



GHR SST
GROUP FOR HIGH RESOLUTION
SEA SURFACE TEMPERATURE

The 21st International GHR SST Science Team Meeting

On-line meeting:

1st June 2020 – 4th June 2020

Agenda.v4 – 19th May 2020

On-line meeting hosted by:



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Welcome to the 21st GHR SST Science Team Meeting

1. Organisation

1.1. General

The meeting will be held on-line via the EUMETSAT Training Team's Moodle. All participants should create an account at <https://training.eumetsat.int/>.

Participants can enrol (register) for the meeting by going to site above, clicking on GROUPS > GHRSSST and then on the link: 21st GHRSSST INTERNATIONAL SCIENCE TEAM MEETING (G-XXI) or go to <https://training.eumetsat.int/enrol/index.php?id=367> and log in. Click on Self-enrolment (Participant) and follow the instructions. Most of the meeting page content will be hidden until the start of the meeting at 00:00 GMT on Monday 1st June 2020.

Some presentations will be pre-recorded slide presentations, some will be poster presentations and some will be annotated slide presentations.

Discussion will be by on-line forums. Participants will be able to type their questions and answers into the forum. Presenters will nominate a time when they will be on-line and are asked, in addition, to return to the forums to respond to questions and comments from participants who maybe in different time-zones and unable to attend at the presenters nominated time.

Chairing teams have been chosen to cover three groups of time-zones (Americas, Europe-Africa, and Asia-Australia).

Further details of the different Sessions are given in the sections below.

1.2. Science Sessions

Science sessions will have four oral presentations and a number of poster presentations.

The **oral presentations** are pre-recorded and will be available for viewing from the meeting page. There will be a forum for discussions of oral presentations and general session discussion. Discussion threads will have been started on the forum for each presentation and users can start new threads as needed. Oral presenters have been asked to nominate a 30 minute time slot when they will be on-line to answer questions and to visit the forum at other times to answer questions left by participants.

The **posters** will be available to view via a Padlet and each Session has its own poster discussion forum with a thread for each poster. The poster presenters have been asked to nominate a 60 minute time slot when they will be on-line to discuss their posters and also to revisit periodically.

1.2.1. Information for presenters of oral presentations in Science Sessions

Prior to the meeting

Please prepare a video of your presentation using software of your choice (e.g. Zoom Meeting, or PowerPoint, if using PowerPoint export your recorded presentation to video). You may like to consider adding sub-titles to your recording if you have the resources available.

Please share a video of your presentation (as an .mp4 file) **and** a pdf of your slide presentation, by your chosen file-sharing method, with Silvia at sbp9@leicester.ac.uk **by 16th May 2020**. At this stage you should also advise us of **your nominated time slot for questions**. We will embed your video in your Session page for you.

At the meeting

You have been asked to nominate a 30 minute time-slot in GMT when you will be available on-line to answer questions. You should enter your Session forum and identify the forum thread for your presentation. Please announce yourself on the thread and discuss the points raised in response to your presentation.

We would also like you to check on the discussion of your presentation a few times during the following 24 hours to answer questions from participants who perhaps because of time-zone differences were not available during your nominated 30 minutes.

After the meeting, please would you **submit an extended abstract** of no more than four pages for publication in the Proceedings. You may like to write the bulk of the abstract before or during the meeting but please include in your abstract the outcomes of the meeting discussion of your presentation. Extended abstracts should be submitted to Silvia Bragaglia-Pike (gpa@ghrsst.org), using this [template](#) **not later than 29th June 2020**. Subject: 'GXXI extended abstract'

1.2.2. Information for presenters of poster presentations in Science Sessions

Prior to the meeting

Presenters are asked to nominate a one hour time slot on the day of their Session when they will be on-line to discuss their poster with participants. The session presenter lists and time-table are in the draft Agenda below (the version available from the website at <https://www.ghrsst.org/meetings/21st-ghrsst-international-science-team-meeting-g-xxi/> will be updated regularly) . Note that the meeting days run from 00:00 to 23:59 GMT. Your time slot can be during your normal working day but please convert the times to GMT and send the information to Silvia Bragaglia-Pike (sbp9@leicester.ac.uk) **not later than Monday 25th May 2020**.

Posters should be A1 size (portrait or landscape) with text sized as if for a real-world meeting. Please convert your poster to Portable Document Format (pdf).

Please upload your poster in portable document format (PDF) **by end of Thursday 28th May 2020**. Instructions on how to upload your poster have been emailed to presenters and can be found in the poster entitled "Information for Poster Presenters" located on your Session Padlet. You can only

access the Padlet using the URL that has been sent to you – if you need the information to be sent again then send an email to gpc@ghrsst.org requesting the information.

