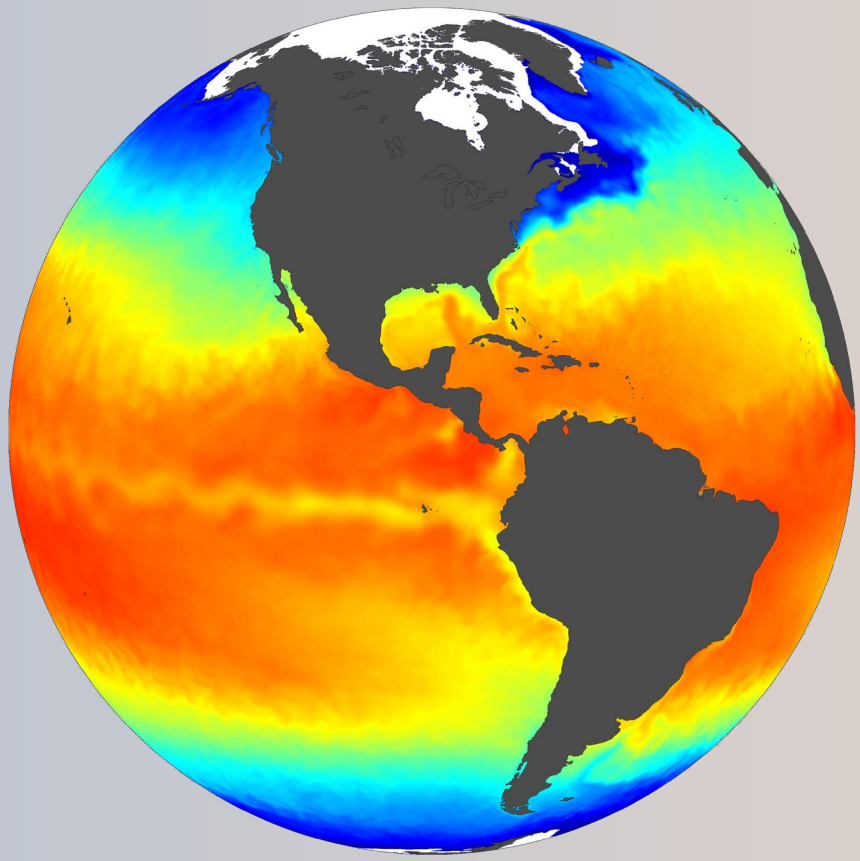


G-XX:
Summary of Future of GHRSST Discussion

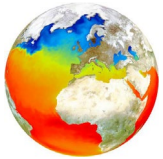
Gary Corlett

To provide operational users and the science community with the SST measured by the satellite constellation

GHRSST
Group for High Resolution Sea Surface Temperature

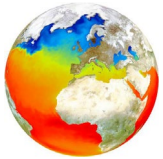
CEOS
Committee on Earth Observation Satellites
Sea Surface Temperature Virtual Constellation

Met Agencies



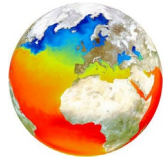
- Strength
  - Truly international collaboration with comprehensive representation
- Weakness
  - Productivity in task team structure has been lagging
- Opportunity
  - Continue to be a strong voice for guidance and products for the operational community
- Threat
  - Maintaining relevance

Users/Under 30s



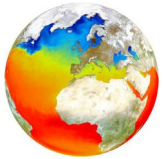
- Strength
  - Community interactions/standardisation
- Weakness
  - Outdated communication & dissemination and of guidance
  - Fear of selection/sharing
- Opportunity
  - Evolution
    - Cloud computing; data fusion
    - Next gen; re-imagine PO & leadership
- Threat
  - Don’t evolve; don’t let younger scientist lead

Academic 1



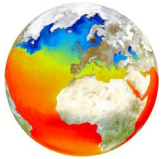
- Strength
  - Collaborative pool of scientist and operational people' rapid dissemination of knowledge
- Weakness
  - Science is being left behind; lack of funding main issue; need to maintain knowledge for when situation changes
- Opportunity
  - Take advantage of new technologies
- Threat
  - Orbital debris; availability of GEO slots; RFI

Academic 2.0



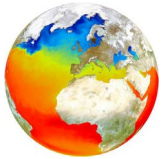
- Strength
  - Mutually fruitful interaction of research and operations in a practical way through meetings and task teams
- Weakness
  - Not enough young blood; in situ/satellite communities interactions could be strengthened
- Opportunity
  - Coupled data assimilation driving demands for better biases, uncertainty information and feature resolution – informed by new satellite data and buoys
- Threat
  - Intractable (partly political) proliferation of products and communication of data quality

Space Agencies



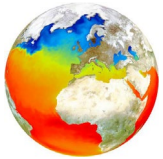
- Strength
  - Connecting user needs with agencies processes
- Weakness
  - Better communication and outreach to users
- Opportunity
  - Leveraging new observations and systems (cloud computing, AI) for interdisciplinary collaboration and integrated products
- Threat
  - Adapting to a changing world to ensure long term sustainability e.g. intellectual capital, RFI, commercial entrants

Overall high-level messages



- Strength
  - Interaction between space agencies, researchers and operational services
- Weakness
  - Limited scientific advancement and communication with external parties
- Opportunity
  - Take advantage of new technologies and new observations to facilitate improved products for users
- Threat
  - Long-term continuity of people, observations and services

Overall high-level messages + what we do



- Strength
  - Interaction between space agencies, researchers and operational services
  - Activity: Continue **regular** ST meetings
- Weakness
  - Limited scientific advancement and communication with external parties
  - Activity: **Evolve** our communication methods
- Opportunity
  - Take advantage of new technologies and new observations to facilitate improved products for users
  - Activity: Develop open source **consistent** methodologies for all sensors
- Threat
  - Long-term continuity of people, observations and services
  - Activity: Introduce a **mentoring** program for young scientists in TTs