



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

Countries¹: Argentina, Bolivia, Brazil, Colombia, Chile, Ecuador, Peru, Surinam, Uruguay, Venezuela

Thematic Focal Area²: 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, OTCA³, CIC⁴, and PROHMSAT Regional Center⁵

Amount of Financing Requested: 13.998.300 (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)

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

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

³ ACTO: Amazon Cooperation Treaty Organization

⁴ CIC: Intergovernmental Coordination Committee of the La Plata Basin Countries

⁵ 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. 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. 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.

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
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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.	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 different agencies and to stakeholders.	1.000.000	
Total Component 1			4.500.000	
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	2.1 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	2.1.1 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.	700.000	Argentina, Bolivia, Brazil, Colombia, Ecuador, Paraguay, Perú, Surinam, Uruguay, Venezuela, Chile
		2.1.2 Technical experts from regional institutions trained in S2S hydrological outlooks; WMO Regional Training Centers play a key role in this capacity-building process.	500.000	
	2.2 National risk management institutions	2.2.1 National risk management institutions and NMHSs, responsible for the provision of	500.000	

	work collaboratively with NMHSs to provide hydrological early warning services at S2S scale	hydrological outlooks, are coordinated for service provision through the establishment of, for example, action protocols, agreements.		
		2.2.2 Technical staff from national institutions responsible for risk management trained in the interpretation of S2S hydrological outlooks.	500.000	
Total Component 2			2.200.000	
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 vulnerable communities.	3.1 Selected economic sectors (agriculture, energy, fluvial transportation, environment, water supply, fisheries) have accessible, reliable, easy-to-understand products, adjusted to the decision-making needs, in relation to the hydrological status and the S2S outlooks.	3.1.1 Sector-specific communication and dissemination plans formulated and implemented in a participatory manner.	2.500.300	Argentina, Bolivia, Brazil, Colombia, Ecuador, Paraguay, Perú, Surinam, Uruguay, Venezuela, Chile
		3.1.2 Training provided to economic sectors on the interpretation of hydrological status and S2S outlook products to support science-based actions.	500.000	
	3.2: 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.	3.2.1 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	1.754.000	
Total Component 3			4.754.300	Total Components 11.454.300
6. Project/Programme Execution cost (EE fee 10%)				1.272.000
7. Total Project/Programme Cost				
8. Project/Programme Cycle Management Fee charged by the Implementing Entity (IE fee 10%)				
	12.726.300			
	1.272.630			
Amount of Financing Requested				13.998.300

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

The project's sustainability is ensured, first, by satisfied socio-economic 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.

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.

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.

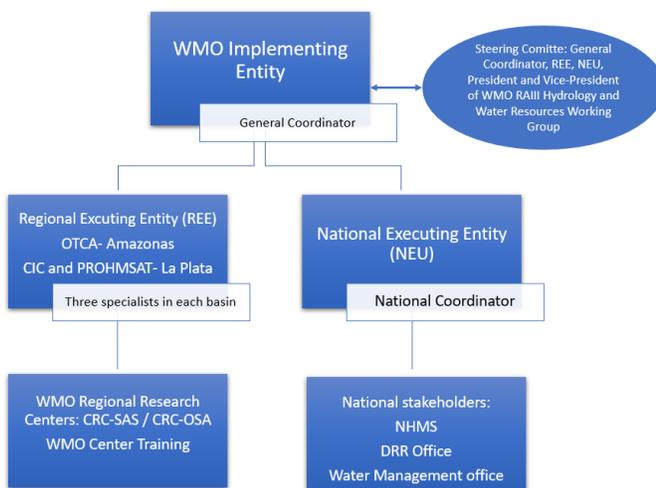
Regional Executing Entities (REE), will be responsible for the development of the outputs of components 1 and 2. These regional entities will be OTCA for the Amazon basin and CIC together with PROHMSAT Regional Center for the La Plata basin.

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.

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 RAIII Hydrology and Water Resources Working Group, the General Project Coordinator, and the focal points of each REE and each NEU. 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.



