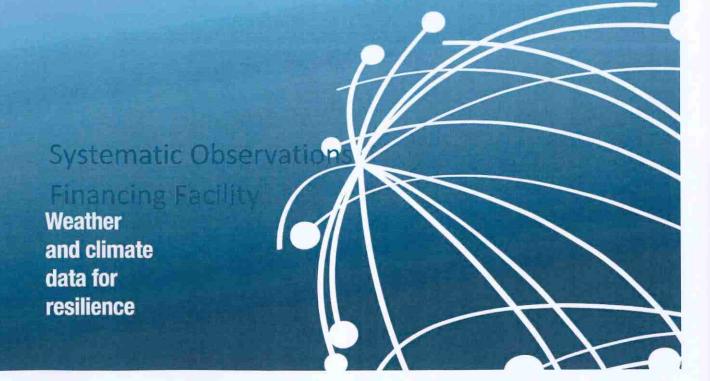


# SOFF Readiness Funding Request

Country: Vanuatu

Version 2.0

April 2023





# **SOFF Readiness Funding Request**

The funding request should be prepared by the SOFF beneficiary country in collaboration with the SOFF peer advisor in coordination with the prospective SOFF Implementing Entity. In case of questions on how to complete this template, please contact the SOFF Secretariat at: soffsecretariat@wmo.int.

The SOFF Readiness Funding Request template includes the following sections:

- 1. Basic information
- 2. SOFF Programming criteria
- 3. Readiness phase outputs, timeline and budget
- 4. Monitoring
- 5. Readiness Phase Risk Management Framework

The Assignment Terms of Reference are included in Annex 1.



#### General recommendations to fill in in the template

**Section 2. Programming criteria:** Please make sure that you provide clear but succint information to relevant to the programming criteria. This is an essential requirement for the submission of the funding request to the Steering Committee.

• GBON gap and easy fixes: Please be aware of the limitations of SOFF scope of support. SOFF only supports GBON standard density and surface and upper-air stations over land. However, SOFF does encourage peers and beneficiary countries to during the Readiness phase look at the situation of GBON high-density networks (for those countries that already have them) and marine stations for potential easy fixes opportunities via SOFF support or other future support. We encourage beneficiary countries and peer advisors to ensure that the readiness funding request focuses on the areas of work related to SOFF scope of support to avoid misinterpretations and wrong expectations for the Investment and Compliance phase. For more guidance and details on SOFF scope of support, please see the GBON National Gap Analysis and the GBON National Contribution Plan technical guidance documents.

The information provided on the GBON Gap, and the easy fixes should be high-level, as the details are expected to be scoped out during the Readiness phase. Please avoid excessively detailed information on how many stations to rehabilitate/install.

 Maximize delivery capacity: Please clearly state any ongoing or planned activities in the country for which the peer advisor receives funding from other sources. This is a mandatory requirement, as per Assignment Agreement 5.4. If there are none, please explicitly state so.

**Section 3. Budget:** The budget is expected to reflect a strict and careful assessment of the costs for the provision of the advisory services, following a cost-recovery approach and abiding to the eligible expenditure categories according to the Umbrella Agreement. While a budget breakdown is not required in the funding request, the SOFF peer advisor must be in a position to provide copies of all the documents, including budget and costing breakdown, including for audit purposes.

**Section 6: Risk management framework** needs to be carefully developed indicating discrete risks and strong mitigation measures.

**Annex 1: Terms of Reference.** The delivery process needs to be described, including indicative timeline of planned activities, workshops, missions, delivery of the outputs and delivery team. Without this, the funding request cannot be submitted to the SOFF Steering Committee.



#### 1. Basic information

SOFF Beneficiary Country	Vanuatu	
Country Focal Point	Mrs Esline Garaebiti	
	DG Ministry of Climate Change and Adaptation	
	Vanuatu Meteorology and Geohazards Department	
Peer advisors	Meteorological Service of New Zealand Ltd (MetService)	
	National Institute of Water and Atmospheric Research	
	(NIWA)	
Peer advisor Focal Point	Mr James Lunny, WMO Manager, MetService	
Prospective Implementing Entity	World Bank	
Prospective Implementing Entity Focal Point	Tevi Obed, Senior Disaster Risk Management Specialist	
Total budget USD	\$103,965	
Delivery timeframe	August 2023 - January 2024	
Date of approval		

Signature SOFF Steering Committee co-chairs (after Steering Committee approval of the funding request)



### 1. SOFF Programming criteria

Please provide below an initial short description of the application of the SOFF programming criteria in the country.

