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Intergovernmental  
Hydrological Programme

# Water and Energy Solutions Boosting Social Actions in Support of SDGs 3 and 4

## UNESCO IHP-LAC

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for Latin America and the Caribbean

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# Water and health



**3.9** By 2030, substantially reduce the number of deaths and illnesses from hazardous chemicals and air, **water** and soil pollution and contamination.

According to PAHO, in Latin America and the Caribbean:

-  28 million people lack a source of clean water
-  83 million people lack access to improved sanitation facilities
-  15.6 million people still defecate in the open

It is reported that out of **1,200 health facilities** evaluated in **6 countries of the Region...**

-  17% have no access to water supply networks
-  23% lack continuous water service 24 h/day



28% have no sewerage network to manage excreta



30% do not have operational toilets



37% have no material for washing hands (soap and water)

Source: <https://www.paho.org/es/temas/agua-saneamiento>



**curso virtual**  
**MANEJO INTEGRAL DEL AGUA Y EL SANEAMIENTO CON ÉNFASIS EN ESTABLECIMIENTOS DE SALUD**



**17, 18 SEP**  
**12-16 h** URU/ARG/BRA



Con el apoyo de: 

**curso virtual**  
**TECNOLOGÍAS DE AGUA, SANEAMIENTO, HIGIENE Y RESIDUOS CON ÉNFASIS EN ESTABLECIMIENTOS DE SALUD**



**22, 24 SEP**  
**12-16 h** URU/ARG/BRA



Con el apoyo de: 




**Webinar**  
**Herramientas de gestión para el sector hídrico de América Latina y el Caribe para enfrentar el COVID-19**  
Jueves 2 de abril de 2020

\*1300s (Costa Rica, Nicaragua, El Salvador, Honduras, Guatemala, México)  
\*1400s (Colombia, Ecuador, Panamá, Perú)  
\*1500s (Bielorrusia, Cuba, República Dominicana, Venezuela, Haití, Paraguay)  
\*1600s (Argentina, Brasil, Chile, Uruguay)

Conexión a la videoconferencia:  
<https://paho.webex.com/jmeet/joetunadoe>

Más información:  
Miguel Doria [m.doria@unesco.org](mailto:m.doria@unesco.org)  
Patricia Segura [segura@unep.org](mailto:segura@unep.org)



**Seminario web**  
**Garantizar el acceso al agua en el contexto de COVID-19 en América Latina y el Caribe**  
Jueves 21 de mayo de 2020

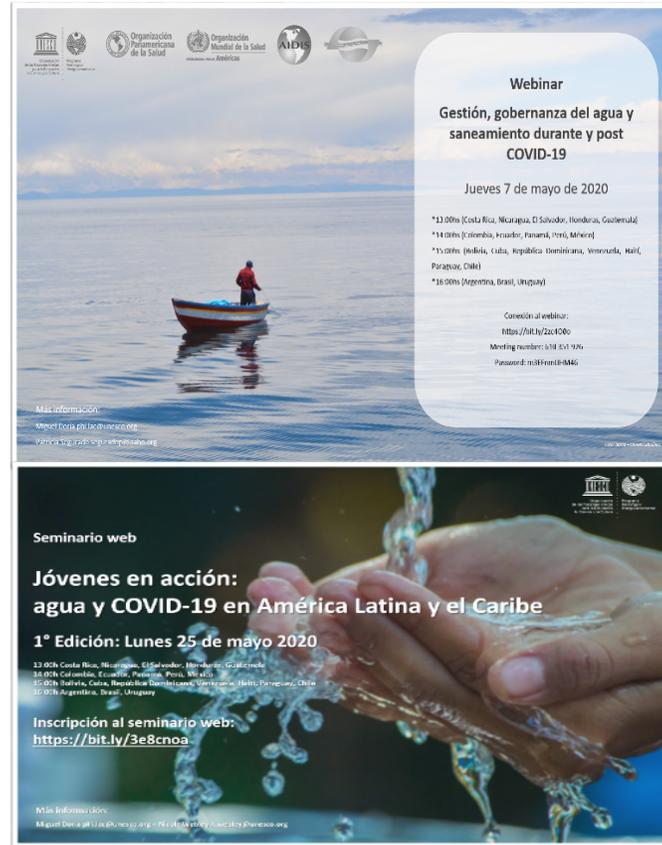
Conexión <https://bit.ly/3dEONPN>  
Meeting number: 613 916 466  
Password: CDE123

