Pacific Europe network for Science and Technology

PACE-Net: Pacific Europe network for Science and Technology

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Deliverable 4.1.3.

Organisation of the 3 first thematic workshops on "Health, Biodiversity and Climate change"

See: deliverable 4.1.4 for workshop reports

4-7 July 2011

Brisbane (Australia)

Work Package 4: Deliverable Report 4.1.3.

Prepared by: Fadhila Le Meur (PACE-Net project manager)

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Pacific Europe network for Science and Technology

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Pacific and European researchers meet in Brisbane for bi-regional dialogue

The first bi-regional platform of the PACE-Net project was held last week in Brisbane with more than 60 participants from Pacific ACP countries and overseas territories (OCT), New Zealand, Australia and Europe.

The platform concluded on Thursday, the 7th of July, after four days of dialogue and exchange. Discussions were kicked off on the first day by presentations on analyses and inventories of cooperation programs in science and technology in the Pacific, which had been carried out by the University of the South Pacific (USP) and the Secretariat of the Pacific Community (SPC). Assessments by the University of Papua New Guinea are equally being undertaken to supplement these analyses. During the dialogue, Pacific representatives insisted on the importance of understanding Pacific region science and technology priorities as a basis for developing actions of mutual interest with European partners. A range of European financial instruments were also presented and discussed, to understand their purposes and the eligibility requirements.

This event, jointly organized by IRD and the ANU at the new Ecosciences Precinct, brought together experts and representatives of key Pacific and European stakeholder institutions, as well as representatives from the 10 partner institutions of the PACE-Net consortium. The highlights of the week included the expert thematic workshops on the 3rd of July, focusing on the topics of climate change, water, energy, health and ecosystems.

The experts' conclusions and recommendations will be communicated to the European Commission Directorate for Research and Innovation, so that they can be taken into account for the next phase of scientific programming. The four-day event was also attended by two members of the project's External Advisory Board who delivered their opinions and recommendations on the preliminary project results and forthcoming project actions. The next bi-regional platform is planned for March 2012 in Brussels, to be organized by the German partner (IB-DLR) of the PACE-Net consortium. In the interim, activities will continue according to the project's agenda and the consortium will endeavor to maintain a strong and sustainable network of Pacific and European actors with mutual science and technology interests, who can work together to ensure positive Pacific region development.

The PACE-Net project consortium includes 11 research institutions from the European Union (France, Italy, Germany, Malta) and the Pacific region (Papua New Guinea, Australia, New Zealand), as well as two Pacific regional organizations (SPC and USP). The network is coordinated by the French IRD centre in New Caledonia, and aims to promote scientific co-operation in the natural and social sciences between Pacific and European institutes.

For further information about the Brisbane event or the PACE-Net project, please contact:
Claude Payri (claude.payri@ird.fr), PACE-Net Project Coordinator. Ph: (+687) 26 07 50
Fadhila Le Meur (fadhila.lemeur@ird.fr), PACE-Net European Project Manager. Ph: (+687) 26 07 97
Katherine Daniell (katherine.daniell@anu.edu.au), ANU representative and PACE-Net partner

List of experts to the PACE-Net workshop on "Health" in Brisbane, July 5-7 July 2011