**Table 1: Programming criteria** 

Close the	Vanuatu h	as proposed the following	stations as their contri	bution to GBON:	
significant	Land Surfa	ace Stations:			
data gaps	Country Station		WSI	Reports/day	
	Vanuatu	ANEITYUM	0-20000-0-91568	4	
	Vanuatu	BAUERFIELD (EFATE)	0-20000-0-91557	8	
	Vanuatu LAMAP (MALEKULA)  Vanuatu PEKOA AIRPORT (SANTO)		0-20000-0-91555	Silent	
			0-20000-0-91554	8	
	Vanuatu	SARATMATA	0-20000-0-91553	4	
	Vanuatu	SOLA	0-20000-0-91551	8	
	Vanuatu	WHITE GRASS AIRPORT	0-20000-0-91565	8	
	Upper Air		stored as a CHAN uppe	r air station in	
		(0-20000-0-91557) is reginant surface but has been silent s		all Station in	
	Supplement the current manual observing programme with hourly observations produced in BUFR code from selected AWS already installed in-country.  Support the review and update of OSCAR/Surface with accurate metadata.				
		d refine in-country data tra connectivity to the WIS.	ansfer/communication	systems and	
Maximize delivery capacity	Outline the capacity of the peer advisor and the prospective Implementing Entity to deliver SOFF support efficiently and effectively in the country. <b>State any ongoing or planned activities in the country for which the peer advisor receives funding from other sources.</b> If none, please explicitly state so.				
		urrently supporting the Va /MGD) to install 16 new au			



Weather Stations as part of the GCF-funded Vanuatu Klaemet blong Redy, Adapt mo Protekt (VanKIRAP) Project, implemented by the Secretariat of the Pacific Environment Programme, SPREP.

VMGD is also part of the Pacific Risk Tools for Resilience (PARTneR) project being delivered in Vanuatu with support from NIWA and SPC, funded by New Zealand Ministry of Foreign Affairs and Trade).

NIWA, with GNS Science is also delivering the Multi-hazard disaster risk assessment for Luganville, on the island of Espirito Santo, Vanuatu, funded by Asian Development Bank.

Both peer advisor agencies and the implementing entity have the capacity and skilled personnel that will be available for this SOFF programme work.

# Create leverage

Provide initial indications on opportunities for complementarity of SOFF with previous, ongoing and planned operations by the SOFF Implementing Entities and other funds.

Through V-CAP and Van-KIRAP projects, 8 AWS have been installed and a further 7 have been supplied to be installed this year. These AWS are all GBON compliant and able to report hourly data in near real-time.

All observational data from the new AWS installations will be integrated into the VMGD climate data base (CliDE) to support climate resilience and advisory services in Vanuatu.

SOFF Readiness support would enable validation of Vanuatu's GBON network requirements. The SOFF investment phase funding will complement the activities not covered under CLEWS project by investing in the re-establishment of the upper-air observation programme, and enabling further strengthening of observational capacity in Vanuatu. The SOFF compliance phase will also support long-term sustainability of the CLEWS programme outcomes.

SOFF will also deliver to elements of the Weather Ready Pacific Decadal initiative, and oversight by the Pacific Meteorological Council (PMC) will ensure that these efforts are not duplicated by other initiatives.

The implementing entity has been supporting investment activities to strengthen the multi-hazard early warning systems in Vanuatu and is currently providing a budget support operation aiming at strengthening the country's disaster risk management systems and policies.



Sub- regional gains	Provide initial indications on opportunities to create economies of scale and optimize the design of the observing networks through multi-country/sub-regional SOFF implementation e.g. existing sub-regional cooperation or opportunities for sub-regional procurement and operations and maintenance.	
	The Peer Advisor will work in partnership with other regional SOFF Peer Advisors to coordinate a regional approach to SOFF implementation as requested by Pacific countries, under the guidance of the PMC.	
Ensure country	Indicate if the country is a Small Island Developing State, a Least Developed Country, an ODA-recipient country, a Fragile and Conflict-affected State.	
balance	Vanuatu is a Small Island Developing State and an ODA-recipient country.	

#### 2. Readiness phase outputs, timeline and budget

The Terms of Reference for the development of the SOFF Readiness phase outputs (see Annex I) provide more detailed information. They also summarize the roles and responsibilities, as stated in the <u>SOFF Operational Manual</u>, of the beneficiary country, the peer advisor, the prospective Implementing Entity and WMO Technical Authority for the delivery of the Readiness phase outputs.

