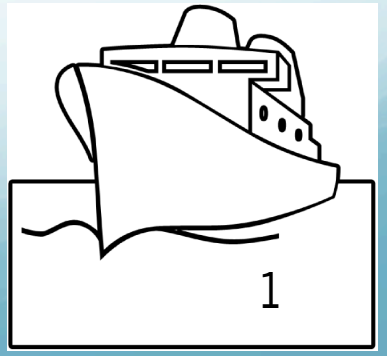
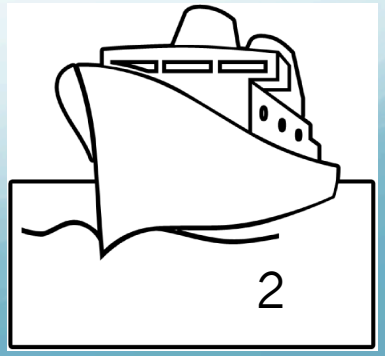
Shipbourne Radiometer Network (SRN)

W. Wimmer, T. Nightingale



Outline

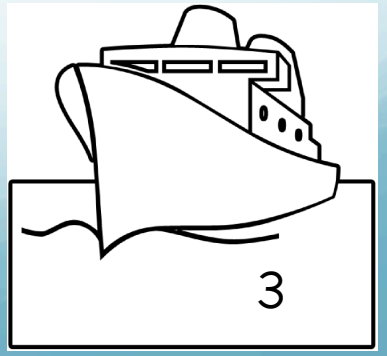
- Motivation
- Scope
- Membership
- Activities
- Data
- Facilities



Why Radiometers

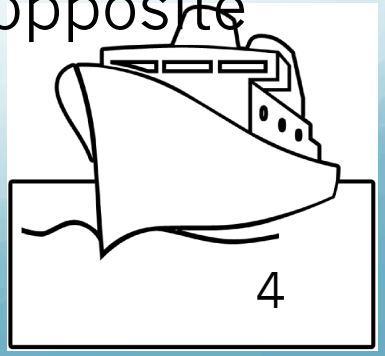
- Validation of SSTskin
- Traceability of measurements
- In the absence of dual-view satellite sensor the reference (fiducial reference measurement)
- Needed for the Gap-Bridging between AATSR an SLSTR

- However global coverage limited



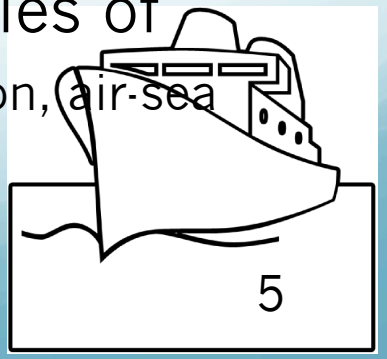
Motivation

- Regions covered by different teams complement each other to achieve effective global coverage
- Ensure consistently high quality measurement standards across all participants
- Promote best practice in the recently emerged methodology of infrared shipborne radiometry to measure skin SST
- Facilitate the intercalibration of ship radiometers
- Encourage operational collaboration such as teams sharing the maintenance of instruments at opposite ends of transoceanic ship routes



Scope

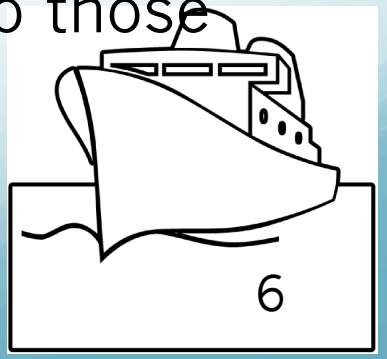
- Exchange of operating advice and information that promote best practice for radiometer deployments
- Establishing protocols for shipborne radiometry including the validation of observations traceable to NMI reference standards
- Agreeing formats for skin SST data retrieved from ship radiometers
- Setting procedures for quality control in order to meet agreed standards of accuracy
- promoting dialogue with the user communities of skin SST reference data (e.g. satellite SST validation, air-sea gas flux measurement, upper ocean hydrography etc.)



Membership

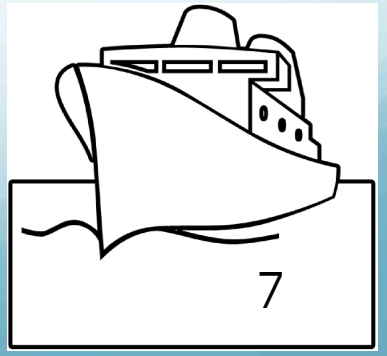
Any person or group:

- Developing, deploying or evaluating shipborne radiometers to measure SST
- Those who have a requirement to use the SST data which radiometers acquire
- Individuals or groups who are considering moving into this field of work
- Additionally, the SRN will welcome involvement by those in related organisations (e.g. GHRSST, JCOMM) with an interest in actively linking the SRN to those other groups.

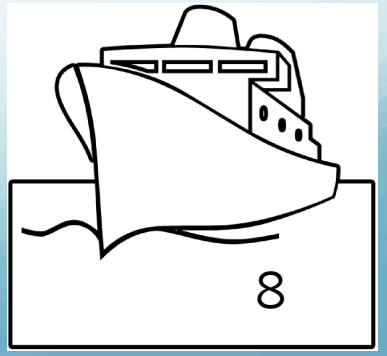


Activities

- Developing a rational network of SOO lines
- Promoting best practice (ISSI, etc.)
- Traceability of radiometer calibration to NMI reference standards
- Radiometer intercomparison exercises
- Quality control of Radiometric SST data
- Evolution of shipborne radiometer design and capability

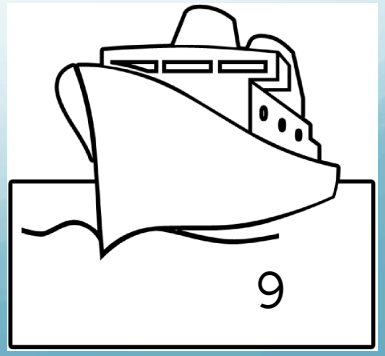


Data format



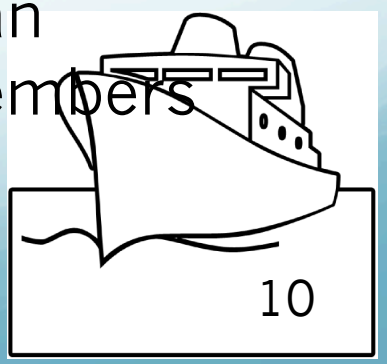
Facilities

- Central Data archive
  - Location?
  - What data can we store?
- Wiki, user forum
  - Exchange experiences
- Documentation
  - Best practice
  - Data format
  - Data Processors



Next Steps

- TN & WW) Establish the network core functions.
  - Name
  - Logo
  - Web presence
- (WW & TN) Identify potential core members
- (WW & TN) Plan the agenda for a meeting within GHRSST-XV ST
- (WW) Email open invitation to potential core members
  - Send a copy of the SRN Development Plan
  - Ask for suggestions of other potential members



Names

- SRN or SBRN
  - -Shipbourne Radiometer Network
- Fido
  - -Fiducial measurements
- Velia
  - -Water bug, Gerridae