\*1300s Costa Rica, Nicaragua, El Salvador, Honduras, Guatemala  
\*1400s Colombia, Ecuador, Panamá, Perú, México  
\*1500s Bielorrusia, Cuba, República Dominicana, Venezuela, Haití, Paraguay, Chile  
\*1600s Argentina, Brasil, Uruguay

Más información:  
Miguel Doria [m.doria@unesco.org](mailto:m.doria@unesco.org)  
Patricia Segura [segura@unep.org](mailto:segura@unep.org)



“Water and COVID-19 in LAC” publication in process



**Webinar**  
**Gestión, gobernanza del agua y saneamiento durante y post COVID-19**  
Jueves 7 de mayo de 2020

\*1300s (Costa Rica, Nicaragua, El Salvador, Honduras, Guatemala)  
\*1400s (Colombia, Ecuador, Panamá, Perú, México)  
\*1500s (Bielorrusia, Cuba, República Dominicana, Venezuela, Haití, Paraguay, Chile)  
\*1600s (Argentina, Brasil, Uruguay)

Conexión al webinar:  
<https://bit.ly/2x400b>  
Meeting number: 318 511 136  
Password: m3HFnHil-8M6

Más información:  
Miguel Doria [m.doria@unesco.org](mailto:m.doria@unesco.org)  
Patricia Segura [segura@unep.org](mailto:segura@unep.org)

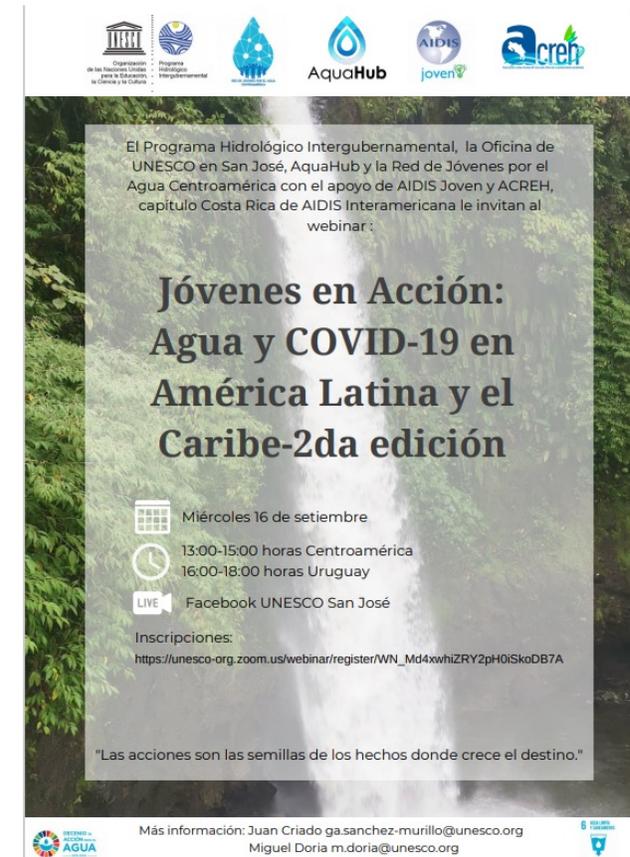
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**Seminario web**  
**Jóvenes en acción: agua y COVID-19 en América Latina y el Caribe**  
1ª Edición: Lunes 25 de mayo 2020

13:00h Costa Rica, Nicaragua, El Salvador, Honduras, Guatemala  
14:00h Colombia, Ecuador, Panamá, Perú, México  
15:00h Bielorrusia, Cuba, República Dominicana, Venezuela, Haití, Paraguay, Chile  
16:00h Argentina, Brasil, Uruguay

Inscripción al seminario web:  
<https://bit.ly/3e8cnoa>

Más información:  
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Patricia Segura [segura@unep.org](mailto:segura@unep.org)