The budget for the development of the SOFF Readiness phase outputs by the SOFF peer advisor shall be a lump-sum, fixed cost amount. It shall be calculated using a cost-recovery approach based on the peer advisors' standard cost recovery rates.

Table 2: outputs, timeline and budget

			Tim	eline		
Outputs	Aug 23	Sept 23	Oct 23	Nov23	Dec 23	Jan 24 <sup>1</sup>
National GBON Gap Analysis						
GBON National Contribution Plan						
Country Hydromet Diagnostic (on demand)						

<sup>&</sup>lt;sup>1</sup> It is expected that the assignment is completed within six months. If more time is required for exceptional circumstances, please add additional months to the table.



Total budget USD<sup>2</sup> \$103,965

 $<sup>^2</sup>$  Eligible expenditures are limited to: Staff and consultants; Consultations, national technical workshops, and communications; Travel and transportation costs; Other incidental expenditures.



#### 4. Monitoring

The beneficiary country and peer advisor shall notify the SOFF Secretariat on any delays that may impede the timely delivery of the Readiness phase outputs. If the assignment takes more than six months, the SOFF peer advisor shall submit semi-annual progress reports to the SOFF Secretariat (form to be provided by the SOFF Secretariat) stating the delivery status of the outputs.

The Readiness phase completion will be monitored by the peer advisor and the SOFF Secretariat using the following country-level Results Framework for the Readiness phase.

Table 3: Result framework

Outputs	Indicator	Target
1. GBON National Gap Analysis	GBON gap established and reviewed (Y/N)	GBON gap analysed and reviewed by WMO Technical Authority
2. GBON National Contribution Plan	GBON national contribution plan developed (Y/N)	GBON national contribution plan developed and reviewed by WMO Technical Authority
	GBON National Contribution Plan includes gender considerations (Y/N)	GBON National Contribution Plan includes gender considerations
3. Country Hydromet Diagnostic (on demand)	Country Hydromet Diagnostic developed (Y/N)	Country Hydromet Diagnostic developed

#### 4. Evaluation

An evaluation from both, the beneficiary country and the prospective Implementing Entity on the quality of support received by the peer advisor will be conducted at the end of the Readiness phase and the peer advisor's assignment (form to be provided upon completion of the Readiness phase by the SOFF Secretariat).



## 5. Readiness Phase Risk Management Framework

Please provide a brief description of the contextual, institutional, and programmatic risks that might hinder the effective delivery of the Readiness phase outputs.

Table 3: Risk Management Framework

Risk category	Description	Probability	Mitigation action
			-
	Health risks from	Unlikely	Follow Government
Contextual risks	communicable		travel advisory
Risks related to	diseases	the second to	notices.
conflicts, safety and political insecurity		Likely	
jeopardizing the	Natural hazards	Likely	Follow Government
delivery of the	(severe weather,	1	travel advisory
Readiness phase	earthquakes etc.)		notices.
outputs			
		90617	Make use of online
			platforms.
Institutional risks			
Risks related to the	Technical staff in	Unlikely	Ensure timetable for
beneficiary country's	Partner country		in-country activities
institutions	agencies not		is communicated and
participation in the Readiness phase	available.		agreed with partner country prior to
activities			mission.
Programmatic risks	Mis-aligned	Unlikely	Regular
Risks related to	understanding of	300000	communication and
country ownership of	activity objectives.		engagement
the Readiness phase outputs			between Peer
outputs			Advisor and recipient agency.



# Annex 1. Assignment Terms of Reference for the development of the SOFF Readiness phase outputs

#### 1. Purpose and scope

The purpose of this Assignment is to provide SOFF peer advisory services by New Zealand to Vanuatu to develop the outputs of the SOFF Readiness phase as described in section 3 of these Terms of Reference.

The provisions defined in the Terms of Reference are based on the <u>SOFF Operational Manual</u>, in particular Section 4.4 on Operational Partners and Section 4.5.1 on the Readiness phase.

