

**Agenda for GOOS Regional Alliance Forum VIII
5-7th September 2017
National University of Singapore, Singapore**

Meeting overview

- This is a two-day international meeting being held over three days, allowing participants to fly in and fly out, or have some recovery time before and after the meeting.
- Allowing for breaks, we have ~14 hours of meeting time which will allow for four sessions.
- Day 1 will include a Welcome and Introduction then one session. Day 2 will include two sessions, with lunch in between. Day 3 will include one session, followed by Wrap Up and Next Steps.
- We will request brief, written reports from all GRAs by no later than two weeks before the meeting. These will be used to inform a focused two-hour discussion of highlights and challenges over the last two years, noting that we have had regular intercessional teleconferences since GRA VII in Heraklion.
- The agenda includes time for our Singaporean hosts to inform us about their priorities and capabilities.
- It allows for GRAs to be updated about the current status of GOOS and its forward strategy. We are privileged to have Vladimir Ryabinin, Executive Secretary of the Intergovernmental Oceanographic Commission (IOC-UNESCO), in attendance. This is a great vote of support for the GRAs.
- Significant time will be allowed for discussion of agreed GRA priorities:
 - actions from GRA VII (including asset mapping and modelling inventories)
 - cross-GRA pilot projects, and
 - new observing networks (ocean gliders, high frequency radar).
- We will also take time to explore the potential for new partnerships between GRAs and other programs relevant to GOOS, with an emphasis on capacity development:
 - Global Ocean Acidification Observing Network (GOA-ON)
 - Regional ocean observing initiatives
 - Large Marine Ecosystems (LMEs)
 - Modelling and Forecasting.

DAY 1 – Tuesday 5 September 2017			
Start	Duration	Subject	Speakers
12:00	30 min	LUNCH ON ARRIVAL	
Session 1			
12:30	30 min	Welcome and introduction	GRA Council Chair
13:00	60 mins	Review of progress since GRA VII <ul style="list-style-type: none"> Asset mapping – HF Radar, Ocean Gliders Model inventory and visualisation 	All
14:00	30 mins (20+10) ¹	Singapore’s Marine Science Research and Development Programme (MSRDP)	Dr Serena Teo
14:30	30 mins	AFTERNOON TEA	
15:00	30 mins (20+10)	Keynote address - The Intergovernmental Oceanographic Commission (IOC) of UNESCO	Vladimir Ryabinin
15:30	45 mins (25+20)	New observing networks #1 <ul style="list-style-type: none"> Ocean Gliders – global coordination and the role of GRAs 	Chari Pattiaratchi
16:15	45 mins (25+20)	New partnerships #1 <ul style="list-style-type: none"> Global Ocean Acidification Observing Network (GOA-ON) – Regional Hubs and GRAs 	Rusty Brainard
17:00	20 mins (15+5)	New partnerships #2 <ul style="list-style-type: none"> GEO Blue Planet – Regional Projects of relevance to GRAs 	Emily Smail
17.20		Close Day 1	
19.00		DINNER	

¹ Bracketed numbers indicate time for presentation + time for discussion

DAY 2 – Wednesday 6 September 2017			
Start	Duration	Subject	Speakers
Session 2			
9:00	30 mins (20+10)	Impacts of climate change on Singaporean food security in relation to rice yields	Dr SK Ooi
9:30	60 mins (30+30)	Role of GRAs in the new GOOS Strategy and its implementation, including <ul style="list-style-type: none"> G7 interest in enhancement of regional ocean observing through GRAs 	Albert Fischer Toste Tahuna
10:30	30 mins	<i>MORNING TEA</i>	
11:00	130 mins	GRA Reports <ul style="list-style-type: none"> Written reports submitted before the meeting taken as read 'Roundtable' discussion of highlights and challenges Ten minutes per GRA 	All GRAs
13:10	50 mins	<i>LUNCH</i>	
14:00	90 mins (20+10) (20+10) (20+10)	New partnerships #2 Regional ocean observing initiatives <ul style="list-style-type: none"> The South African Environmental Observation Network (SAEON) Towards a Canadian integrated ocean observing system - Department of Fisheries and Oceans (DFO) India's Ocean Observation Network (OON) 	Tommy Bornman Andrew Stewart R. Venkatesan
15:30	30 mins	<i>AFTERNOON TEA</i>	
16:00	60 mins	GRA Pilot Projects <ul style="list-style-type: none"> MESCAT Pacific waves and coastal inundation Multipurpose Marine Monitoring Mechanism (4M) 	Giovanni Coppini Tommy Moore & Tim Moltmann Doug Wilson
17:00	45 mins (25+20)	New partnerships #3 <ul style="list-style-type: none"> Large Marine Ecosystems (LMEs), GOOS Biology & Ecosystems Panel, and GRAs 	Nic Bax
17:45	30 mins (20+10)	The Second International Indian Ocean Expedition (IIOE-2)	Dr Rajan
18.15		Close Day 2	
19.00		<i>DINNER</i>	

