

**Project: Enhancing Disaster and Climate Resilience in the Republic of Palau through improved  
Disaster Preparedness and Infrastructure**

**Palau Monthly Report November 2020**

Output	Activities	Activity Details	Status as of November 2020	Next Action
Output 1	1.1 Install VHF and HF radio (incl. of climate proofing) in key emergency operations facilities.	<p>A network of VHF and HF radio for the State Governments will be installed according to the request made by the National Emergency Management Office (NEMO).</p> <p>Summary of the requested equipment HF system</p> <ul style="list-style-type: none"> <li>• Tobi state: 2 sites (both w/ Email) includes the main Koror office and the remote</li> <li>• Sonsorol state: 2 sites (both with email) w/Koror/remote.</li> <li>• Helen reef: 1 HF (without HF email)</li> <li>• Merir island 1 HF (without HF email)</li> <li>• Pulo Ana 1 HF (without HF email)</li> </ul>	<ul style="list-style-type: none"> <li>• Evaluation for radios is on progress.</li> <li>• Delairco Japan KK (Japan) has sent the first of multiple shipments for the solar panels coming from USA/Australia and Japan.</li> </ul>	<ul style="list-style-type: none"> <li>• Discuss with PNCC and NEMO on the installation plan.</li> <li>• Once the radios arrive to Palau, a telecom expert will check the equipment and do the programming.</li> <li>• Discuss with Delairco and National Stakeholder on training prior to the installation.</li> <li>• ETA of the first shipment from Australia: 10 December 2020. ETA of the second shipment from Japan: 12-13 December 2020.</li> </ul>

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		<ul style="list-style-type: none"> <li>• NEMO : needs HF email</li> <li>• Education : needs HF email.</li> <li>• Hospital : needs HF email</li> </ul> <p>VHF system</p> <ul style="list-style-type: none"> <li>• Kayangel, Peleliu and Angaur.</li> <li>• Other equipment involves battery bank, solar panels, battery supply charger</li> </ul>		
Output 1	1.2 Install tsunami and multi-hazard warning sirens (incl of repeater stations) in key vulnerable locations.	The early warning systems will include multi-direction sirens to be installed in 13 States, according to NEMO request. The control centre for the sirens is proposed to be located at the NEMO facility. According to information provided by NWS and the decisions taken by the NEMO, the staff on duty could select only certain areas to sound the alarm or every siren at the same time. The sirens system will complement the community	<ul style="list-style-type: none"> <li>• PNCC launched a competitive tender for supply of Multi-Hazard/Tsunami Early Warning Siren System with closing date of 23 Nov.</li> </ul>	<ul style="list-style-type: none"> <li>• PNCC to award the bid in December.</li> </ul>

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		preparedness initiative currently under implementation by the NEMO.		
Output 1	1.3 Repair/Install Automated weather stations related equipment in key strategic and vulnerable locations both existing and non-existing according to WMO guidelines.	<p>In coordination with the NWSO, 4 automated weather stations to complement the capacities to monitor weather conditions.</p> <p>The regular AWS will be located in Kayangel, Melekeok, Koror and Peleliu States.</p> <p>The equipment will be installed in State Government property land, and the maintenance will be done by the NWS technical officers (by using the 13 technical officers in main station and the 5 observers in the field).</p>	<ul style="list-style-type: none"> <li>• AWS components and also all the installation and maintenance tools were shipped in November from NZ.</li> </ul>	<ul style="list-style-type: none"> <li>• Delivery of AWS to Palau. ETA February 2021.</li> <li>• Calibration certificates, instrument manuals and training videos will be transferred to NWSO in coordination with the arrival of the equipment in Palau.</li> <li>• The NWSO technicians in Palau will assemble the complete station, including connecting and testing all the sensors, and communications systems in four different locations.</li> </ul>
Output 1	1.4 Install 4 wave rider buoys to determine ocean conditions and surface wave monitoring	The NWSO has requested to modify the original request of a DART buoy for 4 wave riders buoys (3 to be installed and one spare). Considering their proximity to the coastlines, the Wave rider Buoys will enable NWSO to plan and predict the level of erosion and	<ul style="list-style-type: none"> <li>• UH has invoiced NWSO for the equipment order.</li> <li>• Initial discussions on buoy location have commenced between NWSO and PacIOOS. The area East of</li> </ul>	<ul style="list-style-type: none"> <li>• Order supplies for the equipment and narrow down the coordinates for the buoy location with additional local partners knowledgeable about</li> </ul>

