



**GHR SST XX**  
**Frascati, Italy**  
**3 – 7 June 2019**

Agenda v2.0 – 28<sup>th</sup> May 2019



Meeting hosted by:





## Table of Contents

1.	Welcome to the 20 <sup>th</sup> GHRSSST Science Team Meeting.....	5
2.	Organisation.....	7
2.1.	Oral Presentations .....	7
2.2.	Interactive Presentations.....	7
2.3.	Session Chairs.....	8
2.4.	Rapporteurs .....	8
3.	Agenda .....	9
3.1.	Sunday 2 <sup>rd</sup> June 2019.....	9
3.2.	Monday 3 <sup>rd</sup> June 2019 .....	10
3.3.	Tuesday 4 <sup>th</sup> June 2019 .....	13
3.4.	Wednesday 5 <sup>th</sup> June 2019 .....	15
3.5.	Thursday 6 <sup>th</sup> June 2019.....	16
3.6.	Friday 7 <sup>th</sup> June 2019 .....	18
4.	Meeting details.....	20
4.1.	Meeting venue .....	20
4.2.	Meeting registration .....	20
4.3.	Lunches and coffee breaks .....	20
4.4.	Shuttle service between Frascati and ESRIIN.....	20
5.	Events.....	21
5.1.	Sunday 2 <sup>nd</sup> June 2019 - Python Course .....	21
5.2.	Monday 3 <sup>th</sup> June 2019 - Icebreaker.....	21
5.3.	Wednesday 5 <sup>th</sup> June 2019 – GHRSSST Team Building (14:00 – 19:00).....	21
5.4.	Wednesday 5 <sup>th</sup> June 2019 – GHRSSST Dinner (19:30 – 22:00).....	22
6.	Local Information.....	23
6.1.	Frascati .....	23
6.2.	How to reach Frascati.....	23
6.3.	Visa requirements.....	24
6.4.	Hotel information .....	24
6.5.	Local transport .....	24
6.6.	Recommended places to eat in Frascati .....	25

6.7.	Other Useful links .....	29
7.	Interactive presentations.....	30
8.	Contacts.....	34
9.	Summary of deadlines .....	35

## 1. Welcome to the 20<sup>th</sup> GHRSSST Science Team Meeting

Welcome to the 20th Science Team meeting of GHRSSST.

This year's meeting is being held in Frascati, Italy at ESA-ESRIN, hosted by the European Space Agency and CNR. It is great to be here at ESRIN for the 20th meeting, since the very first gathering of the team that later became GHRSSST met in Italy (Ispra, JRC) in the year 2000. JRC and ESA were instrumental in the beginning and with growing those very first activities, along with the Bureau of Meteorology, CSIRO, NOAA, NASA, OSI SAF / Meteo-France, NASDA (now JAXA), Met Office, RSS and others. This year we have over 100 registered attendees, giving us one of the largest meetings since GHRSSST first begun.

This year's theme is focusing on the future. GHRSSST has been very successful over the last decade and more in enabling and maximising SST data distribution to users, from operational services through to climate monitoring and more specific applications. With many more of the new generation of SST missions already flying and planned, and with the welcoming of new countries to GHRSSST, and with many new scientists coming to the meetings, it is time to refocus and concentrate on the new challenges ahead. At this year's meeting we will be dedicating time to plenary discussions on our direction and priorities, and all of your inputs and ideas are needed. With the climate continuing to change, and the public perception of the severity of the consequences becoming clearer, and new generations of young people finding the motivation to encourage and demand changes in behaviour, we are perhaps in a global conjuncture where observing the ocean and sea surface temperature and communicating this knowledge has never been more important. I look forward to hearing all of your ideas and forming a plan of direction together.

A number of satellites with SST capability have been launched the past year including Metop-C in November 2018, GEO-Kompsat-2A in December 2018, and FY-2H in June 2018. Sentinel-3B is now delivering operational SST data, so we have two satellites giving the full operational constellation of dual-view climate quality SST data that can be used for reference purposes. We will also hear updates this week on the latest status of SST products from GOES-17 and NOAA-20 and ongoing and continuing activities from the US. We will also hear about the latest status on global microwave SST constellation, particularly with the ongoing activities in Europe and Japan.

The agenda is similar to last year with all talks and discussions in plenary to ensure everyone has access to all discussions. Some of feedback from last year requested more time for plenary discussions about specific ideas, so we have taken this into account. We have ensured there is plenty of time to view the posters, so please use your time wisely, share ideas, discuss and look for collaborations.

We will be hearing about the progress of the Task Teams, since we reorganised the way that these are done. The organisation of a Community White Paper for the OceanObs19 conference is an example of a Task Team activity that is nearing completion this year. The conference is coming up in September in Hawaii, where some of you might be attending. Several ST members were involved in writing the paper on observational needs of SST, looking towards the future and making recommendations and guidance on the way forward over the next 20 years. We will also be hearing about progress regarding the pilot project on the proposal to update the GHRSSST R/GTS data management architecture. This is an important evolution adapting to the way that GHRSSST data producers work and how users will discover and navigate GHRSSST specified data.

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I am looking forward to an interesting and stimulating week. I wish you an enjoyable and productive time in Frascati and hope that you find some time to enjoy the sights of Rome.

Have a great week!

A handwritten signature in purple ink that reads "Anne O'Carroll". The signature is written in a cursive style and is centered within a light green rectangular background.

