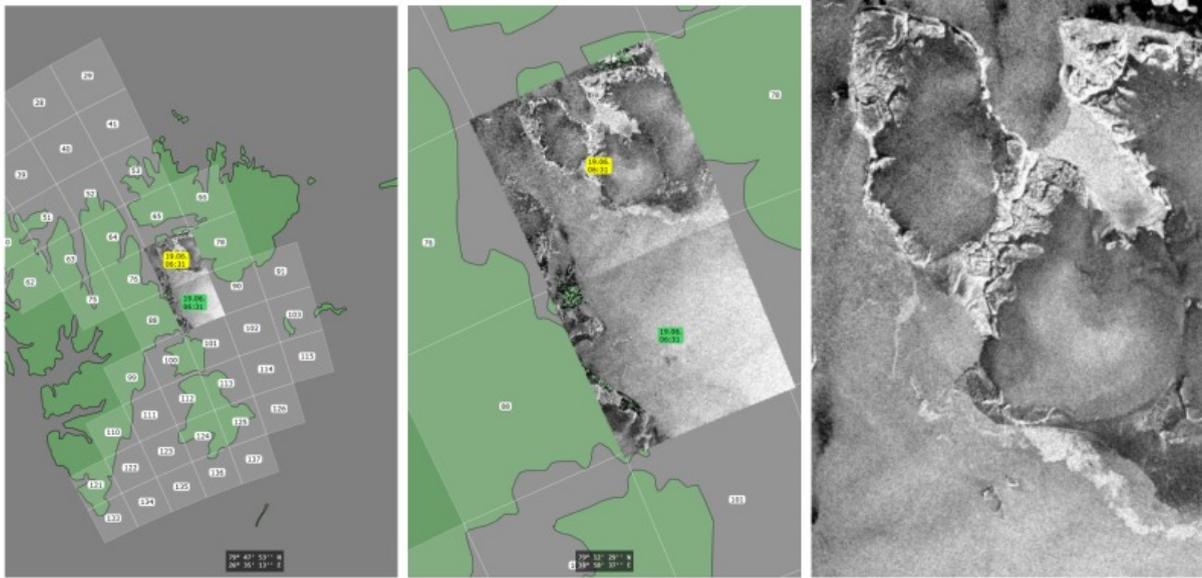
Should you have any questions, please do not hesitate to contact us - we are looking forward to hearing from you!

News and Resources



Going new ways: 2nd MarSat Workshop unlocks the potential value on Satellite Data Services for the Maritime Industry

Following the success of last year's workshop, MarSat, a corporate network of four private companies and a research institute, hosted its second workshop on the important challenges and opportunities digitalization offers for companies in the maritime and marine industry. The workshop took place in Hamburg as part of the SMM, the world's biggest Maritime Trade Fair, earlier this month.



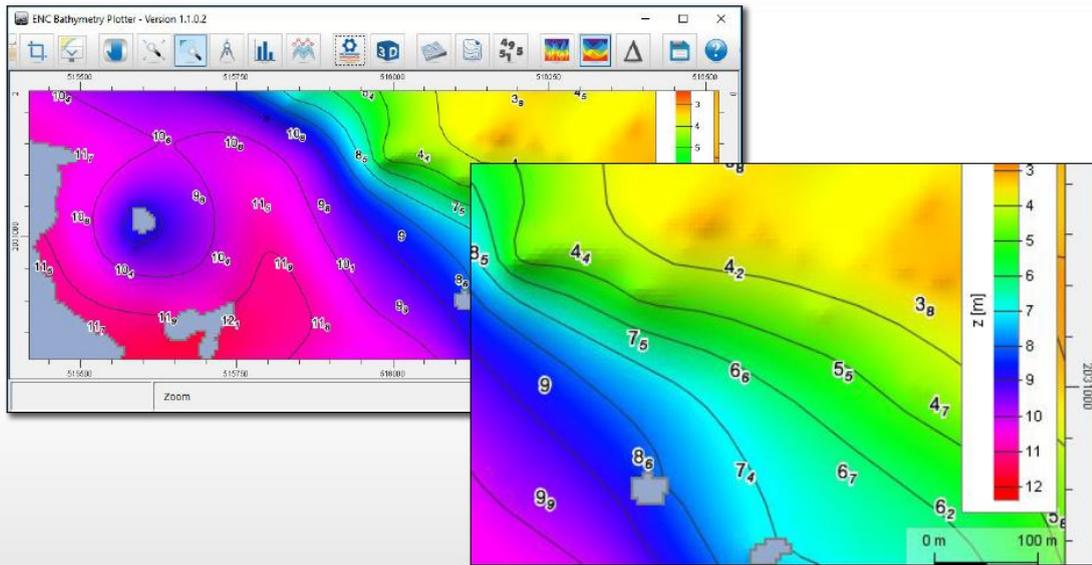
Portable Ice-Pilot Unit Converts Satellite Data into Actionable Information

