

Observation Systems of Climate Change in the South Pacific

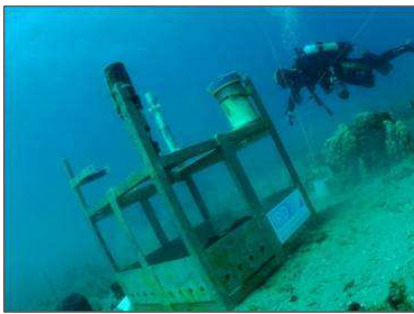


AGENDA

Workshop on Observation Systems of Climate Change in the South Pacific

11-12 June 2015

IRD Centre, Noumea, New Caledonia



Submarine observatory in the lagoon of NC
©M. Rodier/IRD



School of tuna ©M. Taquet/IFREMER



Submerged wharf in Vanuatu ©B. Pelletier/IRD

Jointly organized by:

PACE-Net Plus “Pacific Europe Network for Science Technology and Innovation:
<http://pacenet.eu/>

and

GOPS “South Pacific Integrated Observatory for Environment and Terrestrial and Marine
Biodiversity”: <http://www.observatoire-gops.org/>

In association with:

PaCE-SD “The Pacific Centre for Environment and Sustainable Development” – The University of
the South Pacific (USP): <http://pace.usp.ac.fj/>

Observation Systems of Climate Change in the South Pacific

Strengthening the Observation systems of Climate change and its impacts in the South Pacific, for a sustainable management of resources and adaptation

This workshop on climate change and its impacts due to natural variability and anthropogenic causes will focus on three scientific and technological area of research:

- Oceanography, ocean atmosphere interactions and variability;
- Impacts of climate change on ecosystems and biodiversity, and on marine and terrestrial resources;
- Impacts of climate change on communities.

Broad-ranging presentations will introduce discussions and exchanges on the following questions:

- What kinds of data and tools are needed? What impact will be addressed by which data?
- How will data be used and model integration will be achieved?
- What partnerships are needed to support and exploit these observation systems?

The central objective of this workshop that will bring together experts from Pacific countries, from their regional organizations, and from Europe will be **to produce a guidance note for the European Institutions on the projects and tools for these observation systems**, as well as the partnerships to be implemented to strengthen those, in the perspective of the societal challenges relating to climate change in the Pacific.

11 June 2015

TIME	SUBJECT	LEAD
8:50-9:00	Workshop Registration (auditorium)	
9:00-9:05	Welcome address	Georges de Noni (IRD)
9:05-9:20	PACE-Net+ and Workshop Objectives	Fadhila Le Meur (PACE- Net+)
Plenary Session: Chair: Patrick De Deckker (ANU)		
9:20-9:40	Climate Change in the Pacific: Key Challenges	Patrick Nunn (USC) Presented by S. Power
9:40-10:00	Past, present and future climate in the Pacific	Scott Power (BOM)
10:00-10:20	Integrated observatories of CNRS-INEE	Martine Hossaert (CNRS – INEE)
10:20-10:40	Coffee Break & Group Photograph	All
10:40-11:00	Integrated observatories of CNRS-INSU	Etienne Ruellan (CNRS- INSU)

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11:00-11:20	Overview of Climate Data Services for the Pacific Region	James Potemra (PacIOOS)
11:20-11:40	PI-GOOS and Status of Pacific Islands Ocean Observing Networks	Tommy Moore (PI-GOOS)
11:40-12:00	Integrated South Pacific Observatory for Environment and Terrestrial and Marine Biodiversity	Bernard Pelletier & Sylvie Fiat (IRD-GOPS)
12:00-13:30	Lunch (IRD Fare)	All
Parallel Session 1: Observing Climate change: oceanography, ocean atmosphere interactions Chair/facilitator: Geoffroy Lamarche (NIWA), Rapporteur: Jérôme Aucan (IRD)		
13:30-13:50	Report on the First Pacific Islands Training Workshop on Ocean Observations and Data Applications held in Palau the 4-7 May 2015	Tommy Moore (SPREP-PI GOOS)
13:50-14:10	Ocean Observation Systems in the Fiji Islands: Current Status, Needs and Future Plans	Antoine N'Yeurt (USP)
14:10-15:40	Discussion: What types of data and tools are needed? What impact will be addressed by which data?	Participants topic 1
15:40-16:00	Tea Break	All
16:00-17:30	Discussion: How will data be used and model integration will be achieved?	Participants topic 1
17:30-17:40	Daily Wrap-up & Plans for tomorrow	
Parallel Session 2: Observing impacts of climate change on ecosystems and biodiversity, and on marine and terrestrial resources Chair/facilitator: Fanny Houlbrequé (IRD), Rapporteur: Hervé Jourdan (IRD)		
13:30-13:50	The challenge to observe terrestrial biodiversity in the context of climate change. Insights from New Caledonian biodiversity hotspot.	Hervé Jourdan (IRD)
13:50-14:10	Importance of ocean acidification monitoring and biologically induced pCO ₂ fluctuations around coral reefs	Ricardo Rodolfo-Metalpa (IRD)
14:10-15:40	Discussion: What types of data and tools are needed? What impact will be addressed by which data?	Participants topic 2
15:40-16:00	Tea Break	All
16:00-17:30	Discussion: How will data be used and model integration will be achieved?	Participants topic 2
17:30-17:40	Daily Wrap-up & Plans for tomorrow	