First name	Last name	Organisation & Contact	Key Interests	Short bio
John	AASKOV	Queensland University of Technology (Australia) j.aaskov@qut.edu.au	- Mosquito borne viral diseases - Diagnostics, - Vaccines - Quality Assurance for diagnostic serology laboratories	They are a WHO Collaborating Centre for Arbovirus Reference and Research and have collaborated with institutes in Asia and the Pacific for more than 25 years in arbovirus research The team has developed diagnostic assays for Ross River and dengue virus infections that have been turned into global commercial products. They have participated in the human clinical trials of Japanese encephalitis and Ross River virus vaccines. They developed the Ross River virus vaccine..
John	ATTARD KINGSWELL	Environmental Health Directorate Malta mhi@gov.mt	– Monitor and regulate any environmental issues that may impact on Public Health – Contaminations arising from different sources (including air, water, ground, food and building materials)	In September 2007 I was appointed as the first ever director responsible for the Environmental Health Directorate under the Ministry for Health in Malta. The Environmental Health Directorate leads programmes that promote the attainment of the highest standards of public health and hygiene by addressing risk factors associated with environmental hazards. The Directorate is responsible for safeguarding the health and well being of the public through the enforcement of legislation derived from the European Union, National and international legislation. The Directorate addresses environmental issues within the scope of legislation.
Melanie	BANNISTER-TYRRELL	Australian National University (Australia) Melanie.Bannister-Tyrrell@anu.edu.au	- Dengue fever and climate variability/change in far north Queensland - Climate change effects on malaria and other infectious diseases - Methodological issues in assessing climate change impacts on infectious diseases	Research assistant in the Environment, Climate and Health theme at the National Centre for Epidemiology and Population Health, Australian National University. Investigates impacts of climate change on human health; subtopics include temperature, weather and air quality; infectious diseases; drought, drying, rural/remote health; food yields, nutrition health; and adaptation strategies. Other topics in the Environment, Climate and Health theme include: UV radiation and other environmental effects on immune function; urban environments and health; and environmental change, sustainability and social stability.
Hervé	BOSSIN	ILM (Institut Louis Malardé) hbossin@ilm.pf	- South Pacific - Mosquito-borne diseases - Mosquito bio-ecology - Sustainable vector control - Area-wide integrated pest	Institut Louis Malardé (ILM) is a French Polynesian Biomedical Research Center based in Tahiti, French Polynesia. The Medical Entomology and Parasitology Laboratory at ILM is conducting a range of basic and operational research activities against insect pests of medical importance (biting midges and mosquito vectors of diseases) that affect French Polynesia and other Pacific Island Countries (PICs). Our field and lab-based research focuses on the development of

			management	innovative, integrated, area-wide approaches for the sustainable control of mosquito-borne diseases such as lymphatic filariasis, dengue and chikungunya. French Polynesia and its many islands form a unique natural laboratory perfectly suited for such high impact field research. Our laboratory is involved in the development and field evaluation of novel mosquito control approaches, including *Wolbachia*-based vector population elimination and/or replacement. Transgenic approaches are also being considered for combating both *Aedes aegypti and Aedes polynesiensis,* the two main disease vectors affecting French Polynesia and most of the PICs.
Eric	D'ORTENZIO	Institut Pasteur, New Caledonia edortenzio@pasteur.nc	- Emerging Infectious Diseases Epidemiology - Chikungunya - Dengue - Leptospirosis - Rheumatic Fever and group A streptococcus diseases.	Our Infectious Diseases Epidemiology Unit conducts research on the epidemiology and control of infectious diseases of public health importance in New Caledonia and has collaborative research links in others Pacific countries. The research ranges from ecological studies investigating explanations for population differences in disease transmission, through cohort and case-control studies of disease aetiology, evaluation of health programmes, mathematical modelling of infectious diseases and burden of diseases. Research is conducted on a wide range of infections, including: dengue, chikungunya, leptospirosis, rheumatic fever (consequence of an infectious disease with group A streptococcus), tuberculosis, respiratory diseases. Staff includes medical and statistical epidemiologists. There is considerable interest in methodological work, including research on statistical methodology, transmission models, immuno-epidemiology.
Allison	IMRIE	University of Western Australia imrie@cyllene.uwa.edu.au	- Infectious diseases - Dengue - Molecular epidemiology - Immunopathogenesis - Arboviruses	Our work aims to define the nature of dengue virus-specific immune responses, in Pacific Islanders. We have initiated studies in Hawaii and French Polynesia and recruited study participants with histories of previous dengue virus infection. Our approaches include molecular epidemiological studies to understand the movement of viruses among populations, and to gain an understanding of disease and epidemic virulence, and assessments of immuno-pathologic mechanisms which may contribute to the severe forms of dengue illness.
Vaira-Irisa	KALNINA	Institute of microbiology and virology, Riga Stradins University vaira.kalnina@rsu.lv	- Virology and Antivirals - Molecular biology - Epidemiology of infectious diseases and Pandemics - Influenza viruses	MD,PhD. V. Kalnina works at Riga Stradins University,1992-2009:State Public Health Agency, Head of Methodology Department (2008-2009)and Head of Virology Laboratory (1992 – 2007**);** 1966-1992. Latvian Academy of Sciences, Institute of Microbiology, senior researcher.
Van-Mai	LORMEAU	ILM (Institut Louis Malardé) mlormeau@ilm.pf	- Epidemiology, molecular epidemiology and genetic evolution of dengue virus - Intra-host genetic diversity of	The Research Laboratory in Medical Virology at Institut Louis Malardé is interested in arboviruses surveillance and dengue virus (DENV) research in French Polynesia (FP) for more than 30 years. Currently, our main research activities are focused on the epidemiology, molecular epidemiology and genetic evolution of

