

ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

PROJECT/PROGRAMME CATEGORY: Pre-Concept for a Regional Project

Countries/Region: Fiji, Samoa, Solomon Islands and Vanu	Jatu		
Project Title: Integrating Flood and Drought Management and Early Warning for Climate Change Resilience in the Pacific Islands			
Thematic focal area: Disaster risk reduction and early war	ning systems		
Implementing Entity: World Meteorological Organisation (WMO)		
Executing Entities: World Meteorological Organisation (Wi	MO)		
Secretariat of the Pacific Regional Environment Programme (SPREP)			
Secretariat of the Pacific Community (SPC)		
AF Project ID: AF00000318			
IE Project ID: Requested Financing from Adaptation Fund (US Dollars): 13,959,881			
Reviewer and contact person: Hugo Remaury Co-reviewer(s): Taylor Henshaw			
IE Contact Person(s): Jean-Paul Gaudechoux and Lina Sjaavik			

Technical Summary	The project "Integrating Flood and Drought Management and Early Warning for Climate Change Resilience in the Pacific Islands" aims to improve the integration of meteorological and hydrological data and information, products and services, and practices to better manage floods and droughts in a changing climate and further strengthen the climate change resilience of Pacific Island communities. This would be done through the four components below:
	Component 1: Hydrology and water resource hazards and threats (USD 6,400,000);
	Component 2: Communication awareness, knowledge products and data management (USD 2,000,000);
	<u>Component 3</u> : Capacity development (USD 1,850,000);
	Component 4: Policies, legislations and regulations (USD 1,500,000).
	Requested financing overview: Project/Programme Execution Cost: USD 1,116,250 Total Project/Programme Cost: USD 12,866,250

	Implementing Fee: USD 1,093,631 Financing Requested: USD 13,959,881
	The proposal includes a request for a project formulation grant of USD 20,000.
	The initial technical review raises some issues, such as strengthening the regional approach, discrepancies in implementation/execution arrangements and need to reinforce the concreteness of the proposed activities, as discussed in the number of Clarification Requests (CRs) and Corrective Action Requests (CARs) raised in the review.
Date	22 nd August 2022

Review Criteria	Questions	Comments	WMO Response
	 Are all of the participating countries party to the Kyoto Protocol? 	Yes.	
Country Eligibility	2. Are all of the participating countries developing countries particularly vulnerable to the adverse effects of climate change?	Yes. Participating countries have been experiencing increasingly frequent and devastating natural disasters exacerbated by climate change, including sea level rise, temperature increase, changes in rainfall patterns, extreme events, cyclones and increasing intensity, floods, water scarcity and droughts.	
Project Eligibility	 Have the designated government authorities for the Adaptation Fund from each of the participating countries endorsed the project/programme? 	Yes. As per the Endorsement letters dated 13 December 2021, 8 November 2021, 21 December 2021, and 9 December 2021, respectively.	
	2. Has the pre-concept provided necessary information on the problem the proposed	Partly. The pre-concept describes an increasing occurrence of climate-induced natural	

project/programme is aiming to solve, including both the regional and the country perspective?	disasters in target countries, notably floods and droughts. It provides an overview of the resulting challenges they are facing, notably from a National Hydrological and Meteorological Services (NMHS) perspective. However, the pre- concept does not describe how the regional approach would add value compared to implementing the proposed activities in each country individually. In addition, participating countries' perspectives should be reflected in the proposal, and the background/context section needs to be reworked as per the below CRs. CR1 : Please provide more clarity on what the project is aiming to solve at both the country and regional levels. This section would read more concisely and logically by adhering to this sequence: what are the adaptation challenges? What are the threats/root causes? What are the barriers that need to be overcome? CR2 : Please ensure that country-specific perspectives are reflected in the "project/programme background and context" section, notably by i) replacing existing repetitive information and ii) including links to country data for the four selected countries to scientifically support	CR1: Addressed under the Project / Programme Background and Coontext. Further elaboration at Concept stage. CR2: The pre-concept note has been jointly prepared with the targeted countries following their requests and needs for managing climate change events. We have included links to relevant plans nationally and at regional level for more details.
	context statements.	

	CR3 : Please emphasize how the regional approach would add value compared to implementing the proposed activities in each country individually and revise the project structure accordingly and as needed.	CR3: This will be emphasized at Concept stage. A regional approach for the Pacific region is important to ensure countries develop jointly and share common products or tools for managing climatic extremes. This will also allow countries to later share their experiences, good practices as well as lesson learned from the developed and usage of products and tools. Through the regional approach, the co-benefits will be increased compared to the national level as one set of resources generate productive outcomes for four countries, which individual national projects would have achieved using more resources (human, time as well as material resources).
	CAR1 : Please reduce the length of the pre-concept as much as possible to ensure compliance with maximum length requirements (5 pages for part I to III).	CAR1- This has been addressed after the review and amendments to the document.
3. Have the project/programme objectives, components and financing been clearly explained?	Mostly. The pre-concept objectives and components are relatively well articulated. However, the nature of the targeted population groups as well as the scope of some activities should be clarified.	
	CR4 : Please present the project with a single objective and rephrase the current "main objectives" into expected outcomes,	CR4. We have revised to a single objective as suggested. The expected outcomes have been

an evention that they are seen to be seen at	moved to the table to fee and
ensuring that they can easily be mapped to the expected outcomes listed in the table.	moved to the table to for ease of reference.
CR5 : Please expand on the titles of each project component to explicitly state what they are aiming at and how they will help achieve the overall goal of the project. Consider using the phrasing under the "Project Components" section (Part II) for this.	CR5: This has been addressed as suggested in the relevant sections of the document.
CR6 : Please edit the first Outcome to "reduced" rather than "reduce" to ensure it reads as a proper outcome.	CR6: This has been addressed.
CR7 : Please complete the stated outcome to clarify what would ultimately be achieved by the related activities (for example, "Improved policies, legislations, regulations, and coordination that promote and enforce resilience measures - for what?). Please amend the document accordingly.	CR7: ok, we have amended in the updated pre-concept note. The development and applicability of the new and innovative products and tools for climate change adaptation will be important for updating or refining of the existing policies, legislations, regulations at the regional, national and local levels. This is important to ensure national investments and ownership are taken by the government and eventually the efforts are sustained after the completion of the project
CR8 : Please briefly quantify expected outputs whenever possible (i.e., how many risk and vulnerability assessments? How many knowledge/learning products? etc).	CR8: The information we have mentioned in the output for nationals refers to all 4 countries receiving support for specific activity and at a regional level it is expected to benefit

	all 14 PICs. For knowledge learning products this is to be identified at Concept Stage after mapping countries needs as it will a range from NHS needs to NDMOs and other relevant partners at national level.
CR9 : Under Part II, please briefly expand on each of the four project components. While this is a pre-concept, it is difficult to understand what the project would actually do (i.e., under which component would the HydroSOS be implemented? What sort of knowledge would be produced? What are the capacity building activities?). On the other hand, please consider synthesizing the "Consistency with Sub-National, National, Regional and International Strategies" and "Leveraging achievements from other funding sources" sections.	CR9: We have expanded on the four components to highlight what is expected to take place. The knowledge products will be based on the assessments of the NMSs that is to be conducted therefore, it is difficult to assume training or capacity building needs at this stage. Two sections mentioned has been revised into one section.
CR10 : Please briefly explain the process and associated criteria through which the project would select target communities/population groups.	CR10: The selection of communities will be better defined and identified at Concept Stage during the stakeholder consultations. It is understood that it will follow the usual national processes with oversight from PMU and WMO.
CR11 : Please clarify the purpose of the risk and vulnerability assessments planned under Component 1 and explain	CR11: Purpose for V&A - The vulnerability and risk assessment will allow better understanding and

	if and how they would inform other project outputs/activities and/or the selection of the " <i>targeted population groups</i> ".	anticipation of the effects of hydrometeorological and climate events including tropical cyclones, droughts, floods, thereby supporting the formulation of adequate adaptation policy, regulations and plans in various social and economic sectors such as water resource management, infrastructure developments etc. It will also inform project's outputs on impact-based forecasts and warnings, increased knowledge and capacity of communities on very high vulnerable areas and the information will help communities to design and implement appropriate preparedness and response measures. The V&A will also be useful for projects such as from GCF
 4. Has the project/programme been justified in terms of how: it supports concrete adaptation actions? it builds added value through the regional approach? it promotes new and innovative solutions to climate change adaptation? it is cost-effective? 	Partly. A substantial part of the requested funding would be allocated to soft interventions measures (i.e., capacity, policy, and communication/KM related), with the scope of concrete activities remaining to be determined. The concreteness of the proposal should therefore be reinforced. Benefits of a regional approach should also be further reflected in the project design. <u>Concreteness:</u> CR12: Given the high proportion of funding allocated to soft interventions	CR12:

- it is consistent with	measures, please i) highlight the concrete	i)	Concrete outcomes
applicable strategies	outcomes (i.e., visible and tangible)		include Community EWS
and plans?	expected at project end; ii) add in the		infrastructures such as
- it incorporates	"Project/Programme Components and		water tanks, installation
learning and	Financing" table financial allocations for		of information boards,
knowledge	each output; and iii) consider reallocating		risks maps to name a
management?	financial resources towards concrete/hard		few for communities and
- it will be developed	interventions measures.		NHSs would be the
through a consultative			expansion of monitoring
process with particular			networks and
reference to vulnerable			instrumentation for the
groups, including			purpose of data
gender considerations,			collection and EWS
in compliance with the			products for different
Environmental and			sectors such as tourism
Social Policy of the			etc, however the details
Adaptation Fund?			and confirmation will be
- it will take into			provided at concept
account sustainability?			stage.
account cuctamating.			olago.
		ii)	Financial allocations for
		")	outputs- we have made
			allocations as suggestion
			however; these will be
			confirmed during concept
			stage.
			Slage.
		iii)	Reallocate financial
		,	resources towards hard
			interventions- this has
			been considered and
			amended accordingly by
			moving resources from
			component 4 to
			components with
			concrete measures.

	CR13: Please clarify the nature and scope of community-level activities by providing additional information on i) the nature and scope of the community-level activities; ii) whether the "communities" who would benefit from "activities to improve livelihoods, access to clean water" constitute the "target population groups" and ensure that the same term is used throughout the document; and iii) how the project would improve the response capability of end- users/communities/target population groups in light of the early warning system to be enhanced.	CR13: This has been revised The community-based activities will strengthen the capacities and preparedness measures through community-based warning dissemination channels, response support to vulnerable groups, identification of safer zones, coordination and collaboration with local agencies and stakeholders
	New and innovative solutions to climate change adaptation: CR14 : Please clarify the "innovative solutions" section to demonstrate how the proposed approach is new and innovative. It should, at a minimum, describe how it includes lessons learned from previous HydroSOS project.	CR14: Regional Coordination- PMC Met will be useful to improve overall coordination and collaboration between the countries, the EWS Hydrological Status and Outlook system (HydroSOS) will new and innovative regional system which will support the countries to identify the floods forecasting (short-term) as well as drought outlook (long- term) for developing preparedness and response measures
	Consistency with applicable strategies and plans: CR15: Please ensure that the pre- concept is aligned with any existing participating countries' NMHS National Strategic Plans.	CR15: Participating countries have some plans but hydrology is weak as its imbedded in ministries and departments. They follow ministry corporate plan, no specific strategic

<u>Consultative process:</u> CR16 : To ensure alignment with the requirements for concept and fully developed proposal stages, please edit the document to ensure that the planned consultative processes will not only <i>"identify key regional and national stakeholders"</i> and <i>"define their roles and responsibilities in the project implementation"</i> but, most importantly, also take their interests and concerns into consideration when designing the proposal.	plans. Where there are no plans we hope the project will pick it up and where they exist the project will strengthened the existing management plans, policies and guidelines. However, we have aligned to the countries climate adaptation plans and policies around the frame of DRR. We have added text to further clarify this alignment. CR16:As suggested, key stakeholders with their roles and responsibilities are added in the revised pre-concept note.
Sustainability: CR17: Although participating countries would not execute the project, they "will be required to allocate sufficient resources for maintenance" of systems and infrastructures provided by the project. Please confirm whether such arrangements have been agreed upon with countries.	CR17: We cannot confirm now but the project will assist countries with Operation and Maintenance budget to ensure assets are maintained and looked after. This will also enhance the regional standardized guidelines for quality assurance. Commitments from the countries will be sought to ensure long term maintenance and operation of the

	CR18 : Please consider building- on/establishing data sharing agreements within existing institutional frameworks to sustain project efforts beyond the project lifetime.	developed products and tools (at the concept note stage and project proposals stage) CR18: Component 4 – Data and Information Policies will be covered here. (Data and information Governance). Discussion with countries and regional entities are planned in the next preparation phase of the project where data sharing agreements related issues will be discussed
	CR19 : Please briefly describe how the capacity building activities would contribute to project sustainability.	CR19: Its more than just training, can include maintenance resources, Processes for data management and sharing. Based on training and capacity development activities, staffs of the NMHSs will be involved in the design, development and operation of the HydroSOS system which will eventually allow national and regional stakeholders to have adequate knowledge on the long- term use and maintenance of the HydroSOS system.
	Social Policy: CR20 : The project should be categorized either A, B or C (currently category "3") to comply with the categorization system described in the ESP. Please edit the document accordingly, referring to the <u>guidance document for Implementing</u> <u>Entities on compliance with the AF</u>	CR20: It is Cat B - some infrastructure involved and use of information (i.e. EWS is as good as what you feed it can be risky to people). Based on EWS and risk mapping, there could be some risks such as construction of protection measures, moving of population to

	Environmental and Social Policy, if needed.	the safer location etc. which could be challenging to the government and local stakeholders. <u>Categorizing</u> of the project will be completed after the EIA and SIA studies based on the 15 principles of the Adaptation Fund.
5. Does the pre-concept briefly explain which organizations would be involved in the proposed regional project/programme at the regional and national/sub-national level, and how coordination would be arranged? Does it explain how national institutions, and when possible, national implementing entities (NIEs) would be involved as partners in the project?	Not sufficiently. WMO, the Secretariat of the Pacific Regional Environment Programme (SPREP) and the Secretariat of the Pacific Community (SPC) would execute the project. Relevant national institutions are not included in the list of executing partners. The proposal does not describe which components/outputs/activities would be executed by the proposed entities. CR21 : Please explain i) the rationale for not collaborating with relevant national institutions (e.g., NMHS of participating countries and/or line ministries) to execute the project; ii) the expected advantages of the proposed execution modality through SPREP, SPC and WMO and iii) how/when would the proposed entities collaborate with the NHMSs, disaster management agencies and targeted communities.	 CR21: i)This has been revised to indicate the correct intentions and arrangements. ii)The technical advisory role and capacity - WMO have Hydrology Unit working internationally. At the regional level, both the Secretariat for the Pacific Regional Environment Programme (SPREP) and the Pacific Community (SPC) play a leadership role in managing weather and climate information in addition to obtaining and analysing geophysical information.

		iii)This has been revised to strengthen NMHSs participation. However, to clarify, the collaboration is expected to be set during the concept stage after the stakeholder consultations with communities whereas with NMHSs and NDMOs this is already established through PMC.
	CR22 : Please briefly describe the role of each executing entity and clarify which components/outputs/activities each of them would execute. Discrepancies exist between the endorsement letters and executing entities listed in the proposal (e.g., the letter from the Solomon Islands includes the Ministry of Environment, Climate Change, Disaster Management and Meteorology and Ministry of Mines, Energy and Rural electrification as executing entities, although they are not mentioned in the pre-concept; the letters from Fiji, Solomon Islands and Vanuatu do not mention WMO as executing partner; the letter from Vanuatu states that the Ministry of Climate Change, Meteorology, Geohazards, Environment, Energy and Natural Disaster Management would execute the project).	executing entities roles and responsibilities during the project implementation due to the 5-page limitation More information on each executing entities and national partners roles and responsibilities will be made available at the