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		saltwater intrusion through storm damage and waves on coastal areas; and to make decisions oriented to the protection of natural ecosystems.	<p>Melekeok has been identified as high priority.</p> <ul style="list-style-type: none"> <li>A publication by PAcIOOS on strategic collaboration was issued on their cooperate newsletter <a href="https://conta.cc/33DfXUF">https://conta.cc/33DfXUF</a></li> </ul>	local ocean conditions and instrument requirements.
Output 1	1.5 Reconstruction of AM Frequency Modulation Tower	The AM radio tower collapsed during Typhoon Bopha in 2012. From then on, the government radio broadcast operates only in FM, covering the area around Koror (approximately 50% of the country population). The AM radio tower to be rebuilt within this Project will expand the coverage to the entire population, including the Southwestern islands. A complete assessment report was submitted by the Department of Domestic Affairs, including the type of equipment required for the reconstruction of the AM tower, the installation of the respective equipment and the construction of a shelter (to house the	<ul style="list-style-type: none"> <li>The supply and installation of AM Tower was awarded on 20 November.</li> <li>First online conference with the company, Bureau of Domestic Affairs and UNDP was held in November to resolve Q&amp;As.</li> </ul>	<ul style="list-style-type: none"> <li>UNDP to finalise contract with the company.</li> <li>Bureau of Domestic Affairs to ensure PPUC increase the transformers on the site.</li> <li>BDA to acquit the advance payment.</li> </ul>

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		AM and FM radio equipment, and a mini studio).		
Output 1	1.6 Training course for young technicians on how to maintain the current communications Infrastructure	In order to increase current and future capacities to install, repair, maintain and manage telecommunication equipment the Project has started some discussions with the Palau Community College to develop a training course for students majoring in Electronics.	<ul style="list-style-type: none"> <li>• This activity has no update this month.</li> </ul>	<ul style="list-style-type: none"> <li>• Meeting to be schedule with all relevant national partners (PCC, PNCC, PEA, NEMO) and telecom expert to agree on possible content.</li> </ul>
Output 1	1.7 Conduct a Protection, Gender and Social Inclusion in Disaster Risk Management training	The Bureau of Gender, Aging and Disabilities is keen to promote a participatory process within the National Emergency Committee to review the instruments currently used for data collection in humanitarian assistance. This activity is linked to the training in Gender in Humanitarian Action (GiHA) proposed in Component 3, building upon the capacities already developed in-country through a	<ul style="list-style-type: none"> <li>• Red Cross, IFRC, SPC and UNDP have agreed on the agenda, facilitation of session and dates for the National workshop.</li> </ul>	<ul style="list-style-type: none"> <li>• Finalise the material and session presentation for the training.</li> <li>• Endorse list of participants.</li> <li>• Training is set for February 2021.</li> </ul>

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Output	Activities	Activity Details	Status as of November 2020	Next Action
		training of trainers course developed by UN-Women in 2018.		
Output 2	2.1 Provide appropriate and improved disaster preparedness and response equipment to NEMO (purchase of a generator to complement existing one)	<p>The project will provide the National EOC with the required equipment for information management, monitoring and coordination.</p> <p>This may include:</p> <p>computers and software, multimedia equipment, communication equipment (telephone, WIFI and fibre optic, if possible).</p>	<ul style="list-style-type: none"> <li>• The bid for ICT equipment was launched on 30 November 2020 with closing date of 11 December.</li> <li>• Westpac company, CIP, BPW and UNDP met to determine the outline the power requirement for the NEMO ICT equipment per room.</li> </ul>	<ul style="list-style-type: none"> <li>• Conduct evaluation of bid for ICT equipment.</li> </ul>
Output 2	2.2 Retrofit the National Emergency Operations Centre (NEOC) facility to meet international and functional standards.	The conference/meeting room of the NEOC will be expanded to accommodate the increasing number of representatives from the National Disaster Management Team. Moreover, an information	<ul style="list-style-type: none"> <li>• Civil works under implementation.</li> <li>• Ministry of Public Infrastructure, Industries &amp; Commerce submitted the first acquittal for the LOA.</li> </ul>	<ul style="list-style-type: none"> <li>• Continue construction works for refurbishment of EOC.</li> </ul>