DAY 3 – Thursday 7 September 2017			
Start	Duration	Subject	Speakers
Session 4			
9:00	45 mins (15+10) (10+10)	Report on JCOMM <ul style="list-style-type: none"> Observations Coordination Group (OCG) – standards and best practices Task Team for integrated Marine meteorological and Oceanographic Services within WIS (TT-MOWIS) 	Juliet Hermes Erik Buch
9:45	45 min (25+20)	New observing networks #2 <ul style="list-style-type: none"> High Frequency Radar – global coordination and the role of GRAs 	Simone Cosoli
10:30	45 mins (25+20)	New partnerships #4 <ul style="list-style-type: none"> Modelling and Forecasting - GOOS Physics Panel (OOPC) and links to GODAE OceanView 	John Wilkin
11:15	30 mins	<i>MORNING TEA</i>	
11:45	60 mins (30+30)	Meeting Wrap Up and Next Steps <ul style="list-style-type: none"> Agreed actions and Meeting Report Intersessional activity and GRA IX GRA Council Chair 	GRA Council Chair + All
12.45		Close of Meeting	
13:00	14:00	Informal lunch break	
14:00	15:00	OPTIONAL Visit to the Lee Kong Chian Natural History Museum Highly recommended if you like dinosaurs, crabs and other wonders of nature!	

Attendees

GRAs	PEOPLE	EMAIL
1. Black Sea GOOS	Atanas Palazov	palazov@io-bas.bg
2. EuroGOOS	Erik Buch Glenn Nolan	erik.buch@eurogoos.eu glenn.nolan@eurogoos.eu
3. GOOS Africa	Mohamed Said	mamsaid2@hotmail.com
4. GRASP	Humberto Gómez Proaño (Edwin Pinto Uscocovich)	edwin.pinto@inocar.mil.ec
5. IMOS	Tim Moltmann	tim.moltmann@imos.org.au
6. IOCARIBE	Doug Wilson	doug@coastaloceanobs.com
7. IOGOOS	S Rajan	rajan.s@incois.gov.in
8. MONGOOS	Giovanni Coppini (co-chair)	giovanni.coppini@cmcc.it
9. NEAR GOOS	Vyacheslav B.Lobanov	lobanov@poi.dvo.ru
10. OCEATLAN	Frederico Nogueira	frederico.asn@gmail.com
11. PIGOOS	Tommy Moore	tommym@sprep.org
12. SEAGOOS	Somkiat Khokiattiwong	skhokiattiwong@gmail.com
13. US IOOS	Carl Gouldman Jessica Snowden	Carl.Gouldman@noaa.gov jessica.snowden@noaa.gov

GOOS Office	Albert Fischer Denis Chang Seng	a.fischer@unesco.org d.chang-seng@unesco.org
GOOS Steering Committee	Toste Tahuna	ttanhua@geomar.de
GOOS Panels	John Wilkin Nic Bax	wilkin@marine.rutgers.edu Nic.Bax@csiro.au
IOC	Vladimir Ryabinin	v.ryabinin@unesco.org
IOC-WESTPAC	Mr. Gao Zhigang Dr. ZHANG Tianyu	gzg_ocean@163.com zhangty@nmefc.gov.cn