CAR2: Please revise the pre-concept to ensure consistency with the endorsement letters submitted. Please note that, as per Decision B.18/30, the AF Board has confirmed, as a	CAR2: Letters are being amended to insert as discussed.
principle, the separation between implementing and execution services. Execution services may only be provided by Implementing Entities on an exceptional basis and at the written request by the recipient country, involving designated authorities in the process, and providing rationale for such a request. In addition, Decision B.38/42 requires IEs to provide justifications to demonstrate its advantages compared to other entities, agencies or organizations that could	
 provide the selected execution services, particularly for the execution of activities at national or subnational level. CAR3: Please i) add a justification for WMO to provide execution services to the project; and ii) demonstrate WMO 	CAR3 : WMO through its technical departments are well placed to assist the region in setting up its
advantages compared to other entities that could potentially provide the same services, particularly for the execution at national and subnational level.	hydrological framework that links to the global efforts of WMO thus would require assistance from technical departments to the NHSs. And we have well established programmes on hydrology globally provided by many years of operation. Other partners in the region cover other components of water such as WASH, Water Resource Management, Policies

				with and environmental focus and research. They are strong on NMSs.
	6.	Is the requested project / programme funding within the funding windows of the programme for regional projects/programmes?	Yes.	
Resource Availability		Are the administrative costs (Implementing Entity Management Fee and Project/ Programme Execution Costs) at or below 10 per cent of the project/programme cost for implementing entity (IE) fees and at or below 10 per cent of the project/programme cost for the execution costs?	Yes. Through Decision B.38.42, the AF Board has limited the execution costs of the IE to 1.5 per cent of the cost of the part of the project or programme executed by the implementing entity of the project/programme cost. CAR4: Please confirm the amount of funding that WMO would charge for providing these execution services. If this amount exceeds the 1.5 per cent cap, please provide a justification for it to be reviewed on case-by-case basis.	CAR4 – At this early stage of project development, it is difficult to assess the amount of funding that WMO would charge for providing Execution Services. It is however anticipated that the amount would not exceed the 1.5% cap (see also response to CAR 3)
Eligibility of IE	8.	Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	Yes.	



PRE-CONCEPT FOR A REGIONAL PROJECT/PROGRAMME

PART I: PROJECT/PROGRAMME INFORMATION

Title of Project/Programme: Integrating Flood and Drought Management and Early Warning for Climate Change Resilience in the Pacific Islands Countries: Fiji, Samoa, Solomon Islands and Vanuatu Disaster risk reduction and early warning systems Thematic Focal Area¹: Type of Implementing Entity: Multilateral Implementing Entity Implementing Entity: World Meteorological Organization (WMO) Executing Entities: (IME) Secretariat of the Pacific Regional Environment Programme (SPREP), Pacific Community (SPC) and WMO. Amount of Financing Requested: 13,959,881 (in U.S Dollars Equivalent)

Project / Programme Background and Context

All Pacific Islands are vulnerable to the adverse impacts of climate change on their efforts to achieve sustainable development. and, in some cases, their survival and viability as nation states. Pacific leaders have reaffirmed climate change as the single threat to the pacific and the climate emergency to meet the 1.5 degrees target. Owing to their geographic location and specific social, economic and environmental characteristics, they are fragile and vulnerable to a range of external shocks such as extreme weather, climatic variability and climate change. They haveSmall Islands have more limited water resources, which are mostre susceptible to natural hazard including droughts, floods, tropical cyclones and high tides these hydrometeorological hazards. Other water related issues affecting many PICsaeifie Islands Countries including Fiji, Samoa, Solomon Islands and Vanuatu are Water quality degradation, insufficient knowledge of water management practices resulting from insufficient education and training and institutional capacity; the lack of relevant monitoring technology, methods and standards used; poor hydrological data collected and insufficient use and an overall weak water governance at the national and regional level.

The execution of the project at the national level are mandated to the National Meteorological and Hydrological Services (NMHSs) and their line ministries in the pilot countries. The NMHSs are accountable to provide short- and long-range weather forecast as well as early warning to institutions and communities. Thus, the need for flood forecasts in several major rivers is becoming urgent; flow data are needed to supplement rainfall data/forecasts. In addition, a drought forecasting capability is increasingly regarded as essential for water management. These improvements and enhanced systems will strengthen disaster preparedness, response and recovery for the pilot countries. These priorities are outlined in y have outlined this in their national strategic frameworks in adaptation to climate change as well as NAPs and NDCs (e.g. Fiji National Climate Change Policy 2018-2030Fiji National Climate Change Policy; Samoa National Climate Change Policy 2012-2017Solomon Islands Climate Change Policy (2012-2017); and Vanuatu National Climate Change

¹ Thematic areas are: Food security; Disaster risk reduction and early warning systems; Transboundary water management; Innovation in adaptation finance.

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Adaptation Strategy for Land Based Resources (2012-2022)). The project willThrough this project, the pilot countries lead ministries will enhance their governance structures, monitoring networks for both surface and groundwater and improve capacity through certified trainings and establish a community of practice for sharing lessons and experiences in the pilot countries NHSs. It will support the region in establishing a regional governance framework and platform specific to hydrology matters -similar tolike the PMC setup. The idea of piloting this project in four NHSs with a regional approach is so to setup Regional Standards and a Framework for Hydrology that will guide the work of NHSs nationally through the support from WMO, SPC and SPREP who play leadership roles in managing weather, climate and water information that inform EWSs across the Pacific. The project will be implemented by WMO and executed by the national Government Ministries identified, regional technical partners SPREP and SPC through the Pacific Meteorology Council Platform (PMC) Hydrology Panel and the WMO. Technical Departments...

Global climate change is one of the most serious challenges to the development aspirations of Small Island Developing States (SIDS). Located in the region of the world exposed to, and with intense, frequent and increasing impactful hydro-meteorological disasters, SIDS vulnerability to these disasters is heightened due to their isolated geographic situation, ecological fragility, socioeconomic disadvantages due to their small sizes, and is also exposed to geological hazards due to its proximity to the rim of fire and geological location. Flooding, climate change and water security have been identified as some of the key issues plaguing the Pacific region affecting the lives and livelihood of its people².. The AR6 Climate Change 2021³ further highlights that the intensity and frequency of severe rainfall events and associated flooding, storm surges, coastal floods, coastal erosion clubbed with saltwater intrusion and longer dry spells are set to increase. Consequently, the limited water resources of the Small Islands become susceptible to these hazards4. These wees are further compounded by poor application of water management practices requiring strengthened education and training, leadership, and institutional capacity; the use of inappropriate technology and methods which are not supported or maintained; and weak water governance, uncoordinated policy and legislation and lack of enforcement. Some significant improvements have been made in recent years, but more effort and external financial and knowledge resources are needed. The four selected NHSs⁵ from Fiji, Samoa, Solomon Islands, and Vanuatu are all from the Pacific region. During rainy season, tropical cyclones are major features of hydro-climate risks in the region. Tropical cyclones⁶ in recent years all had significant loss of life and damage to infrastructures. Heavy rainfalls cause flash flooding in all seasons and warning times are short requiring specialised forecasting products. While some single catchment flood forecasting models have been installed, the agencies lacked capacity (staff, IT infrastructure and communication networks) to maintain them. In recent years flash flood forecasting tools, incorporating NWP7 and data transmission networks have been developed, which coupled with local based solutions can improve accuracy and timeliness of flood early warning. Drought is another main disaster that is prevalent. Currently, NMSs⁸ report on meteorological drought but less on the impact to water resources from droughts and other stresses, particularly groundwater. Monitoring of water resource impacts and changes in response to climate events will improve understanding and application of evidence based sustainable management practices and early warning systems and responses

