



ADAPTATION FUND

## ADAPTATION FUND BOARD SECRETARIAT TECHNICAL REVIEW OF PROJECT/PROGRAMME PROPOSAL

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

<b>Countries/Region:</b>	Argentina, Bolivia, Brazil, Colombia, Chile, Ecuador, Peru, Surinam, Uruguay, Venezuela	
<b>Project Title:</b>	An integrated system for evaluating hydrological status and outlooks to support key economic sectors and vulnerable communities in South America, to adapt to climate change and build resilience	
<b>Thematic focal area:</b>	Disaster risk reduction and early warning systems	
<b>Implementing Entity:</b>	World Meteorological Organization (WMO)	
<b>Executing Entities:</b>	National institutions designated by the designated authorities in each participating country and regional institutions: OTCA, CIC, and PROHMSAT Regional Center	
<b>AF Project ID:</b>	AF00000416	
<b>IE Project ID:</b>		<b>Requested Financing from Adaptation Fund (US Dollars):</b> 13,998,300
<b>Reviewer and contact person:</b>	Hugo Remaury	<b>Co-reviewer(s):</b>
<b>IE Contact Person(s):</b>	Moyenda Chaponda	

<b>Technical Summary</b>	<p>The project “An integrated system for evaluating hydrological status and outlooks to support key economic sectors and vulnerable communities in South America, to adapt to climate change and build resilience” aims to improve the adaptative capacities of key socio-economic sectors in South America and vulnerable communities, to climate change through the provision of accessible, user oriented, gender responsive, and fit-for-purpose hydrometeorological information and services. This will be done through the three components below:</p> <p><u>Component 1:</u> Capacity development of the NMHSs to provide information on hydrological status and outlooks for adaptation to climate change and reduction of water-related risks (USD 4,500,000).</p> <p><u>Component 2:</u> Strengthening inter-institutional working relationships and developing capacities at regional and national levels to support hydrometeorological services, including access to hydrological status and outlook products, and warning services (USD 2,200,000)</p> <p><u>Component 3:</u> Communication and dissemination strategies on hydrological status and S2S outlook products for selected economic sectors, and gender-responsive early warning systems aimed at selected vulnerable communities (USD 4,754,300).</p>
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	<p><b>Requested financing overview:</b>  Project/Programme Execution Cost: USD 1,272,000  Total Project/Programme Cost: USD 12,726,300  Implementing Fee: USD 1,272,000  Financing Requested: USD 13,998,300</p> <p>The proposal includes a request for a project formulation grant of USD 50,000.</p> <p>The first technical review raises some issues, such as reverting to the original font sizes used in the proposal template, providing further details on the demonstration cases planned under output 3.2.1, and clarifying matters related to implementation arrangements, as discussed in the number of Clarification Requests (CRs) and Corrective Action Request (CAR) raised in the review.</p> <p>The second technical review finds that the proposal has addressed most of the CR and CAR requests. One outstanding CAR remains namely the amount of financing requested should be revised on the cover page.</p>
<b>Date</b>	20 January 2024

<b>Review Criteria</b>	<b>Questions</b>	<b>Comments First Technical Review December 20, 2024</b>	<b>Comments Second Technical Review January 20, 2024</b>	<b>WMO's Response Feb 2025</b>
<b>Country Eligibility</b>	1. Are all of the participating countries party to the Kyoto Protocol and/or the Paris Agreement?	<b>Yes.</b>	-	
	2. Are all of the participating countries developing countries particularly vulnerable to the adverse effects of climate change?	<b>Yes.</b>  Participating countries in both the Amazon and La Plata basins face shared climate change induced challenges and impacts, including droughts, floods, and rising temperatures.	-	

Project Eligibility	1. Have the designated government authorities for the Adaptation Fund from each of the participating countries endorsed the project/programme?	<b>Yes.</b>  As per the Endorsement letters dated 11 November 2024 (Argentina), 14 October 2024 (Brazil), 29 July 2024 (Bolivia), 5 July 2024 (Colombia), 26 June 2024 (Chile), 26 July 2024 (Ecuador), 27 June 2024 (Suriname), 7 August 2024, (Paraguay), 26 August 2024 (Peru), 19 July 2024 (Uruguay), and 3 July 2024 (Venezuela).	-	
	2. Has the pre-concept provided necessary information on the problem the proposed project/programme is aiming to solve, including both the regional and the country perspective?	<b>Yes.</b>	-	
	3. Have the project/programme objectives, components and financing been clearly explained?	<b>Yes.</b>  <b>CAR1:</b> Throughout the pre-concept proposal, please stick to the font sizes used in the template (i.e., Times Roman 11 in tables – except for certification boxes in Part IV – and Arial 11 for text outside of the tables), ensuring that the pre-concept proposal	<b>CAR1: Cleared.</b>  <b>CR1: Cleared.</b> As per the additional information provided in the response sheet, which clarify that three main criteria will be used to allocate funding among	

		<p>amount to no more than 5 pages (part I to III).</p> <p><b>CR1:</b> Please describe how funding would be allocated among participating countries, and on which basis/criteria.</p>	<p>participating countries: i) potential to decrease the gap in technology for modelling and data sharing; ii) proposed interventions' regional dimension; and iii) communities' accessibility and impact.</p>	
	<p>4. Has the project/programme been justified in terms of how:</p> <ul style="list-style-type: none"> <li>- it supports concrete adaptation actions?</li> <li>- it builds added value through the regional approach?</li> <li>- it promotes new and innovative solutions to climate change adaptation?</li> <li>- it is cost-effective?</li> <li>- it is consistent with applicable strategies and plans?</li> <li>- it incorporates learning and knowledge management?</li> <li>- it will be developed through a consultative process with particular reference to vulnerable groups, including gender considerations, in</li> </ul>	<p><b>Not cleared. Additional information is required.</b></p> <p><b>CR2:</b> The proposal should describe the project alignment with NMHS' National Strategic Plans, Country Hydromet Diagnosis (Alliance for Hydromet Development), and any readiness support received in the context of the Systematic Observations Financing Facility.</p> <p><b>CR3:</b> The proposal should briefly expand on i) the nature and characteristics of output 3.2.1 demonstration cases; ii) the process and associated criteria through which the project would identify such cases and the vulnerable communities; and iii) whether these cases will be identified at concept and fully-developed</p>	<p><b>CR2: Cleared.</b> As per the additional information provided on p.4 and 5, and in the response sheet.</p> <p><b>CR3: Cleared.</b> As per the additional information provided on p. 5, which clarify that the demonstration cases will be fully identified during the development of the concept note, as part of the consultative process and in close collaboration with communities, National Meteorological and Hydrological Services</p>	

