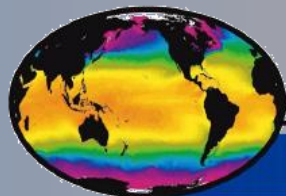


*To provide operational users and the science community
with the SST measured by the satellite constellation*

OceanObs'19

Anne & Gary



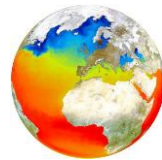
GHR SST

*Group for High Resolution
Sea Surface Temperature*



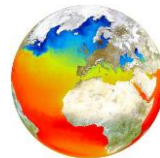
Committee on Earth Observation Satellites
Sea Surface Temperature Virtual Constellation

OceanObs'19 (16-20 September, 2019)



- Abstract submitted on “Continuing challenges for the modern era SST observing system”
- Accepted as leading community white paper (CWP), deadline for submission 30 September 2018.
 - Following on from OceanObs'09 white paper on “Success and Challenges for the modern Sea Surface Temperature Observing System”

Requests of white paper

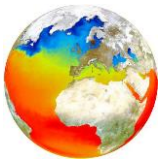


- Be forward looking to the next decade
- Address end-user engagement
- Address opportunities for integration
- Connect to conference themes

Synergies, to join up with following abstracts:

- Reconstruction of Daily Cloud Free MODIS SST over South Eastern Arabian Sea (Swathy Sunder)
 - The impact of pollution of SST along the coast of the Gulf of Guinea of West Africa (Kamila Justyna Kabo-Bah)
- > Case studies

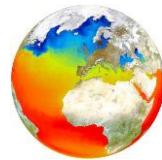
Abstract aims



- To review progress vs challenges in the last white paper.
- Describe remaining and new research and development challenges for the next 10 years (e.g. 6.9GHz PMW continuity).
- Highlight the needs to achieve an integrated global high resolution SST observing system.



Thanks to all the volunteers!

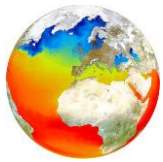


Observational Needs of Sea Surface Temperature

Anne G. O'Carroll^{1*}, Edward M. Armstrong², Helen M. Beggs³, Marouan Bouali⁴, Kenneth S. Casey⁵, Gary K. Corlett¹, Prasanjit Dash⁶, Craig J. Donlon⁷, Chelle L. Gentemann⁸, Jacob Hoeyer⁹, Alexander Ignatov⁶, Kamila Kabobah¹⁰, Misako Kachi¹¹, Yukio Kurihara¹¹, Ioanna Karagali¹², Eileen Maturi⁶, Christopher J. Merchant¹³, Salvatore Marullo¹⁴, Peter J. Minnett¹⁵, Matthew Pennybacker⁶, Balaji Ramakrishnan¹⁶, RAAJ Ramsankaran¹⁶, Rosalia Santoleri¹⁵, Swathy Sunder¹⁶, Stéphane Saux Picart¹⁷, Jorge Vázquez-Cuervo², Werenfrid Wimmer¹⁸



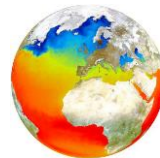
Recommendations



- Covering aspects on: constellation, validation and FRM, algorithms and cloud-screening, climate, assimilation and user needs.
- Priority recommendations on:
 - Continuity and redundancy of PMW.
 - FRM including high-latitudes and marginal ice zones.
 - Enhance SST algorithms including coasts, dynamic, upwelling and persistent aerosol conditions.
 - Rigorous approach to SST climate data quality.
 - Evolve the R/GTS.



Schedule



- Submission of first version of full paper Autumn 2018.
- Review process just completed:
 - Review of 3rd submission completed and now under final checking.
- Publication in “Frontiers in Marine Science”.
- Conference to be held September 2019, Hawaii.
 - Poster submitted.