			dengue virus in the human and the mosquito - Field and laboratory tools for the detection and surveillance of arboviruses - Pathogenesis of dengue virus infection - Impact of environmental factors on the epidemiology and genetic evolution of mosquito-transmitted pathogens in island countries	DENV in FP and Pacific Island Countries. We are particularly interested in the impact of epidemiological, eco-biological (climate, endemic mosquito species) and sociological factors on DENV microevolution. We are also conducting studies addressing the dynamics of DENV genetic diversity in the infected host (human and mosquito). Otherwise, as part of "arboviruses surveillance system" in FP, our lab is in charge of implementing and up-dating laboratory tools for the detection of mosquito-transmitted viruses (qRT-PCR, ELISA). In the expectation to improve the surveillance of arboviruses in the whole Pacific region, we recently initiated a Pilot study on the use of filter paper cards for the surveillance of DENV serotypes circulating in Pacific Island Countries. Our main collaborators are: *Institut Pasteur de Nouvelle Calédonie (New Caledonia), Queensland University of Technology (Australia), University of Hawaii (Hawaii), CNR des arbovirus - Institut Pasteur de Paris (France), Institut de Médecine Tropicale du Service de Santé des Armées (France), IRD (New Caledonia).*
Morgan	MANGEAS	IRD Espace morgan.mangeas@ird.fr	- Spatial and temporal modelling - Dengue outbreaks - Stochastic processes - Environment and health - Climatic change	Currently heading the research unit ESPACE-DEV at the Research Institute for Development in New-Caledonia: 12 members, 3 scientific fields (modelling, remote sensing, and social sciences). For one year, in 2007, Assistant Professor at the University of New-Caledonia in the ERIM team, course on "applied mathematics and computer sciences". Senior researcher at IRD since 2003, working on knowledge discovery, spatial information in environment. Career start as a researcher at IFSTTAR (transport and security research) in France in 1999 just after a position of visiting researcher at the University of Colorado in 1996. Application fields cover ecosystem modelling and disease dynamic modelling.
Graham	MACKERETH	Health Intelligence Team, Health Programme, ESR graham.mackereth@esr.cri.nz	- Communicable disease surveillance and data integration - Outbreak investigation - Public Health laboratories - Communicable and environmental health research - Zoonotic diseases	The ESR Health Programme undertakes reference laboratory services, surveillance, outbreak investigation, and research associated with a public health laboratory, including researching new technologies for use in laboratory science, research into disease trends, such as influenza in people and pigs. Health Intelligence team I coordinate assists the Ministry of Health to prevent and control communicable diseases by providing: · surveillance for prevention and control; · integrated data management; · support with public health policy development; · sector training and education; · partnerships and communication; and · emergency response activities. The Health Intelligence team: provides the Ministry and Public Health Units (PHUs) with specialist advice and analytical services on communicable disease on