	<p>compliance with the Environmental and Social Policy of the Adaptation Fund? - it will take into account sustainability?</p>	<p>proposal stages, keeping in mind the <a href="#">Fund's guidance on unidentified sub-projects</a> (USP).</p>	<p>(NMHS) and disaster risk management institutions.</p>	
	<p>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?</p>	<p><b>Yes.</b></p> <p><b>CAR2:</b> The Implementation Arrangements section should be revised to i) clarify the roles and responsibilities of the regional executing entities and the national ones; ii) provide an organization chart showing how the various entities/institutions involved will report to each other; and iii) demonstrate how the project will ensure a smooth coordination amongst all stakeholders.</p> <p><b>CR4:</b> The pre-concept note should clarify whether the project will involve any AF National Implementing Entities as part of its implementation arrangements.</p> <p><b>CR5:</b> Please kindly explain why Executing Entities in</p>	<p><b>CAR2: Cleared.</b> As per the additional information provided on p.6.</p> <p><b>CR4: Cleared.</b> As per the additional information provided on p.6, which confirm that National Implementing Entities are not considered to be part of the implementation arrangements. When developing the concept note, WMO is kindly requested to inform such Entities of the development of the present proposal.</p> <p><b>CR5: Cleared.</b></p>	

		<p>Argentina, Peru and Uruguay are not yet identified.</p> <p><b>CAR3:</b> By the fully-developed proposal clarification of the execution arrangements of the project <u>for each participating country</u>, ie. if by regional executing entities and/or national executing entities.</p>	<p>As per the additional information provided in the response sheet, which confirms that the countries had not yet identified the Executing Entities at the time of submission of the pre-concept note.</p> <p><b>CAR3: Cleared.</b> As per the commitment made to clarify such arrangements by the time the fully-developed proposal is submitted.</p>	
Resource Availability	<p>6. Is the requested project / programme funding within the funding windows of the programme for regional projects/programmes?</p>	<p><b>Yes.</b></p>		
	<p>7. Are the administrative costs (Implementing Entity Management Fee and Project/ Programme Execution Costs) at or below 10 per cent of the project/programme for implementing entity (IE) fees and at or below 10 per cent of the project/programme</p>	<p><b>No.</b> <b>CAR4:</b> The proposal should address discrepancies in the figures presented (e.g., Total Component 1 should equal USD 4,500,000, Total project/programme cost USD 12,726,300, and the amount of financing requested USD 13,998,300). You may refer to <a href="#">the IE cost and EE fee calculator</a>, as needed.</p>	<p><b>CAR4: Not cleared.</b> Although most figures were corrected, the cover page still refers to USD 13,999,700 as amount of financing requested, when it rather seems to be USD 13,998,300.</p>	<p>The cover page of the pre-concept note has been corrected and now reads USD 13,998,300 as well as the Cover letter now reads USD 13,998,300</p>

	cost for the execution costs?			
Eligibility of IE	8. Is the project/programme submitted through an eligible Implementing Entity that has been accredited by the Board?	<b>Yes.</b> WMO's accreditation expiration date is 30 March 2027.	-	



## PROPOSAL COVER PAGE

1. Type of project: Single-Country  Regional
2. Countries: Argentina, Bolivia, Brazil, Colombia, Chile, Ecuador, Peru, Surinam, Uruguay, Venezuela
3. Project/Programme Category: Regular
4. Project/Programme Stage: Pre-concept
5. Requested financing amount (in U.S. Dollars Equivalent): 13,998,300
6. Project Formulation Grant (PFG) Request: Yes  No
7. Requested financing amount for PFG (in U.S. Dollars Equivalent): 50,000
8. Letter/s of Endorsement (LOE) signed:  
LOEs should be signed by the Designated Authority (DA). The signatory DA must be on file with the Adaptation Fund. To find the DA currently on file check this page: <https://www.adaptation-fund.org/apply-funding/designated-authorities>  
Yes  No
9. Write the date of endorsement for each LOE for the project.

Argentina	Date: 11/19/2024
Bolivia	Date: 07/29/2024
Brazil	Date: 10/14/2024
Chile	Date: 06/26/2024
Colombia	Date: 07/05/2024
Ecuador	Date: 07/26/2024
Peru	Date: 08/07/2024
Suriname	Date: 06/27/2024
Uruguay	Date: 07/19/2024
Venezuela	Date: 07/03/2024

10. Title of Project/Programme: An integrated system for evaluating hydrological status and outlooks to support key economic sectors and vulnerable communities in South America, to adapt to climate change and build resilience
11. Implementing Entity: World Meteorological Organization (WMO)



12. Executing Entities:

- **Argentina:** Subsecretaría de Ambiente del Gobierno de la República Argentina
- **Bolivia:** Servicio Nacional de Meteorología e Hidrología de Bolivia
- **Brazil:** Agência Nacional de Aguas (ANA)
- **Chile:** Dirección Meteorológica de Chile
- **Colombia:** Instituto Nacional de Hidrología, Meteorología y Estudios Ambientales de Colombia
- **Ecuador:** Instituto Nacional de Meteorología e Hidrología de Ecuador
- **Perú:** To be determined in next stage
- **Suriname:** Ministry of Public Works
- **Uruguay:** To be determined in next stage
- **Venezuela:** Instituto Nacional de Meteorología e Hidrología
- **ACTO:** Amazon Cooperation Treaty Organization
- **CIC:** Intergovernmental Coordination Committee of the La Plata Basin Countries
- **PROHMSAT Regional Center<sup>1</sup>**

13. Is this a new submission or a resubmission: New:  Resubmission:

14. If a resubmission, please select the last submission date: n/a

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<sup>1</sup> Regional Center hosted by National Water Institute (INA) and National Meteorological Service (SMN) of Argentina under the Hydrometeorological Forecasting and Early Warning System for La Plata Basin Project



## PRE-CONCEPT FOR A REGIONAL PROJECT/PROGRAMME

### PART I: PROJECT/PROGRAMME INFORMATION

**Title of Project/Programme:** An integrated system for evaluating hydrological status and outlooks to support key economic sectors and vulnerable communities in South America, to adapt to climate change and build resilience

