

GHRSSST XV
Cape Town, South Africa
2nd – 6th June 2014

Agenda – 3rd June 2014



Meeting hosted by:



Meeting sponsored by:



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1. Welcome to GHRSSST XV

Welcome to the 15th Science Team Meeting of GHRSSST - a highlight of the year.

This event marks an important milestone as it is the first time we come to Africa for a Science Team Meeting, and it will be a pleasure to see so many new faces amongst the more established GHRSSST members in Cape Town. It is no accident that this venue was chosen as it offers an excellent opportunity to extend the reach of GHRSSST to a new continent and to a new group of both young and more established oceanographers and forecasters using satellite measurements. We hope this will result in South African researchers and practitioners maintaining future involvement in the global community facilitated by GHRSSST.

A new event this year is a two-day Summer School in the week before the Science Team Meeting. This is intended for local students and others wishing to learn more about satellite remote sensing of the ocean surface temperature. We acknowledge the support of the University of Cape Town by making facilities available for this educational activity.

The agenda this year largely follows those of previous years, being a mixture of plenary and break-out sessions. We have had feedback from some of the Science Team Members arguing for fewer parallel sessions, but it is simply not possible to avoid this given the need to have all of the components of GHRSSST represented in a meeting less than a week in length. I hope you will agree with me that the agenda developed by Gary and Silvia is a good compromise, giving us the opportunity to hear many stimulating scientific presentations in plenary, and to have the chance for more detailed discussions in the breakout sessions.

Securing travel funds to attend the Science Team Meetings remains difficult, but it is good that so many have registered to attend, especially those who have to make long journeys. But many familiar faces will be absent, alas. And it is pleasing that there are so many local people involved in this year's meeting.

It is a pleasure to acknowledge the support from the SANSA, ESA and EUMETSAT, without which this Science Team Meeting could not happen. Special thanks are due to Christo Whittle, Emlyn Balarin and colleagues at UCT here in Cape Town for doing so much behind the scenes to ensure the meeting will be a success. The continuing commitments of many national and international funding sources that support the research and practice of many of us involved in GHRSSST also deserves acknowledgment.

So, I look forward to seeing you all in Cape Town and anticipate an exciting, stimulating and rewarding meeting. I hope the same goes for you too!



Peter Minnett

(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.

Each presenter is requested to provide an **extended abstract** of their presentation **by the end of the meeting, or by 28th June 2014 at the latest** in Microsoft Word format for inclusion in the GHRSSST proceedings. This will help get the proceedings published efficiently and quickly after the meeting ends.

A template for your extended abstracts is provided at:

<https://www.ghrsst.org/files/download.php?m=documents&f=121129121900-yoursurnameabstract.dot>

2.2. Session Chairs

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

Each **breakout session chair** is responsible for:

- Preparing the breakout session in advance in order to focus on the key issues for GHRSSST
- Arranging short overview presentations and timetabling these to allow as much discussion as possible
- Reporting the session back to plenary on Friday morning
- Reporting the session formally (based on notes from the rapporteur) in a written **session summary report**

Both **plenary and breakout session summary reports** should be suitable for publication in the proceedings and are to be **delivered to the GPO (gpa@ghrsst.org) before the end of the meeting**.

2.3. Rapporteurs

The purpose of the rapporteurs is to capture important information during the session for the follow-up of the workshop 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.



15th Science Team Meeting,
Cape Town, South Africa

As a template for your session report please use:

<https://www.ghrsst.org/files/download.php?m=documents&f=121129121900-yoursurnameabstract.dot>

3. Agenda

3.1. Sunday 1st June 2014

We will gather together on Sunday evening for a meal and maybe a few drinks to ward off the jet lag. For those that wish to come along we will get together at 18:00 in the foyer of the *Breakwater Lodge*.