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		management room will be added to the existing building.		
Output 2	2.3 Conduct LIDAR Imagery remote sensing mapping over key and vulnerable locations. High Resolution Digital Elevation Models (DEM) for Inhabited Coastal Areas developed	The Office of the Palau Automated Land and Resource Information System (PALARIS) is the main counterpart to prepare a topographic map (1m resolution) for the islands of Kayangel, Babeldoab, Koror, Peleliu, Angaur, Sonsorol and Hatohobei (for an approximate area of 415 square kilometres). The respective contract with the specialized company will include a training on the use of the LIDAR study, with emphasis on its potential for disaster risk modelling and disaster risk management.	<ul style="list-style-type: none"> <li>• UNDP signed a contract with Fugro for LiDAR study.</li> <li>• A first contact meeting between PALARIS, UNDP and Fugro was organised.</li> <li>• Bid for drone and GPS closed on 4 November.</li> </ul>	<ul style="list-style-type: none"> <li>• Fugro to submit the inception report by 5 December.</li> <li>• Conduct evaluation of offers for drone and GPS</li> <li>• ETA for 2 vehicles is 15 December.</li> <li>• Arrival of the 4 Laptops and 5 desktops for PALARIS</li> </ul>
Output 2	2.4 Provide key strategic islands with mobile storage facilities to store emergency stockpiles/supplies, emergency equipment.	The project will provide the NEMO with 5 mobile warehouse facilities (tents) to be stored at the NEOC.	<ul style="list-style-type: none"> <li>• Activity completed.</li> </ul>	<ul style="list-style-type: none"> <li>• Activity completed.</li> </ul>

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Output 2	2.5 Appropriate equipping of emergency disaster response stations, East coast and Westcoast of Babeldaob island with response and rescue vehicles (specifically fire trucks and first responders' vehicles)	The project will procure one fire truck for the East coast and Westcoast of Babeldaob island. A specific request has been shared by the Bureau of Public Service (Ministry of Justice). The fire truck will be placed in the Melekeok Fire Department Sub-station for assisting the States located in the Babeldaob Island.	<ul style="list-style-type: none"> <li>• Under manufacturing process.</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing will be completed by the end of December.</li> </ul>
Output 2	2.6 Provide key disaster responders and Search & Rescue institutions with 2 portable man pack HF radio	Provide key disaster responders and Search & Rescue institutions with 2 portable man pack HF radio	<ul style="list-style-type: none"> <li>• Activity completed.</li> </ul>	<ul style="list-style-type: none"> <li>• Activity completed.</li> </ul>
Output 3	3.1 Provide emergency backup power for schools as evacuation centres (Low tech off grid electrical power system for three schools in Sonsorol, Pulo Anna and Hatohobei, Southernmost islands).	This will involve procurement of 3 solar panel systems to be installed in three schools of the Southwestern islands of Sonsorol, Pulo Anna and Hatohobei States. For the PEA, this project is considered a pilot initiative to then expand the provision of solar panels to all households in the mentioned islands.	<ul style="list-style-type: none"> <li>• Delairco Japan KK (Japan) has sent the first of multiple shipments for the solar panels coming from USA/Australia and Japan.</li> <li>• A technical team is traveled to Sonsorol and Pulo Anna islands on Nov. 6-11, 2020. Two solar power technicians from Palau Public Utilities Corporation, two</li> </ul>	<ul style="list-style-type: none"> <li>• Delivery of the solar panels.</li> <li>• ETA of the first shipment from Australia: 10 December 2020. ETA of the second shipment from Japan: 12-13 December 2020.</li> </ul>