#### 2. Roles and responsibilities

#### Beneficiary country National Meteorological and Hydrological Service

- Is responsible for implementing the activities of the Readiness phase with the support from the peer advisor and the prospective Implementing Entity.
- Prepares the Assignment Terms of Reference following the standard Terms of Reference provided by the SOFF Secretariat, in collaboration with the peer advisor and in coordination with the prospective Implementing Entity.
- Submits the funding request for the SOFF Readiness phase support using the standardized template provided by the SOFF Secretariat.
- Is responsible for collaborating with the peer advisor to provide all the necessary information and participate in and facilitate the national activities the peer advisor needs to conduct in order to develop the Readiness phase outputs.
- Confirms receipt of the peer advisors' report with the Readiness phase outputs and provides comments on the outputs as needed.

#### Peer advisor

- Is accountable to the beneficiary country.
- In dialogue with the beneficiary country, provides independent technical advice, analysis
  and recommendations to support the beneficiary country in implementing the activities of
  the Readiness phase.
- Develops the Readiness phase outputs and is responsible for their quality and timely delivery. Communicates regularly with the beneficiary country and the Implementing Entity.
- Engages with the civil society, including on the identification of stakeholders of relevance for GBON implementation.
- Submits the final report with the Readiness phase outputs to the country for comments and to the prospective Implementing Entity for feedback.
- Submits the final report including the beneficiary country's comments and the prospective Implementing Entity's feedback to the SOFF Secretariat.



Notifies the SOFF Secretariat and the prospective Implementing Entity of any delays that
may impede the timely delivery of the outputs, and for assignments for which the delivery
takes more than six months submits a semi-annual progress report.

#### **Implementing Entity**

- Participates in the Readiness phase activities and collaborates with the beneficiary country
  and the peer advisor to ensure a common understanding of the Readiness phase outputs
  and that they address the technical needs for the design and implementation of the
  Investment phase.
- Contributes to the definition of the Terms of Reference and provides feedback on the outputs delivered by the peer advisor.
- Based on its experience in the beneficiary country, supports the work of the peer advisor,
   e.g. by sharing its knowledge and facilitating access to the network of relevant stakeholders.

#### **WMO Technical Authority**

- Provides basic technical support to the beneficiary country, peer advisor, and prospective Implementing Entity on GBON regulations.
- Is responsible for the technical screening of the draft GBON National Gap Analysis and the draft GBON National Contribution Plan against the GBON regulations.
- Is responsible for establishing and administering the pass-through mechanism for contracting and funding of the technical assistance provided by the peer advisors.

#### **SOFF Secretariat**

- Facilitates communication, coordination and collaboration between the beneficiary country, the peer advisor, the prospective Implementing Entity and WMO Technical Authority.
- Reviews the Readiness funding request, including the Terms of Reference, for compliance
  and consistency with the information requirements in the template and provides feedback
  as needed. Transmits the funding request to the SOFF Steering Committee for its decision.
- Confirms receipt of the peer advisors' report with the Readiness phase outputs.
- Organizes exchange of knowledge and experiences and captures lessons learned.

#### 3. Readiness phase outputs

The peer advisor should perform the following tasks following the technical guidance and using the templates provided in the <u>operational guidance documents</u> for each one of the outputs. A summary of the key steps and modules to be conducted for each output is presented below.



#### 3.1 GBON National Gap Analysis

The GBON National Gap Analysis defines the gap between the mandatory requirements of the GBON regulations and the existing country surface and upper-air networks. In other words, it serves as the basis for identifying the number of observing stations that need to be installed or rehabilitated to comply with the mandatory requirements of the GBON regulations.

To develop the GBON National Gap Analysis, the following steps should be followed

- Step 1 Country information from the GBON Global Gap Analysis
- Step 2 Analysis of existing GBON stations and their status against GBON requirements
- Step 3 GBON Gap Analysis results
- **Step 4** Country endorsement for integration of the GBON National Gap Analysis into the GBON National Contribution Plan

#### 3.2 GBON National Contribution Plan

The GBON National Contribution Plan identifies the infrastructure, human and institutional capacity needed to achieve a progressive target toward GBON compliance, including the sustained operation and maintenance of the national GBON observing network.

To develop the GBON National Contribution Plan, the following modules should be completed

- Module 1. National target toward GBON compliance: Establishment of a progressive national target toward GBON compliance
- Module 2. GBON business model and institutional development: public-private business model as appropriate; partnerships, institutional and financial arrangements needed to operate and maintain the observing network
- Module 3. GBON infrastructure development: Appropriate investments needed to increase or improve the observing network and its Information and Communication Technology (ICT) infrastructure
- Module 4. GBON human capacity development: Human technical and managerial capacities required to operate and maintain the observing network
- Module 5. Risk Management: Operational risks of the observing network and required mitigation measures
- Module 6. Transition to SOFF Investment phase: Support the beneficiary country and the Implementing Entity in preparing the Investment phase funding request (template provided by the SOFF Secretariat).

