



**INTERNATIONAL FOOD POLICY
RESEARCH INSTITUTE**
sustainable solutions for ending hunger and poverty
Supported by the CGIAR

2033 K Street, NW
Washington, DC 20006-1002 USA
Tel: +1.202.862.5600
Fax: +1.202.467.4439
Email: ifpri@cgiar.org
www.ifpri.org

Climate Change and Food Security: Adaptation Mechanisms and Policy Recommendations for Sound Economic Livelihood of the Pacific Islanders

Brief Project Description

With support from the Pacific Department (PARD), Asian Development Bank (ADB), the International Food Policy Research Institute (IFPRI) undertook and submitted a research study on “Climate Change and Food Security: Adaptation Mechanisms and Policy Recommendations for Sound Economic Livelihood of Pacific Islanders” under the *RETA 7394 on Capacity Strengthening of the Pacific Island Developing Member Countries in Responding to Climate Change*. The study covers three countries, Fiji Islands, Papua New Guinea, and Solomon Islands.

This research has three objectives:

1. To assess the impacts of climate change on food security, availability, and accessibility, and how this influences the livelihood of Pacific Island communities;
2. To determine the potential adaptation mechanisms and coping strategies that will ensure food security and enhance livelihoods for the rural communities; and
3. To recommend policy options for agriculture, fisheries, and food security that will strengthen the support from national governments, and the technical and financial assistance from regional and international organizations for rural communities facing climate change.

Five main activities were carried out to achieve these objectives: 1) capacity strengthening; 2) data collection; 3) development of scenarios and modeling of impacts; 4) a description of risks and vulnerabilities; and 5) identification of potential adaptation mechanisms and coping strategies. Additionally, a final regional workshop will be conducted to present and disseminate the study's results.

This research study has two key outputs:

1. A *Technical report* describing the current economic status of and the potential effects of climate change on agriculture and fisheries production, risk assessment and vulnerability, and adaptation strategies that will complement national plans on climate change, and policy recommendations to the three key countries of Pacific Islands; and a
2. A *Policy brief* describing the impacts of climate change on food security in three countries, as well as potential adaptation projects to address food security issues and policy recommendations to tackle food security threats arising from climate change.

The Final Regional Workshop

Research for the study on “Climate Change and Food Security: Adaptation Mechanisms and Policy Recommendations for Sound Livelihood of Pacific Islanders” has been completed the final report is being written. IFPRI, in collaboration with national research institutions, carried out case studies in Fiji Islands, Papua New Guinea and Solomon Islands. These case studies describe the recent findings on climate change and agricultural development, including fisheries at the country and local levels. Country-level findings are critical inputs in characterizing sub-regional differences on climatic conditions and agricultural and fisheries production that were incorporated in the comprehensive technical report. These three countries were chosen based on the importance of their agricultural, fisheries, and economic growth within the Pacific Islands region; they represent a range of likely outcomes with respect to climate change and agriculture, including fisheries.

The culminating activity of this research is to present the findings of the case studies, modeling, and the regional research to representatives of national research institutions, academe, non-government organizations, regional and international organizations, donor agencies and other stakeholders. Hence a final regional workshop will be conducted to present and disseminate the study’s results focusing on the current and potential adaptation mechanisms, mitigation strategies and policy recommendations that can be considered by the concerned national decisionmakers and policy analysts in the Pacific Islands.

Objectives:

1. To provide a brief introduction about the research study;
2. To present the key findings from the case studies in Fiji Islands, Papua New Guinea and Solomon Islands, and the overall research study;
3. To exchange information through working group discussions and present a consolidated approach in tackling climate change issues as these impact agriculture and fisheries sectors of the three countries; and
4. To solicit feedback from the policymakers and donor agencies regarding the potential solutions/actions to address climate change issues from working group discussions.

Participants

Key experts on climate change, agriculture, fisheries and related topics from the national research institutions, universities, non-government organizations, regional and international research organizations, donor agencies and other stakeholders are invited to participate in this workshop.

Anticipated Outputs

- A compilation of PowerPoint presentations from key experts and working groups
- A compilation of discussion notes from the Working Groups
- A compilation of policy agenda that addresses climate change, agriculture and fisheries feasible for implementation by the national governments
- A synthesis of climate change researchable issues on agriculture and fisheries developed in cooperation with the national governments and other interested parties, viable to the financial agencies.