				an on-demand basis; maintains high quality programmes in laboratory surveillance of a range of pathogens, notifiable diseases, sexually transmitted infections, influenza and outbreaks; provides for the assessment and surveillance of infectious, communicable, and environmental exposures. The staff mix reflects this and includes: environmental scientists, epidemiologists, public health physicians, biostatisticians, (geo)informaticians, social scientists.
Lohi	MATAINAHO	University of Papua New Guinea lohi.matainaho@upng.ac.pg	- Biology - Chemistry - Medicine	Prof. Dr. Lohi T. Matainaho is the head of the pharmacology department at the School of Medicine and Health Sciences, University of Papua New Guinea. He focuses on researching new medicines from marine and forest resources. PNG is one of the most bio-diverse places on the planet and this richness could yield new drugs to treat illnesses like cancer and tuberculosis.
Manju	RANI	Western Pacific Regional Office World Health Organization ranim@wpro.who.int	- Health systems research especially on service delivery models - Maternal and child health - tobacco control and non-communicable diseases - Governance and management of health research - Health information systems and program evaluation.	Dr. Manju Rani is Senior Technical Officer for Health Research Policy at the WHO Regional office for the Western Pacific. She received her medical degree (MBBS) from Delhi University in India, and PhD degree in public health from Bloomberg School of Public Health, Johns Hopkins University in USA. She has worked on wide ranging public health issues including reproductive health, tobacco control, health inequities, and health service delivery. Between 2004 and September 2010, she was a scientist in Expanded Program of Immunization at WHO Regional Office for Western Pacific. Between 2001 and 2004, she worked on several assignments at World Bank including publication of World Development Report (2004) "Making Services Work for Poor". She held several management and supervisory position in the pubic sector in India between 1993 and 1998.

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List of experts to the PACE-Net workshop on "Ecosystems management" in Brisbane, July 5-7 July 2011

First name	Last-name	E-mail	Organisation	Keywords	Short bio
Philip E.	COWAN	cowanp@landcareresearch.co.nz	Landcare Research (New Zealand)	- Biosecurity - Invasive species management - Biodiversity conservation - Application of new technologies to pest management - Research management	Leader of a team of 20 staff that includes researchers with expertise in wildlife ecology, wildlife management, animal welfare, modelling, molecular biology, immunology and toxicology. Our focus is on improved strategies and technologies for the management of invasive vertebrate species that impact on native biodiversity or agricultural production. Our aim is to develop approaches that are more cost effective, humane, and environmentally safer than current techniques. We work in New Zealand, the pacific and internationally. Much of our international work is focused on feasibility studies for and reviews of progress of island pest eradications
Colin	FILER	colin.filer@anu.edu.au	Resource Management in Asia-Pacific Program, ANU Crawford School of Economics and Government (Australia)	- Cultural and biological diversity - Socio impacts of extractive industry - Forest management and conservation policy - Customary land tenure & modern land policy - Traditional environmental knowledge	RMAP Program aims to play key role in regional and international networks of institutions which undertake or use research on the social, political and economic aspects of environmental and resource management issues in the Asia-Pacific region. Current staff and students mainly conducting research in four areas: (1) social and economic sustainability of extractive industry; (2) local knowledge, common property, and community practice; (3) climate change, natural hazards, and forest management; and (4) environmental policies, regimes and institutions. Primary regional focus on South Asia, Indo-China, Indonesia, Philippines, and Melanesia. My own research has been in PNG and rest of Melanesia.
Johanna	JOHNSON	j.johnson@c2o.net.au	C_2O coasts/climate/oceans & National Marine Science Centre (Australia)	- Marine tropical ecosystems - climate change vulnerability and adaptation - water quality monitoring and catchment management - fisheries research - marine protected areas	Marine research and monitoring primarily in tropical ecosystems, specialising in climate impacts and vulnerability assessment, climate change adaptation, coral reef monitoring, water quality and impact monitoring, fisheries research, capacity building, and providing practical management recommendations.
Hervé	JOURDAN	herve.jourdan@ird.fr	IRD Noumea (New Caledonia)	- Insular biodiversity - invasive species - terrestrial ecology - insect communities - restoration ecology	Master & Post graduate diploma (DEA) in Ecology and Population Biology and PHD in Tropical ecology on the Ecological impacts of the spread of the invasive ant *Wasmannia auropunctata* in various New Caledonian terrestrial ecosystems. Postdoctoral fellow with the US001 ENBIOPAC, IRD Orléans/Nouméa (Tropical ecology, invasive species) & with *Institut de Recherche Biologie*