**Countries<sup>1</sup>:** Argentina, Bolivia, Brazil, Colombia, Chile, Ecuador, Peru, Surinam, Uruguay, Venezuela

**Thematic Focal Area<sup>2</sup>:** Disaster risk reduction and early warning systems

**Type of Implementing Entity:** Multilateral Implementing Entity

**Implementing Entity:** World Meteorological Organization (WMO)

**Executing Entities:** National institutions designated by the AF designated authority in each participating country and regional institutions, OTCA<sup>3</sup>, CIC<sup>4</sup>, and PROHMSAT Regional Center<sup>5</sup>

**Amount of Financing Requested:** 13.998.300,700 (in U.S Dollars Equivalent)

**Project Formulation Grant Request:** Yes  No

**Amount of Requested financing for PFG:** 50.000 (in U.S Dollars Equivalent)

**Letters of Endorsement (LOE) signed for all countries:** Yes  No

*NOTE: LOEs should be signed by the Designated Authority (DA). The signatory DA must be on file with the Adaptation Fund. To find the DA currently on file check this page: <https://www.adaptation-fund.org/apply-funding/designated-authorities>*

**Stage of Submission:**

This pre-concept has been submitted before  This is the first submission ever of the pre-concept

In case of a resubmission, please indicate the last submission date: [Click or tap to enter a date.](#)

**Please note that pre-concept should not exceed 5 pages (in addition to this first cover page)**

<sup>1</sup> There is consensus among participating countries that Guyana and Paraguay will join the project in next stage

<sup>2</sup> Thematic areas are: Food security; Disaster risk reduction and early warning systems; Transboundary water management; Innovation in adaptation finance.

<sup>3</sup> ACTO: Amazon Cooperation Treaty Organization

<sup>4</sup> CIC: Intergovernmental Coordination Committee of the La Plata Basin Countries

<sup>5</sup> PROHMSAT Regional Centre: A centre established under the Hydrometeorological Forecasting and Early Warning System Project, currently hosted jointly by the National Water Institute and the National Meteorological Service of Argentina. The regional center provides hydrological forecasting to the five countries of the La Plata Basin.

## Project/Programme Background and Context:

South America is one of the regions with the greatest documented need to strengthen hydrometeorological early warning systems. Floods, droughts, heat and cold waves, and tropical cyclones have caused hundreds of lives, serious damage to agricultural production and infrastructure, and population displacements (UNFCCC, 2022).

A significant proportion of the continent is covered by two macro basins: the Amazon Basin (shared by Bolivia, Brazil, Colombia, Ecuador, Guyana, Peru, Surinam, and Venezuela) and the La Plata Basin (shared by Argentina, Bolivia, Brazil, Paraguay, and Uruguay). The extensive wetland and forest systems of both basins constitute important deposits of freshwater and carbon. Although both basins are characterized by their great diversity and productive potential, each has its particularities and stands out globally: the La Plata Basin is one of the regions with the greatest production of food and energy, while the Amazon Basin is one of the greatest shelters of biodiversity and source of oxygen.

~~The Amazon and La Plata These~~ basins are particularly vulnerable to climate change. The Amazon Basin currently has around 48.5 million people, 400 indigenous communities, and it is under an accelerated process of land use change, which makes it more vulnerable to droughts and floods. In the La Plata basin's case, its population is over 110 million, its water and mineral resources, forests, and its soils' fertility have created a region of strong population attraction (CIC, 2024). In both macro basins, dispersed rural communities still maintain livelihoods linked to the rivers, using them as a source of food and transportation. The hydrometeorological extreme events that recently occurred in the region demonstrate the urgent need to take measures to reduce disaster risks and adapt to climate change.

~~The hydrometeorological extreme events that recently occurred in the region demonstrate the urgent need to take measures to reduce disaster risks and adapt to climate change. Prolonged drought conditions have contributed to negative effects on several economic sectors in both macro basins and in Chile, including agriculture, energy, fluvial transportation, and water supply. The Negro River in the Amazon basin hit record low flows since 1902 (WMO, 2023). In particular, the drought has caused flow interruption in the rivers, leaving riverine communities isolated. Exceptionally high temperatures, low air humidity and severe drought have also led to unprecedented periods of forest fires in Argentina and Paraguay (WMO, 2022). In southern Brazil, recent floods in 2024 affected over one million people, disrupted infrastructure, and caused dozens of deaths.~~

In this context, experts of the National Meteorological and Hydrological Services (NMHSs) of the WMO Regional Association III (South America), who are members of its Hydrology and Water Resources working group, have developed a plan for the regional implementation of WMO Global Hydrological Status and Outlook System initiative (HydroSOS). This plan, approved by WMO Congress, aims to implement hydrological status and sub-seasonal to seasonal (S2S) outlook products tailored to the specific needs of different economic sectors, in particular vulnerable communities. HydroSOS is the backbone supporting the Early Warnings for All initiative (EW4ALL) for hydrological disasters and thus supports local resilience and preparedness. The plan builds upon existing development and capacities in the region, including the Decision Support System of the Intergovernmental Coordination Committee of the La Plata Basin Countries (CIC) and the Amazon Regional Observatory of the Amazon Cooperation Treaty Organization (OTCA). The plan also considers products and services generated, as well as lessons learned under other projects such as ENANDES, ENANDES Plus, La Plata Program, SISSA, and SERVIR Amazonas, among others.

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## Project/Programme Objectives:

**General Objective:** To improve the adaptation capacities of key socio-economic sectors in South America, in particular vulnerable communities, to climate change through the provision of accessible, user oriented, gender responsive, and fit-for-purpose hydrometeorological information and services.

### **Specific objectives:**

1. Improve the capacities of NMHSs in South America to generate hydrological status and sub-seasonal to seasonal (S2S) outlooks tailored to the needs of economic-productive sectors and communities, with special attention to the most vulnerable.

2. Strengthen working relationships among the NMHSs, Disaster Risk Reduction entities, and regional institutions that contribute to the provision of hydrometeorological monitoring, forecasting, and warning services, through sharing data and products, establishing community of practices, defining action protocols, and providing capacity development.
3. Promote a culture of informed decision-making within society, particularly among vulnerable communities, based on hydrometeorological risks.