Draft Agenda

Thursday, November 10

8:00 am Registration

Lorena Danessi, EPTD, IFPRI

Bing Valmonte-Santos, EPTD, IFPRI

Session 1. Opening Session and Overview

Moderator: Bing Valmonte-Santos, IFPRI

9:00 Welcome and Overview of the
Workshop

Mark Rosegrant

Division Director, EPTD, IFPRI

Opening Remarks

Ropate Ligairi

Director Extension Services

Ministry of Agriculture and Primary
Industries, Fiji Islands

Marc Overmars

Climate Change Specialist

Asian Development Bank-South Pacific
Subregional Office (ADB-SPSO)
Fiji Islands

Introduction of Participants

By country

10:00 *Photo session and Coffee break*

Session 2. Climate Change, Agriculture, Fisheries and Food Security in Pacific Islands

Moderator: Cenon Padolina, Forest Genetic Resources Officer, SPC

10:30 Climate Change and Food Security:
The Global Context

Mark Rosegrant, IFPRI

11:00 Climate Change, Agriculture and
Fisheries in the Pacific Islands:
Summary of Key Findings

Bing Valmonte-Santos

Senior Research Analyst, IFPRI

11:30 Country report: Fiji Islands

Vilikesa Masibalavu

Consultant, Conservation International

12:00 pm *Lunch break*

1:30 Country report: Papua New Guinea

Mark Ero

Assistant Professor, University of Natural
Resources and Environment

Varigini Badira

Director, Office of the Climate Change

2:00 Country report: Solomon Islands

Tia Masolo

Deputy Director

Department of Environment, Ministry of
Environment, Climate Change, Disaster
Management and Meteorology
(MECDM)

Hudson Kauhiona

Deputy Director

Office of the Climate Change, MECDM

2:30 Q & A

3:00 *Coffee break*

Session 3. Impacts of Climate Change on Agriculture: Modeling and Projections

Moderator: Gabor Vereczi, Regional Technical Advisor, UNDP

3:30	Results and implications from crop modeling of climate change impacts	<i>Timothy Thomas</i> Research Fellow, IFPRI
4:00	Economic modeling of climate change impacts	<i>Mark Rosegrant, IFPRI</i>
4:30	Q & A	
	<i>End of the Session</i>	
	<i>Cocktails and Welcome Dinner</i>	

Friday, November 11

Session 4. Policy Agenda Within and Across Countries

Moderator: Ryan Medrana, First Secretary, AusAID

9:00	Climate Change and Food Security: Key Messages and Policy Conclusions	<i>Mark Rosegrant, IFPRI</i>
9:30	Introduction of the Working Group Discussions <ol style="list-style-type: none">1. Data management, institutional set-up and coordination on climate change related activities on agriculture and fisheries2. Policy development on agriculture, fisheries and climate change3. Future agenda for research on climate change for agriculture and fisheries	<i>Bing Valmonte-Santos, IFPRI</i>
9:45	Start of Working Group Discussions	
10:45	<i>Coffee break</i>	
11:00	Resume – Working Group Discussions	
1:00 pm	<i>Lunch break</i>	

Session 4. Presentations of the Working Group Discussions

Moderator: Marita Manley, Technical Adviser, Climate Change, SPC/GIZ

2:00	Working Group 1. Data management, institutional set-up and coordination on climate change related activities
2:15	Working Group 2. Policy development on agriculture, fisheries and climate change
2:30	Working Group 3. Future agenda for research on climate change for agriculture and fisheries
2:45	Open Forum

Session 5. Next Steps and Closing

Moderator: Bing Valmonte-Santos, IFPRI

3:15 Summary of the Workshop

3:30 Feedback

4:00 Closing Remarks

Mark Rosegrant, IFPRI

Participants

Adrian Ruthenberg

Regional Director

ADB-SPSO, Fiji Islands

Mark Rosegrant, IFPRI

4:30 *Coffee break/High tea*

End of Workshop

Terms of Reference, Working Group Discussions

The Leader acts as the Chair and will facilitate the discussion. Flip charts and markers will be available to record the discussions. For the plenary session, it will be useful to synthesize the main points and conclusions from the discussion in an electronic presentation.

