



Integrated CLIVAR Panel Schedules

Day 1
Monday - 14th July

Atlantic		Pacific		Indian		Southern		GSOP		OMDP	
	Room: Mississippi		Room: Kilimanjaro 1		Room: Kilimanjaro 1		Room: Amazon		Room: Everest 1		Room: Everest 1
09:00	Welcome	08:30	Welcome	08:30	Welcome	08:30	Welcome, Introduction, and charge to meetings. (co-chairs)	08:30	Welcome, new member (Kamachi) introductions, and overview of agenda (adjust if necessary) (Lee)	08:30	Welcome, new member (Kamachi) introductions, and overview of agenda (adjust if necessary) (Lee)
	Theme 1: Atlantic Observing System (Brandt)		Joint PP/IOP		Joint PP/IOP		SOP and CLIVAR/WCRP research foci and grand challenges, CLiC and SCAR, SOP terms of reference (co-chairs)		Overview of activities since the last GSOP meeting (Haines)		Overview of activities since the last GSOP meeting (Haines)
09:30	• AMOC Observing System	09:00	ENSO-IOD relations in CMIP 5 (Vialard)	09:00	ENSO-IOD relations in CMIP 5 (Vialard)			08:45		08:45	
10:00	OSNAP (Kanzow)	09:30	Climate model assessment (Cai)	09:30	Climate model assessment (Cai)						
	RAPID-WATCH (Baringer)	10:00	Indo-Pacific decadal climate variability (Han)	10:00	Indo-Pacific decadal climate variability (Han)		SOOS update (Naveira-Garabato)		Joint GSOP-OMDP		Joint GSOP-OMDP
							CLIVAR Achievements report (SOP discussion)	09:00	Review of ongoing effort of ocean reanalysis intercomparison ORA-IP (Balmaseda, Palmer, Haines)	09:00	Review of ongoing effort of ocean reanalysis intercomparison ORA-IP (Balmaseda, Palmer, Haines)
									<ul style="list-style-type: none"> Report of recent meetings on this subject (ECMWF meeting, GODAE symposium) Summary/highlights of Intercomparison Updates on related publications New ESF COST program on ocean reanalysis comparisons (Haines with contribution from Azcarate) Identify the way forward; discuss coordination for publications; future meetings 		<ul style="list-style-type: none"> Report of recent meetings on this subject (ECMWF meeting, GODAE symposium) Summary/highlights of Intercomparison Updates on related publications New ESF COST program on ocean reanalysis comparisons (Haines with contribution from Azcarate) Identify the way forward; discuss coordination for publications; future meetings
								10:00	Near real-time ocean /climate monitoring using ensemble operational ocean analysis products (Xue)	10:00	Near real-time ocean /climate monitoring using ensemble operational ocean analysis products (Xue)
Coffee break/discussion											
	Room: Mississippi		Room: Kilimanjaro 1		Room: Kilimanjaro 1		Room: Amazon		Room: Everest 1		Room: Everest 1
11:00	SAMOC (Baringer)	11:00	Update on ITF Task Team activities (Sprintall)	11:00	Update on ITF Task Team activities (Sprintall)	11:00	Achievements: observing systems (Chereskin)	11:00	Coordination of forward model – ocean reanalysis intercomparison	11:00	Coordination of forward model – ocean reanalysis intercomparison
11:30	Discussion	11:30	YMC (Yoneyama)	11:30	YMC (Yoneyama)	11:30	Achievements: process experiments (Naveira-Garabato)		<ul style="list-style-type: none"> A preliminary Intercomparison for AMOC and MLD (Danabasoglu) How to move forward with forward model-ocean reanalysis Intercomparison? (All) 		<ul style="list-style-type: none"> A preliminary Intercomparison for AMOC and MLD (Danabasoglu) How to move forward with forward model-ocean reanalysis Intercomparison? (All)
		12:00	Discussion on joint activities	12:00	Discussion on joint activities	12:00	Achievements: identifying gaps (England)				
								12:00	Discussion/recap of topics in the morning	12:00	Discussion/recap of topics in the morning
Lunch											