3 https://www.ipcc.ch/assessment-report/ar6/

5 NHSs (National Hydrological Services)

² Pacific Countries and Territories Hydrological Capacity Assessment and Needs, October 2019

⁴-Natural hazards including droughts, floods, tropical cyclones, coastal inundation, salt-water intrusion, earthquakes, tsunamis, volcanic cruption, and landslides

⁶ TC Evan in 2012 (Samoa), Pam in 2015 (Vanuatu), Winston in 2016 (Fiji) Harold in 2020 (Solomon Islands and Fiji)

⁷ NWP (Numerical Weather Prediction)

⁸ NMSs (National Meteorological Services

Project / Programme Objectives:

The project aims to enhance Early Warning Systems in the Pacific by building resilience to hydrometeorological hazards in the region with the focus on severe weather including tropical cyclones, floods/inundation and droughts. The project outcomes and outputs are highlighted in the table below. The goal is to assist Pacific Island member states to improve the integration of Meteorological and hydrological data, information, products services, and practices to better manage flood and droughts and further strengthen the climate change resilience of Pacific Island communities. It builds on existing infrastructure, data and information, institutional settings such as PMC⁹, Pacific Islands Hydrology Panel, Pacific HYCOS¹⁰; several AF funded projects¹¹, contribute to initiatives undertaken by development partners ; enhance the safety, health, food and water security, livelihood, and socio-economic well being of Pacific peoples. The main project outcomesobjectives are!

- To sStrengthened, develop and operationalise governance and coordination framework hmlogical<u>rn to address standardization of for monitoring, collection, exchange,</u> management and interoperability of assured quality hydrological data, products, and <u>information</u>To <u>Sed</u>improve hydrology infrastructure and communication particularly flood and drought data and forecasting systems to improve early warnings <u>from regional</u>, national and communities levelsto last mile connectivity.
- To improve collection, management, interoperability and use of quality assured hydrological data to support hydrology products and services.
- To strengthen collaboration among hydro-meteorological services, disaster management agencies, government, and relevant stakeholders to better manage water resources and develop a tailored flood and drought early warning systems.
- To strengthen the capacity of NHSs through accredited trainings/qualifications at the national and regional levels.
- To enhance user requirement processes and development of knowledge management products for public awareness and outreach at all levelss.

Project / Programme Components and Financing:

Each of the Project Components will be implemented in each of the 4 selected countries mentioned.

Project/Programme Components	Expected Outcomes	Expected Outputs	Amount (US\$)
1. <u>To upgrade and</u> enhance hydrology and water resource operational	1.1 Reduced exposure and strengthened EWS for climate related hazards and threats including at the Regional,	<u>1.1.1</u>	500,000

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⁹-PMC (Pacific Meteorological Council) - https://www.pacificmet.net/pmc

urban-settlements-fiji-highly-vulnerable-climate-change-disaster-risks-2/,

⁴⁴ AF Samoa-https://www.adaptation-fund.org/project/enhancing-resilience-of-samoas-coastal-communities-to-climate-change/. AF Solomon Islands <u>https://www.adaptation.fund.org/project/enhancing-urban-resilience-climate-change-impacts-natural-disasters-</u> honiara-3/,https://www.adaptation.fund.org/project/enhancing-resilience-of-communities-in-solomon-islands-to-the-adverse-effectsdrollare-change-in-agriculture-and-food-security/. AF Fiji-https://www.adaptation.fund.org/project/increasing-resilience-informal-

¹⁰ <u>https://hydrohub.wmo.int/en/projects/Pacific-HYCOS</u>

infrastructure and monitoring systems for improved resilience to hydro-met hazardsHydrology and water resource hazards and threats	national and community levelsReduce exposure and strengthened EWS for climate related hazards and threats including at the Regional, national and community levels. 1.2 Improved hydrological infrastructures and systems monitoring infrastructures and forecasting systems to-support NHSs' accessing and other related services ada other related services dta, information, and products at the regional and national levels. actional and national levels. services services	<u>1.1.2</u> Targeted population groupscommunities are provided with adequate drought, flood <u>/_and</u> inundation <u>hazard and</u> risk reduction systems and information products_ <u>s</u>	1,320,000	Formatted: Justified
	1.3 Strengthened infrastructure and systems to disseminate, receive and exchange hydro-met and other related data, information and services between NHSs and communities at national level and among communitiesEWSs for Flood and Drought Forecastingat_the national andcommunities'		4	Formatted: Justified
	regional <u>levels.to enhance EWS</u>	<u>1.1.3</u> Targeted population groups_communities are better responding/prepared to discuss, develop, implement, and sustainably managemanage, and sustain their community-based adaptation measures / responses to flooding / inundation_n and_and droughts_		Formatted: English (United States)
		1.2.1 Measuring, monitoring, collecting, data rescue, quality control, archiving equipment and systems such asUpdate and Upgrade telemetry systems and databases, taking into consideration community-based methods such as with community TKtraditional knowledge components for hydrology data incorporatedsuch as groundwater, river flows and levels and other related data implemented.and establish—Dadata sharing	2,000,000	Formatted: Justified, Position: Horizontal: Left, Relative to: Margin, Vertical: 0", Relative to: Paragraph, Horizontal: 0.13", Wrap Around

		arrangementsArrangements for sharing of data between NMSs and NHSs Ss are established at the nationally and regionally level, and between NHSs and relevant regional / global institutions sush as WMO, SPREP and SPC, are established		
		1.2.2 – EWSs for floodsing / inundation and droughts designed gned, built on, coordinated, and implemented with existing systems and institutions for selected river	2000,000	Formatted: Justified, Position: Horizontal: Left, Relative to: Margin, Vertical: 0", Relative to: Paragraph, Horizontal: 0.13", Wrap Around
		catchments and communities: <u>Appropriate equipment and</u> <u>systems implemented in</u> <u>communities to for better</u> <u>access to impact based</u> <u>warnings and have these well- established connection and</u> <u>coordination with NHSs</u> ; <u>NDMOs and other relevant</u>		
		national agencies.through relevant National Authorities. 1.3.1. Communication systems such as Mobile Appslication Community Early Warning and Response Control Control Control Control Control Control		Formatted: Justified, Position: Horizontal: Left, Relative to: Margin, Vertical: 0", Relative to: Paragraph, Horizontal: 0.13", Wrap Around
		System (EWRS) and Cell Broadcasting to support EWSs for floodings/, inundation, droughts and other related hazards implemented.	820,000	
2. To strengthen communication and awareness on the applications and benefits of	2.1 Strengthened awareness, ownership and responses to climate related hazards at regional and national scales	2.1.1 Strengthened capabilities and systems to collect, analyse, manage and disseminate hydrological and hazard information.	400,000	Formatted: Font color: Light Blue
hydrological data and products	-2.12-Enhanced capabilities of NHSs to analyze hydro-met and other related data, information, and products and develop hazards / impact-based information, forecasting, and warnings for adaptation measures / responses toincluding EWSs for floods and drought.	2.1.2 Improved knowledge and learning products for <u>NHSs</u> through development of knowledge materials through the WMOand utilizing the HydroHub / Community of <u>Practices for Hydrometry to</u> <u>allow NHSs and others to</u> <u>exchange and share</u> knowledge and experiences.	200,000	