Suggested points for discussion for Working Group 1. Data Management

- Identify parameters on weather, agriculture and fisheries sectors in terms of availability, accessibility - time series data; sub-national information; national information
- Identify institutions responsible for collection and management of weather data, and information on agriculture and fisheries sectors
- Identify key person in each Institution to be contacted on data accessibility
- Identify role of international, regional and national agencies in terms of data collection, compilation and documentation
- Any other issues

Expected Outputs for Presentation

- Set of identified parameters on weather, agriculture and fisheries sectors with information on availability and accessibility – time series; sub-national; national information
- Institutions and key contact persons on weather, agriculture and fisheries data Role of international, regional and national agencies in terms of data collection, compilation and documentation
- Any other issues

Suggested points for discussion for Working Group 2. Policy Development

- Review the current agricultural and fisheries policies
- Review the current national policies on climate change and how these impact the agriculture and fisheries sectors
- Assess if the above policies benefit the smallholders and poor communities of the country in terms of accessibility, feasibility, etc.
- Assess the implementation of the above policies
- Provide possible solutions/recommendations/policies to ensure benefits reach the smallholder farmers and fishers
- Identify responsible Institutions in terms of implementation and monitoring
- Any other issues

Expected Outputs for Presentation

- Set of national policies on climate change affecting the agriculture and fisheries sectors
- Brief assessment of each policy on how this benefits the smallholders and poor communities of the country
- Brief assessment on implementation of each policy (e.g. adequate budget allocation, hindrances to implementation)
- Set of possible solutions/recommendations/policies to ensure benefits reach the smallholders, farmers and fishers groups
- Identify implementation schemes of these national policies
- Any other issues

Suggested points for discussion for Working Group 3. Future Research Agenda

- Identify possible researchable issues for agriculture and fisheries sectors that will address the needs of the poor, women and other vulnerable groups that need to be implemented within the next 3 years
- Identify possible additional researchable issues on climate change as this relate to agriculture and fisheries sectors bearing in mind that worst impacts of climate change will affect the poor, women and vulnerable group within the next 5 years;
- Identify three critical researchable topics that can be developed and submitted to donor agencies within the next year
- Any other issues

Expected Outputs for Presentation

- Future research agenda on climate change, agriculture and fisheries
- Prioritized researchable topics on climate change, agriculture and fisheries
- Any other issues

Logistical Information

Hotel and Meeting Venue

The Workshop will be held at the Novotel Lami, Suva, Fiji. Novotel Lami address is provided below:

Novotel Lami
Queens Road, Lami Bay
Suva, Fiji
Tel (+679) 336-2450

Registration will start at 8:00 AM on Thursday, November 10 and the Workshop will start at 9:00 AM. The concluding session is scheduled for 5:00 PM on Friday, November 11.

For the workshop sponsored participants, charges for your room and taxes will be placed on a master bill to be paid directly by the organizers while attending the workshop. You will be responsible for incidental expenses such as phone, fax, and laundry, as well as liquor. These charges will be placed on your individual account that we would appreciate your paying directly to the hotel upon checkout.

For self-funded participants, please contact Lorena Danessi (l.danessi@cgiar.org) if you need to make hotel reservations. She will send you a credit card authorization form. Please fill up the form and fax it directly to the Hotel to confirm your reservation.

Meals

Lunch and coffee/tea breaks will be provided on these two days of the Workshop.

Cocktails and Welcome Dinner

Welcome dinner hosted by IFPRI will be held on Thursday, November 10 at 5:30 pm

Per Diems / Reimbursement of Travel Expenses

(Only applicable to participants sponsored by IFPRI)

Please bring your original receipts for reimbursement of taxis from/to airport and visa expenses if applicable. Participants will receive \$50.00/day per diem.

Airport Transfers

Transportation will be provided by the hotel for airport pick up and drop off in accordance with the participant's travel itinerary. Charges for airport transfer for sponsored participants will be paid by IFPRI, but self-funded participants need to pay this charge upon checkout. To notify the hotel, all participants are requested to send their flight details/travel schedule to Lorena Danessi (l.danessi@cgiar.org) as soon as possible.

Insurance

Please be advised that IFPRI is not in any way responsible for your life, accident, medical or dental insurance, or for any other kind of insurance.