Speakers - Gliders (Chari Pattiaratchi), GOA-ON (Rusty Brainard), JCOMM (Juliet Hermes), Radar (Simone Cosoli)

Other invited guests - Tommy Bornman (SAEON, South Africa), Andrew Stewart (DFO, Canada), R. Venkatesan (NIOT, India), Emily Smail (GEO Blue Planet), Nelly Florida Riama (IAMCG, Indonesia)

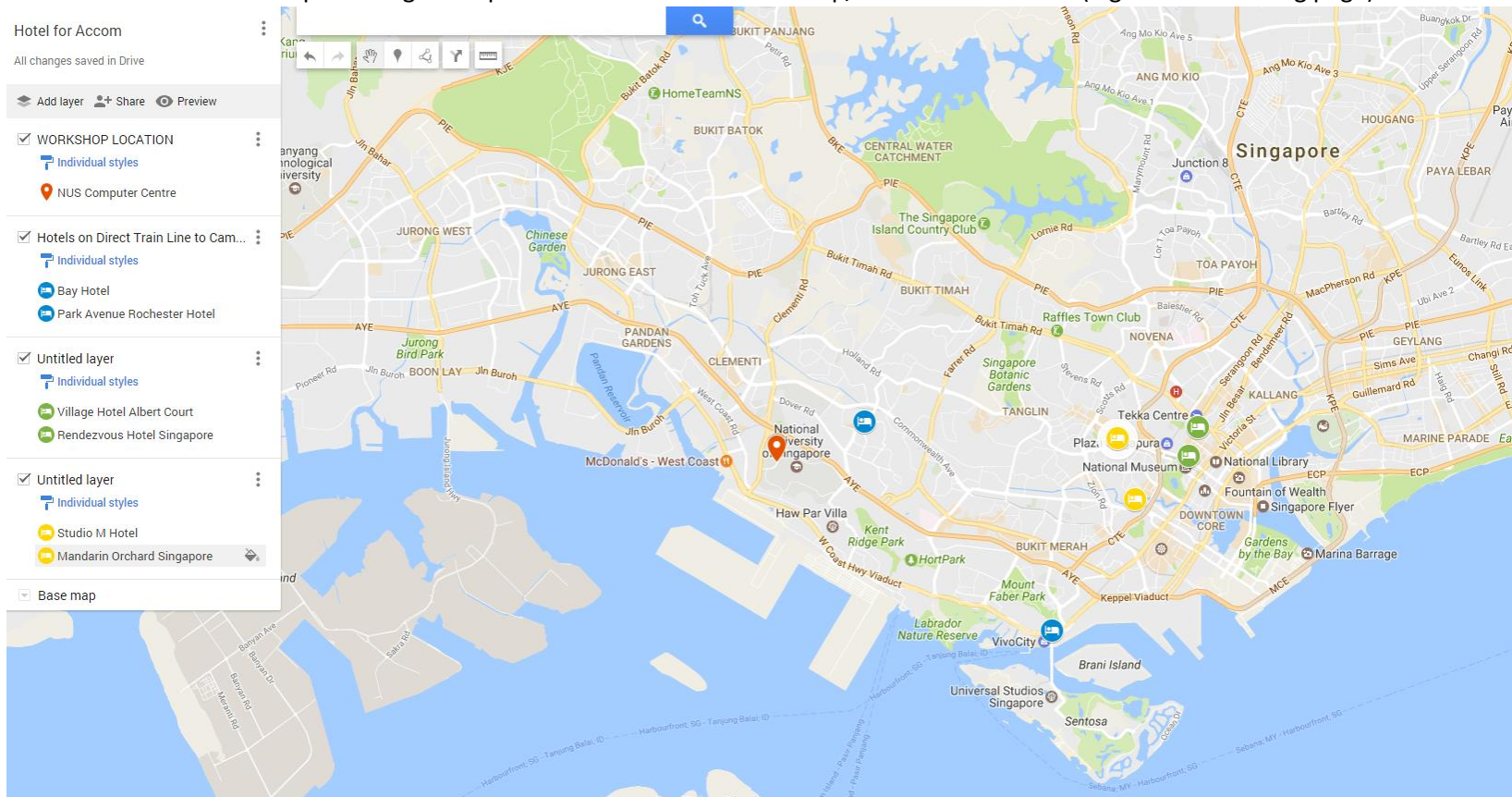
Hosts - Dr Serena Teo, Dr SK Ooi

Meeting Logistics

VENUE:

National University of Singapore.
Computer Centre Auditorium, Level 2
2 Engineering Drive 4, S117584.

