



# CBCRP-PCCC Training Course

## GENERAL INFORMATION ON

**“Climate Change Adaptation and Disaster Risk Reduction  
- adaptation options of land use management, physical  
structures and human mobility -**

**20 April – 1 May 2020**

This information pertains to the aforementioned PCCC training, which will be implemented as part of the project for Capacity Building on Climate Resilience in the Pacific at the Pacific Climate Change Centre (CBCRP-PCCC) based on bilateral agreement between the Government of Japan and the Government of the Independent State of Samoa in cooperation with the Secretariat of the Pacific Regional Environment Programme (SPREP).

### PCCC:

The Pacific Climate Change Centre (PCCC) was pledged by the Government of Japan at the Seventh Pacific Islands Leaders Meeting (PALM 7) in 2015 to respond to a number of needs in climate change in the region. With its strategy and business plan, the PCCC will deliver four mutually reinforcing functions: knowledge brokerage; applied research; capacity building through training and learning; and supporting innovation.

### CBCRP-PCCC:

The Project for Capacity Building on Climate Resilience in the Pacific (CBCRP-PCCC) by SPREP, the Government of Samoa and Japan International Cooperation Agency (JICA) aims to support operationalization of the training function of the PCCC as stated in the strategy and business plan for the PCCC. The project will play an important part of the PCCC training and learning function to contribute to the expected outcomes of the business plan.

# ***I. Concept***

## **Background**

The Paris Agreement's (PA) main aim is to strengthen global response to the threat of climate change by maintaining global temperatures well below two degree Celsius above pre-industrial levels and to pursue efforts to limit temperature increase to 1.5-degree Celsius. Its implementation will commence in 2020, with a number of milestones already agreed, however for some articles details are yet to be completed. The National Adaptation Plan (NAP) development and implementation, which is an integral aspect of the PA, is being strengthened, and integrated approaches of climate change adaptation and disaster risk reduction is further enhanced.

The Intergovernmental Panel on Climate Change (IPCC) reports on 1.5 degree, land, and ocean have been published, and larger risks are expected for many regions and systems. Projected increases in tropical cyclone intensity and precipitation combined with relative sea level rise will exacerbate extreme sea level events and coastal hazards.

Enhanced capacities of Pacific island countries on climate change science, risk and vulnerability assessment, and climate change adaptation (CCA) and disaster risk reduction (DRR) actions are expected to reduce barriers for implementing responses to projected impacts.

Climate change adaptation and disaster risk reduction actions address wide range of vulnerabilities of community well-being, economic sectors and ecosystem. Based on the existing projects and programs in the Pacific as well as planned future training programs under this Project for Capacity Building on Climate Resilience in the Pacific (CBCRP-PCCC), this training focuses on land use management (e.g. zoning, land use regulation) and physical structures (e.g. building codes, engineered structures, retrofitting, levee, flood wall) to reduce disaster risks and strengthen climate resilience. The course will also include a lecture and exercise on human mobility as mid- and long-term actions.

## **Purpose of the Training**

This second training under the CBCRP-PCCC aims to address the following:

- Strengthen participants' capability to contribute to the national adaptation planning process, NAP development and implementation focusing on reducing risks through adaptation and risk reduction interventions.

- Enhance understanding of future climate projections, assessment of climate risk and vulnerability of conventional structures, climate adaptation and disaster risk reduction activities, as well as NAP development and implementation processes.
- Focus on land use management and physical structures for above vulnerability and risk assessment and climate adaptation and disaster risk reduction activities.
- Deliver hands-on training using real life country examples to assessing risk, designing adaptation and mitigation measures and implementation of interventions.

## ***II. Description***

### **1. Title:**

Climate Change Adaptation and Disaster Risk Reduction - adaptation options of land use management, physical structures and human mobility

### **2. Course Period in the PCCC**

20 April – 1 May, 2020

### **3. Target Countries**

JICA will fund two participants from each country: Cook Islands, Federated States of Micronesia, Fiji, Kiribati, Marshall Islands, Nauru, Niue, Palau, Papua New Guinea, Samoa, Solomon Islands, Tonga, Tuvalu and Vanuatu.

If a country would like to send more than two trainees, we will welcome the additional trainees at their own cost.

The following territories are invited at their own cost: American Samoa, Commonwealth of Northern Mariana Islands, French Polynesia, Guam, New Caledonia, Tokelau and Wallis and Futuna.

### **4. Eligible / Target Participants**

The training targets the officials and practitioners of governments and non-government institutions including private sector who are working and need to develop capacity on disaster risk reduction and climate change adaptation in the Pacific Islands Countries and Territories (PICTs).

To enhance coordination and collaboration towards national adaptation planning processes and development and implementation of their NAPs, it would be recommended that the nomination could include: one officer/practitioner from the unit working on land use management and/or physical structures; and one officer/practitioner from climate change unit.

It is also requested that the nomination is gender balanced where possible.

The participants are required to meet the participation criteria and conditions (see section III 2).