At the meeting

You have been asked to nominate a one hour time slot on the day of your Session when you will be on-line to discuss your poster with participants. Each poster has its own discussion thread, please announce yourself when you are on-line for questions and please check back over the following 24 hours to catch questions from participants in other time-zones.

1.3. Agency Reporting

Agency reporting will be by a slide deck and on-line discussion forum. Each agency representative will supply 2 annotated slides to be included in the deck which will be available to download from the EUMETSAT Training Team's Moodle. The agency representatives are asked to nominate a 30 minute period during the day of the session when they will be on-line to answer questions and to return to the forum periodically to respond to questions and comments from participants unable to be on-line during their chosen time slot.

1.3.1. Information for agency representatives

Prior to the meeting

Agency representatives should submit their slides and their nominated time slot to Karen Veal (klv3@le.ac.uk) by 25th May 2020.

At the meeting

Agency representatives are asked to be on-line to respond to questions and comments during their nominated one hour time slot on Monday 1st June 2020, the day of the Agency Reporting Session, and to check back over the following 24 hours to catch questions from participants in other time-zones.

1.4. Task Teams

Each Task Team Session will cover five task teams.

The Task Team (TT) chairs will report the progress of their TTs and their plans for the coming year. There will be a discussion forum in each session. The TT chairs will be asked to nominate a 30 minute slot when they will be available on-line for questions and asked to revisit the forum periodically. There will also be a poll for the participants to vote on whether or not to continue a TT.

The task teams also have a separate work area for use during and after the meeting. The task team chairs are able to enrol task team members on this work area.

1.4.1. Information for Task Team chairs

Prior to the meeting

Task Team chairs should submit their progress reports/presentations and their nominated time slot to Karen Veal (klv3@le.ac.uk) by 22nd May 2020.

At the meeting

Task Team chairs are asked to be on-line to respond to questions and comments during their nominated one hour time slot on Thursday 4th June 2020, the day of the Task Team Session, and to check back over the following 24 hours to catch questions from participants in other time-zones.

1.5. Session Chairs and Co-chairs

Each Session has a chairing team led by the Chair complemented by two Co-chairs. The Chair and Co-chairs have been chosen to represent the range of time-zones of meeting participants. The main tasks of a Session chairing team are to lead/moderate the discussion and to prepare a **short summary of the session**. The Chair should work closely with the Co-chairs splitting the reporting and moderating work up amongst the team taking advantage of their different time-zones.

Summary reports should be suitable for publication in the Proceedings (available [template](#)) and are to be **delivered to the GPO** (gpa@ghrsst.org) with 'GXXI Report, Session xxx' in the subject before **the end of the meeting if possible, and no later than 29th June 2020**.

1.6. Summary of deadlines

- **Enrolment now opened** – see instructions in paragraph 1.1 General above
- Submission of recorded oral presentations, along with pdf of slides, and nominated on-line time slot: **16th May 2020**
- Task Team presentations and nomination of time slots: **22nd May 2020**
- Agency slides and nomination of time slots: **25th May 2020**
- Poster presenter time slots: **25th May 2020**
- Uploading of poster pdfs: **28th May 2020**
- Meeting dates: **1st - 4th June 2020**
- Session reports: **not later than 29th June 2020**
- Extended abstract for Proceedings: **not later than 29th June 2020**

1.7. Registration to the meeting

See information under **General** in Section 1.1.

2. Draft Time-table

All sessions run from 00:00 to 23:59 GMT. The presentations are available to view on the meeting Moodle at any time during the meeting.

Green = Oral

Blue = Poster

No colour = mainly slides

2.1. Monday 1 st June 2020		Presenter	Time on-line
Science 1: Retrieval Algorithms			
Chair: Marouan Bouali Co-chairs: Pradeep Thapliyal, Jonathan Mittaz			
Infrared Radiative Simulated SSTskin Through Aerosol-Burdened Atmosphere	Bingkun Luo	TBD	
Modis Sea-Surface Temperatures: Characteristics of the R2019.0 Reprocessing of the Terra and Aqua Missions	Peter Minnett	TBD	
Retrieval of SST from Copernicus Imaging Microwave Radiometer (CIMR) observations	Jacob Hoyer	TBD	
Operational Sea Surface Temperature Retrieval using GK2A of KMA	JaeGwan Kim	TBD	
SST retrieval developments for the ESA Climate Change Initiative	Owen Embury	TBD	
Error estimation of Pathfinder Version 5.3 SST Level 3C using extended triple collocation approach	Korak Saha	TBD	
SGLI SST Ver. 2.0	Yukio Kurihara	TBD	
Overview of AMSR-3 on the Global Observing Satellite for Greenhouse Gases and Water Cycle (GOSAT-GW)	Kachi Misako	TBD	
Limitations of the Optimal Estimation Approach to Sea Surface Temperature Retrieval from Satellite Radiometers	Goshka Szczodrak	TBD	
SST Observations during the SLSTR Tandem Phase	Jonathan Mittaz	TBD	
Feasibility Analysis Of Sea Ice Concentration Data Reconstruction Over Arctic Based On Chinese Satellite-Borne Microwave Radiometer	Qimao Wang	TBD	
Agency reporting			
Chair: Anne O'Carroll Co-chairs: Yukio Kurihara, Eileen Maturi			
GHRSSST GDAC	Ed Armstrong	TBD	
EU GDAC	Jean-François Piollé	TBD	
GHRSSST LTSRF	Huai-Ming Zhang	TBD	
SQUAM	Alexei Ignatov	TBD	
iSQUAM	Alexei Ignatov	TBD	
RDAC: AboM	Helen Beggs	TBD	