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Parallel Session 3: Observing impacts of climate change on communities Chair/facilitator: Raphael Billé (SPC) Rapporteur: Gilbert David (IRD)/ Katharine Vadura (Uni. Canterbury)		
13:30-14:50	Oceanian Pacific observing systems in human sciences	Vijay Naidu (USP)
13:50-14:10	Data requirements for observing the vulnerability, adaptation and resilience of PICTS's economies and communities facing climate change	Gilbert David (IRD)
14:10-15:40	Discussion: What types of data and tools are needed? What impact will be addressed by which data?	Participants topic 3
15:40-16:00	Tea break	All
16:00-17:30	Discussion: How will data be used and model integration will be achieved?	Participants topic 3
17:30-17:40	Daily Wrap-up & Plans for tomorrow	
18:30-20:00	Social event: wine and cheese degustation (IRD Fare)	All

12 June 2015

TIME	SUBJECT	LEAD
Parallel Session 1: Observing climate change: oceanography, ocean atmosphere interactions Chair/facilitator : Geoffroy Lamarche (NIWA), Rapporteur: Jérôme Aucan (IRD)		
8:50-9:00	Review of previous day session	
9:00-9:15	SPOT (South Pacific Ocean Time series) station	Cécile Dupouy (IRD)
9:15-9:30	Multi-hazard Coastal Vulnerability Monitoring and Warning System for the Pacific Islands	Jérôme Aucan (IRD)
9:30-10:30	Discussion: What partnerships are needed to support and exploit these observation systems?	Participants topic 1
10:30-10:50	Coffee Break	All participants
10:50-12:00	Discussion for establishing resolutions and recommendations for topic 1	Participants topic 1

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Parallel Session 2: Observing impacts of climate change on ecosystems and biodiversity, and on marine and terrestrial resources Chair/facilitator: Fanny Houlbreque (IRD), Rapporteur: Hervé Jourdan (IRD)		
8:50-9:00	Review of previous day session	
9:00-9:15	Mangrove observatory in the Indo-Pacific region	Cyril Marchand (IRD)
9:15-10:30	Discussion: What partnerships are needed to support and exploit these observation systems?	Participant topic 2
10:30-10:50	Coffee Break	All participants
10:50-12:00	Discussion for establishing resolutions and recommendations for topic 2	Participant topic 2
Parallel Session 3: Observing impacts of climate change on communities Chair/facilitator: Mike Goldsmith (Univ. Waikato) Rapporteur: Pascal Dumas (UNC)		
08:50-9:00	Review of previous day session	
9:00-9:15	Observation of the social effects of climate change in Pacific Islands: what can be observed and how?	John Campbell (Univ. Waikato, NZ)
9:15-10:30	Discussion: What partnerships are needed to support and exploit these observation systems?	Participants topic 3
10:30-10:50	Coffee Break	All
10:50-12:00	Discussion for establishing resolutions and recommendations for topic 3	Participants topic 3
Lunch		
12:00-13:30	Lunch	All
13.30-14.00	<i>Organisation committee meeting</i>	<i>Facilitators and rapporteurs</i>
Plenary Session: Chair/facilitator: Georges de Noni – Bernard Pelletier		
14.00-14.10	Synthesis topic 1	Rapporteur Topic 1 Jérôme Aucan
14.10-14:20	Synthesis topic 2	Rapporteur topic 2 Hervé Jourdan
14:20-14:30	Synthesis topic 3	Rapporteur Topic 3 Gilbert David et al.
14.30-16.00	General Discussion	All participants
16.00-16:10	Concluding Remarks	
16:30-18:00	<i>Workshop Report</i>	<i>Organisers + Rapporteurs</i>