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

- A. Record of endorsement on behalf of the government⁶** *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 Maria 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 Jadrijevic 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*

<p>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>	
<p><i>Moyenda Chaponda</i></p> <p>Moyenda Chaponda Implementing Entity Coordinator Development Partnerships Office</p>	
Date: February 10, 2025	Tel. and email: +41 22 730 8646 and mchaponda@wmo.int
Project Contact Person: Silvana Alcoz	
Tel. And Email: +41227308381 salcoz@wmo.int	



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),

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
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
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 14th, 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



ADAPTATION FUND

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
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 número 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
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

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



Paramaribo, 27 June 2024

To: The Adaptation Fund Board
c/o Adaptation Fund Board Secretariat
Email: 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
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
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





Revised PFG Submission Form¹ (additions in red)

Project Formulation Grant (PFG)

Submission Date: 29 November 2024

Adaptation Fund Project ID:

Country/ies: Argentina, Bolivia, Brazil, Colombia, Chile, Ecuador, Peru, Surinam, Uruguay, Venezuela

Title of Project/Programme: *An integrated system for evaluating hydrological status and outlooks² to support key economic sectors and vulnerable communities in South America, to adapt to climate change and build resilience.*

Type of IE (NIE/RIE/MIE): **MIE**

Implementing Entity: World Meteorological Organization

Executing Entity/ies:

- **Argentina:** To be determined in next stage
- **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 Center³**

A. Project Preparation Timeframe

Start date of PFG	06/01/25
Completion date of PFG	07/31/25

B. Proposed Project Preparation Activities (\$)

List of Proposed Project Preparation Activities	Output of the PFG Activities	US\$ Amount	Budget note⁴
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¹ As presented in AFB/PPRC.33/40 Annex 1.

² HydroSOS, <https://wmo.int/es/node/21458>

³ 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

⁴ The proposal should include a detailed budget with budget notes indicating the break-down of costs at the activity level. It should also include a budget on the Implementing Entity management fee use.

Preparatory virtual meetings in preparation for the face-to-face workshop. of the WMO Working Group – Hydrology and Water Resources (WG-HWR) and key stakeholders.	-Participants to the face-to-face workshop identified. -Specific activities to be included in the project to achieve the outputs and potential demonstration cases per country identified	0 (none)	These activities will be carried out as part of WMO regular activities but with emphasis on project preparation during Dec 2024 and the first months of 2025.
Face-to-face workshop, with the participants identified during the preparation stage	-Activities, milestones, and indicators per output -Roles and responsibilities of each stakeholder in the project -Project resources allocation	40,000	Travel and DSA for approximately 20 participants, meeting expenditures.
Consultant to support concept note development	Concept note with the face-to-face output incorporated and including environmental and social risk management plan, M&E.	10,000	Self-service agreement (SSA) for a consultant/s.
Total Project Formulation Grant		50,000 (*)	

(*) It includes the 7% WMO Project Support Cost

Please describe below each of the PFG activities and provide justifications for their need and for funding required:

1. To maximize the benefit of the face-to-face workshop, we will conduct a series of virtual preparatory meetings with key stakeholders from December 2024 and during the first months of 2025. These meetings will help identify key participants for the face-to-face meeting and request specific information on human and technological resources, level of engagement with other institutional actors, potential beneficiary sectors, synergies, and complementarity of this project proposal with ongoing projects and consistency with national and subnational development strategies. The resulting information will also be input to the face-to-face workshop.
2. Face-to-face workshop of the WG-HWR and key stakeholders

A project to implement HydroSOS in Regional Association III has been developed by the WMO WG-HWR. The project preparation initiated during a face-to-face meeting in Bogota, Colombia in

December 2022 and continued in a second face-to-face meeting in Asunción, Paraguay in December 2023. Participants from 10 out of the 12 countries participated and contributed to the project development. It was then that the Adaptation Fund was identified as a potential source of funding. The first two meetings, focused on technical aspects that are part of component 1 of the project. During this proposed workshop to be funded by the AF Grant, more information and details will be gathered, to develop components 2 and 3 of the project.

Country specific information will be gathered to advance with the design of demonstration cases, training needs, tools, etc. Due to the limited resources available for 11 countries, a consensus will be sought among countries in the prioritization of activities at local, national, and regional levels.

3. Consultant/s will be hired to assist in the preparation of the concept note, incorporating the output of the face-to-face workshop, and focusing on environmental, social and gender policies of the Adaptation Fund, as well as the alignment of project components to the countries' NDCs.

For LLA Projects only:

If requesting additional funding for LLA projects to enable devolving decision making to the local level, please specify the activities that would directly serve to enable devolving decision making to the lowest appropriate level and enable local actors to make informed decisions on how adaptation actions are defined, prioritized, designed, and implemented:

Please provide justifications for their need and for the amount of additional funding required:

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.

Implementing Entity Coordinator, IE Name	Signature	Date (Month, day, year)	Project Contact Person	Telephone	Email Address
Moyenda Chaponda Implementing Entity Coordinator Development Partnerships Office, WMO	<i>Moyenda Chaponda</i>	29/11/2024	Silvana Alcoz	+41227308381	salcoz@wmo.int