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	Room: Mississippi		Room: Kilimanjaro 1		Room: Kilimanjaro 2		Room: Amazon		Room: Kilimanjaro 1		Room: Everest
13:00	<ul style="list-style-type: none"> Subtropical/tropical Observing System PIRATA and western tropical Atlantic (Brandt)	13:30	Joint PP/GSOP CLIVAR ENSO Research Focus (Guilyardi)	13:30	RAMA array progress and status (McPhaden, Phillips, Murty, Liu, Tozuka)		Short talks by new members, with emphasis on their prospective for SOP research during the next 5 years:	13:30	Joint PP/GSOP CLIVAR ENSO Research Focus (Guilyardi)	13:30	Report back from WMAC Preparing for Process Study-Model Development break out session
13:30	SPURS and air-sea fluxes (Farrar)	14:00	The Universality of Combination Modes (Timmermann)	14:10	Argo array, Drifting buoys and Tide gauges (Ravichandran)			14:00	The Universality of Combination Modes (Timmermann)		
14:00	South African initiatives and capacity building (Rouault)	14:30	ENSO and GW: coordinated experiment for CMIP6 on ENSO teleconnections (Collins)	14:40	XBT (Feng)	13.30	Katsumata	14:30	ENSO and GW: coordinated experiment for CMIP6 on ENSO teleconnections (Collins)ons (Collins)		OMPD Terms of Reference Discussion of future activities basin/GSOP panel joint activities
14:30	Discussion					14.00	Shi				
15:00	End of day					14.30	Overview of planning materials: national plans (England, Talley)				
						15:00	End of day				
Coffee Break											
			Room: Kilimanjaro 1		Room: Kilimanjaro 2				Room: Kilimanjaro 1		Room: TBC
		15:30	TPOS (Kessler, Ando, Lee, Balmaseda, Kamachi)		Short talks by new members, with emphasis on their prospective for IO research during the next 5 years:			15:30	TPOS (Kessler, Ando, Lee, Balmaseda, Kamachi)	15:30	OMDP recommendations for CMIP output (fields, protocol for grid interpolation)
		16:00	Current status of the Pacific and ENSO forecasts; Rapid international response strategies to climate events (McPhaden, Timmermann)	15.30	Beal			16:00	Current status of the Pacific and ENSO forecasts; Rapid international response strategies to climate events (McPhaden, Timmermann)		CORE discussions (any updates since Kiel, BGC, future experiments)
		16:30	- GODAE OceanView (intercomparison and observing system assessment and design) (Haines, Balmaseda, Lee)	16.00	Liu			16:30	- GODAE OceanView (intercomparison and observing system assessment and design) (Haines, Balmaseda, Lee)		End of day
		17:00	The role of the Pacific in the hiatus: open discussion (Cai, Collins, Balmaseda)	16.30	Philips			17:00	The role of the Pacific in the hiatus: open discussion (Cai, Collins, Balmaseda)		
		17:30	End of day	17.00	Tozuka			17:00	End of day		
				17:30	End of day						