3.2. Monday 2nd June 2014

Monday, 2nd June 2014

Location: [Two Oceans Aquarium](#), V&A Waterfront ([directions and map](#))

08:00-
09:00

Registration

[Plenary Session I: Introductions](#)

[Chair: Peter Minnett Rapporteur: Gary Corlett](#)

09:00-
09:30

Welcome and logistics

Welcome to GHR SST XV

Peter Minnett

Welcome address from UCT

*Professor Frank Shillington
(Director, Nansen-Tutu Centre, Cape Town)*

Logistics

Gary Corlett/Christo Whittle

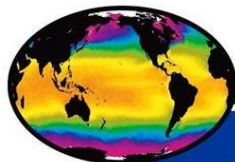
09:30-
10:50

Remote sensing activities in South Africa

09:30-
10:00

*Defining South Africa's next EO
mission*

Michel Verstraete



Monday, 2nd June 2014

10:00-10:30	<i>OceanSAfrica and SST</i>	<i>Christo Whittle</i>
10:30-10:50	<i>IOCCG and OCR-VC</i>	<i>Stewart Bernard</i>

10:50-11:20	Tea/Coffee Break
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Plenary Session II: Review of activities

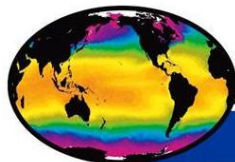
Chair: Anne O'Carroll Rapporteur: Werenfrid Wimmer

11:20-11:40	<i>SST-VC</i>	<i>Craig Donlon</i>
11:40-12:00	<i>GDAC</i>	<i>Ed Armstrong</i>
12:00-12:20	<i>LTSRF</i>	<i>Ken Casey</i>
12:20-12:40	<i>SQUAM and iQUAM</i>	<i>Alexander Ignatov</i>
12:40-13:00	<i>FELYX</i>	<i>Jean-François Piollé</i>

13:00-14:00	Lunch
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Chair: Ken Casey Rapporteur: Dave Poulter

14:00-14:15	<i>ABoM</i>	<i>Ian Barton</i>
14:15-14:35	<i>ESA</i>	<i>Craig Donlon</i>



Monday, 2nd June 2014

14:35-14:45	<i>EU GDAC</i>	<i>Jean-François Piollé</i>
14:45-15:05	<i>EUMETSAT</i>	<i>Anne O'Carroll</i>
15:05-15:20	<i>JAXA</i>	<i>Yukio Kurihara</i>
15:20-15:35	<i>JMA</i>	<i>Shiro Ishizaki</i>
15:35-15:55	<i>MISST</i>	<i>Gary Wick</i>

15:55-16:25	Tea/Coffee Break	
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Chair: Alexander Ignatov Rapporteur: Prasanjit Dash

16:25-16:45	<i>MyOcean</i>	<i>Hervé Roquet</i>
16:45-17:00	<i>NASA</i>	<i>Ed Armstrong</i>
17:00-17:15	<i>NAVO</i>	<i>Jean-François Cayula</i>
17:15-17:40	<i>NOAA</i>	<i>Ken Casey</i>
17:40-17:55	<i>NESDIS/STAR GHRSSST SST Products</i>	<i>Eileen Maturi</i>
17:55-18:15	<i>EarthTemp Arctic Workshop</i>	<i>Jacob Hoeyer</i>

3.3. Tuesday 3rd June 2014

Tuesday, 3rd June 2014

Location: [Breakwater Lodge-Protea Hotel](#), V&A Waterfront ([directions and map](#))

07:30-08:00 Registration desk open

[GHR SST Parallel Breakouts for TAGs/WGs](#)

08:00-10:00	STVAL (Lecture Theatre 1)	DASTAG (Executive Room)
	<ul style="list-style-type: none"> • Overview of ST-VAL activities since GHR SST-XIV - Presented by Pierre LeBorgne (5 mins) • Validation: <ul style="list-style-type: none"> ○ Monitoring and Validation of HR L2 SSTs in SQUAM (Prasanjit Dash) (10 mins) ○ Questions/discussion on validation (5 mins) • SSES Methods <ul style="list-style-type: none"> ○ ABoM SSES (Chris Griffin - via telecon) (10 mins) ○ NOAA/STAR SSES (Boris Petrenko) (10 mins) ○ NAVOCEANO SSES (Jean-Francois Cayula) (10 mins) ○ MODIS/VIIRS SSES Hypercube (Peter Minnett) (10 mins) ○ IASI SSES (Anne O'Carroll) (10 mins) ○ OSI-SAF SSES (Pierre LeBorgne) (10 mins) ○ Discussion on SSES (10 mins) • In Situ Data for Validation: <ul style="list-style-type: none"> ○ Fiducial Reference Measurements for Thermal Infrared Satellite Validation (FRM4-CEOS) - Craig Donlon (10 mins) ○ Shipborne Radiometer data format and common repository - Tim Nightingale (10 mins) ○ Discussion on in situ data (5 mins) • Election of new ST-VAL Deputy Chair (5 mins) 	<ol style="list-style-type: none"> 1. Issues related to L2P specification for dual-view sensors (Anne O' Carroll) 2. Quality, Quantity, Continuity, Latency use cases for GHR SST data (Ed Armstrong) 3. Proposal for a GHR SST Ship-borne Radiometer Format, "L2i" (Tim Nightingale) 4. Evolution of the GHR SST Regional/Global Task Sharing (R/GTS) Framework (Ken Casey) 5. Issues related to GDS 2.0 for Climate Products (Owen Embury) <p>Discussion topics:</p> <ul style="list-style-type: none"> • R/GTS reorganization • Dataset relevancy, ranking and maturity • GDS 2.0 change policy