		2.2.1 NHSs have accessed to	800,000	
	2.23 Strengthened ownership -of	local scale ground-based		Formatted: Font color: Light Blue
	adaptation me _ climate risk	data, global / regional-scaled		
	reduction processes at	remotely sensed satellite data,		
	village/provinc_to_ial_level	global / regional weather and		
	discuss, design, implement,	climate models, global / region		
	manage, and sustain	/ basin-scaled hydrological		
	communities based designed	data; to enhanceand		
	adaptation measures /	IBFImpact based EWSs for		
	responses including EWSs for	floodsing / inundation and		
	floods and droughtin- the	droughts, hydrological		
	selected communities through localised tangible adaptation	seasonal forecasting, prediction of seasonal water		
	neasures	resources and flow of major		
	measures	rivers implemented.		
	Enhanced capabilities of NHSs	<u>Invers implemented.</u>		
	to access data and analyse	2.3.1 Targeted		
	hvdro-met hazards for improved	populationcommunities	800.000	Formatted: Justified, Position: Horizontal: Left, Relative
	warning messages	groupsparticipation in	000,000	to: Margin, Vertical: 0", Relative to: Paragraph,
	disseminated.	adaptation and risk reduction		Horizontal: 0.13", Wrap Around
	disserminated	awareness activities relating		Formatted: English (United States)
		to hydrology, and water		
	1	resources, weather and		
	1	climate, and impacts		
		livelihoods to implement		
		theed through the Community-		
		Based Early Warning System		
	1	(CBEWS) mechanism to		Formatted: Font color: Red
	1	enhance climate resilience, to		
	1	enable communities to		
		discuss, identify, design and		
		implement community based		
		innovative ideas, methods,		
		strategies and initiatives such		
		as livelihoods and traditional		
		knowledge for resilience to floodings / inundation and		
		droughts.		
3. To improve capacity	Strengthened capacity of	2.1 Improved Connectivities	1.850.000	
and knowledge of	stakeholders to address and	3.1 Improved Capacity for	500,000	
decision-makers and	respond to hydrometeorological	NHSs staff through	300,000	
users of hydrological	hazards and threats	recognised trainings and		
data and	1.1 Increased adaptive capacity	mentorship programmes with WMOImproved capacity for		
productsCapacity	of NHSs and village/provincial	NHSs staff through		
development	communities to hydro-met	recognised trainings and		
	hazards and risks induced by	mentorship		
	climate change	mentorship		
		3.2 Professional and technical		Formatted: English (United States)
		training to NHSs personal in		
		hydrology and water	1,000,000	
		resources provided by		
		accredited institution(s); and		
	L			

		NHSs are trained to produce seasonal hydrology prediction, understanding and seasonal prediction of water resources and flow in major river catachments.		
		<u>3.3</u> Enhanced capacity of communities through training and consultations for preparedness and responses to floodsing / inundation and droughts warnings_at national level through trainings and consultations	<u>800,000</u>	
4. <u>To ensure effective</u> and coordinated hydrology policy and legislationPolicies, legislations and regulations	Improved policies, legislations, regulations and coordination that promote and enfirce resilience measuressty 4.1 Strengthened institutional framework and capacity of national hydrology / water	4.1.1 Improved integration of surface and groundwater hydrology and water resource management strategies into country development plans, legal frameworks and related policies	1,500,000 <u>200,000</u>	
	sectors to integrate disaster risk resilience into hydro-met related policy frameworks, processes and measures / responses. 4.2 Strengthened regional hydro- met-framework for hydrological	4.1.2 Develop-NHSs National Hydrological Services Sstrategic plans and / or business plans for the pilot countries with associated action/operational plans in line with World Water Data	<u>250,000</u>	
	services to promote coordination,-and-collaboration, and-standardiszation, exchanging, operatable of assured quality hydrological data and information globally and regionally,	Initiative, HYCOS?? . The plan will include strengthening NHSs working relations withwith other national government agencies, provincial governments and communities.	<u>100,000</u>	Formatted: English (United States)
		4.2.1 Develop a-Rregional Fframework for Hhydrological Sservices to strengthen regional coordination with of hydrological services and water resources management, and otherengagement with	<u>150,000</u>	
		regional bodies-water utilities and authorities.that will assist the work of the Hydrology Panel under the Pacific Meteorology Council 4.2.2. Support to the PMC- PHSPacific Meteorological Council (PMC) Panel for Hydrology Services, and		

	transition to potential Pacific Hydrological Council (PHC) or equivalents established. Establish agreements between the Meteorology and				
	Hydrology services for data sharing				
5. Project/Programme Execution cost (9.5%)					
6. Total Project/Programme Cost					
7. Project Cycle Management Fee charged by the Impleme	1,093,631				
Amount of Financing Requested		13,959,881			

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Project Duration: 5 years (60 months)

PART II: PROJECT / PROGRAMME JUSTIFICATION

Project Components

The project has four components that will focus on achieving the following: The project has four components that will focus on achieving the following: (i) To upgrade and enhance hydrology and water resource operational infrastructure and monitoring systems for improved resilience to hydro-met hazards; (ii) To strengthen communication and awareness on the applications and benefits of hydrological data and products; (iii) To improve capacity and knowledge of decision-makers and users of hydrological data and products; and (iv) To ensure effective and coordinated hydrology policy and legislation. The details on the specific outcomes and outputs are highlighted in the table above. The design the project to have national and regional specific outcomes as well as outputs so to differentiate on the specific needs as a region and as an NHS. The final component will be the Project Management Unit that will provide project oversight. coordination. M&E and reporting responsibilities in line with WMO and AF standards. The project will also establish a Project Steering Committee.

(i) To ensure effective and coordinated hydrology policy and legislation; (ii) To upgrade and enhance hydrology and water resource operational infrastructure and monitoring systems for improved resilience to hydro met hazards<u>Component 1 — The objective of</u> this component is to support the installation, operation and maintenance of observing and forecasting ;infrastructures for monitoring hydrological hazards including rapid and slow onset events. This will build on the _WMO Pacfic HYCOS Framework. It will expand on existing monitoring networks for hydrological stations, develop regional and national databases to manage data quality and improve ICT infrastructures for data transmission. And improve understanding of risks associated with hydromet hazards. <u>Component 2</u> (iii) To strengthen communication and awareness on the applications and benefits of hydrological data and productsgervices and build on community based <u>EWS activities;</u>, establish working agreements between NMSs on data sharing nationally and regionally and implement HydroSOS.and Formatted: English (United States)

- (iv) To improve capacity and knowledge of decision-makers and users of hydrological data and products.<u>Component 3 - The Objective of this component is to strengthen</u> regional institutions and capacities to complement and support national efforts to establish operational EWSs. Through training on prediction products, certifications on specialised trainings and related capacity building activities for communities, NHSs and Regional Technical partners.
- Component 4 This component aims to strengthen policy, legal and regulatory frameworks on Hydrology at the national and regional level.
- The last component is on Project management, Monitoring and Evaluation. This component will support the Project Management Activities including oversight, coordination, monitoring, financial management and evaluation in line with WMO policies as well as AF standards. This includes the establishment of a Project Management Unit accountable for overall project Management, a project Steering Committee and National Level Project Management Units.

Innovative Solutions

The project will be the first in the Pacific Region to establish a regional framework and platform for Hydrological spediscussions with the intention to raise its profile and establish relevant hydrology and water governance for the region. It will-Uutilise PMC--PHS to strehtenstrengthen and-coordiantion of . It will be a centralisedcentralized mechanism that will mirror the setup of the Pacific Meteorological Council with the aim to bring together hydrology, water resources (IWRM), sanitation and Hygiene (WASH), water authorities and, independent water schemes.eThis will improve the coordination and data sharing amongst national and regional institutionsinstitutions and move away from working in silos. It will also build on the Panel of Hydrology that has been established under the PMC and allow for this panel to. This coordination will be demonstrated through the WMO HydroSOS-platform,

WMO will implement the HydroSOS¹² under the guidance of the PMC through the Hydrological Panel with the goal to raise the profile of hydrology in the PMC and appropriate water governance schematics at the national levels, that HydroSOS will bring together NMHSs13, disaster managersment agencies, policy makers and relevant stakeholders to improve the provision of reliable, timely, accurate and relevant hydrological status assessments and outlook products to inform water resources management<u>and at the same time bridge the information gap between</u> locally informed hydrological and information products and those developed globally. It should also address a lesson learned highlighted by the HYCOS Pacific Project on new technology and instrumentation support i.e.ability of national hydrology services to access technical support remotely for troubleshooting. HydroSOS will be delivered by NMHSs, offering accessible hydrological information to users such as government bodies, funding institutions, aid agencies, UN agencies and the public. HydroSOS is a valuable approach to help NMHSs and relevant stakeholders to develop localised solutions for hydrological products and informed decisionmaking. It is connected to other WMO initiatives such as HydroHub¹⁴/WHYCOS¹⁵ and WHOS¹⁶.