#### 3.3 Country Hydromet Diagnostics

The Country Hydromet Diagnostic (CHD) complements the GBON National Gap Analysis and the GBON National Contribution Plan. It is a standardized, integrated and operational tool and approach for diagnosing National Meteorological Services across the meteorological value chain, their operating environment, and their contribution to high-quality weather,



climate, hydrological and environmental information services and warnings. Its assessment serves as a basis for investments beyond SOFF, across the whole value chain, by the SOFF Implementing Entity and other development partners.

The peer advisor should assess the 10 CHD elements with its respective indicators following the matrix provided in the CHD guidance document.

- Governance and institutional setting
- Effective partnerships to improve service delivery
- Observational infrastructure
- Data and product management and sharing policies
- · Numerical model and forecasting tool application
- Warning and advisory services
- · Contribution to climate services
- Contribution to hydrological services
- Product dissemination and outreach
- Use and national value of products and services

To develop the Country Hydromet Diagnostic, the following steps should be completed.

- Stage 1 Information gathering. As input, the WMO Monitoring Evaluation Risk and Performance unit will provide available country data structured along the CHD elements and their indicators (performed remotely)
- Stage 2 Validation and analysis (performed in-country if feasible)
- Stage 3 Closure

#### 4. Delivery process

The peer advisor in collaboration with the beneficiary country and in coordination with the prospective Implementing Entity should establish the specific activities and consultations needed to complete the outputs. The development of the outputs should include the following:

- Collaboration arrangements between the beneficiary country and the peer advisor, including at least one country visit, unless the country context does not allow it MetService and NIWA joint mission to Vanuatu, (2 experts, 2 weeks in country), Only one in-country visited is expected to be required.
- Coordination arrangements with the prospective Implementing Entity Coordination with World Bank by email and online meetings.
- In-person or virtual consultation meetings with relevant national and international stakeholders and partners *Coordination by email and online meetings*.
- Delivery partners that support the peer advisor in the delivery of the outputs, as applicable
   *To be confirmed.*
- Peer advisor delivery team and focal point MetService and NIWA; James Lunny (MetService).



• Timeline for the development of the outputs In-country visit in August 2023. Submission of GBON Gap Analysis September 2023, Country Hydromet Diagnostic November 2023, GBON National Contribution Plan January 2024.



#### 5. Reporting and completion

**Reporting.** For assignments for which the delivery of advisory services takes more than six months, the SOFF peer advisor shall submit a semi-annual progress report to the SOFF Secretariat (form to be provided by the SOFF Secretariat).

#### Completion

- Step 1. The peer advisor submits the draft GBON National Gap Analysis and the GBON National Contribution Plan reports to WMO Technical Authority and, as applicable, the draft Country Hydromet Diagnostics to the Monitoring Evaluation Risk and Performance unit of the WMO Secretariat. The draft reports have to follow the templates provided in the SOFF operational guidance documents.
- Step 2. WMO Technical Authority screens the draft GBON National Gap Analysis and the
  draft GBON National Contribution Plan to ensure consistency with the GBON regulations.
  The WMO Monitoring Evaluation Risk and Performance unit screens the draft Country
  Hydromet Diagnostics and provides feedback for revisions as needed.
- **Step 3.** The peer advisor submits the report with the Readiness phase outputs for beneficiary country and prospective Implementing Entity feedback.
- Step 4. The peer advisor finalizes the report for confirmation of receipt by the beneficiary
  country and, as needed, beneficiary country comments. Following beneficiary country
  receipt of the report, the peer advisor submits the report, including beneficiary country's
  comments and the prospective Implementing Entity's feedback, to the SOFF Secretariat.
- Step 5. The SOFF Secretariat confirms the satisfactory receipt of the report and informs
  the country and the prospective Implementing Entity accordingly. The SOFF Secretariat
  authorizes WMO to proceed with the release of the final payment and informs the SOFF
  Steering Committee of the completion of the SOFF readiness phase.



#### 6. Signatures

By signing this document, the beneficiary country, peer advisor and the prospective Implementing Entity agree with the provisions stated in this Terms of Reference.

Beneficiary country	Oracle Quest of Long Annual Personal Pe
Peer advisor	Sfeulina
Prospective Implementing Entity	T.o. Ohed.