**Project/Programme Components and Financing:**

Project/Programme Components	Expected Outcomes	Expected Outputs	Amount (US\$)	Countries
<b>1. Capacity development of the NMHSs to provide information on hydrological status and outlooks for adaptation to climate change and reduction of water-related risks.</b>	1.1 The NMHSs of the La Plata Basin countries, the Amazon Basin countries, and Chile have strengthened their capacity and provide information on hydrological status and S2S outlooks, addressing the specific needs for early warning and climate risk reduction of different socio-economic sectors and identified users, particularly the most vulnerable.	1.1.1. Data and products shared through regional interoperable information and dissemination service, available in real time, on hydrological status and S2S outlooks in the La Plata Basin, the Amazon Basin, and Chile.	1.000.000	Argentina, Bolivia, Brazil, Colombia, Ecuador, Paraguay, Perú, Surinam, Uruguay, Venezuela, Chile
		1.1.2. Specialized human resources of the NMHSs trained in the use, evaluation, development and implementation of Hydrological Models and Numerical Procedures for hydrological status and S2S outlooks, and a Community of Practice for continuous training created.	1.750.000	
		1.1.3. Regional models/numerical procedures for hydrological status and S2S outlooks products generation developed and implemented.	750.000	
		1.1.4. Digital repositories and wikis on hydrological status and S2S outlooks created/published, including scripts and notebooks of numerical procedures, to transfer new products among	1.000.000	

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		different agencies and to stakeholders.		
		<b>Total Component 1</b>	<del>4,950.000</del> <b>4,500.000</b>	
<b>2. Strengthening inter-institutional working relationships and developing capacities at regional and national levels to support hydrometeorological services, including access to hydrological status and outlook products, and warning services</b>	<b>2.1</b> Existing regional institutions related to hydrometeorology in the region are inter-linked and better prepared to support countries in relation to hydrological status and S2S outlooks	<b>2.1.1</b> Products developed and/or strengthened in relation to the hydrological status and S2S outlooks are shared and incorporated as needed in the information systems of regional institutions.	<b>700.000</b>	Argentina, Bolivia, Brazil, Colombia, Ecuador, Paraguay, Perú, Surinam, Uruguay, Venezuela, Chile
		<b>2.1.2</b> Technical experts from regional institutions trained in S2S hydrological outlooks; WMO Regional Training Centers play a key role in this capacity-building process.	<b>500.000</b>	
	<b>2.2</b> National risk management institutions work collaboratively with NMHSs to provide hydrological early warning services at S2S scale	<b>2.2.1</b> National risk management institutions and NMHSs, responsible for the provision of hydrological outlooks, are coordinated for service provision through the establishment of, for example, action protocols, agreements.	<b>500.000</b>	
		<b>2.2.2</b> Technical staff from national institutions responsible for risk management trained in the interpretation of S2S hydrological outlooks.	<b>500.000</b>	
		<b>Total Component 2</b>	<b>2.200.000</b>	
<b>3. Communication and dissemination strategies on hydrological status and S2S outlook products for selected economic sectors, and gender-responsive early warning systems aimed at selected</b>	<b>3.1</b> Selected economic sectors (agriculture, energy, fluvial transportation, environment, water supply, fisheries) have accessible, reliable, easy-to-understand	<b>3.1.1</b> Sector-specific communication and dissemination plans formulated and implemented in a participatory manner.	<b>2.500.300</b>	Argentina, Bolivia, Brazil, Colombia, Ecuador, Paraguay, Perú, Surinam, Uruguay, Venezuela, Chile
		<b>3.1.2</b> Training provided to economic sectors on the interpretation of	<b>500.000</b>	

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<b>vulnerable communities.</b>	products, adjusted to the decision-making needs, in relation to the hydrological status and the S2S outlooks.	hydrological status and S2S outlook products to support science-based actions.		
	<b>3.2:</b> Selected vulnerable communities have accessible, reliable, easy-to-understand products available, adjusted to their decision-making needs, in relation to the hydrological status and the S2S outlooks.	<b>3.2.1</b> For selected vulnerable communities, co-developed, gender-responsive, replicable demonstration cases on the provision of hydrological services tailored to their decision-making needs, including access to hydrological status and outlook products, warning services, and training	<b>1.754.000</b>	
<b>Total Component 3</b>			<b>4.754.300</b>	<b>Total Components 11.454.300</b>
<b>6. Project/Programme Execution cost (EE fee 10%)</b>				<b>1.272.000</b>
<b>7. Total Project/Programme Cost</b>				
<b>8. Project/Programme Cycle Management Fee charged by the Implementing Entity (IE fee 10%)</b>				
	<u>12.726.300</u>			
	<u>1.272.630</u>			
<b>Amount of Financing Requested</b>			<u>13.998.300</u>	

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Project Duration: 4 years

## PART II: PROJECT/PROGRAMME JUSTIFICATION

The project is aligned with the Adaptation Fund objective to “reduce vulnerability and increase adaptive capacity of communities to respond to the impacts of climate change at local, national and regional level” and with the Environmental and Social Policy of the Adaptation Fund (ESP). It is also aligned and contributes to the priorities identified by the region’s countries in their National Determined Contributions (NDC). The proposal is complementary to the Early Warning for All initiative to which all NMHSs subscribe in their strategic plans and is also aligned with the countries’ national climate change adaptation plans and DRR plans, in actions related to improving hydrometeorological warning systems. It is also complementary with the Systematic Observations Financing Facility (SOFF) in which the countries of Ecuador, Guyana, and Suriname participate. While SOFF ensures sustainable funding of meteorological observations, HydroSOS will support information exchange and maximizing the value of observation data. In addition, the project will leverage on Country Hydromet Diagnosis (CHD) reports to guide pilot project designs in EW4All-selected countries as applicable (Ecuador and Suriname).

A regional approach in this project is the most appropriate way to achieve the proposed objectives. Hydrological monitoring and forecasting inherently require a river basin approach. Among the countries, disparities exist in terms of access to hydrological information. Data is heterogeneous, with different formats and definitions, and monitoring networks vary in densities. The regional approach is necessary for evaluating HydroSOS applications and tools, as well as for improving downstream monitoring and forecasting—essential components of the region's early warning systems. Additionally, approaching the project regionally enhances cost-effectiveness. Countries can share knowledge, lessons learned, best practices, tools, and technological developments. There is also a clear economy of scale in the development of tools, making them operational, and for capacity building. Furthermore, a regional approach in the implementation of the demonstration cases, Component 3, will give vulnerable communities a unique opportunity to share among them challenges and adaptation measures, to improve their livelihoods.

The first component centers on strengthening the capacities of the NMHSs in terms of knowledge of the hydrological status and its perspectives at the S2S scale. To this end, it addresses regional data integration and preparation of status and outlook products, building upon what is already in place, and ensuring competent human resources to provide sustainable services. Therefore, central to this project is data and products sharing among countries and synergies with OTCA's Hydrological Observatory and CIC's Decision Support System (CIC-DSS).