Anne O'Carroll  
(Chair of the GHRSSST Science Team)

## 2. Organisation

### 2.1. Oral Presentations

Presentation should be made according to the time allotted in the Agenda; please allow a few minutes for questions. **The suggested slide size for PPTX files is 16:9.**

Each presenter is requested to provide an **extended abstract** of their presentation (four pages' maximum) **by the end of the meeting, or by 28<sup>th</sup> June 2019 at the latest** for inclusion in the GHRSSST Proceedings. This will help get the Proceedings published efficiently and quickly after the meeting ends. Format: Microsoft Word using the [template provided](#) to be sent to the GPO ([gpa@ghrsst.org](mailto:gpa@ghrsst.org)), with 'G-XIX extended abstract' in the subject.

### 2.2. Interactive Presentations

Interactive presentations can be given in many formats – you have the choice of how you wish to present. We encourage you to think creatively!

You will be provided with space to display your material:

- Size of display: 90cm wide x 120cm high (A0 size), **portrait**.
- By the end of the meeting, please provide a .pdf file of your display for inclusion in the 'Resources' page of the G-XIX meeting on the GHRSSST website. **Files must not exceed 1.5 MB** and need to be delivered to the GPO ([gpa@ghrsst.org](mailto:gpa@ghrsst.org)) with 'Interactive presentation' in the subject.

If you wish to use any visual aids in your display, e.g. a social media app, a TED-like video, or a hands-on demonstration, you must arrange the required hardware yourself **but please coordinate with the Project Office before the meeting.**

Please display any printed material on Monday between 12:00 PM and before 4:PM in the order shown later in the agenda. Interactive presentations as well as posters will be carried out in the Magellan.

The timings for the interactive session are available in **Section 7** and indicate the times you are expected to be giving your presentation – please try to stick to the schedule.

Please check when your presentation is scheduled for (either on Monday 3<sup>rd</sup> June from 16:30 to 18:30, Tuesday 4<sup>th</sup> June from 16:30 to 18:30 or Thursday 6<sup>th</sup> June from 16:30 to 18:30).

Please remember to remove any printed material no later than Friday morning. Any remaining material will be disposed of.

### 2.3. Session Chairs

The main tasks of a session chair are to briefly introduce each speaker, keep the presentations to the time allowed, and lead/moderate the discussion. The chair should work closely with the rapporteur to prepare a **short summary of the session**.

**Summary reports** should be suitable for publication in the Proceedings ([template provided](#)) and are to be **delivered to the GPO ([gpa@ghrsst.org](mailto:gpa@ghrsst.org)) with 'GXX Report, Session xxx' in the subject before the end of the meeting if possible, and no later than 28<sup>th</sup> June 2019.**

### 2.4. Rapporteurs

The purpose of the rapporteurs is to capture important information during the session for the follow-up of the meeting by the GPO and Science Team. In preparing your session reports, you should avoid making lengthy summaries of the presentations and discussions.

Please concentrate on issues which relate directly to the objectives of the workshop, the mandate of GHRSSST and the future development of GHRSSST ocean products and services and provide a general overview of the main session outcomes/ conclusions.

A template for your session report is available [here](#).



## 3. Agenda

### 3.1. Sunday 2<sup>nd</sup> June 2019.

Python Course: Hotel Villa Flora from 09:00 – 15:00

### 3.2. Monday 3<sup>rd</sup> June 2019

Monday, 3rd June 2019		
07:45	Shuttle bus Frascati - ESRIN	
Big Hall		
08:15-09:00	Registration (Big Hall)	
<p><i>Plenary Session I: Introduction</i></p> <p><i>Chair: Anne O'Carroll Rapporteur: Gary Corlett</i></p>		
09:00-09:10	Welcome	Olivier Arino
09:10-09:40	SST related activities at ESA	Craig Donlon
09:40-10:00	SST activities at CNR	Rosalia Santoleri
10:00-10:15	GHRSSST Connection with CEOS: SST-VC	Kenneth Casey
10:15-10:30	G-XX: Logistics	Gary Corlett
10:30-11:00	Tea/Coffee Break (Big Hall)	
<p><i>Plenary Session II: Review of activities since G-XIX</i></p> <p><i>Chair: Eileen Maturi Rapporteur: Marouan Bouali</i></p>		
11:00-11:10	GHRSSST system Components: GDAC	Ed Armstrong
11:10-11:20	GHRSSST system Components: EU GDAC	Jean-François Piollé
11:20-11:30	GHRSSST system Components: LTSRF	Kenneth Casey
11:30-11:40	GHRSSST system Components: SQUAM and iQUAM	Alexander Ignatov
11:40-11:50	RDAC Update: ABoM	Helen Beggs

Monday, 3rd June 2019		
11:50- 12:00	RDAC Update: CMC	Dorina Surcel Colan
12:00- 12:10	RDAC Update: CMEMS	Bruno Buongiorno Nardelli
12:10- 12:20	RDAC Update: EUMETSAT	Anne O'Carroll
12:20- 12:30	RDAC Update: JAXA	Misako Kachi
12:30- 12:40	RDAC Update: JMA	Toshiyuki Sakurai
12:40- 12:50	RDAC Update: Met Office	Chongyuang Mao
12:50- 13:00	RDAC Update: NASA	Ed Armstrong
<b>13:00- 14:30</b>	<b>Lunch (Canteen)</b>	
<i>Chair: Charlie Barron Rapporteur: Ioanna Karagali</i>		
14:30- 14:40	RDAC Update: NAVO	Bruce McKenzie
14:40- 14:50	RDAC Update: NOAA/NESDIS/STAR 1	Alexander Ignatov
14:50- 15:00	RDAC Update: NOAA/NESDIS/STAR 2	Eileen Maturi
15:00- 15:10	RDAC Update: NOAA/NCEI	Kenneth Casey
15:10- 15:20	RDAC Update: OSI-SAF	Stéphane Saux Picart
15:20- 15:30	RDAC Update: RSS	Chelle Gentemann
15:30- 15:40	Report from MISST	Chelle Gentemann
15:50- 16:00	NSOAS	Qimao Wang
<b>16:00- 16:30</b>	<b>Tea/Coffee Break (Magellan)</b>	