2.1. Monday 1st June 2020	Presenter	Time on-line
RDAC: CMC	Dorina Surcel-Colan	TBD
RDAC: CMEMS	Bruno Buongiorno Nardelli*	TBD
RDAC: EUMETSAT	Anne O'Carroll	TBD
RDAC: JAXA	Misako Kachi	TBD
RDAC: JMA	Toshiyuki Sakurai	TBD
RDAC: Met Office	Chongyuan Mao	TBD
RDAC: NASA	Ed Armstrong	TBD
RDAC: NAVO	Bruce McKenzie	TBD
NOAA NESDIS STAR 1	Alexei Ignatov	TBD
RDAC: NOAA/NESDIS/STAR SST2	Eileen Maturi	TBD
RDAC: NOAA NCEI	Huai-Ming Zhang	TBD
RDAC: OSI-SAF	Stéphane Saux Picart	TBD
MISST	Chelle Gentemann	TBD
NSOAS	Qimao Wang*	TBD
ESA	Craig Donlon*	TBD
GHR SST Connection with CEOS: SST-VC	Ed Armstrong	TBD

* To be confirmed

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2.2. Tuesday 2nd June 2020		Presenter	Time on-line
Science 2: Calibration and Validation			
Chair: Simon Good			
Co-chairs: Kyung-Ae Park, Gary Wick			
Validation of satellite derived sea surface temperature and sea surface salinity gradients: Comparisons with the Saildrone Baja and Gulf Stream deployments	Jorge Vazquez	TBD	
Evaluation of HRSST drifters using Copernicus SLSTR	Gary Corlett	TBD	
Sentinel-3 SLSTR SST Validation using a Fiducial Reference Measurements (FRM) Service	Werenfrid Wimmer	TBD	
On the applicability of Copernicus Sentinel-3A and -3B Sea and Land Surface Temperature Radiometers as reference sensors	Gary Corlett	TBD	
2019 Arctic Saildrone Field Campaign: Measurements of Sea Surface Salinity and Temperature for Validation of Satellite Retrievals	Chelle Gentemann	TBD	
Validation of SLSTR Sea Surface Temperature over common collocations with SEVIRI, drifting buoys and OSTIA	Stéphane Saux-Picart	TBD	
Forty-five years of oceanographic and meteorological observations at a coastal station in the NW Mediterranean: a ground truth for satellite observations	Jorge Vazquez	TBD	
Comparison of SGLI and ISAR skin temperature	Yukio Kurihara	TBD	
EUMETSAT SLSTR Sea Surface Temperature Multi-mission Matchup Database	Igor Tomazic	TBD	
Evaluate accuracy of Sea and Land Surface Temperature Radiometer (SLSTR) Sensor using PIRATA buoys data along tropical Atlantic Ocean (20 N - 20 S)	Bruno Gonçalves	TBD	
Inter-comparison of Daily Sea Surface Temperature Data and in-situ Temperatures at Korean Coastal Regions	Kyung-ae Park	TBD	
High Resolution Sea surface Temperature Retrieval Using Landsat 8 Oli/Tirs Data at coastal region	Kyung-ae Park	TBD	
Initial assessment for the calibration of HY-1C COCTS infrared channels	Mingkun Liu	TBD	

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2.2. Tuesday 2nd June 2020		Presenter	Time on-line
<i>Science 3: Analyses and Reanalyses</i>			
Chair: Helen Beggs			
Co-chairs: Andy Harris, Stéphane Saux Picart			
The intercomparison of Sea Surface Temperature Products in the framework of the Copernicus Climate Change Service	Chunxue Yang	TBD	
Daily ICOADS3.0.2 and its impact on DOISST	Chunying Liu	TBD	
A geometrical approach for Level 3 (super) collated and Level 4 SST analysis	Marouan Bouali	TBD	
Ingesting VIIRS SST into the Bureau of Meteorology's Operational SST Analyses	Helen Beggs	TBD	
Improvements of the Daily Optimum Sea Surface Temperature (DOISST) Version 2.1	Boyin Huang	TBD	
OSTIA: past and future developments	Simon Good	TBD	
The recent update of SST analysis in NCEP GFS and a few related fundamental issues	Xu Li	TBD	
Towards 2 nd reanalysis of NOAA AVHRR GAC Data (RAN2): Evaluation	Victor Pryamitsyn	TBD	
Towards 2 nd reanalysis of NOAA AVHRR GAC Data (RAN2): Methodology	Boris Petrenko	TBD	
Optimum Interpolation Analysis For Sea Surface Temperature Using The Oriented Elliptic Correlation Scales	Zhihong Liao	TBD	