**5. Language to be used in this program:**

English (No English-French translation)

**6. Course Objective:**

The training envisages that the participants should be able to: understand updated climate projections; demonstrate steps, data and information to conduct climate risk and vulnerability assessment; understand vulnerability assessment; and present adaptation options of land management, physical structures and human mobility to reduce disaster risk and strengthen climate resilience.

The participants, who attends all session and completes all tasks of activities, will receive the certification of completion.

**7. Overall Goal:**

The CBCRP-PCCC training courses will enhance capacities on climate resilience in the Pacific region.

**8. Expected Module Output and Contents:**

This program consists of the following component:

**(1) Preliminary phase in a participant' home country**

Selected participants must collaborate and produce a preparatory report and a presentation material for each country or territory (see section III.4) for a session on sharing experiences among the participants. The national preparatory report and presentation materials must be submitted by **31 March 2020**.

The following are suggested readings as part of the preparatory work

- Read the NAP technical guidelines prepared by LDC Expert Group.
- Read the documents on the Integrated Vulnerability Assessment (IVA) and the Ecosystem and Socio-Economic Resilience Analysis and Mapping (ESRAM)

**(2) Expected module output contents of the training program**

Expected Module Output	Subjects/Agendas	Methodology
Week 1: National experiences shared among the participants		
Demonstrate knowledge of the policies and its	<ul style="list-style-type: none"> <li>● State the national policies on climate change and disaster risk reduction, especially on adaptation actions of land use management,</li> </ul>	Presentation and Discussion

implementation	physical structures and human mobility, and their implementation statuses in the PICTs	
	<ul style="list-style-type: none"> <li>● Status of the NAP development and implementation process/steps</li> <li>● Based on the current status of NAPs in PICTs, identify challenges and opportunities of national adaptation planning process and NAP development and implementation</li> </ul>	Lecture and exercise
Week 1: Climate science, risk and vulnerability assessment		
Demonstrate knowledge of climate science	<ul style="list-style-type: none"> <li>● Basics of climate and weather.</li> <li>● Climate change including extreme events and chronic variations.</li> <li>● Past to current observed climate changes in the world and the PICTs.</li> </ul>	Lecture and exercise
Present future projections of climate change	<ul style="list-style-type: none"> <li>● Basics of climate projection (and weather forecasting).</li> <li>● Methodology of climate projection, e.g. global climate model, regional climate model, downscaling.</li> <li>● Access to databases of climate model outputs.</li> <li>● Identify limitation and gaps in presenting future projections.</li> <li>● Identify opportunities to improve future projections.</li> </ul>	Lecture and exercise
State climate risk and vulnerability assessment	<ul style="list-style-type: none"> <li>● Past to current impacts of climate changes to the world and the PICTs.</li> <li>● Non-climate threats/drivers</li> <li>● Basic knowledge on methodologies of climate change risk and vulnerability assessments: tools may include IVA and ESRAM</li> <li>● Legal provisions, institutions, data and information management and other arrangements (or requirements) for risk and vulnerability assessment</li> <li>● Risk and vulnerability assessment of land and physical structures/assets.</li> </ul>	Lecture and exercise
Week 2: Priority activities		
Demonstrate knowledge of adaptation options	<ul style="list-style-type: none"> <li>● Climate change adaptation and DRR options . The following measures for disaster risk reductions will be demonstrated in this training: <ul style="list-style-type: none"> <li>a) Land use management: zoning through analysis of detailed topographic, bathymetric and hydrological data on GIS</li> <li>b) Physical structures: b-1) building code, construction methods/techniques, retrofitting techniques of existing buildings and infrastructures; b-2) drainage, revetments/levees, reservoirs, flood walls, ocean wave barriers and rehabilitation of those physical structures..</li> </ul> </li> </ul>	Lecture and exercise

	<p>c) Human mobility: clarification of the terminologies of migration, displacement and relocation in the context of climate change; planned relocation.</p> <ul style="list-style-type: none"> <li>- Their technical and engineering principles and standards, effectiveness, costs, operation and maintenance, monitoring and evaluation, and other relevant knowledge will be included.</li> <li>- The following topics will be briefly introduced: ecosystem-based adaptation/solutions; and low-carbon and climate-proof utilities.</li> </ul>	
Review adaptation options and clarify barriers and solutions	<ul style="list-style-type: none"> <li>● Methodologies and steps to evaluate and prioritize options.</li> <li>● Evaluate and identify priority activities to address climate risk and vulnerability.</li> <li>● Clarify barriers to formulate, implement, operationalize and maintain adaptation options.</li> <li>● Clarify solutions to the above barriers including securing budget.</li> <li>● Identify relevant stakeholders, methodologies and steps to formulate, implement adaptation options.</li> </ul>	Lecture and Exercise
Documentation of the prioritized options	<ul style="list-style-type: none"> <li>● Develop a list of options to adapt and reduce risk for the NAP and their detailed activities for implementation.</li> <li>● Identify stakeholders' role to formulate, implement, operationalize and maintain those options.</li> </ul>	Exercise