List of Participants

NATIONAL PARTERS

Fiji Islands

Onassis Dame
Pacific Islands Forum Secretariat (PIFS)
Ratu Sukuna Road
Muankau
Suva
Fiji Islands
Email: OnassisD@forumsec.org.fj

Joje Davetanivalu
Director, Department of Environment
Ministry of Local Government, Urban Development,
Housing & Environment
90 PD Patel Bldg, Raojibhai Patel Street
Suva
Fiji Islands
Email: jdavetanivalu@govnet.gov.fj /
davetanivalu@gmail.com

Kamlesh Lakhan
Principal Agricultural Officer (Projects & Budget)
Economic Planning & Statistics Division
Ministry of Agriculture and Primary Industries
Robinson Complex
Private Mail Bag, Raiwaqa
Suva
Fiji Islands
Email: kamaleshp.lakhan@agriculture.gov.fj

Ropate Ligairi
Director Extension Services
Ministry of Agriculture and Primary Industries
Robinson Complex,
Private Mail Bag, Raiwaqa
Suva
Fiji Islands
Email: ropate.ligairi@agriculture.gov.fj

Sainaila Naqali
Director
Fisheries Department
Ministry of Fisheries and Forest
Suva
Fiji Islands
Email: naqali@hotmail.com

Viliame Naupoto
Permanent Secretary
Ministry of Fisheries and Forest
Suva
Fiji Islands
Email: viliame.naupoto@gmail.com

Miliakere R. Nawaikula
Principal Research Officer
Ministry of Agriculture
Korouivia Research Station
PO Box 77
Nausori
Fiji Islands
Email: miliakere.nawaikula@agriculture.gov.fj

Cenon Padolina
Regional Forest Genetic Resources Officer
Forests & Trees Programme
Land Resources Division
SPC - Secretariat of the Pacific Community
Private Mail Bag, Suva
Fiji Islands
Email: cenonp@spc.int

Sukulu Rupeni
Capacity Development and Facilitation Specialist
Suva
Fiji Islands
Email: rupeni_s@yahoo.com

KL Sharma
Associate Professor
Dean, School of Business and Economics
The University of Fiji
Private Mail Bag
Lautoka
Fiji Islands
Email: klsharma@unifiji.ac.fj

Deveraux Talagi
Pacific Islands Forum Secretariat (PIFS)
Ratu Sukuna Road
Muankau
Suva
Fiji Islands
Email: deverauxt@forumsec.org.fj

Suliasi Tawake
Manager, Biosecurity
Ministry of Agriculture and Primary Industries
Robinson Complex
Grantham Road, Raiwaqa
Suva
Fiji Islands
Email: suliasi.tawake@agriculture.gov.fj

Manoa Tupou
Pacific Islands Forum Secretariat (PIFS)
Ratu Sukuna Road
Muankau
Suva
Fiji Islands
Email: ManoaT@forumsec.org.fj

Kyaw Win
Principal Engineer (Drainage & Irrigation)
Land & Water Resource Management Division
Ministry of Agriculture and Primary Industries
Robinson Complex
Private Mail Bag, Raiwaqa
Suva
Fiji Islands
Email: kwin@agriculture.gov.fj

Papua New Guinea

Varigini Badira
Director, Adaptation
Office of Climate Change and Development
PO Box 6601
Boroko National Capital District
Papua New Guinea
Email: varigini_badira@planning.gov.pg

Mark Ero
Papua New Guinea University of Natural
Resources and Environment (UNRE)
Private Mail Bag
Kokopo
East New Britain Province
Papua New Guinea
Email: mero@unre.ac.pg

Wari Iamo
Secretary
Department of Environment and Conservation
P.O. Box 6601, Boroko
Port Moresby
Papua New Guinea
Email: wiamo@dec.gov.pg

Luanne Losi
Policy Analyst- Adaptation
Office of Climate Change and Development
PO Box 6601
Boroko National Capital District
Papua New Guinea
Email: lulan2431@hotmail.com

Bolton Towok
Industry Development Coordinator
National Fisheries Authority
PO Box 2016
Port Moresby National Capital District
Papua New Guinea
Email: btowok@fisheries.gov.pg

Solomon Islands

John Harunari
Permanent Secretary
Ministry of Agriculture and Livestock
Government of Solomon Islands
Honiara
Solomon Islands
Email: harunari@solomon.com.sb