<b>16:30- 18:30</b>	<b>Interactive Session I (Magellan)</b>
See Section 7 for further information.	
<b>18:30- 19:30</b>	<b>Icebreaker (Magellan)</b>
See Section 5 for further information.	
<b>19:45</b>	<b>Shuttle bus ESRIN - Frascati</b>

### 3.3. Tuesday 4<sup>th</sup> June 2019

Tuesday 4 <sup>th</sup> June 2019		
8:00-	Shuttle bus Frascati - ESRIN	
Big Hall		
08:30- 09:00	Registration (Big Hall)	
<p><i>Plenary Session III: Passive Microwave Measurements</i></p> <p><i>Chair: Chelle Gentemann Rapporteur: Craig Donlon</i></p>		
09:00- 09:20	Recent Improvements in AMSR2 Sea Surface Temperature Products	Misako Kachi
09:20- 09:40	Determining the AMSR-E SST Footprint from Co-Located MODIS SSTs	Brahim Boussidi
09:40- 10:00	Impact of CIMR Microwave observations on the CMEMS SST product in the North Sea/Baltic Sea	Jacob Hoeyer
10:00- 10:30	Open discussion led by session chair	
10:30- 11:00	Tea/Coffee Break (Big Hall)	
<p><i>Plenary Session IV: Feature resolution</i></p> <p><i>Chair: Alexander Ignatov Rapporteur: Dorina Surcel Colon</i></p>		
11:00- 11:20	On the Importance of the Spectral Phase for Upper Ocean Studies: from Geophysical Fluid Dynamics to Statistical Mechanics	Jordi Isern-Fontanet
11:20- 11:40	Towards High-Resolution Multi-Sensor Gridded ACSPO SST Product at NOAA	Irina Gladkova
11:40- 12:00	A Comparative Study of Ocean Thermal Gradients from GHRSSST Level 4 SST Products	Marouan Bouali
12:00- 12:30	Open discussion led by session chair	
12:30- 13:00	Task Teams I – Spatial Precision; SSES; Ocean Obs	

<b>Tuesday 4<sup>th</sup> June 2019</b>		
<b>13:00-14:30</b>	<b>Lunch (Canteen)</b>	
<p><i>Plenary Session V: Applications</i></p> <p><i>Chair: Prasanjit Dash Rapporteur: Rosalia Santoleri</i></p>		
14:30-14:50	Satellite-observed Spatial and Temporal Evolution of The East Australian Current Encroachment from Himawari-8 SST Data: Implications for Upwelling and Shelf Circulation	Senyang Xie
14:50-15:10	From SST Measurements to Actionable Information for Public and Private Users: Rheticus© Services	Daniela Drimaco
15:10-15:30	SSTs Over and Around Reefs (SOAR) Workshop Outcomes	Craig Steinberg
15:30-16:00	Open discussion led by session chair	
<b>16:00-16:30</b>	<b>Tea/Coffee Break (Magellan)</b>	
<b>16:30-18:30</b>	<b>Interactive Session II (Magellan)</b>	
See Section 7 for further information.		
<b>18:45</b>	<b>Shuttle bus ESRIN - Frascati</b>	

### 3.4. Wednesday 5<sup>th</sup> June 2019

<b>Wednesday 5<sup>th</sup> June 2019</b>	
<b>08:00</b>	<b>Shuttle bus Frascati - ESRIN</b>
<b>Big Hall</b>	
<b>08:30-09:00</b>	<b>Registration (Big Hall)</b>
09:00-10:30	<p>Round Table on the future of GHRSSST</p> <p>Further information will be provided at registration.</p>
<b>10:30-11:00</b>	<b>Tea/Coffee Break (Big Hall)</b>
11:00-12:00	Task Teams II – Evolution of the R/GTS
<b>12:00-13:00</b>	<b>Lunch (Canteen)</b>
<b>13:15</b>	<b>Shuttle bus ESRIN - Frascati</b>
<b>14:00-19:00</b>	<b>GHRSSST Team Building</b>
See Section 5 for further details	
<b>19:30-22:00</b>	<b>GHRSSST Dinner</b>
See Section 5 for further details	