The second component will strengthen technical capacities and will foster synergies and working relationships among institutions at the regional and national levels, so to build on existing capacities and better serve countries' needs. At regional level, the following entities will be involved: two intergovernmental organizations - one for each macro basin - the Intergovernmental Coordination Committees of the countries of La Plata Basin (CIC) and the Amazon Cooperation Treaty Organization (OTCA). In addition, the La Plata Basin Hydrometeorological Forecasting and Early Warning System (PROHMSAT) Regional Center and the two WMO Regional Climate Centers: the WMO Regional Climate Center for South of South America (CRC-SAS), which includes all La Plata basin countries and Chile, and the WMO Regional Climate Center for Western South America (CRC-OSA), covering Bolivia, Chile, Colombia, Ecuador, Perú y Venezuela. WMO Regional Training Centers, currently located in Argentina, Brazil, and Peru, will play a pivotal role in building capacities. At the national level, disaster risk reduction entities (DRRs), as users of hydrological products, will receive training in HydroSOS products interpretation, and together with NMHSs, as providers, will establish and/or improve concrete coordination mechanisms.

The third component focuses on the last mile of the value chain of early warning systems, ensuring two-way communication between service providers and users, as well as effective dissemination. This component is crucial for ensuring that actionable hydrometeorological information reaches socio-economic sectors in a timely and group-specific format. For each country, a demonstration case will be selected based on the following criteria: that the use of the HydroSOS service is feasible; that the forecast improves hydrological warning conditions and allows risk reduction for vulnerable populations whose livelihoods depend on water or are exposed to hydrological hazards. This will allow the evaluation of the tool/service in the area, as a bridge between the technical-scientific production and the "last mile", the users. The cases will be identified during the consultation process and socialization of the project in the Concept Note. Proposals will be received from the NMHS in conjunction with the disaster risk management areas of each country. The demonstration cases will address vulnerable communities, involving them in the design process from the beginning. Gender-responsive knowledge dialogues will play a key role in integrating local knowledge, culture, and scientific insights to achieve the last mile and empower communities to adapt to climate change. The selected communities facing local challenges will have opportunities for interaction among those with similar needs at the regional level and share adaptation measures. Methodologies and lessons learnt will be documented to facilitate replication.

While this project focuses on climate change adaptation and has specific socio-economic sectors and vulnerable communities as beneficiaries, an additional beneficiary is the environmental sector since information on the hydrological status and outlooks will significantly contribute to integrated water resources management.

The funding will be distributed so that each NMHS can count on the necessary basic equipment and human resources training to develop products and distribute services (computer equipment, training workshops, webinars, etc.) Funding to develop a demonstration case in each country, will be distributed according to the

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selection of each case according to the geographic area, population, etc. that will be selected in the next stage at the Concept Note.

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The project's sustainability is ensured, first, by satisfied socio-economic sectors/activities who will have access to hydrological status and outlooks tailored to their needs and a growing demand for such products driven by climate change. Secondly, the project prioritizes the capacity development of service providers, particularly on-the-job training of IT staff, hydrologists, disasters risk and water managers, and in accordance with WMO competency framework, and supported by WMO Regional Training Centers. Additionally, trained staff will benefit from long-term technical support from WMO's community of experts, as the project implements regionally WMO HydroSOS initiative. Furthermore, the project does not propose the creation of new centers to provide the services but rather the support and consolidation of existing ones, such as the WMO Regional Climate Centres (RCCs). The RCCs are already providing climate services. However, climate services are limited to climate variables and do not yet include hydrological services, particularly at sub-seasonal to seasonal (S2S) scales. This project aims to complement/extend the services currently provided by the RCCs by adding the hydrological component to climate services. ~~Finally, the project is designed and executed by the countries as reflected in the implementation arrangements, therefore aligned with their needs.~~

The project promotes innovative solutions for climate change adaptation by integrating existing information through new approaches, technologies and mechanisms, supported by WMO Regional Specialized Hydrological Centres and academic partners. WMO HydroSOS is an innovative tool for climate change adaptation as it provides the first global operational mechanism to integrate assessments and perspectives of hydrological status and forecasts with weekly, monthly, or quarterly time horizons (sub-seasonal and seasonal). This project is the HydroSOS regional implementation. Additionally, the project fosters innovation through the establishment of multidisciplinary and multicultural working groups. These groups will play a pivotal role in articulating regional projects and programs, ensuring cross-linkages and comprehensive solutions, particularly in the demonstration cases.

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### PART III: IMPLEMENTATION ARRANGEMENTS

WMO will serve as the Implementing Entity (IE). Execution will be between regional and national executing agencies, according to the nature of the activities. The project will appoint a General Project Coordinator and within each macro basin, a team of three consultants, covering the following areas of expertise: information technologies, modelling and forecasting services, and communication science. For the Executing Entities, at the regional level, CIC, PROHMSAT Regional Center, and OTCA will oversee regional activities in the La Plata and Amazon basins. Additionally, each country will have its own national executing entity.

Regional Executing Entities (REE), will be responsible for the development of the outputs of components 1 and 2. These regional entities will be OTCA for the Amazon basin and CIC together with PROHMSAT Regional Center for the La Plata basin.

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Each country will establish a National Executing Unit (NEU), coordinated by a National Coordinator nominated by the NMHS and hired for the project with clear responsibilities in relation to the three components and national activities. The NEU will be responsible for facilitating the execution of national activities. The output 2.2 and Component 3 will be the responsibility of these units and will ensure the necessary coordination and involvement of stakeholders at the national level. The National Units represent an in-kind contribution from each country, reinforcing each country's project ownership, and therefore contributing to project sustainability.





As part of the responsibilities of the Regional Executing Entities (REE), the project will appoint a General Project Coordinator and within each macro basin, a team of three consultants, covering the following areas of expertise: information technologies, modelling and forecasting services, and communication science. REEs will play a critical role in articulation and optimization of resources to achieve the goals.

National Executing Entities (NEE) will be responsible for facilitating the execution of national activities. In some countries the NEE will be the NMHS. In that case, its responsibility will be both administrative and

technical. In countries where the NEE will differ from the NMHS, the EE will have administrative responsibilities, and the technical ones will be under the NMHS. Each country will have an expert, hired by the project, with clear responsibilities in relation to the three components.

Furthermore, each country will establish a National Unit, coordinated by the National Coordinator nominated by the NMHS. Technical experts designated by each country for each of the three project components will be part of the National Unit. National Units will ensure the necessary coordination and involvement of stakeholders at the national level. The National Units represent an in-kind contribution from each country, reinforcing each country's project ownership, and therefore contributing to project sustainability.