HOTEL SUGGESTIONS: Map showing some possible locations and workshop/conference location (legend on following page)





Regional Alliances

1. List of hotels that are on NUS corporate rate (shading color corresponds to colour of icons in the map above)

	Room rates		Breakfast	Cancellation Policy	Black Out dates	Early Check-in	Other services
	Standard	Club					
Park Ave Rochester (Closest)	195	235	Yes (1 pax)	6pm on Check-in Day	14-17 Sept 2017	Yes (1night charge)	Complimentary morning shuttle service from Hotel to NUS (Yusoff Ishak House & Central Library) on Monday to Friday (except public holidays)
Bay Hotel	165`	-	Yes	6pm on Check-in Day	14-17 Sep 2017	Yes	Complimentary Parking
Village Hotel Albert Court	140	190	Yes (1 pax)	6pm on Check-in Day	14-17 Sep 2017	Yes	Complimentary 1. parking 2. 1-way airport to hotel shuttle 3. 10% discount on f&b for in-house
Rendezvous Hotel	200	298	Yes	No. 48 hours		Yes	Complimentary one way airport shuttle to the hotel upon arrival
Mandarin Hotel	250	330	Yes	No. 24 hours	14-18 Sept	Yes (S\$150 nett from 0900 hrs)	Complimentary 1) parking 2) 20% off Food & Beverage 3) All rooms are equipped with Handy phone that is complimentary call to 15 countries, local call and data access
Studio M Hotel	170	190	Yes	No. 48 hours	14-17 Sept (20% Surcharge)	Yes	Complimentary 1. Parking 2. MEMO café vouchers 3. Use of handy phone (free calls to 15 countries) 4. 2 way transfer for group of 10 rooms and more

*Note Room rates are not inclusive of 10% Service Charge and 7% GST.

**Meaning of shade in table above: Blue means near a station on direct train line to NUS station. Green means near station on train line that will connect with just one change to train line to NUS station. Yellow means not directly near station or may require more than one train line change.

***Additional notes:

1. Bay hotel is located opposite Sentosa and next to Vivocity shopping and dining complex.
2. Village Hotel Albert Court is located in Little India
3. Rendezvous Hotel is located just off Orchard Road
4. Mandarin Hotel is located on Orchard Road
5. Studio M hotel is located just off Chinatown and the Singapore River (Clarke Quay and Boat Quay) dining/entertainment areas.



CAMPUS MAPS

<http://map.nus.edu.sg/>

TRANSPORTATION

TAXI

There are organized taxi queues as you exit Changi Airport. It should cost between S\$25 to S\$35, depending on the time of day. For trips originating at the airport, there is also a surcharge of S\$3. Between midnight and 6 a.m. there is an additional surcharge of 50 percent of the fare shown on the meter. Tips are not required, but you should consider tipping if the driver assists with loading and unloading your luggage.

MRT

From Changi Airport MRT Station (CG2), take the MRT to Tanah Merah MRT Station (EW4) then change to the westbound train to Buona Vista MRT Station (EW21/CC22). Buona Vista MRT Station is the interchange station for the East-West Line and Circle Line, connecting seamlessly to Singapore's CBD, the western region and all parts of the island.

MONEY EXCHANGE

The Singaporean dollar is the official currency of Singapore. In the arrival area at the Changi Airport, there are foreign exchange booths.

WEATHER

Singapore's location near the equator ensures a hot and humid climate year round. Daily temperatures are around 25-30C (77-86F), with very high humidity.