### 3.5. Thursday 6<sup>th</sup> June 2019

Thursday 6 <sup>th</sup> June 2019		
08:00	Shuttle bus Frascati - ESRIN	
Big Hall		
08:30-09:00	Registration (Big Hall)	
<p><i>Plenary Session VI: Retrieval</i></p> <p><i>Chair: Peter Cornillon Rapporteur: Misako Kachi</i></p>		
09:00-09:20	Exploration of Retrieval Approaches For SLSTR	Andrew Harris
09:20-09:40	Satellite Infrared Retrievals Of Sea-surface Temperature At High Latitudes	Peter Minnett
09:40-10:00	Determining Covariance Parameters for Optimal Estimation of Sea Surface Temperature by Exploiting Matched In-situ References	Christopher Merchant
10:00-10:30	Open discussion led by session chair	
10:30-11:00	Tea/Coffee Break (Big Hall)	
<p><i>Plenary Session VII: In situ measurements</i></p> <p><i>Chair: Lei Guan Rapporteur: Werenfrid Wimmer</i></p>		
11:00-11:20	Accurate Temperature Measurements of GHRSSST Quality from Global Drifter Program Drifters	Luca Centurioni
11:20-11:40	Evaluation and Initial Results from the 2018 San Francisco to Baja Cruise of the Saildrone Unmanned Surface Vehicle	Chelle Gentemann
11:40-12:00	Sea Surface Temperature and Air-Sea Interaction in the Mediterranean Region	Salvatore Marullo
12:00-12:30	Open discussion led by session chair	



<b>Thursday 6<sup>th</sup> June 2019</b>		
12:30-13:00	Task Teams III – SST Climatology; High-latitude; Cloud Masking	
13:00-14:30	<b>Lunch (Canteen)</b>	
<p><i>Plenary Session VIII: Diurnal variability</i></p> <p><i>Chair: Andrew Harris Rapporteur: Sandra Castro</i></p>		
14:30-14:50	Results from the SOSSTA Project on Developing a Statistical-Dynamical Observation Operator for SST Data Assimilation	Sam Pimentel
14:50-15:10	The Air-Sea Interactive Thermocline (ASIT), An Observed True Structure of The Sea Surface Temperature (SST)	Chuqun Chen
15:10-15:30	The "Improved Diurnal Variability Forecast of Ocean Surface Temperature through Community Model development" Project Results	Ioanna Karagali
15:30-16:00	Open discussion led by session chair	
16:00-16:30	<b>Tea/Coffee Break (Magellan)</b>	
16:30-18:30	<b>Interactive Session III (Magellan)</b>	
See Section 7 for further information.		
18:45	<b>Shuttle bus ESRIN – Frascati</b>	
18:30-21:00	<b>Advisory Council (Room P)</b>	
<p><u>Meeting of the GHRSSST Advisory Council</u></p> <p>For further information, please contact: Jean-François Piollé (Light meal and refreshments will be provided in the meeting room)</p>		
21:15	<b>Shuttle bus ESRIN - Frascati (For Advisory Council participants only)</b>	

### 3.6. Friday 7<sup>th</sup> June 2019

Friday 7 <sup>th</sup> June 2019		
08:00	Shuttle bus Frascati - ESRIN	
Big Hall		
08:30-09:00	Registration (Reception)	
<p><i>Plenary Session IX: Climate Data Records</i></p> <p><i>Chair: Helen Beggs Rapporteur: Christopher Merchant</i></p>		
09:00-09:20	A 35 year Sea Surface Temperature Climate Data Record from the ESA Climate Change Initiative	Owen Embury
09:20-09:40	CCI OSTIA as the Standard of Truth: Detailed Error Models for in Situ SST Data From Ships and Other Platforms	Alexey Kaplan
09:40-10:00	Use Of SST For Monitoring Coral Stress: Looking Forward While Keeping An Eye On The Past	William Skirving
10:00-10:30	Open discussion led by session chair	
10:30-11:00	Tea/Coffee Break (Big Hall)	
<p><i>Closing Session</i></p> <p><i>Chair: Anne O'Carroll Rapporteur: Karen Veal</i></p>		
11:00-11:15	Report from AC Meeting	Jean-François Piollé
11:15-12:00	Task Team planning for next year	
12:15-12:45	Review of action items/AOB	
12:45-13:00	Wrap-up/closing remarks	

Friday 7 <sup>th</sup> June 2019	
Close of GHR SST XX	
13:00- 14:00	Lunch (Canteen)
14:00- 17:00	CEOS SST-VC (Room D)
<p><u>Meeting of the CEOS SST Virtual Constellation</u></p> <p>For further information, please contact: Kenneth Casey (NOAA) or Anne O'Carroll (EUMETSAT)</p> <p>(WebEx details will follow closer to the date)</p>	

## 4. Meeting details

Full details of the meeting can be found on the meeting webpage:

<https://www.ghrsst.org/meetings/20th-ghrsst-international-science-team-meeting-g-xx/>

### 4.1. Meeting venue

The meeting will be held in Frascati at the premises of the (ESA/ESRIN) at Largo Galileo Galilei, 1, 00044 Frascati (RM), Italy.

The European Space Research Institute (**ESRIN**) is a research centre belonging to the European Space Agency. It is dedicated to research involving earth observation data taken from satellites, among other specialised activities.

### 4.2. Meeting registration

All participants must register in advance **no later than 24<sup>th</sup> May 2019** to attend the meeting. There is no registration fee to attend the meeting.

### 4.3. Lunches and coffee breaks

Lunches will be available to purchase in the ESRIN canteen. The canteen will be open until 14:00 each day.

Tea/Coffee and cold drinks will be served in the **Big Hall**, at the back of the meeting room, every morning and in the afternoon in **Magellan**.

### 4.4. Shuttle service between Frascati and ESRIN

A shuttle service will be available to take participants in the morning from the main square in Frascati to ESRIN from Mon to Fri included, and at the end of each working day from ESRIN to Frascati on Mon, Tue, Wed and Thu only. A further shuttle will be available for AC attendees on Thursday.

For leaving times please check the main Agenda/Programme.