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Day 2
Tuesday – 15th July

	Room: Kilimanjaro 2		Room: Europe 1		Room: Europe 2		Room: Killimanjaro 1		Room: Everest 1		Room: Kilimanjaro 2
09:00	Joint AIP/OMDP Eastern Tropical Atlantic, PREFACE (Brandt)	08:30 09:00	Panel Strategy (Cai, Ganachaud) Review of the Tropical Pacific observing system (Kessler) East Pacific plans (Morales/Schneider)	08:30	Updates on regional observing systems and process studies: ASCA, ARC and LOCO (Beal); overview of other regional projects (MOMSEI, ASEA/BOB, ASCLME, IMOS, EIOURI: Ravichandran)	08:30	CLiC overview (Krinner) Towards a science and implementation strategy	08:30	CLIVAR Planetary Heat Budget and Ocean Heat Content Task Team and ESA funded International Research Institute working group on the subject (Mathieu and von Schuckmann)	9:00	Joint AIP/OMDP Eastern Tropical Atlantic, PREFACE (Brandt)
09:30	Theme 2: Atlantic Modeling System (Chang) • Tropical Problems Tropical Atlantic Bias and ETOS (Zuidema (invited))	09:20 09:50 10:10	NPOCE and WBCs (Lin) SPICE (Ganachaud)	09:00	Update on the status of SIBER & IIOE-2 (Hood)	09:00	Frontier research: fundamental science, new opportunities, factors limiting progress. SCAR workshop information and science questions. (England; SOP discussion)	09:00	Update on surface fluxes activities (including issues related to TPOS) (Gulev)	09:30	Theme 2: Atlantic Modeling System (Chang) • Tropical Problems Tropical Atlantic Bias and ETOS (Zuidema (invited))
10:00	Tropical Cyclone Effect on Ocean Circulations (Griffies)			09:20	Concept and implementation of IOP-SIBER Summer School (Vialard) 09:30hr - Discussions about IOP inputs to IRF-2, including issues of IndOOS implementation	09:30		09:30	GSOP coordination of international effort on QC of global subsurface ocean data (IQuOD project) (Domingues, Palmer)	10:00	Tropical Cyclone Effect on Ocean Circulations (Griffies)
				09:30	Discussions about IOP inputs to IRF-2, including issues of IndOOS implementation			10:00	Updates on the interaction with OOPC/GCOS defining requirements for Ocean Essential Climate Variables (ECVs) (Lee, Domingues, others?)		
				10:00	Links to other Panels (e.g. Monsoon panel, climate dynamics panel, GSOP, OMDP), including coordinated modeling experiments or analysis of existing experiments for the Indian Ocean (strengthen the modeling implication of the IOP)						
Coffee Break/Discussion											
	Room: Kilimanjaro 2		Room: Europe 1		Room: Europe 2		Room: Killimanjaro 1		Room: Everest 1		Room: Kilimanjaro 2
11:00	• Mid-and High-Latitude Problems US-AMOC (Danabasoglu)	11:00 11:20	POSEIDON/GAIA/TIPEX (Yeh) SPCZ (Lengaigne)	11:00	CLIVAR Research Foci: introduction and discussion on how IOP can contribute during the next 5 years (Vialard, Ravichandran)	11:00	SOOS under-ice workshop (Rintoul slides, presented by Naveira-Garabato)	11:00	Observing system updates: satellites (recent and upcoming missions for various ocean parameters) (Lee, Mathieu)	11:00	• Mid-and High-Latitude Problems US-AMOC (Danabasoglu)
11:30	Collaboration and Interaction with WGOMD (Treguier)	12:00	Discussion/ Pan CLIVAR preparation: Pacific observing system requirements (Ganachaud and Kessler to lead)			11:30	Future implementation activities: observations and process experiments	11:30	Observing system updates: in-situ (tropical mooring arrays, Argo, OceanSites, etc.) (Ando, Roemmich, Send)	11:30	Collaboration and Interaction with WGOMD (Treguier)
						12:00	Organization (including CLiC, SCAR) and outreach				
Lunch											
	Room: Kilimanjaro 2		Room: Europe 1		Room: Europe 2		Room: Killimanjaro 1		Room: Everest 1		Room: Killimanjaro 1
13:00	CLIMODE related model-data comparison (Kwon)	13:30	How the SP waters get into the NPAC and gets into the ITF? (Sprintall, Kessler)	13:30	Review IOP terms of reference and plans for the next 5 years from the report to SSG		Joint SOP-OMDP meeting	13:30	Ocean Climate Indicators Task Team (Lee)		Joint SOP-OMDP meeting
13:30	Modeling Storm Tracks (Robinson)		ENSO in GW: the system would be more sensitive to temperature changes (Guilyardi, Collins)			13:30	CORE and the ongoing comparison projects (Danabasoglu)	13:30	Discussion of future GSOP activities/priorities	13:30	CORE and the ongoing comparison projects (Danabasoglu)
14:00	High-resolution modelling of Frontal Air-Sea Interactions (Chang)	13:50	ENSO teleconnections and how it might change with GW (Yeh)	14:45	Action items and wrap-up discussion	14:00	Ice shelf - basal melting (water hosing) (Timmermann)	13:45	• Future priorities: e.g., TPOS2020, deep ocean observations, ocean climate indicators & near real-time monitoring, coupled synthesis.	14:00	Ice shelf - basal melting (water hosing) (Timmermann)
	Theme 3: Panel Strategy (Brandt and Chang) <i>AIP relevant CLIVAR research foci</i> 1. Dynamics and prediction of regional sea level variability 2. Gulf Stream and North Atlantic Current variability and impact on storms (particularly winter extratropical storms) 3. Climate impact of an ice-free Arctic 4. Atlantic tropical storms in a future climate 5. ENSO impact on Atlantic	14:10 14:30 14:50 15:00	WBCs changes with global warming and climate (Cai, Ganachaud) Panel strategy: recommendations to SSG / Pan CLIVAR meeting	15:00	End of meeting	14:30	Wind perturbation protocol / experiments (England)	14:45	• GSOP participations in future meetings.	14:30	Wind perturbation protocol / experiments (England)
								14:45	Action items and membership		
								15:00	End of meeting		
Coffee Break/Discussion											

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	Room: Kilimanjaro 2				Room: Killimanjaro 1				Room: Killimanjaro 1
15:30	<i>Membership and Expertise Gaps</i> 1. Paleoclimate 2. Tropical storms 3. Others?				Towards science and implementation strategy, including OMDP				Towards science and implementation strategy, including OMDP
16:00	<i>International Collaborations & Collaborations with Other Panels</i> 1. Capacity building/development 2. Impact of tropical cyclones on ocean – 2nd phase of hurricane working group 3. Oxygen minimum zone research initiative 4. Others ?			15:30	Southern Ocean metrics (Russell, new panel member)			15:30	Southern Ocean metrics (Russell, new panel member)
16:30	Summary and Concluding Remarks			16:00	Model metrics/observational comparisons (AABW, water masses) (Talley)			16:00	Model metrics/observational comparisons (AABW, water masses) (Talley)
17:00	End of meeting			16:15	Model validations (CDrake) (Chereskin)			16:15	Model validations (CDrake) (Chereskin)
					Future implementation activities: modelling and intercomparisons				Future implementation activities: modelling and intercomparisons
					Future implementation activities: coordinated analysis/synthesis (Russell and Marsland)				Future implementation activities: coordinated analysis/synthesis (Russell and Marsland)
					SOP wrapup				End of meeting
				17:00	Strategic and implementation plan wrap-up: tasks and deadlines; Revisit terms of reference, plan for pan-CLIVAR meeting (co-chairs)				
				17:30	End of meeting				