					de l'Insecte, Université de Tours (France) (Behavioural ecology, Chemical ecology). Lecturer at the P. Sabatier University Toulouse (France) (Tropical ecology, invasive species); Post-doctoral researcher for Applied Zoology Lab., IRD Noumea (Invasive ants and insect communities' ecology. **Since 2005**, **Research engineer** and **Head** of Applied Zoology Laboratory (IRD, Noumea). *Research focus*: Invasive process; invasive ant ecology, insect communities' ecology, Ant Taxonomy; Molecular phylogeny, evolution of endemism. Numerous field trips in/to the Pacific (New Caledonia, Vanuatu, French Polynesia, Fiji, Wallis and Futuna). More than 30 international scientific publications; 4 chapters in scientific books; scientific editor of one scientific book, 20 communications to international conferences; 3 international expertises on biological invasions in insular ecosystems (IRD/MNHN: New Caledonia, Espiritu Santo, Wallis & Futuna). **RESEARCH DIRECTION and REFEREEING:** 2 PhD. Thesis Co-advisor and Supervision of 17 university students in France (Master II). Regular referee for peer-reviewed International Journals, for national and international grant applications (ANR, Cech Academy of Science), Regular member of PhD Thesis Comities, in France and New Caledonia. Since 2006, Expert with the **Pacific ant Prevention Program** network held and support by the SPC (Secretariat of the Pacific Community) in Suva, Fiji.
Pierre-Yves	LE MEUR	pierre-yves.lemeur@ird.fr	IRD Noumea (New Caledonia)	- Politics - Policy - Natural resources governance - Development - Environment and local knowledge	Anthropologist. He has been working in the field of political and development anthropology for 20 years or so, first in West Africa and for a few years in the Pacific region (mainly New Caledonia) on land and mining issues, natural resource governance, environment and local knowledge. The team comprises two PhD students working on environmental governance in New Caledonia. Main current project: mining governance in New Caledonia (IRD/IAC/UNC/Melbourne University/Rutgers/EHESS-CNRS/CIRAD/ INSERM, funded by CNRT "Nickel and its environment"); local knowledge on biodiversity in the Marquesas Islands (with ADKC/IAC /IRD/CRIOBE; GOPS funding) Future project: Land policy in the Northern Province, NC (funded by French Agency for Development-AFD/Northern Province); local knowledge and biodiversity in Moorea, French Polynesia (funded by the government of Polynesia) He has recently published in *Politique de la terre et de l'appartenance. Droits fonciers et citoyenneté locale dans les sociétés du Sud* (2010, co-

					edited with Jean-Pierre Jacob) and *Anthropologie politique de la gouvernance. Acteurs, ressources, dispositifs* (2011).
James	LEACH	james.leach@abdn.ac.uk	University of Aberdeen (Scotland)	- Knowledge production and ownership	James Leach is Senior Lecturer and Head of the Department of Anthropology at the University of Aberdeen. He has undertaken long-term field research in Madang Province, Papua New Guinea, and in the UK with people utilising new technologies for collaborative knowledge production. His publications include: *Creative Land: Place and Procreation on the Rai Coast of Papua New Guinea* (2003) and *Rationales of Ownership: Transactions and Claims to Ownership in Contemporary Papua New Guinea* (2004).
Porer	NOMBO	c/o James Leach	Mit 1 District Local Government (Papua-New Guinea)	- Ethno-botanic (forest environments - Subsistence regimes, biodiversity and changes affecting these areas)	Porer Nombo is the Local Government representative (Komiti) for the villages of Reite, Sarangama and Marpungae in Mit 1 District on the Rai coast of Papua New Guinea; a position he has held since the early 1980s. He is recognised as a leading local authority on plants, healing and kastom. In 2009 Porer visited the UK at the request of the British Museum to assist the Museum with understanding the history and meaning of their collection from the North Coast of PNG and the future value of these collections to the people of Melanesia. He recently published with James Leach *Reite Plants: An Ethno-botanical Study in Tok Psiin and English* (2010).
Claude	PAYRI	claude.payri@ird.fr	Coral reef biocomplexity team (COREUS), IRD Noumea (New Caledonia)	- Biology and ecology of macrophytes associated to coral reefs. - Diversity magnitude analysis in coral reef macroalgae - Population outbreak and dynamics of macroalgae.	Prof. Claude Payri, Coral reef ecology and algae specialist at the University of French Polynesia since 1989, is seconded to the Noumea IRD research centre since 2004. She is head of a research team dedicated to the biocomplexity of coral reef ecosystem in the Indo-pacific region (www.ird/coreus). She leads a research programme dedicated to the marine flora of the Western Pacific and published various publications related to the taxonomy and the phylogeny of several algal groups. Current research is focused on interaction between macroalgae and corals as part of the ERANET-Netbiome programme. In addition, she led several scientific expeditions in the South Pacific region (Clipperton, Polynesia, Fiji, Wallis, Vanuatu, Solomon and New Caledonia) studying coral reef ecosystem and marine flora.
Morgan	PRATCHETT	morgan.pratchett@jcu.edu.au	ARC, Centre of Excellence for Coral Reef Studies, James Cook University, (Australia)	- Impacts of climate change on coral reef ecosystems - Population outbreaks of crown-of-thorns starfish - Population dynamics of *scleractinian* corals - Ecological versatility in coral reef fishes	Broad interests in population and community ecology of coral reef organisms, especially corals and fishes. Dr Pratchett's current research focuses on major disturbances that impact coral reef ecosystems, with a view to understanding differential responses and vulnerabilities among coral reef organisms. He has written several seminal papers describing direct and indirect effects of coral bleaching and outbreaks of crown-of-thorns starfish, considering impacts on both coral assemblages and associated assemblages of coral reef fishes. He has undertaken