## 5. Events

### 5.1. Sunday 2<sup>nd</sup> June 2019 - Python Course

An introduction to Python for Oceanographers will take place on Sunday 2<sup>nd</sup> June 2019 at the Hotel Flora in Frascati from 9 AM to 3 PM.

To register please go to <https://www.signupgenius.com/go/30e0c4eaaa629a5f85-ghrsst>.

### 5.2. Monday 3<sup>th</sup> June 2019 - Icebreaker

The Icebreaker will take place in **Magellan** at 18:00-20:00. Finger food and drinks will be provided to ensure a smooth networking event.

### 5.3. Wednesday 5<sup>th</sup> June 2019 – GHRSSST Team Building (14:00 – 19:00)

The GHRSSST Team Building event will be a non-hosted guided visit to the Pontifical Villa Barberini in Castelgandolfo, followed by a guided tour of discovery of the landscape and history of the Castelli Romani.

This special guided tour (on foot) will lead visitors to discover the natural and archaeological treasures of the Pontifical Villa Barberini: a stroll through the natural beauty of the garden and the rich collection of artefacts and works of art from the ancient villa of the emperor Domitian.

After the visit at Villa Barberini, the tour will continue (by coach) to discover the green landscapes and great history of the Castelli Romani in the roman countryside (conducted by a private guide).

**Cost of visit: €60,00/person payable by cash at the G-XX meeting on Monday June 3<sup>rd</sup>, but please use the registration website by 24<sup>th</sup> May to book the tour.**

**Meeting point and coach departure at 14.00 in Frascati (main square).** Return to Frascati at 19:00. The tour is an excellent opportunity to continue discussions. However, if you have any concerns/questions then please contact the [GHRSSST Project Office](#).



#### **5.4. Wednesday 5<sup>th</sup> June 2019 – GHRSSST Dinner (19:30 – 22:00)**

The GHRSSST dinner, hosted by CNR, will be held at the [Cacciani restaurant](#) in Frascati.

## 6. Local Information

### 6.1. Frascati

Frascati is a city in the Metropolitan City of Rome in the Lazio region of central Italy. It is located 20 kilometres (12 mi) south-east of Rome, collectively as the [Castelli Romani](#), close to the ancient city of Tusculum. Frascati is closely associated with science, being the location of several international scientific laboratories.

The air is noticeably fresher than in the city, and in the sweltering summer months it has always been a popular resort. The wealthy built villas here, many of which are still standing although they're not open to the public. The most impressive is the Villa Aldobrandini, designed by Giacomo Della Porta for the nephew of a pope. This palace dominates the town, hovering above the central piazza in faded splendour. The gardens are open to the public and are free to visit - you just need to collect a permit from the tourist office first. On a weekday the grounds may be completely empty, and you can explore the terraces in solitary state. A gigantic water feature (no longer functioning), sculptures and architectural follies dominate the gardens behind the Villa, and you can climb up beside the crumbling cascade and imagine the estate in its glittering heyday.

The Villa Torlonia, nearby, was destroyed in the war. Nowadays it is a public park, where office workers jog in their lunch hour. You can still admire the gardens, and an impressive fountain, the *Teatro delle acque* (water theatre), designed by Carlo Maderno.

The cathedral is worth a look, as are some of Frascati's other churches. There's no tourist circuit of important sights in Frascati. The chief appeal of an excursion is the relaxing ambience, fine feasting, and wandering around the evocative medieval streets and the faded grandeur of the aristocratic past.

For more information visit <http://www.italyheaven.co.uk/frascati.html>

### 6.2. How to reach Frascati

The meeting will be held at the premises of the ESA Centre for Earth Observation research centre (ESRIN) belonging to the European Space Agency. It is dedicated to research involving earth observation data taken from satellites, among other specialised activities. ESRIN is located in Frascati, Italy, and the address is: ESA-ESRIN, Largo Galileo Galilei 1, 00044 ~Frascati (RM), Italy.

For travel information please see: [http://www.esa.int/About\\_Us/ESRIN/Getting\\_to\\_ESRIN](http://www.esa.int/About_Us/ESRIN/Getting_to_ESRIN)

**Important: You will require photographic identification (ideally your passport) to enter ESRIN. On day one you will be given a meeting badge that you must retain all week. If you lose your badge then please let the local organisers know straight away. Please also bring your photographic ID on each day you attend in case it is required.**

### 6.3. Visa requirements

Due to Schengen Agreement reached in 1985 among the majority of the EU member states, the citizens of the designated countries are allowed to travel visa free among the Schengen territories, meanwhile non Schengen countries can enter the whole Schengen territory with one unified document known as the Schengen Visa.

Nevertheless, if we refer to the globe, citizens of certain countries are OBLIGED to obtain a Schengen Visa in order to enter the Schengen Zone, consequently Germany meanwhile there are countries which are entitled to travel visa-free in this area even though they are not part of the Schengen Agreement.

For more details please visit: <https://www.schengenvisainfo.com/italy-visa>

Should you require an Invitation letters for visa request support, please contact the Local Organising Committee at [events.organisation@esa.int](mailto:events.organisation@esa.int).

### 6.4. Hotel information

A number of local hotels are available for participants. There will be a courtesy bus that will take you from the hotels to ESRIN and back.

Please click [HERE](#) to download the Hotel Booking Form via ESRIN Travel Agency (block booking deadline has now passed but they can still assist with bookings if rooms are available).

\* Please note that the booking fee is 13,00€/per booking through the ESRIN Travel Agency.