Cost Efficiency and Effectiveness

The project will enhance hydrological services in the four participating countries significantly. The investment will directly address financial, technical, capacity and coordination barriers to the effective delivery of hydrology services in the participating countries. A CBA¹⁷ will be conducted to identify and assess costs and benefits of proposed interventions for each participating country.

17 CBA (Cost Benefit Analysis)

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¹² HydroSOS (Hydrological Status and Outlook System)<u>https://public.wmo.int/en/resources/bulletin/hydrosos-%E2%80%93-</u>

Hydrological-status and outlook aventime and outlook of status (https://public.wine.in/contention outlook of status and hydrological-status and outlook-system
 ¹⁴³ NMHSs (National-Meteorological and Hydrological Services)
 ¹⁴⁴ HydroHub (VMMO Global Hydrometry Support Facility) – <u>https://hydrohub.wmo.int/en/home</u>
 ¹⁵ WHYCOS (World Hydrological Cycle Observing System)

¹⁶ WHOS (World Hydrological Observing System - https://public.wmo.int/en/our-mandate/water/whos

A feasibility assessment of such investment will also be conducted at the concept proposal development stage. The project will build on existing hydrological monitoring infrastructure, strengths, and planned actions such as institutional capacity building which will be developed in an efficient, cost-effective, and complementary manner. The selected countries NHSs will take ownership of systems built in the project after the completion and will be required to allocate sufficient resources for maintenance. The idea of a regional project is to establish a baseline on hydrology and meteorology needs and expectations from the region as well as capture lessons that can assist national governments with their direct national project proposals

Consistency with Sub-National, National, Regional and International Strategies

This project is aligned with national priorities in adaptation to climate change such as their development and water strategic plans, national climate change policies mentioned previously, NDCs and NAPs. It will also address the countries DRR priorities as outlined in the FRDPwil. <u>Strengthened disaster preparedness, response and recovery is one of the three key strategies of</u> the FRDP, as endorsed by the Pacific leader at the Pacific Island Forum in September 2016.I The first Pacific Ministerial Meeting on Meteorology recognized the importance of Hydro-Meteorological services in support of protection of life and property and improving the safety and security of the region. Ensuring consistency with national and regional strategic frameworks is important so to enhance ownership and commitment of the project pilot countries, Furthermore, The pilot countries will be involved in the development of the project concept to enhance ownership of the project and ensure the activities are driven by country needs and priorities. At a Regional level, the project will assist countries in achieving their commitments to S.A.M.O.A PathwayS.A.M.O. A¹⁸ Pathway and SDGs Goal 6,9, 13 and 17. NHSs enactment of PIMS 2017-2026¹⁹ contributes to the regionally led FRDP²⁰_PMC²¹ Panels' Action PlansPacific Islands Meteorological Strategy 2017-2026, WMO Strategic Plan 2020-2030, RA V Operation Plan, Weather Ready Pacific- A Decadal Program of Investmentthe Weather Ready Pacific Decadal Programme of Investment²², and the Pacific Roadmap for Strengthened Climate Services 2017-2026the Pacific Roadmap for Strengthened Climate Services 2017-202623. In addition, it will assist Governments to achieve specific targets under their respective national development strategic plans²⁴. Globally, PIMS addresses Government's adaptation commitments under the Paris Agreement (NDC²⁵), WMO Strategic Plan 2020-2023²⁶ and the RA V²⁷ Operational Plan. The hydrological information system, underpinned by hydrological data sharing, meteorological forecasts and climate prediction information with advances from the global research community will support the 2030 Agenda for Sustainable Development and, the broader global community in water management. The project brings added value to existing and ongoing projects in the scope of integratingion-hydro-met information to EWS and builds on the success of other adaptation programs/projects nationally and regionally implemented including Pacific HYCOS Project, UNEP GCF Project, GCF Van-KiRAP, CREWS Pacific SIDs Project, PACC and the SPREP One Pacific Programme in the pipeline. The project will also take onboard the recommendations highlighted in the "Pacific Countries and Territories-Hydrological Capacity Assessment and Needs" Report,

⁴⁸ S.A.M.O.A (SIDS Accelerated Modalities of Action) - https://sustainabledevelopment.un.org/samoapathway.html ⁴⁹ PIMS 2017-2026 (Pacific Island Meteorological Strategy 2017-2026)

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²⁰ FRDP (Framework for Resilience Development in the Pacific

 ²⁴ PMC (Pacific Meteorological Council) – https://www.pacificmet.net/pmc/expert-panels
 ²⁴ Weather Ready Pacific – Decadal Investment Program (<u>https://www.pacificmet.net/sites/default/files/inline-</u>

files/documents/Weather%20Ready%20Pacific%20-

^{%20}Decadal%20Program%20of%20Investment%20Executive%20Summary_0.pdf)

²³ Pacific Roadmap (<u>https://www.pacificmet.net/sites/default/files/inline-files/documents/PMC-4%20WP%2024.1%20Att%201%20-</u> %20Pacific%20Roadmap%20for%20Climate%20Services.%20doex.pdf)
²⁴ Solomon Islands (<u>https://solomonislands-data.sprep.org/dataset/national-development-strategy-2016-2035)</u>, Fiji

⁽https://www.fiji.gov.fi/About_Fiji/National-Development-Plan), Vanuatu (https://www.gov.vu/indox.php/resources/vanuatu-2030),

amoa (https://www.mof.gov.ws/wp-content/uploads/2021/03/Samoa-2040-Final.pdf) ²⁵ NDC (National Determined Contributions

²⁶ https://library.wmo.int/doc_num.php?explnum_id=9939

²⁷ RA V (WMO Regional Association V (South-West Pacific)

2019. The Pre-Concept will be piloted in the selected countries under AF with the rest of the Pacific Islands covered under a sister project proposal currently in the pipeline to the GCF for approval via SPREP, 'Climate Information and Early Warning Systems, One Pacific Programme'.

Consultative Process

Through the PMC-PHS-Panel for Hydrological Services (Chair and the selected countries), the NHSnational hydrological country focal points identified in the commitment letters, AF NDAs were all consulted virtually on the pre-concept content. Including the regional technical partnersThe regional agencies like SPREP and SPC.C were also consulted on the pre-concept note. During the concept preparation and project design, a stakeholder engagement will be conducted is to be undertaken to identify key regional and national stakeholders including community representatives, NGOs and private sector. This is to, assess their roles and responsibilities during relevancy in the project and define their roles and responsibilities in the project implementation. and-most importantly to capture and address their needs, concerns and any TKtraditional knowledge that surrounds hydrometeorology. The project builds on existing institutions and there will be buy-in from countries focal points. The consultation and participatory process will take into consideration gender, TK, traditional knowledge and cultural aspects. The project will contribute to strengthening and enhancement of the involvement of women and young professionals across the project in all facets of hydrology to improve the gender and age distribution. The technical partners will also be consulted on their specialised areas and capacities for the NHSs through the PMC-PHS

Economic, Social and Environmental Benefits

The scope of the project will advance the operation of NMHSs in the selected countries with some community-based activities which will strengthen the self-help capabilities and resilience to the climate extremes. This will eventually to improve livelihoods, access to clean water and advancing their early warning response mechanisms to hydro-met related hazards through community-based warning dissemination channels, response support to vulnerable groups, identification of safer zones, coordination and collaboration with local agencies and stakeholders. The project is a Category B (to be assessed during the preparation of the CN)B32 in accordance with AF classification and should not have any negative impacts on the environment, livelihoods of people and economic developments. A full screening of AF ESS²⁸ and gender principles will be completed at the next stage to ensure compliance with the AF requirements.