				- Biology and ecology of butterfly fishes (*Chaetodontidae*)	extensive field-based on Australia's Great Barrier Reef, but also in French Polynesia, Fiji, Papua New Guinea and southern Japan.

List of participants to the PACE-Net workshop "Climate change"- 1) Variability and Climate change and their impacts; 2) Water and 3) Energy - in Brisbane, 5-7 July 2011

First name	Last-name	Organisation & Contact	Keywords	Short bio
Stefano	ALMALFITANO	Ital Water Research Institute amalfitano@irsa.cnr.it	- Ecology of the aquatic systems; - Biology of temporary waters; - Effects of climate change on aquatic communities; - Role of aquatic microbes in biogeochemical cycles; - Microbial population dynamics in sediments and waters.	Researcher in Aquatic Ecology at Water Research Institute, CNR (Italy). Studies on aquatic ecosystems under different natural and anthropogenic pressures. Specifically, researches on microbial communities in marine and freshwater systems, in both benthic and water column compartments. Climate change was the main common background of my studies (as regards the crucial role of microbes in the mineralization processes of the organic matter and, thus, in the global carbon cycle).
Gillian	CAMBERS	Pacific Climate Change Science Project (PCCSP) CSIRO gillian.cambers@csiro.au	- Climate change science and adaptation - Coastal zone management - Education for sustainable development	As part of Australia's International Climate Change Adaptation Initiative, the Pacific Climate Change Science Program has been working since 2009 to conduct a comprehensive climate change science research program aimed at providing in-depth information about past, current and future climates in Partner Countries. The PCCSP is a collaborative research partnership between Australian Government agencies (principally the Bureau of Meteorology and the Commonwealth Scientific and Industrial Research Organisation [CSIRO]), East Timor and 14 Pacific Island countries (Cook Islands, Federated States of Micronesia, Fiji, Kiribati, Marshall Islands, Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu), carried out in collaboration with regional and international organisations.
Katherine	DANIELL	Australian National University (Australia) katherine.daniell@anu.edu.au	- Global sustainable development - Water and environmental policy, engineering and management - Sustainability: multi-level governance, strategic planning, risk assessment, evaluation programs - Design and coordination of	Dr Katherine Daniell, *BEng(Civil)(Hons)/BA Adel., PhD (ANU/AgroParisTech, France), MIEAust*, is a Research Fellow in the Australian National University's Centre for Policy Innovation and coordinates Australia's involvement in the PACE-Net EU Project. Katherine has recently worked in Europe and Australia on projects related to water governance, risk management and climate change adaptation. Katherine is a guest editor for a special feature in the journal *Ecology and Society* on "Implementing participatory water