List of local hotels:

[Hotel Cacciani](#)

[Hotel Colonna](#)

[Hotel Bellavista](#)

[Hotel Flora](#)

### 6.5. Local transport

- **Local Frascati Taxi:**

Telefono: +39 392 581 5304

Corso Italia, 12, 00044 Frascati

**Taxi during the event:** Should you require a taxi for your departure to the airport or Rome at the end of the meeting or during the event please contact the Registration Desk.

Please book your taxi at least 3 hours in advance!

- **General Information about ESRIN**

Road directions from Rome Fiumicino Airport to the Frascati area are available on the ESA



web site [http://www.esa.int/export/esaCP/GGG8UIPZ0GC\\_index\\_0.html](http://www.esa.int/export/esaCP/GGG8UIPZ0GC_index_0.html) or Insert the words “ESRIN” in google maps

- **Frascati map**

Please click here to download a map of Frascati: <http://www.geoplan.it/mappe-cartine/mappa-comune-frascati-2- RM.htm>

- **Public transport to Rome**

Bus to underground: You can get a bus from the bus station in the centre of Frascati - just opposite the Town Hall (the Comune in Piazza Marconi). The bus will take you as far as Anagnina which is the nearest underground station. You must buy your ticket in advance. Tickets may be purchased at the Newspaper stand. The Cotral ticket to Rome costs € 1.50. It is better to buy your return ticket at the same time.

- Underground: There are three lines: Main lines for the center are line A and B. You can change from A to B line at the Termini stop. C line is a peripheral metro line going from Rome outskirts to the district Pigneto. The ticket is valid for 100 minutes from the first time you use it.

To get the Frascati bus from the Anagnina underground station, take the right exit and keep on walking to the end of the tunnel. Go up the steps. The bus stop is just near the newspaper stand.

The underground CLOSES at 23.00 hrs and the last bus to Frascati from Anagnina station leaves at 21.30 hrs

## 6.6. Recommended places to eat in Frascati

**Ara Anua ristorante** (Rustic local cuisine, good wine list, typical local dishes, easy to reach by foot at centre of Frascati)

<https://www.ristorantearaanua.it/>

Email: [info@ristorantearaanua.it](mailto:info@ristorantearaanua.it)

Via Garibaldi, 1, 00044 Frascati

+ 39 06 941 6106

Open every day at lunch from 12:30–15 and for dinner 19:30–23

**Ristorante Belvedere dal 1933** (Modern regional Lazio cuisine with South American touch to it in elegant and panoramic ambiance, in the heart of Frascati)

<http://www.belvedere1933.com/>

Email: [staff@belvedere1933.com](mailto:staff@belvedere1933.com)

Via Regina Margherita, 29, 00044 Frascati

+39 06 941 9004

Open:

Monday/Tuesday 19:00 - 23:00

Wednesday CLOSED

Thursday 19:00 - 23:00

Saturday-Sunday 12:30 - 15:00 and 19:00 - 23:00

**Fontana Vecchia** (Traditional roman cuisine, specialities first courses, rustic but very good, excellent fish)

[https://www.tripadvisor.it/Restaurant\\_Review-g229462-d3412272-Reviews-Fontana\\_Vecchia-Frascati\\_Province\\_of\\_Rome\\_Lazio.html](https://www.tripadvisor.it/Restaurant_Review-g229462-d3412272-Reviews-Fontana_Vecchia-Frascati_Province_of_Rome_Lazio.html)

Via Don Bosco 61, 00044 Frascati,

+39 06 941 9788

Open:

Monday CLOSED

Tuesday through Saturday 18:30–00:00

Sunday 11:30–17:00

**Ristorante 'Na Fojetta** (Local and seasonal high quality ingredients mixed to creativity, Km 0 salami and cold cuts, homemade pasta, local artisanal cheeses and even artisanal wines, excellent desserts, in the centre of Frascati)

<http://www.nafojetta.it/Il-Ristorante>

Email: [info@nafojetta.it](mailto:info@nafojetta.it)

Via Risorgimento, 4, 00044 Frascati

+39 06 972 45 420

+39 345 76 71 693

Open:

Monday through Saturday at lunch and dinner

Sundays open only at lunch

**Hostaria Santa Maria** (Italian cuisine, small environment, very good food, traditional regional cuisine in the heart of Frascati)

[https://www.tripadvisor.it/Restaurant\\_Review-g229462-d13479057-Reviews-Hostaria\\_Santa\\_Maria-Frascati\\_Province\\_of\\_Rome\\_Lazio.html](https://www.tripadvisor.it/Restaurant_Review-g229462-d13479057-Reviews-Hostaria_Santa_Maria-Frascati_Province_of_Rome_Lazio.html)

Via Regina Margherita 9, 00044 Frascati, Italia

+39 06 941 7379

**Locanda Pinocchio** (home-made first courses, seafood and local products, Ostrich, duck and Danish beef, pizza served on wooden board topped as you wish, located in the heart of historic Frascati,)

<http://www.hotelpinocchio.it/inglese/index2.html>

Email: [info@hotelpinocchio.it](mailto:info@hotelpinocchio.it)

Piazza del Mercato, 21, 00044 Frascati

+39 06.9416694

+39 338.8388871

**Teho Fish Restaurant** (Italian fish specialities)

<http://www.tehofishrestaurant.it/>

Via XX Settembre, 50, 00044 Frascati

Email: [info@tehofishrestaurant.it](mailto:info@tehofishrestaurant.it)

+331 3557781

Open:

Tuesday – Friday 20.00 – 24.00

Saturday - 12.00 – 15.00 / 20.00 – 24.00

**Zaffo** (Enoteca and Bistrot, location is simple and minimal, roman traditional cuisine encounters modern approach with some innovation, local ingredients)

[http://zaffo.thefork.rest/en\\_GB/](http://zaffo.thefork.rest/en_GB/)

Via Nino Bixio, I-00044, Frascati .