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			<p>from the Palau Energy Administration, and two staff from the Ministry of Education. They took measurements of possible placements of the solar panels. The team considered the configurations of the solar panels provided by Delairco.</p>	
Output 3	<p>3.2. Restoration and protection of cultural heritage sites in coastal communities rated high risk (Palau Historical Preservation Office, Vulnerability Assessment) – in line with Palau Climate Change Policy (PCCP) for Climate &amp; Disaster Resilient Low Emissions Development.</p>	<p>The Bureau of Cultural and Historical Preservation is the implementing partner for the implementation of this activity. This includes the preparation of vulnerability assessments of 10 cultural heritage sites (to be developed by 4 international specialists already contacted by this Bureau) and climate risks mitigation works in 2 prioritized sites. The mitigation works are aimed to protect cultural heritage sites and will be developed considering a high level of participation of the communities in</p>	<ul style="list-style-type: none"> <li>• MCCA submitted the 3rd acquittal on 20 Nov.</li> <li>• UNDP is follow up with MCCA to refund unexpended advance.</li> </ul>	<ul style="list-style-type: none"> <li>• MCCA to refund the unexpended advance.</li> <li>• Expected deliverables are expected to be completed by March 2020</li> <li>• The two intervention projects are expected to be completed: 1) Intervention Kukau el Bad and 2) Iporu burial site in Tobi.</li> </ul>

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		order to raise the awareness for the protection of cultural sites.		
Output 3	3.3 Procure a double function vehicle for the Fire Department, to secure water resources during droughts	A double function vehicle will be procured for the Fire Department, which can be used as a fire truck but also as a 3,000 gallons water tank truck. This vehicle will have the capacity to transport water to schools, hospitals and communities affected by water shortage due to droughts or any deficiency in the water system.	<ul style="list-style-type: none"> <li>• Under manufacturing process</li> </ul>	<ul style="list-style-type: none"> <li>• Manufacturing will be completed by the end of December.</li> </ul>
Output 3	3.4 Throughout this project, the NWSO and NEMO will be provided with vehicles and boats to improve their capacity to access the areas where the monitoring equipment will be installed as well as to support evacuation and humanitarian assistance in case of disasters.	<p>The Fire Department facilities will be improved.</p> <p>Following critical vehicles will be purchase</p> <ul style="list-style-type: none"> <li>a) NWSO pick up,</li> <li>b) 5 Tones pick up,</li> <li>c) 1 NEMO Vehicle</li> <li>d) 1 Boat</li> </ul>	<ul style="list-style-type: none"> <li>• UNDP will relaunch the bid process of the procurement of 3.5t truck due to consistent issues with the selected company.</li> </ul>	<ul style="list-style-type: none"> <li>• Initiate construction of roofing at Koror Fire Department by BPW.</li> </ul>

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Output 3	3.5 Provide food preservation training to vulnerable communities through all relevant national and state actors to enhance community resilience.	<ul style="list-style-type: none"> <li>• Activity canceled and funding relocated to purchase of Search and Rescue Equipment.</li> </ul>	<ul style="list-style-type: none"> <li>• Activity canceled</li> </ul>	<ul style="list-style-type: none"> <li>• Activity canceled.</li> </ul>
Output 3	3.6 Conduct a Protection, Gender and Social Inclusion in Disaster Risk Management training	The Bureau of Aging, Disability, and Gender (within the Ministry of Community and Cultural Affairs) has proposed the delivery of a training in the methodology of Gender in Humanitarian Action (GiHA), considering the capacities developed in a regional training for trainers course by UN-Women. This activity will be linked to Activity 1.7 oriented to mainstream gender and social inclusion consideration in humanitarian assessment tools.	<ul style="list-style-type: none"> <li>• Please see 1.7 above</li> </ul>	<ul style="list-style-type: none"> <li>• Please see 1.7 above</li> </ul>

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Output 3	3.7 Conduct PDNA and DRF Training of Trainers to key government sectors		<ul style="list-style-type: none"><li>• Activity completed.</li></ul>	<ul style="list-style-type: none"><li>• Activity completed.</li></ul>