To oversee project activities, a Steering Committee (SC) will be established and will convene every six months. The SC comprises the National Coordinators representing all National Units, the President and Vice-President of WMO RAIH Hydrology and Water Resources Working Group, the IE Project Manager, the General Project Coordinator, and the focal points of each REE and each NEE.

Lastly, strategic institutional partnerships will be national risk management institutions, CRC-SAS, CRC-OSA, and WMO Regional Training Centres. AF NIEs are not considered to be part of the current implementation arrangements.

Note: Guyana has participated in the preliminary stages of development of the project and have expressed their intention to participate in it. Due to internal administrative reasons in the country, Guyana has not obtained its endorsement letter for this stage and for this reason it is not listed as participating country, but there is already a consensus among the 11 participating countries to add Guyana in the next stages of project development.

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

- A. Record of endorsement on behalf of the government<sup>6</sup>** *Provide the name and position of the government official and indicate date of endorsement for each country participating in the proposed project/programme. Add more lines as necessary. The endorsement letters should be attached as annexes to the project/programme proposal.*

<i>Ana María Vidal de Lamas Subsecretaria Subsecretaria de Ambiente Jefatura de Gabinete de Ministros Argentina</i>	<i>Date: 11/19/2024</i>
<i>Carlos David Guachalla Terrazas Viceministro de Planificación y Coordinación Ministerio de Planificación y Desarrollo Bolivia</i>	<i>Date: 07/29/2024</i>
<i>Ana Amélia Campos Toni National Secretary for Climate Change Ministry of Environment and Climate Change Brazil</i>	<i>Date: 10/14/2024</i>
<i>Maritza Jadrjevic Girardi Jefa Departamento de Adaptación División de Cambio Climático Ministerio del Medio Ambiente Chile</i>	<i>Date: 06/26/2024</i>
<i>María Teresa Becerra Ramírez Jefa de Oficina de Cooperación Internacional Ministerio de Ambiente y Desarrollo Sostenible Colombia</i>	<i>Date: 07/05/2024</i>
<i>Angel Sandoval Subsecretario de Cambio Climático Ministerio de Medio Ambiente, Agua y Transición Ecológica Ecuador</i>	<i>Date: 07/26/2024</i>
<i>Berioska Quispe Estrada Head of the General Directorate of Climate Change and Desertification Ministry of Environment Perú</i>	<i>Date: 08/07/2024</i>
<i>Ivette Pengel-Patterzon Deputy Permanent Secretary Climate Change Ministry of Spatial Planning and Environment Republic of Suriname</i>	<i>Date: 06/27/2024</i>
<i>Natalie Pareja Directora Nacional de Cambio Climático Ministerio de Ambiente Uruguay</i>	<i>Date: 07/19/2024</i>
<i>Miguel Alberto Serzano Director General Oficina de Integración y Asuntos Internacionales Ministerio del Poder Popular para el Ecosocialismo</i>	<i>Date: 07/03/2024</i>

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.

Venezuela	
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**B. Implementing Entity certification** *Provide the name and signature of the Implementing Entity Coordinator and the date of signature. Provide also the project/programme contact person's name, telephone number and email address*

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 and subject to the approval by the Adaptation Fund Board, <u>commit to implementing the project/programme in compliance with the Environmental and Social Policy of the Adaptation Fund</u> and on the understanding that the Implementing Entity will be fully (legally and financially) responsible for the implementation of this project/programme.	
<p><i>Moyenda Chaponda</i>  Implementing Entity Coordinator  Development Partnerships Office</p>	
Date: November 20, 2024	Tel. and email: +41 22 730 8646 and mchaponda@wmo.int
Project Contact Person: Silvana Alcoz	
Tel. And Email: +41227308381 salcoz@wmo.int	

ANNEX I—Extension of LA PLATA BASIN and the AMAZON BASIN IN SOUTH AMERICA



República Argentina - Poder Ejecutivo Nacional  
AÑO DE LA DEFENSA DE LA VIDA, LA LIBERTAD Y LA PROPIEDAD

**Nota**

**Número:** NO-2024-126850647-APN-SSAM#JGM

CIUDAD DE BUENOS AIRES  
Martes 19 de Noviembre de 2024

**Referencia:** Apoyo Nota de concepto: "Un sistema integrado para evaluar el estado y las perspectivas hidrológicas para ayudar a los sectores económicos claves y comunidades vulnerables de América del Sur a adaptarse al cambio climático y desarrollar resiliencia"

**A:** The Adaptation Fund Board (afbsec@adaptation-fund.org),

**Con Copia A:** Juan Rodrigo Walsh (SSAM#JGM),

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**De mi mayor consideración:**



**ADAPTATION FUND**

En mi calidad de autoridad designada para el Fondo de Adaptación en Argentina, confirmo que la nota de pre-concepto referenciada está en consonancia con las prioridades del gobierno nacional en la implementación de actividades de adaptación para reducir los impactos adversos y los riesgos que plantea el cambio climático en América del Sur. En consecuencia, me complace apoyar la propuesta de proyecto anterior con el apoyo del Fondo de Adaptación. Si se aprueba, el proyecto será implementado por la Organización Meteorológica Mundial (OMM).



## ADAPTATION FUND

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

Subject: Support for the pre-concept note: "An integrated system to assess hydrological status and prospects to help key economic sectors and vulnerable communities in South America adapt to climate change and build resilience"

In my capacity as designated authority for the Adaptation Fund in Argentina, I confirm that the above pre-concept note 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 South America. Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by World Meteorological Organization.

Sin otro particular saluda atte.

A handwritten signature in black ink, appearing to read "Ana María Vidal de Lamas".

Digitally signed by ANA MARÍA VIDAL DE LAMAS  
Date: 2024.11.19 17:32:14 -03:00

Ana María Vidal de Lamas  
Subsecretaria  
Subsecretaria De Ambiente  
Jefatura de Gabinete de Ministros

Digitally signed by GESTION DOCUMENTAL  
ELECTRONICA - GDE  
Date: 2024.11.19 17:32:14 -03:00



ESTADO PLURINACIONAL DE  
**BOLIVIA**

MINISTERIO DE  
PLANIFICACIÓN DEL DESARROLLO



ADAPTATION FUND

**Carta de Apoyo del Gobierno**  
**ESTADO PLURINACIONAL DE BOLIVIA**

Julio 29, 2024

A: La Junta del Fondo de Adaptación  
c/o Secretaría de la Junta del Fondo de Adaptación  
Correo electrónico: [afbsec@adaptation-fund.org](mailto:afbsec@adaptation-fund.org)  
Fax: 202 522 3240/5

Asunto: Apoyo para el proyecto denominado: *Un sistema integrado para evaluar el estado y las perspectivas hidrológicas para ayudar a los sectores económicos claves y comunidades vulnerables de América del Sur a adaptarse al cambio climático y desarrollar resiliencia.*

En mi calidad de autoridad designada para el Fondo de Adaptación en el Estado Plurinacional de Bolivia, confirmo que la propuesta de proyecto regional previamente mencionada es concordante con las prioridades regionales del gobierno en la implementación de actividades de adaptación para reducir los impactos adversos y los riesgos que plantea el cambio climático en América del Sur.