+39069426939

Open:

Monday through Sunday from 18:30 to 24:00

Tuesday CLOSED

**Zarazà** (Traditional rustic Roman/Frascati cuisine, KM 0 all local ingredients with seasonal products, outside terrace with panoramic view over Rome)

<http://www.trattoriazaraza.it/>

Email: [info@trattoriazaraza.it](mailto:info@trattoriazaraza.it)

Phone: +39 06 942 2053

Michele: +39 340 9284523

Raffaele: +39 348 2772388

Via Regina Margherita 45, 00044 Frascati

Open: Tuesday through Sunday: 12.30-14.30 19.30-22.30

Monday CLOSED

### **6.7. Other Useful links**

Frascati Point Tourist Office

<https://www.lonelyplanet.com/italy/frascati/information/frascati-point-tourist-office/a/poi-inf/1326918/1324850>

Frascati Tourist Information | Italy Heaven

<http://www.italyheaven.co.uk/frascati.html>

Frascati - Visit Castelli Romani

<http://www.visitcastelliromani.it/en/scopri-i-borghi/frascati>

## 7. Interactive presentations

Please set up your presentation as soon as you arrive in ESRIN Big Hall and please remember to take everything with you at the end of the meeting. **Posters will be displayed in the Magellan room.**

**Displays should be A0 Portrait in size (90cm wide x 120cm high).**

Please display in the order given in the table below:

Nr	Presenter	Title	Group
1	Armstrong, Edward Marcus	<em>In situ</em> Datasets from the PO.DAAC – Saildrone, SPURS and OMG	A
2	Banzon, Patria Viva	Comparison of Proxy SST Estimation Methods in the Arctic	B
3	Barron, Charlie N.	Overview of US Navy SST and Ice Products in the Arctic Seas	C
4	Basit, Abdul	Sea Surface Temperature Estimation along the Coast of Karachi, Pakistan: An Application of two Surface Temperature Algorithms	D
5	Beggs, Helen Mary	Issues around Sustaining Operational SST Composites and Analyses in a Rapidly Changing Satellite Constellation	E
6	Beggs, Helen Mary	Inter-comparison of High-Resolution SST Climatology data sets over the Australian region	F
7	Beggs, Helen Mary	Measuring Coastal Upwelling using Himawari-8, AVHRR and VIIRS SST	A
8	Bouali, Marouan	15 years of SST Gradients in the California Current System from the MODIS sensor	B
9	Boussidi, Brahim	AMSR-E, MODIS, In-Situ Three-Way Analysis of SST Error Variance	C
10	Chin, Toshio Michael	High-Resolution Analysis Parameters from Simulated SST	D
11	Ciani, Daniele	Regional to Global Scale Monitoring of the Sea Surface Currents from the Optimal Combination of Sea Surface Temperature and Sea Surface Height Data	E
12	Corlett, Gary	Independent Validation of Sentinel 3 SLSTR Sea Surface Temperature Products	F
13	Cornillon, Peter	Pixel-to-Pixel Variability of AVHRR and MODIS L2 SST Fields	A
14	Dash, Prasanjit	Synergistic Monitoring of Multi-sensor and Multiple Ocean Paramaters: SST, Salinity, Height, Wind and Color	B
15	Donlon, Craig	The European Space Agency and GHRSS	C
16	Donlon, Craig	The Copernicus Imaging Microwave Radiometer (CIMR)	D
17	Gangwar, Rishi Kumar	1d-Variational based Retrieval of SST using INSAT-3D Imager	E
18	Gentemann, Chelle	Diurnal warming observed during the 2018 Saildrone cruise	F
19	Govekar, Pallavi	Exploiting Higher Resolution Satellite Sensors To Produce 2 km Multi-sensor Composites Of Sea Surface Temperature	A
20	Guan, Lei	Prediction of Sea Surface Temperature in the South China Sea by Artificial Neural Networks	B
21	HE, Quanjun	Retrieval of Sea Surface Temperature from FY-3C/VIRR Data	C