Leveraging achievements from other funding sources

The project will upscale and complement results and lessons learned from Pacific HYCOS 2006-2010 projects highlighted in the "Pacific Countries and Territories Hydrological Capacity Assessment and Needs" Report, 2019. This will be piloted in the selected countries under AF with the rest of the Pacific Islands covered under a sister project proposal currently in the pipeline to the GCF for approval via SPREP, 'Climate Information and Early Warning Systems, One Pacific Programme'. The participating countries are encouraged to utilise national AF allocations with accredited agencies to further sustain and build on from regional activities proposed under this proposed project. There is also the potential to upscale and complement activities established and implemented under UNEP GCF project²⁹, GCF Van KiRAP³⁰, CREWS³⁴ Pacific SIDS Project, with relevant project components and activities including the day to day work of NMHSs. *Justification for Funding Requested* **Commented [TT4]:** JB to confirm that this is the correct category. We are assume we are Cat B

²⁸ ESS (Environment and Social Safeguard)

²⁹ UNEP GCF Project, 'Enhancing Climate Information and Knowledge Services for Resilience in 5 Island Countries of the Pacific Ocean (<u>Prodoc</u>). Cock Islands, Nue, Paluu, the Republic of the Marshall Islands and Tuvalu. ²⁰ GCF Vanuatu (https://www.greenclimate.fund/oroiect/f0035)

^{**} CREWS Project (<u>https://www.crews-initiative.org/en/projects/crews-pacific-sids-%E2%80%93-strengthening-hydro-meteorological-and-early-warning-systems-pacific)</u>

The proposed project with a budget of USD 13,959,881 aims to contribute to adaptation strategies, through investment in combination of infrastructures and non-structural measures to improve preparedness, build awareness of best practices and behaviour change among practitioners, policymakers and communities to support and sustain in the long term the actions undertaken in the development of its activities, both within countries and at the regional level. **Sustainability**

The project will institutionalise the integration of <u>hydrometeorological surface and groundwater</u> hydrology priorities in to existing national frameworks. It will also follow the same mechanism planned under the CREWS Pacific Project for formalising support agreements between the RSMC-Nadi and the Pacific Countries it serves. Similarly, for the Hydrology community at the National and Regional level will establish data sharing agreements with the purpose of strengthening early warning systems, this will assist in the project sustainability in the scope of improving data analysis, modelling and accurate information for the people. This will embed the actions and deliverables from this project to the pilotarticipating country activities including knowledge management and awareness programmes.⁻

PART III: IMPLEMENTATION ARRANGEMENTS

The AF will provide resources to WMO as the Implementing Entity in line with the Α. accreditation agreement to mobilise the project with a Project Manager to be based in the WMO Representative Office for the South-West Pacific, in Apia. WMO will enter into agreement with a consortium of national and regional partners to execute the project. The executing agencies include the -Fiji Ministry of Infrastructure and Meteorological Services, Samoa Ministry of Natural Resources and Environment, Solomon Islands Ministry of Environment, Climate change, Disaster Management and Meteorology and Ministry of Mines, Energy and Rural Electrification and the Vanuatu Ministry of Environment, Climate Change, Meteorology, Geohazards, Environment, Energy and National Disaster Management, national focal points identified in the endorsement letters,-SPREP, and SPC and as well as WMO.O, will implement specific project components and activities in collaboration with the NMHSs or line-ministries, disaster management agencies and targeted communities to be identified during the concept stage. WMO as the accredited entity, will provide general oversight for the preparation, implementation and management of the project including monitoring and financial management to ensure consistency with its project management policies and procedures as well as AF fiduciary standards. For this purpose a project implementation unit will be established to manage on a day to day basis, track progress, coordinate all activities and liaise with partners etc. The National focal points will execute activities pertaining to community awareness and EWSs as well as any sector priorities, SPC and SPREP will provide the regional technical trainings and adviceadvise to the National Focal Points so to align with Regional Priorities in the PIMS at the PMC level through its Hydrology Panel. Due to the nature and scope of the project, WMO will also executinge project activities through its Technical Department, this is so the national pilot countries align their activities in accordance with the WMO standards on Hydrology as well as assist the region to establish a hydrology framework to guide the work of the region. A Project Steering Committee (PSC) will be established to oversee the project implementation and provide oversight and f overall guidance and direction to the Project Manager and executing agencies. The PSC will be responsible for the approval of all major revisions in the project strategy and implementation approach, annual workplans, and M&E³² Plans. The composition will be representatives from the 4 pilotselected countries including NMHSs, NDMOs and NDAs to AF or relevant national agencies, SPREP, SPC, WMO, technical partners and donors confirmed at Concept Stage. It is important to note that local community

³² M&E (Monitoring and Evaluation)

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engagement is key to the successful implementation of the project and will therefore be involved in the consultations and project planning exercises in the selected participating countries.

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PART IV: ENDORSEMENT BY GOVERNMENTS AND CERTIFICATION BY THE IMPLEMENTING ENTITY

A. Record of endorsement on behalf of the government³³ Provide the name and position of the government official and indicate date of endorsement for each country participating in the proposed project/programme. <u>(Revised endorsement letters will be submitted by September 9, 2022)</u>

(Enter Name, Position, Ministry)	Date: (Month, day, year)
(Enter Name, Position, Ministry)	Date: (Month, day, year)
(Enter Name, Position, Ministry)	Date: (Month, day, year)
(Enter Name, Position, Ministry)	Date: (Month, day, year)

B. Implementing Entity certification

I certify that this proposal has been prepared in accordance with guidelines provided by the Adaptation Fund Board, and prevailing National Development and Adaptation Plans (Republic of Fiji National Adaptation Plan, Samoa National Adaptation Programme of Action, Solomon Islands National Adaptation Programme of Action, and the Republic of Vanuatu National Adaptation Programme of Action) -(.....list here....) and subject to the approval by the Adaptation Fund Board, commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.

Jean-Paul Gaudechoux Head Regional Strategic Division Member Services and Development Department Implementing Entity Coordinator

Each Party shall designate and communicate to the secretariat the authority that will endorse on behalf of the national government the projects and programmes proposed by the implementing entities.

Date: (Month, Day, Year)	Tel. and email:+41795144261	
Project Contact Person: Lina Sjaavik		Formatted: Swiss German (Switzerland)
Tel. And Email: <u>Isjaavik@wmo.int</u>		Formatted: Swiss German (Switzerland)



MINISTRY OF ECONOMY

P.O.Box 2212, Government Buildings, Suva, Fiji; Tele: (679) 330 7011, Fax: (679) 330 8654 Website: www.economy.gov.fj, Email: Economyinformation@economy.gov.fj Ro Lalabalavu House, 370 Victoria Parade, Suva

8 September 2022

Email: Secretariat@Adaptation-Fund.org

The Adaptation Fund Board c/o Adaptation Fund Board Secretariat

Dear Secretariat,

Endorsement for Pre-Concept on Regional Programme for Integrating Flood and Drought Management Early Warning for Climate Change Resilience in the Pacific

- 1. In my capacity as designated authority for the Adaptation Fund in Fiji, I confirm that the above regional project/programme proposal is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Fiji and the Pacific.
- 2. The outcome of the proposal complements key areas of Fiji's Climate Change Act, Fiji's National Development Plan, the National Climate Change Policy, National Adaptation Plan, Fiji's National Climate Finance Strategy.
- 3. Accordingly, I am pleased to endorse the above project/programme proposal with support from the Adaptation Fund without affecting Fiji's national allocation to the Adaptation Fund. If approved, the project/programme will be implemented by the World Meteorological Organization (WMO) and executed by the Ministry of Infrastructure and Meteorological Services, the Secretariat of the Pacific Regional Environment Programme (SPREP), and the Pacific Community (SPC) and WMO.
- 4. Please note that this Letter of Endorsement ('LoE') applies to the Concept Note Only. We will issue a subsequent LoE to the accredited entity for the implementation of the project upon receipt of a Full Funding Proposal. This will also be subject to a comprehensive review from the Fiji Climate Finance Sectorial Working Group.
- 5. For any enquiries, please contact Mr. Prelish Lal on email via prelish.lal@govnet.gov.fj.