10:00-10:30 Tea/Coffee Break

Tuesday, 3rd June 2014

10:30-12:30	DVWG (Lecture Theatre 1)	AUSTAG (Executive Room)
	<p>Awaiting final agenda – session will include 10 min presentations on:</p> <ul style="list-style-type: none"> An analysis system for diurnal Sea Surface Temperature (Jonah Roberts-Jones) Regional SST diurnal warming from SEVIRI (Ioanna Karagali) 	<ul style="list-style-type: none"> Lessons learned from the GHR SST Ocean Science Booth and recommendations (Gary Corlett with inputs from Silvia, Jorge, Prasanjit and all) 20 min Review of AUS-TAG Strategic Plan - overview of activities and users' statistics & future plans (Jorge Vazquez and Prasanjit Dash with any further inputs) 20 min Validation of a hybrid coordinate ocean model (HYCOM) on the Agulhas Bank shelf south of Africa using GHR SST MUR and 1km MODIS data (Christo Whittle and Bjorn Backeberg et al.) 20 min What products to use? – A VIIRS case study: NAVO vs. ACSPO (Prasanjit Dash and Alex Ignatov with any further inputs) 10 min Which in situ products are available to use? – A technical overview of iQuam data (Alex Ignatov with any further inputs) 10 min Which in situ products are available to use? – An overview of shipboard radiometers (Peter Minnett) 10 min Interactive discussions on GHR SST archive (Led by Alex Ignatov) 20 min <ul style="list-style-type: none"> From the perspective of data producers (e.g., L2/L4 users who push their data to PO.DAAC): Efficient archival – how to backfill missing data, archive L3 version of L2p, how to best provide and promote information about a product (web-page, inter-comparison documents etc). From the perspective of data users (e.g., L4 producers seeking L2 data): Efficient access to archive (feedback that access to NOAA ftp is 2x faster than PO.DAAC ftp); bandwidth, number of users etc. Demos/Overviews of GHR SST GDAC/LTSRF Tools & Services, Data usage Are they adequate to meet user needs? (Jorge Vazquez, Gary Corlett, all) 20 min

12:30-13:30	Lunch
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13:30-15:30	<i>HLTAG (Executive Room)</i>	<i>CDRTAG (Lecture Theatre 1)</i>
	<ul style="list-style-type: none"> • <i>Latest report on high latitude work at CMS (Pierre LeBorgne)</i> • <i>VIIRS algorithm performance at high latitudes (Sasha Ignatov)</i> • <i>Temporal Sea ice Cover in the Baltic Sea (Martin Lange)</i> • <i>Sea ICE GMPE – Definitions and development (Steinar Eastwood)</i> • <i>Follow up actions and developments from the Earthtemp meeting in Exeter (Jacob Høyer)</i> • <i>Discussion of the justification for the HL-TAG (All)</i> 	<ul style="list-style-type: none"> • <i>Results from trials of the CDAF (Chris Merchant)</i> • <i>Review of Status Report on International Reprocessing Efforts (Jon Mittaz)</i> • <i>Updates on CORE-CLIMAX and Maturity Matrices (Chris Merchant)</i> • <i>FIDUCEO, a proposal to EU H2020 (Jon Mittaz)</i> • <i>Discussion: funding GHR SST climate activities (Chris Merchant)</i> • <i>CDR-TAG Chair/Vice Chair succession (Chris Merchant)</i>
15:30-16:00	Tea/Coffee Break	