El Programa Hidrológico Intergubernamental, la Oficina de UNESCO en San José, AquaHub y la Red de Jóvenes por el Agua Centroamérica con el apoyo de AIDIS Joven y ACREH, capítulo Costa Rica de AIDIS Interamericana le invitan al webinar:

**Jóvenes en Acción: Agua y COVID-19 en América Latina y el Caribe-2da edición**

Miércoles 16 de setiembre  
13:00-15:00 horas Centroamérica  
16:00-18:00 horas Uruguay  
Facebook UNESCO San José

Inscripciones:  
[https://unesco.org.zoom.us/webinar/register/WN\\_Md4xwhiZRY2pH0iSk0DB7A](https://unesco.org.zoom.us/webinar/register/WN_Md4xwhiZRY2pH0iSk0DB7A)

“Las acciones son las semillas de los hechos donde crece el destino.”

Más información: Juan Criado [ga.sanchez-murillo@unesco.org](mailto:ga.sanchez-murillo@unesco.org)  
Miguel Doria [m.doria@unesco.org](mailto:m.doria@unesco.org)

# Water and education



The SDGs aim for universal access to WASH and inclusive and effective learning environments for all

SDG	SDG TARGETS AND INDICATORS
 <p><b>Goal 6: Ensure availability and sustainable management of water and sanitation for all</b></p>	<p><b>6.1</b> By 2030, achieve <b>universal</b> and equitable access to safe and affordable drinking water <b>for all</b></p> <p><b>6.2</b> By 2030, achieve access to adequate and equitable sanitation and hygiene for all and end open defecation, paying special attention to the needs of women and <b>girls</b> and those in vulnerable situations</p>
 <p><b>Goal 4: Ensure inclusive and quality education for all and promote lifelong learning</b></p>	<p><b>4.a</b> Build and upgrade education facilities that are child, disability and gender sensitive and provide safe, non-violent, inclusive and effective learning environments <b>for all</b></p> <p><b>4.a.1</b> Proportion of schools with <b>access to</b> access to: (a) electricity; (b) the internet for pedagogical purposes; (c) computers for pedagogical purposes; (d) adapted infrastructure and materials for students with disabilities; <b>(e) basic drinking water; (f) single-sex basic sanitation facilities; and (g) basic handwashing facilities</b> (as per the WASH indicator definitions)</p>

Globally, 69% of schools had a basic drinking water service in 2016

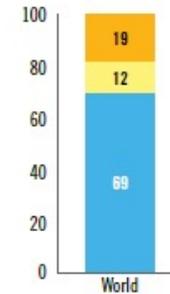


FIGURE 2: Global school drinking water coverage, 2016 (%)

Five out of eight SDG regions had estimates for basic drinking water services in schools in 2016

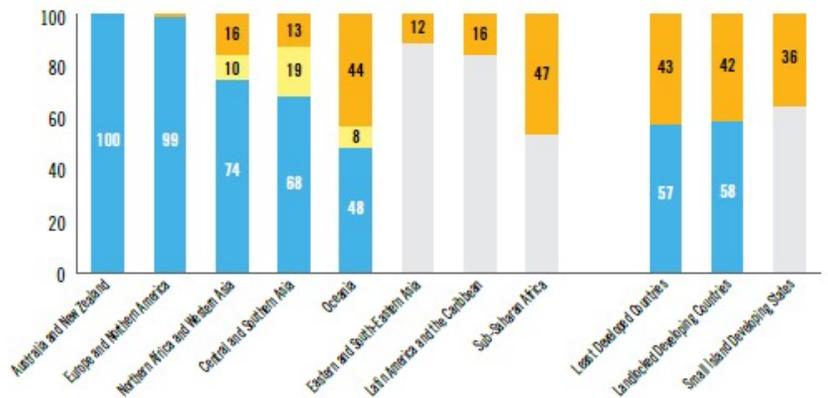


FIGURE 3: Regional school drinking water coverage, 2016 (%)

58 out of 92 countries had >75% coverage of basic drinking water services in schools in 2016