En consecuencia, me complace apoyar la propuesta de proyecto previamente mencionada con el apoyo del Fondo de Adaptación. Si se aprueba, el proyecto será implementado por la Organización Meteorológica Mundial y ejecutado por Servicio Nacional de Meteorología e Hidrología (SENAMHI).

Atentamente,

Carlos David Guachalla Terrazas  
Viceministro de Planificación y Coordinación  
Autoridad Designada del Estado Plurinacional de Bolivia





ESTADO PLURINACIONAL DE  
**BOLIVIA**

MINISTERIO DE  
PLANIFICACIÓN DEL DESARROLLO



ADAPTATION FUND

**Letter of Endorsement by Government**

**PLURINATIONAL STATE OF BOLIVIA**

July 29th, 2024

To: The Adaptation Fund Board  
c/o Adaptation Fund Board Secretariat  
Email: [afbsec@adaptation-fund.org](mailto:afbsec@adaptation-fund.org)  
Fax: 202 522 3240/5

Subject: Endorsement for **"An integrated system to assess hydrological status and outlook to help key economic sectors and vulnerable communities in South America adapt to climate change and build resilience"**

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

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by International Fund for Agricultural Development and executed by National Service of Meteorology and Hydrology (SENAMHI).

Sincerely,

Carlos David Guachalla Terrazas  
Viceminister of Planning and Coordination  
Designated Authority for Plurinational State of Bolivia





ADAPTATION FUND

Letter of Endorsement by Government



MINISTRY OF ENVIRONMENT AND CLIMATE CHANGE  
NATIONAL SECRETARIAT FOR CLIMATE CHANGE

Brasilia, October 14<sup>th</sup>, 2024

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

Subject: Endorsement for the project **"An integrated system to assess hydrological status to improve capacities of key economic sectors and vulnerable communities in South America adapt to climate change and build resilience (HydroSOS)"**.

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

Accordingly, I am pleased to endorse the above programme proposal with support from the Adaptation Fund. If approved, the project will be implemented by World Meteorological Organization (WMO) and executed by the Brazilian National Water Agency (Agência Nacional de Águas – ANA).

Sincerely,

A handwritten signature in blue ink, consisting of several overlapping loops and strokes.

Mrs. Ana Amélia Campos Toni  
National Secretary for Climate Change  
Ministry of Environment and Climate Change  
Esplanada dos Ministerios, Bloco B, 5th floor,  
CEP 70068-900, Brazil  
Tel: + (55) (61) 2028-1003 / 1888  
Email: gab.smc@mma.gov.br



Carta de apoyo del gobierno de Chile

26 de junio de 2024


A: La Junta del Fondo de Adaptación  
c/o Secretaría de la Junta del Fondo de Adaptación  
Correo electrónico: [afbsec@adaptation-fund.org](mailto:afbsec@adaptation-fund.org)  
Fax: 202 522 3240/5

Asunto: Apoyo para el proyecto denominado: *Un sistema integrado para evaluar el estado y las perspectivas hidrológicas para ayudar a los sectores económicos claves y comunidades vulnerables de América del Sur a adaptarse al cambio climático y desarrollar resiliencia*

En mi calidad de autoridad designada para el Fondo de Adaptación en Chile, confirmo que la propuesta de proyecto regional anterior está en consonancia con las prioridades del gobierno de Chile en la implementación de actividades de adaptación para reducir los impactos adversos y los riesgos que plantea el cambio climático en los países de América del Sur.

En consecuencia, me complace apoyar la propuesta de proyecto anterior con el apoyo del Fondo de Adaptación. Si se aprueba, el proyecto será implementado por la Organización Meteorológica Mundial y ejecutado en nuestro país por la Dirección Meteorológica de Chile

Atentamente,



Maritza Jadrijevic Girardi  
Jefa Departamento de Adaptación  
División de Cambio climático  
Ministerio del Medio Ambiente

	
Al responder por favor cite este numero 14002024E2024201	
Fecha Radicado: 2024-07-05 10:54:10	
Código de Verificación: b9d5f	Folios: 1
Radicator: Ventanilla Minambiente	Anexos: 0
Ministerio de Ambiente y Desarrollo Sostenible	

### Adaptation Fund Board

CC.Adaptation Fund Board Secretariat  
Email: Secretariat@Adaptation-Fund.org  
Bonn, Germany

**Subject:** Endorsement Letter - Project Integrated System to assess the hydrological status and prospects for assist economic sectors and vulnerable communities in South America.

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

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by World Meteorological Organization with National Institute of Hydrology, Meteorology and Environmental Studies (IDEAM), as a country technical partner.

Sincerely,



**MARÍA TERESA BECERRA RAMÍREZ**  
Chief of International Cooperation Office

Proyectó: Paola Bernal-Contratista-OAI  
Revisó: Daniela Almario-Contratista-OAI

Los arriba firmantes declaramos que hemos revisado el presente documento y lo encontramos ajustado a las normas y disposiciones legales y/o técnicas vigentes y, por lo tanto, bajo nuestra responsabilidad lo presentamos para la firma del Remitente



SC-2000142



SA-2000143



ADAPTATION FUND

**Letter of Endorsement by Government**

July 26, 2024

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

Subject: Endorsement for: *An integrated system to assess the state and hydrological prospects to help key economic sectors and vulnerable communities in South America adapt to climate change and develop resilience.*

In my capacity as designated authority for the Adaptation Fund in Ecuador, I confirm that the above regional project proposal is in accordance with the priorities of the national government and regional priorities, in the implementation of adaptation activities to reduce the adverse impacts and risks that he poses climate change in Ecuador and the Andean region.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by World Meteorological Organization and executed by National Institute of Meteorology and Hydrology (INAMHI).