16:00-18:00	<i>EaRWiG (Lecture Theatre 1)</i>	<i>ICTAG (Executive Room)</i>
	<p><i>Agenda/purpose (chair)</i> <i>Discussion/agree agenda</i></p> <p><i>Algorithm bias correction</i> <i>Regional biases in operational SST retrieval (LeBorgne)</i> <i>Discussion</i></p> <p><i>SST Sensitivity</i> <i>Intro (chair)</i> <i>Information content analysis for physical SST retrieval (Koner)</i> <i>Discussion</i></p> <p><i>Cloud detection</i> <i>Evaluation of performance of different cloud schemes using long-term Geo-SST matchup database (Koner)</i> <i>Discussion</i></p> <p><i>EARWiG activities for coming year</i> <i>Proposed Workshop @Reading (vice-chair)</i> <i>Discussion</i></p>	<p><i>16:00-16:10 Introduction</i></p> <p><i>16:10-17:15 Talks and discussion on inter-comparison of L4 SST products and their validation</i></p> <p><i>Talks (10 min each) followed by a discussion (15 min total):</i></p> <ul style="list-style-type: none"> • <i>16:10-16:20: Biases between In Situ and Remotely-Sensed Data Sets around the Coast of South Africa (Albertus Smit)</i> • <i>16:20-16:30: REMO SST GROUP: Status & Updates (Gutemberg Franca)</i> • <i>16:30-16:40: Validation of Sea Surface Temperature Analyses in the Arctic Ocean Using UpTempO Buoys (Sandra Castro)</i> • <i>16:40-16:50: A Review on the Application of High Resolution SSTs in a Coastal Upwelling Region: The test case off Peru (Jorge Vazquez)</i> • <i>16:50-17:00: An intercomparison of long-term SST reanalyses using the GHRSSST multi-product ensemble (GMPE) system (Jonah Roberts-Jones)</i> <p><i>17:00-17:15: Discussion</i></p> <p><i>17:15-17:45: Discussion of major IC-TAG issues</i></p> <p><i>Topics:</i></p> <ul style="list-style-type: none"> • <i>Conversion of inter-comparisons to user recommendations (i.e., answering questions: "Why do all these products differ?" and "Which SST should I use?")</i> • <i>Inter-comparison results to date and uncertainty in L4 products</i> • <i>Inter-comparison systems (GMPE, SQUAM, FELYX)</i> • <i>Suggestions/Recommendations for further inter-comparisons</i> <p><i>17:45-18:00: General discussion and plans for the next year</i></p>

3.4. Wednesday 4th June 2014

Wednesday, 4th June 2014

Location: [Breakwater Lodge-Protea Hotel](#), V&A Waterfront ([directions and map](#))

08:00-08:30 Registration desk open

Plenary Session III: SST in African waters

Chair: Gutemberg Franca Rapporteur: Jonah Roberts-Jones

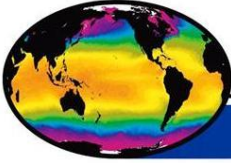
08:30-08:50	<i>Time series of SST anomalies off Western Africa</i>	<i>Charlie Barron</i>
08:50-09:10	<i>Coastal change and variability around Southern Africa</i>	<i>Mathieu Rouault</i>
09:10-09:30	<i>Characterization of Agulhas Bank upwelling variability from 1km MODIS Aqua/Terra data</i>	<i>Christo Whittle</i>
09:30-10:00	<i>Open discussion led by session chair</i>	

10:00-10:30 Tea/Coffee Break

Plenary Session IV: Diurnal variability

Chair: Gary Wick Rapporteur: Sandra Castro

10:30-10:50	<i>A diurnally corrected high-resolution SST analysis</i>	<i>Andy Harris</i>
10:50-11:10	<i>Using a 1-D model to reproduce diurnal SST signals</i>	<i>Ioanna Karagali</i>



Wednesday, 4th June 2014

11:10- 11:30	<i>Validation of SST and diurnal warming in Lake Vaenern, Sweden</i>	<i>Steinar Eastwood</i>
11:30- 12:00	<i>Open discussion led by session chair</i>	

12:00- 13:00	Lunch
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12:00- 18:00	Afternoon Team Building
See section 5 for further details	