Sincerely

Mr. Shiri Gounder Permanent Secretary for Economy (AF DA)



GOVERNMENT OF THE INDEPENDENT STATE OF SAMOA Ministry of Foreign Affairs and Trade

Postal: P.O. Box L1859 Apia, Samoa Tel. No.: (685) 21-171 Fax No.: (685) 21- 504 Our Ref: Your Ref: Please address all correspondences to The Chief Executive Officer

7th September 2022

TO: The Adaptation Fund Board c/o Adaptation Fund Board Secretariat Email: <u>Secretariat@Adaptation-Fund.org</u> Fax: 202 622 32405

Dear Secretariat,

Endorsement of the Pre-Concept on Regional Programme for 'Integrating Flood and Drought Management and Early Warning for Climate Change Resilience in the Pacific.

In my capacity as the Chief Executive Officer of the Ministry of Foreign Affairs and Trade; the designated authority for the Adaptation Fund in Samoa, I confirm that the above project/programme proposal is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Samoa

Accordingly, I am pleased to endorse the above project/programme proposal with support from the Adaptation Fund. If approved, the project/programme will be implemented by the World Meteorological Organization (WMO) as the Implementing Entity and executed by the Ministry of Natural Resources and Environment, the Secretariat of the Pacific Regional Environment Programme (SPREP) and the Pacific Community (SPC) and WMO.

The Government of Samoa looks forward to the favourable consideration of this project proposal, to support the advancement of National Hydrological Services and water resources information management in Samoa. For more information, please do not hesitate to contact Fraces Brown-Reupena (<u>fran.reupena@mnre.gov.ws</u>) and Malaki Iakopo (<u>malaki.iakopo@mnre.gov.ws</u>) of the Ministry of Natural Resources and Environment.

Yours sincerely,

Peseta Noumea Simi Chief Executive Officer Designated Authority





SOLOMON ISLANDS GOVERNMENT

MINISTRY OF ENVIRONMENT, CLIMATE CHANGE, DISASTER MANAGEMENT & METEOROLOGY

P O BOX 21, HONIARA, SOLOMON ISLANDS

7th September 2022

To: The Adaptation Fund Board c/o Adaptation Fund Board Secretariat Email: Secretariat@Adaptation-Fund.org Fax: 202 522 3240/5

Dear Secretariat,

Subject: Endorsement for Pre-Concept on Regional Programme for Integrating Flood and Drought Management and Early Warning for Climate Change Resilience in the Pacific

In my capacity as designated authority for the Adaptation Fund in Solomon Islands, I confirm that the above regional project/programme proposal is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Solomon Islands and the Pacific.

Accordingly, I am pleased to endorse the above project/programme proposal with support from the Adaptation Fund. If approved, the project/programme will be implemented by the World Meteorological Organization (WMO) and executed by the Ministry of Environment, Climate Change, Disaster Management and Meteorology and Ministry of Mines, Energy and Rural Electrification, the Secretariat of the Pacific Regional Environment Programme (SPREP), and the Pacific Community (SPC) and WMO.

Sincerely,

Chanel Iroi Deputy Secretary Technical Designated Authority to the Adaptation Fund GOVERNMENT OF THE REPUBLIC OF VANUATU MINISTRY OF CLIMATE CHANGE ADAPTATION, METEOROLOGY, GEO-HAZARDS, ENVIRONMENT & ENERGY & NDMO PMB 9074, PORT VILA VANUATU



GOUVERNEMENT DE LA RÉPUBLIQUE DE VANUATU MINISTÈRE DE L'ADAPTATION AU CHANGEMENT CLIMATIQUE, LA MÉTÉOROLOGIE, LES RISQUES GÉOLOGIQUES, ENVIRONNEMENT & ENERGIE & NDMO SPR 9074, PORT-VILA, VANUATU

Tel: (678) 22068

Ref: PV/MoCC/NAB/PROJ-AFB:4.A.1

Website: www.mocca.gov.vu

8th September 2022

To: The Adaptation Fund Board c/o Adaptation Fund Board Secretariat Email: Secretariat@Adaptation-Fund.org Fax: 202 522 3240/5

Dear Secretariat,

Sincerely

Subject: Endorsement for Pre-Concept on Regional Programme for Integrating Flood and Drought Management Early Warning for Climate Change Resilience in the Pacific

In my capacity as designated authority for the Adaptation Fund in Vanuatu, I confirm that the above regional project/programme proposal is in accordance with the government's national priorities in implementing adaptation activities to reduce adverse impacts of, and risks, posed by climate change in Vanuatu and the Pacific.

Accordingly, I am pleased to endorse the above project/programme proposal with support from the Adaptation Fund. If approved, the project/programme will be implemented by the World Meteorological Organization (WMO) and executed by the Ministry of Environment, Climate Change, Meteorology, Geohazards, Environment, Energy and National Disaster Management in Vanuatu, the Secretariat of the Pacific Regional Environment Programme (SPREP), and the Pacific Community (SPC) and WMO.

Esline Garaebitt <u>GUIOUE</u> DE Director General, Ministry of Climate Change Director General, Ministry of Climate Change Designated Authority to the Adaptation Fund



Project Formulation Grant (PFG)

Submission Date: 5 August 2022

Adaptation Fund Project ID:

Country/ies: Fiji, Samoa, Solomon Islands and Vanuatu

Title of Project/Programme: Integrating Flood and Drought Management and Early Warning for Climate Change Resilience in the Pacific Islands

Type of IE (NIE/MIE): Multilateral Implementing Entity

Implementing Entity: World Meteorological Organization (WMO)

Executing Entity/ies: World Meteorological Organization (WMO), Secretariat of the Pacific Regional Environment Programme (SPREP) and Pacific Community (SPC).

A. Project Preparation Timeframe

Start date of PFG	January 2023
Completion date of PFG	April 2023

B. Proposed Project Preparation Activities (\$)

Describe the PFG activities and justifications:

Describe the FFG activities and	justifications.	
List of Proposed Project	Output of the PFG Activities	USD Amount
Preparation Activities		
Scoping/Desktop Review		
Collect/compile relevant	An inception report including	5,000
documents and data such	a list of documents, data and	
villages / communities,	information that will inform	
provinces, districts, and	the development of the	
national plans, legislation,	concept note.	
regulations and policies,		
assessments, demographic		
and socioeconomic		
information, previous project		
evaluations, other ongoing or		
proposed project documents that will inform the		
development of the concept note		
Proposed project		15,000
 scope/contents Review and validate the 	A draft concept note that	15,000
 Review and validate the pre-concept note 	incorporates the results from	Proposing that all workshops
document and the results	the desktop review including	will be virtual
from the the desktop	a ToC and detailed logical	
review	framework and budget	
 Develop a Theory of 	estimates.	
• Develop a Theory of Change (ToC) and a draft		

 Logical Framework to clearly outline the proposed project interventions (these include problem and objective trees) Develop a project budget estimate Convene virtual workshop(s) to include key stakeholders in the review, validation and development of the ToC and logical framework 	
Total Project Formulation Grant	20,000

C. Implementing Entity

This request has been prepared in accordance with the Adaptation Fund Board's procedures and meets the Adaptation Fund's criteria for project identification and formulation

Implementin g Entity Coordinator , IE Name	Signature	Date (Mont h, day, year)	Project Contact Person	Telephone	Email Address
Jean-Paul Gaudechou x,	Carried	5 Augus t 2022	Jean-Paul Gaudecho ux	+412273083 11	jpgaudechoux@wmo. int
Office for Resource Mobilization and	CFU		and	+417795900	LSjaavik@wmo.int
Developme nt Partnership s			Sjaavik	05	