Chanel Iroi
Under Secretary/Technical
Ministry of Environment, Conservation and
Meteorology (MECDM)
PO Box 21
Honiara
Email: c.iroi@met.gov.sb

Hudson Kauhiona
Deputy Director
Climate Change Division
Ministry of Environment, Conservation and
Meteorology (MECDM)
Honiara
PO Box 21
Solomon Islands
Email: hkhiona@yahoo.com

Tia Masolo
Deputy Director, Environment & Conservation Division
Ministry of Environment, Conservation and
Meteorology (MECDM)
PO Box 21
Honiara
Solomon Islands
Email: t.masolo2011@gmail.com

James Teri
Director of Fisheries (Ag)
Ministry of Fisheries and Resources
Government of Solomon Islands
Honiara
Solomon Islands
Email: JTeri@fisheries.gov.sb

REGIONAL ORGANIZATIONS

Marita Manley
Technical Adviser, Climate Change
SPC/GTZ
Adaptation to Climate Change, Pacific Island Region
PO Box 14041
Suva
Fiji Islands
Email: marita.manley@giz.de

Vilikesa Tabutabu Masibalavu
Conservation International
Lot 17, Painapiu Road
Nakasi, Nausori
Fiji
Email: v.masibalavu@conservation.org

Bernard O'Callaghan
Oceania Programme Coordinator
IUCN Regional Office for Oceania
Private Mail Bag
5 Ma'afu Street
Suva
Fiji Islands
Email: bernard.ocallaghan@iucn.org

Espen Ronneberg
Climate Change Adviser
Secretariat of the Pacific Regional Environment
Programme
PO Box 240
Apia
Samoa
Email: espenr@sprep.org / eronneberg@gmail.com

Etika Rupeni
Pacific Islands Roundtable for
Nature Conservation Consultant
IUCN Regional Office for Oceania
Private Mail Bag
5 Ma'afu Street
Suva
Fiji Islands
Email: Etika.RUPENI@iucn.org /

Susana Waqainabete-Tuisese
Director, Fiji Country Program
Conservation International
3 Ma'afu St.
Suva
Fiji Islands
Email: s.waqainabete-tuisese@conservation.org

ACADEMIA

Professor Paras Nath
Dean
College of Agriculture, Fisheries and Forestry,
Fiji National University
Koronivia, Nausori
Fiji Islands
Email: paras.nath@fnu.ac.fj

DONOR AGENCIES

Ryan Medrana
First Secretary
AusAID
PO Box 214
Suva
Fiji Islands
Email: ryan.medrana@ausaid.gov.au

Allan T. Oliver
Operations Officer
Rural Development, Natural Resources & Environment
The World Bank
Level 13, Deloitte Tower
Port Moresby, NCD
Papua New Guinea
Email: aoliver1@worldbank.org

Marc Overmars
Climate Change Specialist
South Pacific Subregional Office (SPSO)
Asian Development Bank (ADB)
91 Gordon Street
Suva
Fiji Islands
Email: movermars.consultant@adb.org

Adrian Ruthenberg
Regional Director
South Pacific Subregional Office
Asian Development Bank (ADB)
Suva
Fiji Islands
Email: aruthenberg@adb.org

Gabor Vereczi
Regional Technical Advisor
Low Emission Climate Resilient Development
UN Service Building
Rajdamnern Nok Avenue
Bangkok
Thailand
Email: gabor.vereczi@undp.org

IFPRI

Mark Rosegrant
Director
Environment and Production Technology Division
International Food Policy Research Institute
2033 K Street NW
Washington, DC 20006
USA
Email: m.rosegrant@cgiar.org

Timothy S. Thomas
Research Fellow
Environment and Production Technology Division
International Food Policy Research Institute
2033 K Street NW
Washington, DC 20006
USA
Email: t.s.thomas@cgiar.org

Rowena (Bing) Valmonte-Santos
Senior Research Analyst
Environment and Production Technology Division
International Food Policy Research Institute
2033 K Street NW
Washington, DC 20006
USA
Email: r.valmonte-santos@cgiar.org

Lorena Danessi
Administrative Coordinator
Environment and Production Technology Division
International Food Policy Research Institute
2033 K Street NW
Washington, DC 20006
USA
Email: l.danessi@cgiar.org