18:00- 23:00	GHR SST Dinner
See section 5 for further details	

3.5. Thursday 5th June 2014

Thursday, 5th June 2014

Location: [Breakwater Lodge-Protea Hotel](#), V&A Waterfront ([directions and map](#))

09:00-
09:30

Registration desk open

[Plenary Session V: L4 analyses](#)

[Chair: Alexey Kaplan Rapporteur: Ed Armstrong](#)

09:30-
09:50

*Biases Versus Variability in Differences
Between Gridded SST Products*

Alexey Kaplan

09:50-
10:10

*A validation of the error estimates
in SST analyses*

Jonah Roberts-Jones

10:10-
10:30

*Producing gap-free analysed sea surface temperature data
from L3 products using web-based Data INterpolation
Empirical Orthogonal Functions (DINEOF) technique*

Igor Tomažić

10:30-
11:00

Open discussion led by session chair

11:00-
11:30

Tea/Coffee Break

[Plenary Session VI: Impact of clouds on SST retrievals](#)

[Chair: Andy Harris Rapporteur: Owen Embury](#)

11:30-
11:50

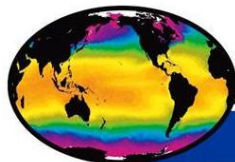
*Bayesian Cloud Detection for
AVHRR instruments*

Owen Embury

11:50-
12:10

*Extension of ACSPO VIIRS SST
domain using pattern recognition
analyses*

Irina Gladkova



Thursday, 5th June 2014

12:10-12:30	Sea surface temperature characterization using a high-resolution ocean model	Ed Armstrong
12:30-13:00	Open discussion led by session chair	

13:00-14:00	Lunch	
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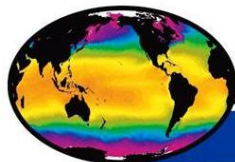
Plenary Session VII: New data streams

Chair: Craig Donlon Rapporteur: Tim Nightingale

14:00-14:20	Evaluation of SST products from HY satellites	Lei Guan
14:20-14:40	Update on VIIRS	Alexander Ignatov
14:40-15:00	SSTs from GCOM-W1 AMSR2	Chelle Gentemann/Gary Wick
15:00-15:10	Future NOAA/NESDIS/STAR GEO Dataset	Eileen Maturi
15:10-15:30	Open discussion led by session chair	

15:30-16:00	Tea/Coffee Break	
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16:00-18:00	Interactive displays (Executive Room)	
1	FELYX	Dave Poulter
2	SQUAM and iQUAM	Prasanjit Dash



16:00

-

18:00

VIIRS Side Meeting (Lecture Theatre 1)

Special session on VIIRS SST retrieval and validation

For further information please contact: Alexander Ignatov (NOAA)

18:00-
21:00

Advisory Council (Executive Room)

Meeting of the GHRSSST Advisory Council

For further information please contact: Anne O'Carroll (EUMETSAT)

3.6. Friday 6th June 2014

Friday, 6th June 2014

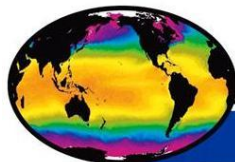
Location: [Breakwater Lodge-Protea Hotel](#), V&A Waterfront ([directions and map](#))

08:00-08:30	Registration desk open
<p><u>Plenary Session VIII: Climate Data Records</u></p> <p><u>Chair: Chris Merchant Rapporteur: Jon Mittaz</u></p>	

08:30-08:50	<i>SST algorithms in ACSP0 reanalysis of AVHRR GAC data</i>	<i>Boris Petrenko</i>
08:50-09:10	<i>ESA's Sea Surface Temperature Climate Change Initiative: Outcomes from Phase I and Plans for Phase II</i>	<i>Chris Merchant</i>
09:10-09:30	<i>SST CCI trail-blazer users: engagement and results</i>	<i>Chris Atkinson</i>
09:30-10:00	<i>Open discussion led by session chair</i>	