			participatory processes for decision-aiding and conflict management - Leadership, capacity building, education, innovation processes and knowledge management	management: recent advances in theory, practice and evaluation", a compilation of papers that brings together policy, management and research lessons from the European Union's AquaStress and NeWater FP6 Integrated Projects. She also teaches executive development courses for the Australian National Institute for Public Policy (ANIPP) on multi-level governance.
Jan	GREGOR	Institute of Environmental Science and Research jan.gregor@esr.cri.nz	- Drinking-water quality management science and regulatory processes - Public health risk assessment and management for drinking-water supplies, particularly for small, resource-limited communities - Working at the interfaces of science, policy and practice, bridging policy formulation and implementation - Improving stakeholder and community participation in addressing issues related to water management - Contributing consultation and planning expertise to the development and review of Pacific regional water-related frameworks and action plans on wastewater management, sustainable water management, and drinking-water quality and health.	Scientific advice for developing and implementing New Zealand's national drinking-water quality management strategy, contributing to drinking-water standards development, estimating burden of waterborne disease, public health risk management practice for drinking-water supplies and other water quality management tools, and supports the local implementation of the tools. Management of the national drinking-water dataset and associated national reporting. Research on impacts of the environment on human health, particularly in groundwater, fresh and drinking water quality, wastewater and safe bio waste, and the use of integrated social and biophysical research to support decision making in the environmental and public health sector.
Karen	McNAMARA	PAC Centre for Environment & Sustainable Development USP Fiji Pacific Centre for Environment & Sustainable Development mcnamara_k@usp.ac.fj	- Community-based climate change adaptation (including traditional knowledge) - Population displacement due to environmental change - Disaster risk reduction and management (including traditional knowledge) - Development, gender and	PACE-SD (Pacific Centre for Environment and Sustainable Development) endeavours to promote integrated research of regional relevance and international standard in the area of environment and sustainable development. The major goal of its research is to promote targeted and integrated work on environment and natural resource issues with a view to promoting sustainable development. Staff at PACE-SD has expertise in community-based work, agro-forestry, oceanography, food security, environmental education and ESD, sustainable livelihoods, fisheries and climate modelling. Moreover, PACE-SD provides teaching and

			sustainable livelihood studies - Participatory action research methodologies	training initiatives. In terms of formal training, PACE-SD staff teach subjects including: 'climate change impacts, vulnerability and adaptation', 'climate science' and 'disasters risk assessment and management'.
Alexandre	GANACHAUD	IRD (LEGOS/CLIVAR) Noumea alexandre.ganachaud@ird.fr	- Ocean role in the climate system - Impact of climate variability and climate change on the Ocean - Large and regional scale oceanic circulation of the Southwest Pacific - Ocean transports of heat, salt, oxygen and nutrients - Island effects and jets	Physical oceanography in Noumea started in 1956, with a peak of activity in 90's with the establishment of the network that monitors ocean conditions in the tropical Pacific (TOGA network for understanding and predicting El Nino). The team reinforced its activities in 2005 with the creation of an international experiment on the ocean and its influence on the climate of the Pacific Southwest, SPICE (http://www.clivar.org/organization/pacific/pacific_SPICE.php). Activities include intensive measurements and modelling the Coral Sea and Solomon Sea, as well as specific studies of the South Pacific Convergence Zone and cyclone activity in the context of climate change.
Christophe	MENKES	IRD Oceanography and climatology christophe.menkes@ird.fr	- Ocean dynamics and atmosphere - Top predators and environment - Climate Impacts on vector borne diseases - Cyclones	Studies of climate variability and climate change impacts onto cyclones in the South west Pacific mostly using ocean/atmosphere modelling. Modelling of climate impact onto vector borne diseases such as Dengue fever. Modelling the interaction between the ocean dynamics, its biochemistry and top predators such as Tuna in the south west Pacific.
Bernard	PELLETIER	South Pacific integrated observatory for environment and terrestrial and marine biodiversity (GOPS) bernard.pelletier@ird.fr	- Geology - Natural hazards - Vertical motion of lands - Sea level variation - Tsunami	Structure and evolution of active margins, island arcs and back-a basins, tectonics, active faulting, swath mapping, seismic and tsunan hazards, sea level variation. Numerous campaigns at sea aboard national and internationa research vessels. Multi-beam bathymetry, seismic, magnetics, gravit dredging, submersible dive and deep sea drilling. Southwest Pacific (Tonga-Kermadec and Vanuatu margins, North Fiji and Lau-Havre basins, Wallis and Futuna and New Caledonia EEZs)
Lionel	LOUBERSAC	IFREMER (Research institute for the exploitation of the sea) lionel.loubersac@ifremer.fr	- Coastal Environment - Tools and Information Systems for coastal zone management - Marine aquaculture - Marine Biodiversity - Marine protected Areas	Present expertise of Ifremer research unit in New-Caledonia: develops and supports the shrimp industry; research works in animal husbandry, eco-physiology, pathology, nutrition & understanding of farm and ponds ecosystems functioning. New themes: valorisation of marine micro-organisms, inventory of marine halophytes, management of coastal ecosystems and marine protected areas, setting up of new technologies for marine observation, development of methods and tools to support coastal zone management Own expertise: Remote sensing, Coastal management and

