

July 9-11, 2013, Lijiang, China

PP draft programme

Attendees

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|-----------------------------------|--------------------|
| 1. Wenju Cai | 16. Dongxiao Wang |
| 2. Alex Ganachaud | 17. Dunxin Hu |
| 3. Ken Ando | 18. Martin Visbeck |
| 4. Mat Collins | 19. Dongliang Yuan |
| 5. Matthieu Lengaigne | 20. Dake Chen |
| 6. Phil Wiles (remotely) | 21. Yuji Kaschino |
| 7. Lixin Wu | 22. Fan Wang |
| 8. Sang-Wook Yeh | 23. Jae Hak Lee |
| 9. Michael McPhaden | 24. Shang-Ping Xie |
| 10. Carmen Morales (remotely) | 25. Awnesh Singh |
| 11. Billy Kessler | 26. Hiroaki Saito |
| 12. Shoshiro Minobe | 27. Toshio Suga |
| 13. Arona Ngari (Cook Isl) | 28. Jin-Yi Yu |
| 14. Tony Lee (only joint meeting) | 29. Steve Riser |
| 15. Bo Qiu | |

Grand Challenges (WCRP)

1. Clouds, Circulation and Climate Sensitivity
2. Cryosphere in a Changing Climate
3. Climate extremes
4. Regional climate information
5. Regional sea-level rise
6. Water availability

We organized the meeting according to WCRP grand challenges and their declination into CLIVAR is through "research opportunities"= big questions that can be tackled in about 5 years. M. Visbeck will explain those all at the beginning of the joint meeting.

Task Team / Research opportunities (CLIVAR)

1. Intraseasonal-Seasonal-Interannual variability and predictability of monsoon systems
2. Decadal climate variability and predictability
3. Marine biophysical interactions and dynamics of upwelling systems
4. Dynamics of regional sea level variability
5. Trends, non linearities and extreme events
6. New opportunities
7. ENSO in a warming climate (additional task team)
8. ITF task team

I- Pacific-Indian Panels Joint Session (PP/IOP meeting attendees and invited experts)

3:00 pm Afternoon 9 July – 12:30 pm Morning 10 July, 2013

1. Objectives

The joint session is to promote the cross-basin research interests, including but not limiting to the following topics,

1. Indonesian Through-Flow (ITF)
2. ENSO-IOD relationship
3. ENSO-monsoon relationship
4. MJO forcing on ENSO
5. Scale interactions among MJO, monsoon, ENSO and beyond
6. Indo-Pacific climate trend and future projection

2. Expectations

Short write-up is expected to summarize the emerging cross-basin research interests, which addresses the CLIVAR newly identified grand challenges, needs the coordination and promotion from IOP and PP, and requires further joint actions.

Afternoon, 9 July 2013		
15:10 - 15:20	Xiaopei Lin, Weidong Yu, and Wenju Cai	Welcome and logistics, motivation and expectations
15:20 - 15:40	Martin Visbeck	WCRP Grand Challenges, and CLIVAR imperatives : an overview of new CLIVAR
15:40 - 16:00	Jérôme Vialard	Indian Ocean influence on El Niño
16:00 - 16:20	Dongliang Yuan	Role of Indonesian Throughflow in the interannual climate variations and predictability of the tropical indo-pacific Ocean
16:20 - 16:30	Tony Lee	Updates of ITF task team activities
16:30 - 16:40	Tony Lee	Updates of Aquarius satellite mission
16:40 - 17:00	Mike McPhaden	Indian Ocean Dipole: Internal Dynamics vs ENSO Forcing from the Pacific
17:00 - 18:00	ALL	Possible PP and IOP future joint activities
18:30 - 20:30	Joint Pacific-Indian Ocean Panel dinner	
Morning, 10 July 2013		
08:30-08:50	Will de Ruijter	Southwest Indian Ocean - ENSO connection
08:50-09:10	Lixin Wu	Dynamics of the North and South Equatorial Currents in the Tropical Pacific and Indian Ocean
09:10-09:30	Weiqing Han	Remote and local forcing of decadal sea level and thermocline depth variability in the south Indian Ocean
09:30-09:50	Matthieu Lengaigne	Natural decadal/multidecadal sea level variations in the Indo-Pacific region

09:50-10:10	All	Discussion on sea level
10:10-10:30	Tea Break	
10:30-10:50	Yan Du	Climate modes in tropical Indian Ocean and their impact on the Northwestern Pacific
10:50-11:10	Matthew Collins	SAPRISE project and UK-India collaborations
11:10-11:20	Ken Ando / M. McPhaden	Status of TAO/TRITON array; Future of tropical observing systems
11:20-11:40	Ken Ando / M. McPhaden / T. Lee	Discussion on future of tropical observing system
11:40-12:10	All	Discussion: Future IOP and PP joint activities
12:10	Lunch	

Note: Please leave at least 5 minutes for discussion in each presentation.