Sincerely,



Angel Sandoval  
**CLIMATE CHANGE UNDERSECRETARY**  
Ministry of the Environment, Water and Ecological Transition of Ecuador





PERÚ

Ministerio  
del Ambiente

Viceministerio de  
Desarrollo Estratégico de  
los Recursos Naturales

Dirección General  
de Cambio Climático  
y Desertificación

*"Decenio de la Igualdad de Oportunidades para Mujeres y Hombres"*

*"Año del Bicentenario, de la consolidación de nuestra independencia, y de la conmemoración de las heroicas batallas de Junín y Ayacucho"*

Lima, August 7th, 2024

**LETTER Nr. 00104-2024-MINAM/VMDERN/DGCCD**

Messrs.

**The Adaptation Fund Board**

c/o Adaptation Fund Board Secretariat

Washington

United States

Email: [Secretariat@adaptation-fund.org](mailto:Secretariat@adaptation-fund.org)

Fax: 202 522 3240/5

**Subject :** Pre-concept note "An integrated system for evaluating hydrological status and outlooks to support key economic sectors and vulnerable communities in South America to adapt to climate change and build resilience".

The Ministry of the Environment of Peru is the governing body of the National Climate Change Strategy of Peru and the Designated Authority for the Adaptation Fund through the General Directorate of Climate Change and Desertification.

On this framework, we received the pre-concept note "An integrated system for evaluating hydrological status and outlooks to support key economic sectors and vulnerable communities in South America to adapt to climate change and build resilience". First, we would like to underline that the project will contribute improving the adaptation capacities of key socio-economic sectors, in particular vulnerable communities, to climate change through the provision of accessible, user oriented, gender responsive, and fit-for-purpose hydrometeorological information and services in Argentina, Bolivia, Brazil, Colombia, Chile, Ecuador, Guyana, Paraguay, Peru, Surinam, Uruguay y Venezuela.

Finally, I am pleased to endorse the pre-concept note mentioned above with support from the Adaptation Fund. If approved, we will ensure that the project is aligned with our climate change adaptation targets and that is duly coordinated with the World Meteorological Organization (WMO).

Sincerely yours,

**Berloska Quispe Estrada**

Head of the General Directorate of Climate Change and Desertification

Ministry of the Environment

Designated Authority



**MINISTRY OF SPATIAL PLANNING AND ENVIRONMENT**  
**DIRECTORATE FOR THE ENVIRONMENT**  
Prins Hendrikstraat 22, Paramaribo, Suriname  
Tel: +597 522021  
Email: [secdir.milieu@rom.gov.sr](mailto:secdir.milieu@rom.gov.sr)



Paramaribo, 27 June 2024

To: The Adaptation Fund Board  
c/o Adaptation Fund Board Secretariat  
Email: [afbsec@adaptation-fund.org](mailto:afbsec@adaptation-fund.org)  
Fax: 202 522 3240/5

Subject: Endorsement for an integrated system for evaluating hydrological status and outlooks to support key economic sectors and vulnerable communities in South America adapt to climate change and build resilience.

In my capacity as the designated authority for the Adaptation Fund in Suriname, I confirm that the abovementioned regional project 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 the country.

Accordingly, I am pleased to endorse the above project proposal with support from the Adaptation Fund. If approved, the project will be implemented by the World Meteorological Organization (WMO) and executed by the Ministry of Public Works as the local executing entity.

Sincerely,

A handwritten signature in blue ink, appearing to read "Ivette Pengel-Patterzon".

Mrs. Ivette Pengel-Patterzon  
Deputy Permanent Secretary Climate Change  
Ministry of Spatial Planning and Environment  
Republic of Suriname



Montevideo ,19 de Julio 2024

**Carta de apoyo del gobierno**  
Gobierno de Uruguay, Ministerio de Ambiente

Para: Junta del Fondo de Adaptación  
Cc: Secretaria de la Junta del Fondo de Adaptación  
Correo electrónico: [afbsec@adaptation-fund.org](mailto:afbsec@adaptation-fund.org)  
Fax:202 522 3240/5

**Asunto: Apoyo para la nota de pre-concepto del Proyecto Regional "Un sistema integrado para evaluar el estado y las perspectivas hidrológicas para ayudar a los sectores económicos claves y comunidades vulnerables de América del Sur a adaptarse al cambio climático y desarrollar resiliencia".**

En mi calidad de autoridad nacional designada para el Fondo de Adaptación en Uruguay, confirmo que la nota de pre-concepto propuesta del proyecto regional anterior está en consonancia con las prioridades nacionales del gobierno en la implementación de actividades de adaptación para reducir los impactos adversos y los riesgos debido al cambio climático en América del Sur.

En consecuencia, me complace apoyar la referida nota de pre-concepto con el apoyo del Fondo de Adaptación. Si se aprueba, el proyecto será implementado por la Organización Meteorológica Mundial (OMM)

Atentamente,

Natalie Pareja

**Directora Nacional de Cambio Climático**  
**Ministerio de Ambiente**

**Autoridad Nacional Designada para el Fondo de Adaptación**  
**Uruguay**

Ministerio de Ambiente  
Dirección Nacional de Cambio Climático  
Juncal 1385, piso 4  
Montevideo - Uruguay  
Teléfono: (+598 2) 9173380 int. 7390

03 de julio de 2024.

**A: La Junta del Fondo de Adaptación**  
**c/o Secretaría de la Junta del Fondo de Adaptación**  
**Correo electrónico: [afbsec@adaptation-fund.org](mailto:afbsec@adaptation-fund.org)**  
**Fax: 202 522 3240/5**

**Asunto:** Apoyo para el proyecto denominado: Un sistema integrado para evaluar el estado y las perspectivas hidrológicas para ayudar a los sectores económicos claves y comunidades vulnerables de América del Sur a adaptarse al cambio climático y desarrollar resiliencia.

En mi calidad de autoridad designada para el Fondo de Adaptación en la República Bolivariana de Venezuela, confirmo que la propuesta de proyecto regional anterior está en consonancia con las prioridades del gobierno nacional en la implementación de actividades de adaptación para reducir los impactos adversos y los riesgos que plantea el cambio climático en América del Sur.

En consecuencia, me complace apoyar la propuesta de proyecto anterior con el apoyo del Fondo de Adaptación. Si se aprueba, el proyecto será implementado por la Organización Meteorológica Mundial y ejecutado por el Instituto Nacional de Meteorología e Hidrología (INAMEH).

Atentamente,

  
**Miguel Alberto Serrano Orta**

Director General

Oficina de Integración y Asuntos Internacionales  
Designado mediante Resolución N° 1333 del 27/08/2019  
Publicada en Gaceta Oficial N° 41.704 del 28/08/2019