10:00-10:30	Tea/Coffee Break
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<p><u>Closing Session</u></p> <p><u>Chair: Peter Minnett Rapporteur: Gary Corlett</u></p>	
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10:30-10:40	<i>Report from Advisory Council</i>	<i>Anne O'Carroll</i>
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10:40-11:30	Summary of breakout groups	
1	<i>AUS-TAG</i>	<i>Jorge Vazquez</i>
2	<i>CDR-TAG</i>	<i>Christopher Merchant</i>
3	<i>DAS-TAG</i>	<i>Ed Armstrong</i>
4	<i>DVWG</i>	<i>Gary Wick</i>
5	<i>EaRWiG</i>	<i>Andy Harris</i>
6	<i>HL-TAG</i>	<i>Jacob Hoeyer</i>
7	<i>IC-TAG</i>	<i>Alexey Kaplan</i>
8	<i>ST-VAL</i>	<i>Pierre Le Borgne</i>

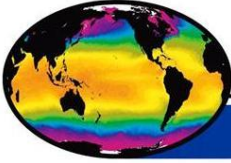
11:30-12:15	<i>Review of action items</i>
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12:15-12:45	<i>Identification of priorities for following 12 months</i>
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12:45-13:00	<i>Wrap-up/closing remarks</i>
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Close of GHRSSST XV

13:00-14:00	Lunch
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GHR SST

*Group for High Resolution
Sea Surface Temperature*

**15th Science Team Meeting,
Cape Town, South Africa**

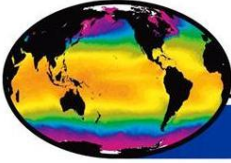
**14:00-
18:00**

CEOS SST-VC (Lecture Theatre 1)

Meeting of the CEOS SST Virtual Constellation

For further information please contact:

Kenneth Casey (NOAA) or Craig Donlon (ESA)



4. Meeting details

4.1. Meeting venues

The meeting will take place as follows:

- **Monday 2nd June:** 1st day registration and all meeting sessions will be held at the [Two Oceans Aquarium](#) on the V&A Waterfront ([directions and map](#)). All talks will be in the Think Tank (Auditorium).
- **Tuesday 3rd to Friday 6th June:** all meeting sessions for days 2 through 5 will be held at the University of Cape Town (UCT) Breakwater Campus, which is next to the Breakwater Lodge Hotel, part of the UCT Graduate School of Business (<http://www.gsb.uct.ac.za/>). Activities will be in the Lecture Theatre 1, the Executive Room or the Syndicate Room, as indicated in the detailed agenda. Note: All plenaries will be in Lecture Theatre 1.

4.2. Registration, coffee breaks and lunches

Registration, coffee breaks and lunch on Monday will take place at the Two Oceans Aquarium.

Registration, coffee breaks and lunch (all days from Tuesday to Friday) will be at the Breakwater Campus, in the foyer next to Lecture Theatre 1.

For times please refer to the detailed agenda.

There is a small registration fee of £50 per person to attend the meeting. For payment please use this link: [G-XV payment](#). **Deadline: 22nd May 2014 (see extension date when accessing the link).**

4.3. Wi-Fi

Access to Wi-Fi at the Breakwater Lodge venue is available for free to all delegates who have booked rooms at the Hotel. There is also Eduroam for those with access. Charges are applicable to delegates who have accommodation elsewhere and are:

- R10.00 for 10 minutes
- R30.00 for 30 minutes
- R60.00 for 1 hour
- R200.00 for 5 hours
- R350.00 for 10 hours
- R500.00 for 24 hours

Wi-Fi access at the Two Oceans Aquarium venue is available for free to all delegates.

5. Events

On Wednesday 4th June we will have our team building activities and our meeting dinner. Although both are optional we strongly encourage all attendees to come along as this is an excellent opportunity to meet with the GHRSSST Science Team and to discuss all things SST.

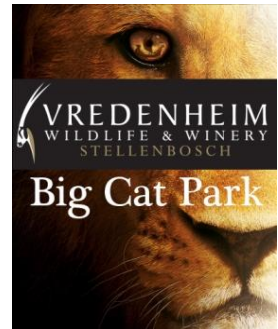
Payments for delegates and guests can be made through the same registration process as the one you have originally used to register your interest to attend the meeting ([G-XV payment](#)). **Deadline: 22nd May 2014.**

5.1. Wednesday 4th June (afternoon team building)

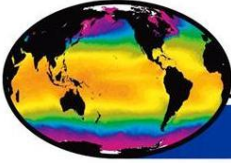
We will be leaving the Breakwater Campus after lunch at 13:30, and will visit the Stellenbosch Winelands area. The cost of the team building is £10 per head inclusive.