### ***III. Procedures for Nomination***

#### **1. Expected role of the Participants:**

- (1) This course is designed primarily for national ministries/departments or non-state actors that involved in land use management and physical structures to enhance climate resilience. Participants are expected to use the tools and methodologies provided through the course for their current projects or future activities to enhance climate resilience of disaster risk reduction.
- (2) This program is enriched with contents and facilitation schemes developed in collaboration with relevant prominent organizations in the Pacific and Japan. The module is expected to enable participants to identify challenges and opportunities towards solutions for climate related issues and problems.
- (3) As this course is designed for participants to become enable to produce and prepare evidence for decision-making, participating organizations are expected

to make due preparation before dispatching their trainees by carrying out the activities of the Preliminary Phase described in the following section III-3.

- (4) Participants are also expected to make the best use of the results achieved through the training program in the PCCC. The JICA project team will follow-up the activities of participants and disseminate their stories through the JICA project newsletters and the PCCC website.
- (5) The Climate Change Focal Points are requested to nominate participants from relevant units/sectors according to the above expectations.

## **2. Participant Qualifications:**

Participants are expected to meet the following qualifications. The participants would not necessarily be employed by the applying organizations, as long as they are selected officially by the organizations for their specific purposes. The participants must be either persons who are engaged in the said field or directly related to program subject.

### **(1) Essential Qualifications**

- (a) Current Duties: working on disaster risk reduction and/or climate change adaptation
- (b) Experience in the relevant field: have more than 2 years' experience (or 1 year experience) in the field of land use management or physical preventive measure for disaster risk reduction and/or climate change adaptation
- (c) Computer skills: At least high computer literacy on Microsoft Office Suits.
- (d) Educational Background: Diploma (two years of tertiary education) or equivalent
- (e) Language: have a competent command of spoken and written English.
- (f) Health: must be in good health, both physically and mentally, to participate in the Program
- (g) Age: between the ages of 24 and 40 years
- (h) Must not be serving any form of military service.

### **(2) Recommendable Qualifications**

Gender Consideration: JICA is promoting gender equality. Women are encouraged to participate in the course.

## **3. Required Documents for Nomination**

### **(1) Nomination Form:**

Please fill out the Nomination Form (Annex 1) and submit to the JICA team through the Climate Change Focal Points by **13 March 2020**.

Pregnant participants are strictly requested to attach the following documents in order to minimize the risk for their health:

- (a) letter of the participant's consent to bear economic and physical risks;
- (b) letter of consent from the participant's supervisor; and
- (c) doctor's letter with permission of her training participation.

**(2) Photocopy of passport:**

Please attach the photocopy of passport to the Nomination Form. Photocopy should include Name, Date of birth, Nationality, Sex, Passport number and Expire date.

**4. Preparation by the participants:**

**(1) National Preparatory Report**

The participants are required to collaborate and produce a preparatory report for their country. The report should be in electronic form (Word or similar) in English with using the format (Annex 2) at maximum of 10 pages, and to be submitted to JICA team by **31 March 2020**.

**(2) Presentation material**

Participants of each country/territory are required to collaborate and prepare a presentation material for 5 minutes on the summary of the preparatory report and submit to JICA team by **6 April 2020**. The presentation material should be in electronic form (Power point or similar) in English. The format is free and at maximum of 5 slides which discuss: 1) in the national CCA and DRR policy/strategy and its relevant objectives and activities on land use management, physical structure and human mobility; and 2) ongoing projects and their relevant objective, progress, challenges on these three themes.

**5. Conditions for Attendance:**

- (1) not to utilize knowledge and skills acquired in the training for military purposes.
- (2) to strictly adhere to the course schedule.
- (3) not to change the course topics.
- (4) not to extend the period of stay in the Independent State of Samoa.
- (5) not to be accompanied by family members during the training.
- (6) to return to home countries at the end of the training in accordance with the travel schedule.

- (7) to refrain from engaging in any political activities, or any form of employment for profit or gain during the training.
- (8) to observe the Independent State of Samoa laws and ordinances. If there is any violation of said laws and ordinances, participants may be required to return part or all of the training expenditure depending on the severity of said violation.
- (9) to observe the rules and regulations of the accommodation and not to change the accommodation designated by JICA team.

## ***IV. Administrative Arrangements***

### **1. Organizer:**

For enquiries and further information, please contact the below.

**(1) Name:** CBCRP-PCCC Project Team

**(2) Email:** cbcrcp.pccc@gmail.com

**(3) Office:** c/o P.O. Box 240, Secretariat of the Pacific Regional Environment Programme (SPREP), Apia, Samoa

### **2. Logistics information:**

Please refer the Logistics Information Note (Annex 3 for the countries and Annex 4 for the territories).

## ***V. Other Information***

### **1. Laptop:**

Participants are strongly advised to bring their own laptops for the training.