Nr	Presenter	Title	Group
22	Hoeyer, Jacob L	Generation of ESA CCI SST L2 CDRs from Passive Microwave observations and impact on L4 analysis	D
23	Jonasson, Olafur	VIIRS SST Reanalysis 2 (RAN2)	E
24	Kachi, Misako	JAXA Satellite Missions and Services for SST	F
25	Kilpatrick, Katherine Ann	Improvements In The NASA MODIS R2019.0 Reprocessed SST Products	A
26	Kim, JaeGwan	Preparation for Sea Surface Temperature Retrieval Using GK-2A at KMA	B
27	Koner, Prabhat Kumar	Physical Deterministic Sea Surface Temperature for dynamic region of California Coast	C
28	Kurihara, Yukio	Current Status of GCOM-C/SGLI SST	D
29	Li, Wen-Hao	PO.DAAC Tool and Services Improvements to Support the GHRSSST Community	E
30	Li, Xu	The operational Sea Surface Temperature Analysis within the NCEP GFS	F
31	Liu, Mingkun	Retrieval of Sea Surface Temperature from HY-1B/COCTS	A
32	Lloyd, David Trevor	Noise and Striping Suppression in Landsat 8 Thermal Infrared Sea Images	B
33	Lucas, Marc	Copernicus TRUSTED: HRS-SST in situ datasets	C
34	Luo, Bingkun	Comparison Of Sentinel-3a/SLSTR Derived SST With MAERI	D
35	Luo, Bingkun	Accuracy Assessment Of ERA5 Sea Surface Skin Temperature And Near-Surface Air Temperature Using MAERI And ISAR Observations	E
36	Luo, Bingkun	Correcting Satellite Derived Infrared SST Considering Aerosol Vertical Distribution	F
37	Mao, Chongyuan	Assessment of the Impact of Sentinel-3A And -3B SLSTR L2P Sea Surface Temperature Data on OSTIA	A
38	Maturi, Eileen	Lake Water Temperatures for NCEP Regional Modelling	B
39	Merchant, Christopher J	Sea Surface Temperature Observational Ensemble for Representing Complex Errors	C
40	Minnett, Peter James	Improving Accuracy Of Sea Surface Temperature Retrievals By Incorporating Optimal Estimation	D
41	Mohamed, Bayoumy Abdelaziz	Long-Term Trends of Sea Level and Sea Surface Temperature in The Mediterranean Sea	E
42	Nielsen-Englyst, Pia	Assessment of Channel Selection for the Copernicus Imaging Microwave Radiometer (CIMR) for Retrieval of Sea Surface Temperature (SST)	F
43	Orain, Françoise	Improvement of Trihourly Analysis of CMEMS (Copernicus) satellite SST over European Seas with Dineof method	A
44	Park, Kyung-Ae	Status of Algorithm Development for Sea Surface Temperature Retrieval of Geo-Kompsat-2A / Advanced Meteorological Imager	B

Nr	Presenter	Title	Group
45	Park, Kyung-Ae	Status of Algorithm Development for Sea Surface Current Retrieval of Geo-KOMPSAT-2A /Advanced Meteorological Imager	C
46	Pennybacker, Matthew	ACSPO Collated SST Products from GOES-16/17 and Himawari-8	D
47	Pereira, Bruno Gonçalves	Remote Sensing in Estimation of Chlorophyll Concentration and Surface Temperature in a South Atlantic Coastal Region: Correlation of oceanographic data and characterization on coastal geomorphology	E
48	Pereira, Bruno Gonçalves	Comparison of SST estimates by AVHRR Sensor and PIRATA project buoys in the Equatorial Atlantic Ocean	F
49	Sarker, Subrata	Integration of Satellite and <i>in-situ</i> Data for Mariculture Development in Bangladesh	A
50	Shi, Lijian	GHRSS International Science Team (G-XX) meeting: Sea ice thickness retrieval with ice surface temperature data over the Liaodong Bay	B
51	Tomazic, Igor	Sentinel-3 SLSTR ongoing Cal/Val activities for Sea Surface Temperature measurements	C
52	Tomazic, Igor	Sentinel-3 SLSTR L1 and L2 MARINE product updates	D
53	Vazquez, Jorge	Using the SAILDRONE Unmanned Surface Vehicle For Validation Of Satellite Derived Level 4 Sea Surface Temperature: The California/Baja Coast Deployment	E
54	Wick, Gary Alan	Characterizing Extreme Diurnal Warming in Satellite-Derived Operational Sea Surface Temperature Products	F
55	Wimmer, Werenfrid	Sentinel-3 SLSTR SST Validation using a Fiducial Reference Measurements (FRM) Service	A
56	Worsfold, Mark	Impact Of PMW Observations On Level 4 Analysis.	B
57	Xu, Bin	A global SST L4 product at the National Meteorological Information Centre (NMIC)	C
58	Ye, Xiaomin	A Sea Surface Temperature retrieval method of China Ocean Color and Temperature Scanner (COCTS)	D
59	Zhang, Haifeng	On the Differences Between Daytime and Nighttime Ocean Cool Skin Signals under Well Mixed Conditions	E
60	Zhang, Huai-Min	NOAA NCEI's Global Sea Surface Temperature Datasets and Services	F
61	Zhang, Yongsheng	Scientific Stewardship of GHRSS Products at the NOAA National Centers for Environmental Information (NCEI)	A



To help with viewing of presentations we ask you present your material according to your assigned group in column four according to:

- **Group A**: 16:30 to 17:30 on Monday
- **Group B**: 17:30 to 18:30 on Monday
- **Group C**: 16:30 to 17:30 on Tuesday
- **Group D**: 17:30 to 18:30 on Tuesday
- **Group E**: 16:30 to 17:30 on Thursday
- **Group F**: 17:30 to 18:30 on Thursday

If you are viewing and not presenting, then this means you should ideally **only view the active presentations** as the presenter will not be in attendance otherwise.

Presentations will remain active until Thursday evening so you have time to look at them in more detail during the breaks, as well the interactive sessions.

## 8. Contacts

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### More useful links

G-XIX at ESA/ESRIN: <http://ghrsst-xx.esa.int/index.php>

GHR SST website: <http://www.ghrsst.org>

## 9. Summary of deadlines

- Notification of speakers and posters: 15<sup>th</sup> April 2019
- Registration deadline: 24<sup>th</sup> May 2019
- Meeting dates: 3<sup>th</sup> - 7<sup>th</sup> June 2019
- Plenary and breakout session reports: 28<sup>th</sup> June 2019
- Extended abstract for Proceedings: 28<sup>th</sup> June 2019