



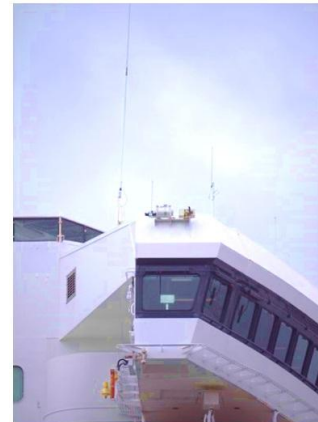
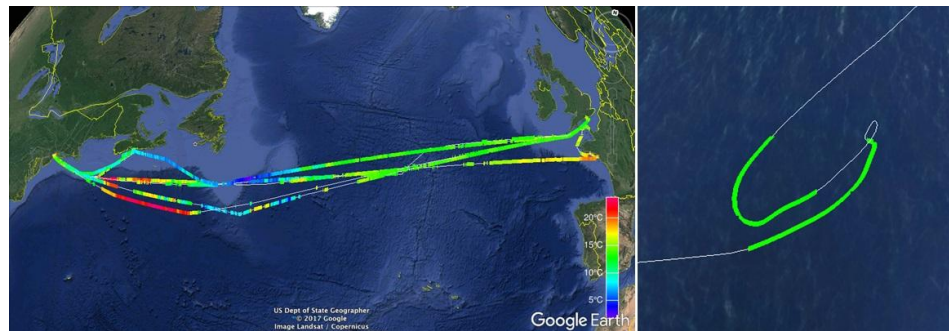
International SST FRM Radiometer Network (ISFRN) Workshop



Steffen Dransfeld, ESA Sentinel-3 Data Quality Manager



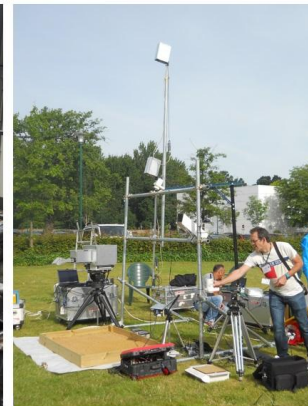
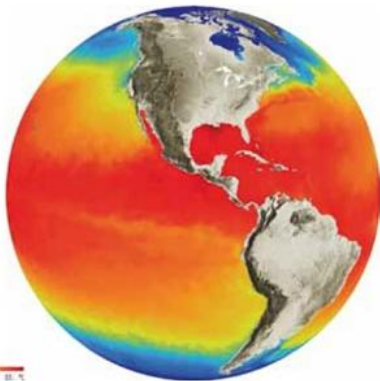
- Shipborne radiometer activities in support of Satellite SST validation have been carried out in the UK since 2004 making use of Ships of Opportunity and the AMT Programme and developing the necessary skill base to deploy, operate and maintain instrumentation
- A contract set-up by ESA to fund a continuous service of radiometer measurements to create a match-up archive for SST validation
- Preparing the way for a validation support of operational missions, i.e. S-3 -> This is where we are now !



1. Sentinel 3 A and B have both been launched Feb 2016 and April 2018 respectively
2. Sentinel 3B has undergone successful commissioning and SLSTR L1 have been opened to the public. L2 SST opening is imminent.
3. Routine Operations Readiness Review is foreseen for end of March 2019

>>This will mark the start of the fully operational S-3 constellation

4. So very much Ships4SST will remain an integral part of operational SST validation !





ISFRN – International SST FRM Radiometer Network

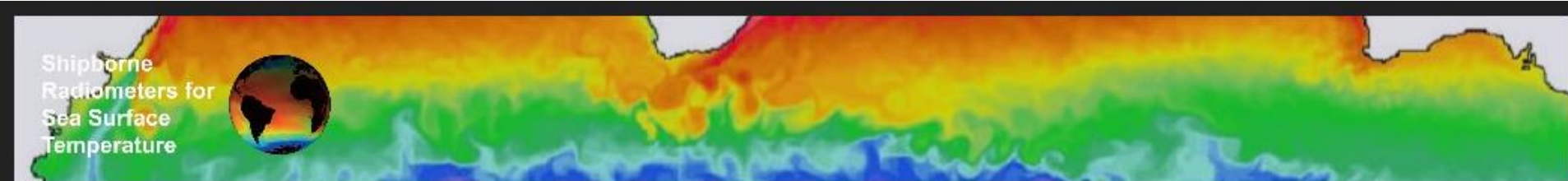


“The International Shipborne Radiometer Network (ISRN) sets out to develop and promote an international network of ocean and remote sensing scientists who share a particular interest in promoting and improving the use of shipborne infrared radiometers for measuring sea surface temperature (SST) at the skin of the ocean, comparable to measurements made by satellite infrared radiometers.”

>> The ESA FRM4STS Project has ‘upgraded’ the ISRN to ISFRN
->International SST FRM Radiometer Network

Deployed radiometers have been intercompared and are now fully characterised in terms of uncertainties and traceable to an SI calibration standard.

Shipborne
Radiometers for
Sea Surface
Temperature



1. Bring together the different radiometer operators to exchange and learn from each others experiences
 - a. Creating new opportunities for deployment of instruments
 - b. Operations and maintenance concepts

2. Assess scope for developing the overall network
 - a. Standards and protocols – level of maturity
 - b. Do we want to make the network grow and how

3. Present the current state of art of the radiometer uncertainty models
 - a. Identify further areas for improvement
 - b. Compare the different in situ instruments

4. Demonstrate and strengthen the contribution of the ISFRN to operational SST validation



Enjoy the Workshop....



...networking with colleagues, (re-)meeting new and old colleagues, having a drink or two and enjoy the social dinner !

Thanks

Shipborne
Radiometers for
Sea Surface
Temperature