				development of information and communication systems on environment and water quality at national level.
Gerd	RUECKER	International Bureau of the Federal Ministry of Education and Research at the Project Management Agency c/o German Aerospace Centre (DLR) gerd.ruecker@dlr.de	- Identification of key science focal areas for supporting coordinated collaboration between researchers from the EU and the Pacific. - Identification of qualified high-level officials from the public, private and political sector for participation in the second bi-regional Platform in Brussels in 2012. - Identification and discussion of the strength of research in the Pacific region. - Information about the priorities of the EC in the Pacific. - Information about Pacific and European networks and potential funding instruments	Dr. Gerd Rücker joined the International Bureau of BMBF as Senior Scientific Officer in 2011. In this position he was responsible for stimulating bilateral co-operation with India and other countries in South-Asia. He also has experience with EU projects and has been involved in INCO-Nets and ACCESS projects and coordinates collaboration projects of German universities with universities in the Asia-Pacific Research Area on establishment of research structures. From 2002 until 2011 he worked as a Post-doc, senior researcher and project coordinator in the field of remote sensing, GIS and spatial analysis of environmental issues at DLR´s Research Centre in Oberpfaffenhofen, Germany. He holds a PhD in Geography from the University of Bonn and studied also meteorology and soil science.
Emma	McDonald	Ministry of Research, Science and Technology Emma.MacDonald@msi.govt.nz		
Kalara	McGREGOR	Earth Systems kalara.mcgregor@earthsystems.com.au	- Land use planning and design - Agro forestry/food systems - Entrepreneurship and development	Earth Systems is a multi disciplinary environmental consultancy firm that provides specialist environmental services to the environmental and energy sectors in the Asia Pacific region. Earth Systems specific areas of expertise are environmental /social impact assessment, climate risk assessment and management, water quality monitoring, assessment and treatment, and specialist advice and hands-on capabilities in energy efficiency initiatives, energy generation, waste-to-energy technologies and energy auditing.
Atul	RATURI	School of Engineering & Physics, USP raturi_a@usp.ac.fj	- Renewable energy ACP - Renewable Energy systems development (solar, hybrid) - Solar cells fabrication and performance - Carbon trading	Ph.D. in materials science and have worked at universities in India, Kenya, PNG and Fiji. My current research is on dye-sensitised solar cells, techno-economic analysis of PV/hybrid systems. We use locally available plant dyes as the sensitising material to fabricate PV devices. We are also interested in studying the behaviour of standalone solar PV and hybrid systems under local conditions and

			- Efficient lighting for rural folks	help develop guidelines for remote area applications.
Eddie Taitosaua	WINTERSTEIN	SROS (Scientific research organisation of Samoa) eddie.winterstein@sros.org.ws	- Renewable Energy - Environment - Hydrology - Meteorology - Seismology/Geophysics (to a lesser extent)	In charge of the Environment and Renewable Energy Division of SROS. Our mission statement aims to conduct scientific research and develop technologies which outcomes are of great value in the development and sustainability of value added goods and services for export and to achieve reduction on fuel imports and greenhouse gas emissions. ERE research area - locally available sources of renewable energy which can be exploited for fuel production in the transportation sector and electricity production in the power generation sector. Initial area of research work is bio-fuel but will be extended to other identified alternative sources like geothermal, ocean thermal, tidal movement/wave action and wind in the future.