An Article by Dr. Lasse Rabenstein, CEO at Drift & Noise Polar Services GmbH

Radar satellite images are widely accepted as the most valuable tool for navigation in ice infested waters. With them the experienced ice pilot can extract information about the position and type of marine ice in the working area independent of daylight and clouds. The only pain with such images is their large file size and a cumbersome data handling. Unfortunately, the internet connection on board ships is magnitudes slower than what we are used to on land and in the high latitudes of the Arctic the bandwidth is even further decreased. Two of the MarSat partners, Drift & Noise Polar Services GmbH and TRENZ GmbH, addressed that problem and developed a portable ice-pilot unit.

[Learn more about the Portable Ice-Pilot!](#)

Contour generation and sounding selection



Quality Indications of SDB Data in ECDIS, SDB Day, 6 & 7 June 2018

SevenCs Software

Satellite-Derived Bathymetry-based Chart Production and the impact on voyage planning for improved prevention of maritime accidents

An Article by Friedhelm Moggert-Kägeler, Head of Product Management at SevenCs GmbH

SevenCs has developed a Voyage Planning System that is capable of integrating Satellite-Derived Bathymetry. Mariners only have to specify the voyage details that are related to departure/destination and the vessel parameters. Then they send off a voyage plan request. The system calculates the optimal route based on depth and other information e.g. weather data. A complete voyage plan proposal is then returned to the ship along with updated charts ready for import into the onboard ECDIS system. In waters where SDB data is available it can contribute to the route optimization process. This is of particular use where quality of existing ENC data is poor. The project results were presented at the 2nd MarSat workshop.

[In need for optimized route-planning?](#)



‘Safety of navigation’ through the jungle of digital data using new concepts

An Article by Dr. Thomas Heege, CEO at EOMAP GmbH & Co. KG

Marine and coastal industries are often faced with critical decisions in project planning, execution and navigation operations, which can have significant safety and economic impacts. Therefore, maximizing knowledge of reliable on-site information is of highest importance to marine operations in order to reduce risks and increase efficiency. While many will agree with this, in reality it remains a day-to-day challenge to access this ‘knowledge’. Such knowledge can be defined as data which provide information on specific variables or parameters such as bathymetry, sea state, or oil spill extent. In other words, access to such data is needed to allow decision making and this commonly results in challenges such as: Where do I get my knowledge for specific sites from? What kind of data is available? How reliable is the data? Can I access better data? *This sums up the need to safely navigate among often unknown, not accessible or un-reliable data.*

[Learn more about new digital data concepts!](#)

We are looking for interesting projects - click here to tell us

About the Project

MarSat is financed and coordinated by the DLR German Space Administration with funds of the Federal Ministry for Economy and Energy (BMWi) of Germany.



About the team

The MarSat consortium consists of a multidisciplinary team of five partners including Small and Medium-sized Enterprises and a research institute, covering a wide spectrum of expertise.

Meet the team

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