First we will go to the Vredenheim Wildlife and Winery Farm, where wine tasting and access to their wildlife park - including big cats - will be available.

For full details about the place (~320 years old and one of the oldest wine estates in the area of the Cape Winelands) see <http://vredenheim.co.za/>.



From Vredenheim, we will then go to the neighbouring Spier Wine Farm (<http://spier.co.za/>) for additional wine tasting and an encounter with some birds of prey.



5.2. Wednesday 4th June (evening dinner)



After leaving Spier around 17:00, we will then head to Zevenwacht for the meeting dinner. The Zevenwacht restaurant is an early 19th Century Cape Dutch Manor House and has magnificent views of the gardens and lake within the park.

Drinks and canapés will be served from 18:00 and buffet dinner from 19:00. For more information about the venue see <http://zevenwacht.co.za/>

The cost of the dinner is £25 per head inclusive. **Please advise the GPO of any specific dietary requirements as soon as you can preferably via the payment system.**

6. Travel information

Cape Town Airport is also known as Cape Town International Airport. General information is available [here](#) and a map can be found [here](#).

Useful information for visitors' entry to South Africa can be found [here](#).

General information on Taxi services from/to the airport can be found here: <http://www.capetownairportguide.com/cape-town-airport-taxis.htm> .

In addition here are some suggestions we have received from the local organisers:

- The Breakwater Hotel provides shuttle transfers at a competitive rate of R300 per transfer or R320 for two persons. This is a pretty standard rate for Cape Town.
- As an alternative, delegates can arrange transfer on arrival with the registered airport shuttle operators as they cost about the same and no charge is incurred if the flight is delayed. Suggested operators:
 - Touchdown taxis – no website available, only a telephone number (+27 (0)21 919 4659)
 - Citihopper - <http://www.citihopper.co.za/>

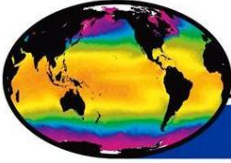
7. Hotel information

- 30 rooms for delegates have been reserved at the following 'preferred' rates at the Breakwater Hotel and are only valid for the period 31st May-7th June:
 - Standard Double Room (B&B) - Single @ R1458.00 (~ US\$120/ UK£79/ €96)
 - Standard Double Room (B&B) - Sharing @ R1679.00 (~ US\$153/ UK£93/ €113)
 - Double Business Suite (B&B) - Single @ R1679.00 (~ US\$150/ UK£91/ €110)
 - Double Business Suite (B&B) - Sharing @ R1940.00 (~ US\$173/ UK£105/ €127)

The above rates include 14% vat, and exclude 1% tourism levy.

To book please call the hotel: Exit Code + 27 + 21 406-1911.

- An option for finding more hotels can be found at <http://www.booking.com/>.



8. Tourist information

The V&A Waterfront area - where the meeting venues are located – also offers visitors an abundance of experiences that include indoor shopping, entertainment venues and more than 80 restaurants offering a great variety of choices (<http://www.waterfront.co.za/Eat/overview>). All details about the area are available at <http://www.waterfront.co.za/>.

Below are other possible activities for visitors to Cape Town that are easily accessible via public transport (the tour bus facility is in front of the Breakwater Lodge/Aquarium). When exploring the wine routes it is probably best to rent a car. The Game reserve provides transport to and from Cape Town for daytrips.

1. Two Oceans Aquarium (<http://www.aquarium.co.za/>)
2. Robben Island Tours (<http://www.robben-island.org.za/>)
3. Table Mountain via Cable Car (<http://www.tablemountain.net/>)
4. Castle of Good Hope (<http://www.castleofgoodhope.co.za/>)
5. Museums in Cape Town (<http://www.iziko.org.za/>)
6. Table Mountain National Park
(http://www.sanparks.co.za/parks/table_mountain/tourism/attractions.php)
7. Kirstenbosch (<http://www.sanbi.org/gardens/kirstenbosch>)
8. Constantia Wine Route (<http://www.constantiavalley.com/>)
9. Stellenbosch Wine Route (<http://www.wineroute.co.za/>)
10. Cape Point (<http://capepoint.co.za/>)
11. Aquila Private Game Reserve (<http://www.aquilasafari.com/>)

9. List of Participants

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**15th Science Team Meeting,
Cape Town, South Africa**