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2.3. Wednesday 3rd June 2020		Presenter	Time on-line
<i>Science 4: Services and Products</i>			
Chair: Misako Kachi			
Co-chairs: Edward Armstrong, Owen Embury			
A new era of science		Celle Gentemann	TBD
Connecting Users and Applications with PO.DAAC hosted GHRSSST data		Edward Armstrong	TBD
A Lagrangian Global Dataset of Sea Surface Temperature		Shane Elipot	TBD
Ingesting SLSTR SST into IMOS Multi-sensor SST composites		Pallavi Govekar	TBD
Towards Global L3S Products at NOAA		Olafur Jonasson	TBD
CMEMS SST-TAC: achievements during the second year (2019) and evolutions plans in 2020		Andrea Pisano	TBD
Advancing data discovery and services in support of the GHRSSST community		Wen-Hao Li	TBD
EUMETSAT Copernicus Marine Training and User Support		Hayley Evers-King	TBD
A Comparison between Iquam and “external” in situ SST Quality Controls		Haifeng Zhang	TBD
The Oceanview (Ov): Towards a Web-Application for Integrated Visualization of Satellite, In Situ, and Model Data & Ocean Events – The Concept and The Plan		Prasanjit Dash	TBD
Status of VIIRS SST Products at NOAA		Olafur Jonasson	TBD
Status of MetOp SST Products at NOAA		Victor Pryamitsyn	TBD
Data reduction service for the v2.1 sea surface temperature analysis from the ESA Climate Change Initiative		Chris Merchant	TBD
Working Towards Operational Sea-ice services in South Africa		Carla-Louise Ramjukadh	TBD
NAVOCEANO SST Processing		Danielle Carpenter	TBD

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2.4. Thursday 4th June 2020		
	Presenter	Time On-line
<p>Science 5: Applications Chair: Jorge Vazquez Co-chairs: Sujuan J Wang, Salvatore Marullo</p>		
Comparison of multiple SST products using the Marine Heatwave Tracker	Robert Schlegel	TBD
Integrating regionally optimised sea surface temperature and ocean color earth observation products to detect and monitor harmful algal blooms in support of small scale fishers and the abalone aquaculture industry in the Southern Benguela Upwelling System	Christo Whittle	TBD
Multi-Decadal Examination of Thermal Habitat Suitability for the Endangered Delta Smelt in the San Francisco Estuary using Landsat 5, 7, and 8	Gregory Halverson	TBD
On the use of sea surface temperature (SST) for improving the altimeter derived surface currents: a sensitivity study to SST products	Daniele Ciani	TBD
NOAA's Ocean Heat Content Suite for the Indian Ocean	Eileen Maturi	TBD
Address Tropical Climate Variability with Neural Network Models	Francesca Leonelli	TBD
On the Interactions Between Atmospheric, Sea and Estuarine Heatwaves in the Tagus Estuary Delta – A Case Study on the August 2018 Heatwave	Ana Oliveira	TBD
The Mediterranean, almost 40 years of continued warming	Francisco Pastor	TBD
<p>Task Teams 1 Chair: Charlie Barron Co-chairs: Misako Kachi, Craig Donlon</p>		
Regional and Global Task Sharing Task Team	Jean-François Piollé	TBD
Single Sensor Error Statistics and L4	Andy Harris	TBD
Pixel to pixel variation,	Peter Cornillon	TBD
Coral heat stress - user needs,	William Skirving	TBD
Cloud masking	Chris Merchant	TBD

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2.4. Thursday 4th June 2020		Presenter	Time On-line
<i>Task Teams 2</i> Chair: Chris Merchant Co-chairs: Lei Guan, Peter Minnett			
Shipborne radiometry	Werenfrid Wimmer	TBD	
GHRSSST Match-up Dataset	Igor Tomazic	TBD	
GHRSSST Climatology and L4 Inter-comparison	Helen Beggs and Chunxue Yang	TBD	
High-Latitude SST	Chelle Gentemann	TBD	
Climate Data Assessment Framework	Jonathan Mittaz	TBD	

3. Contacts

GHRSSST Project Office

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More useful links

GHRSSST website: <http://www.ghrsst.org>