II- Pacific Panel Meeting

1 :30 pm 10 July -- 5 :25 pm 11 July :

Session 1: Western Boundary Currents: NPOCE SSC-2013 + SPICE updates

Chair: Dunxin Hu

10 July 13h30-13h40	Dunxin Hu	Opening address and welcome remarks
13h40-13h50	Dunxin Hu	NPOCE administration since last SSC meeting
13h50-14h10	Fan Wang	"973" project (Structure, variability of the western tropical ocean circulation/warm pool and climatic effect, 2012-2016) and General introduction to Strategic Priority Research Program of CAS (2013-2017)
14h10-14h30	Dongliang Yuan	Project of State Programme on Global Change (Oceanic response to global change and its effect on East Asian monsoon, 2012-2016) and Strategic Priority Research Program of CAS (2013-2017: PO part)
14h30-14h45	Yuji Kashino	Observational contribution to the NPOCE project by JAMSTEC
14h45-15h00	Jae Hak Lee	Progress in KIOST's ocean observation in the tropical western Pacific
15h00-15h15	Lixin Wu	"973" project (processes and mechanisms of multi-scale marine variability in the Northwest Pacific and its predictability, 2013-2017)
15h15-15h30	Team Break/ Group Photo	
15h30-15h45	Dake Chen	"973" project (Mechanisms of upper ocean response to and modulation on typhoon, 2013-2017)
15h45-16h00	Bo Qiu	Some new circulation features in the subthermocline North Pacific Ocean
16h00-16h15	Stephen Riser	????
16h15-16h30	Tangdong Qu	Connection of the western Pacific warm pool with subtropical region
16h30-16h45	Minhan Dai	NPOCE and Ocean Biogeochemistry: about NPOCE's New Theme on Biogeochemistry
16h45-17h00	William Kessler	Glider observations of the Solomon Sea: Update and future prospects
17h00-17h25	Alex Ganachaud	SPICE updates and synergy with NPOCE
17 h25-17h55	NPOCE SSC membership (invitation only)	
19h00	Panel Dinner at Level 2, chinese restaurant	

Session 2: Marine biophysical interactions and dynamics of upwelling systems

Chair: Shoshiro Minobe

11 July 08h40-09h00	Shoshiro Minobe	PICES and IMBER activities
09h00-09h15	Carmen Morales (Visio) Shoshiro Minobe	Opening to the South East Pacific
09h15-09h30	Matthieu Lengaigne	Discussion: Strengthening our collaboration with PICE and IMBER communities

Session 3: Decadal variability, SPCZ, and ITCZ

Chair: TBA

09h30-09h50	Xiaopei Lin	Fast Warming in the Northwestern Pacific Ocean- Contribution by Modulation of Annual Cycle
09h50-10h20	Mat Lengaigne and All	Discussion: Decadal predictability, what is new and how might we break new grounds ? SPCZ, now that we have picked the low-hanging fruits, what are the long-standing scientific issues?
10h20-10h50	Tea Break	

Session 4: Response of ENSO and the tropical circulations to greenhouse warming

Chair : Mat Collins

10h50-11h20	Shang-Ping Xie	The response of the tropical circulation to global warming
11h20-11h40	Sang-Wook Yeh	Changes in the El Nino's spatial structure under Global warming
11h40-12h00	Matt Collins (contributes E. Guilyardi & T. Lee)	Updates on ENSO task team and recent ENSO in a warming climate
12h00-13h30	Lunch	
13h30-13h50	Mat Lengaigne	Ability of CMIP5 models to simulate ENSO (as compared to CMIP3) and the main biases in terms of atmospheric feedbacks.
13h50-14h10	Mike McPhaden	The recent classic and Modoki ENSO workshops
14h10-14h20	Awnesh Singh	A recent warm pool workshop
14h20-14h30	Mat Collins and All	Discussion : what is next in the ENSO and global warming research ?

Session 5: Sea level and climate extremes in the Pacific

Chair: Alex Ganachaud

14h30-15h00	All	Building PP's capability in sea level change and variability research
15h00-15h30		Tea Break

Session 6: Capacity building in the South Pacific

Chair: Alex Ganachaud

16h00-16h30	Arona Ngari, Awnesh Singh	PACCSAP capacity building activities What the PICs really want and need ?
16h30-16h40	Phil Wiles (remotely)	Seasonal Climate Outlooks for the Pacific Islands (Pacific Island GOOS)
16h40-16h50	Ken Ando (for Wenxi Zhu)	WESTPAC and collaborations with UNESCO/IOC

Session 7: Pacific Panel

Chairs: Wenju Cai and Alex Ganachaud

16h50-17h50	All	Action Items and Next Meeting
17h50		Close
18h30		Dinner

Note: Presentations should be about 10 minutes followed by 10 minutes for discussion.

Discussion topics (Draft suggestions : please step in)

Pacific Panel

Task team	Topic	Leaders	Notes
ENSO in a warming climate (additional task team)	CMIP-5 results	M. Collins, M. Lengaigne, W. Cai	
Decadal climate variability and predictability	SPCZ and ITCZ	(S. Power) M. Lengaigne, W. Cai,	
	Warm pool workshop report	? A. Singh	
TAO/Triton Array	Sustainable tropical observations	Ken Ando and Mike McPhaden	
Marine biophysical interactions and dynamics of upwelling systems	Opening to East Pacific	C. Morales (remotely)	Links with VOCALS (PI R. Garreau)
	Opening to North Pacific	Minobe, Kaschino	
	Other linkages with PICES and IMBER	Minobe, Kaschino, M. Lengaigne, A. Ganachaud	
Dynamics of regional sea level variability			
Trends, non linearities and extreme events			
Opportunities for capacity building and outreach		A. Ngari, A. Singh, A. Ganachaud	

Joint Pacific-Indian Panel

(start with a short overview of WCRP Grand Challenges and CLIVAR research opportunities by Martin)

Task team	Topic	Leaders	
Intraseasonal-Seasonal-Interannual variability and predictability of monsoon systems	Future of Tropical observing systems	T. Lee T. Suga M. McPhaden B. Kessler	
	MJO and Warm Pool	D. Wang, ?	
	Warm Pool and East Pacific connection	T. Lee, ?	
Decadal climate variability and predictability	Indo-Pacific teleconnections: ENSO and IOD	T. Lee, D. Wang	

ITF task team	ITF oceanic connexion	?	Updates/plans
	ITF Pacific forcing	T. Lee, D. Yuan	