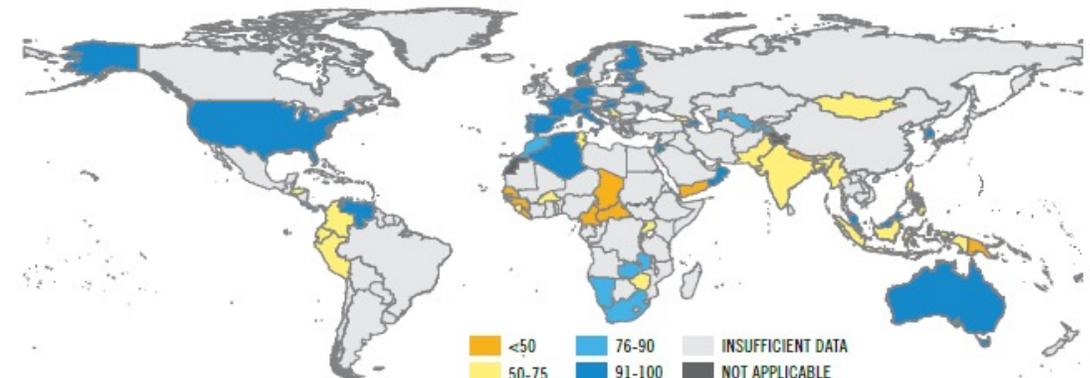


FIGURE 4: Proportion of schools with a basic drinking water service, by country, 2016 (%)



## Drinking water in schools (2016)

- 92 countries had sufficient data to estimate coverage of basic drinking water services in schools
- 69% of schools had a basic drinking water service
- Nearly 570 million children worldwide lacked a basic drinking water service at their school
- 19% of schools had no drinking water service at all
- Drinking water quality varied widely in the few countries with data available

Source: Drinking water, sanitation and hygiene in schools: global baseline report 2018. New York: United Nations Children's Fund (UNICEF) and World Health Organization, 2018.

# Water and education





Seminario web

## Agua, saneamiento y lavado de manos en entornos educativos

Retos y oportunidades en tiempos de COVID-19

Miércoles 3 de junio 2020

13:00h Costa Rica, Nicaragua, El Salvador, Honduras, Guatemala  
 14:00h Colombia, Ecuador, Panamá, Perú, México  
 15:00h Bolivia, Cuba, República Dominicana, Venezuela, Haití, Paraguay, Chile  
 16:00h Argentina, Brasil, Uruguay

Ingreso al seminario web:  
<https://bit.ly/2TDg39u>

Más información:  
 Miguel Dorja [ph.dorja@unesco.org](mailto:ph.dorja@unesco.org)  
 Patricia Segurado [segurado@paho.org](mailto:segurado@paho.org)

Foto: Foto en el agua - (WFP) / Jent

**WEBINAR**

## Cómo influye la Educación y Cultura del Agua ante el Covid-19

12 agosto 2020  
4PM  
Horario Local Montevideo, Uruguay

Acceso Gratuito

Sigue el webinar en:  
 Educación y Cultura del Agua

**OBJETIVO**

Analizar desde el punto de vista de organizaciones representativas de países en Latinoamérica, como la Educación y Cultura, promueve acciones educativas de calidad sobre el agua, a través de la difusión, siendo esta, una de las herramientas de la sociedad para llevar a cabo acciones que impacten, llevando al cambio de conocimientos, actitudes, percepciones o comportamientos.

**PARTICIPANTES**

- Marta Paris** (Argentina) - Cabeza UNESCO "Agua y Educación para el Desarrollo Sostenible"
- Vera Lúcia de Miranda** (Brasil) - Cabeza UNESCO "Agua, Mujeres y Desarrollo", Universidad de Ouro Preto
- Oscar Luna** (México) - Subdirector de Coordinación y Comunicación del Sistema de Aguas de la Ciudad de México
- Carmen Rodríguez** (Colombia) - Representante del Subgrupo de trabajo "Educación en agua para la infancia, juventud y estudiantes", UNESCO/UNICEF
- Javier Taks** (Uruguay) - Cabeza UNESCO "Agua y Cultura" y Exponente del Subgrupo de trabajo "Agua y Cultura" ante la UNESCO.

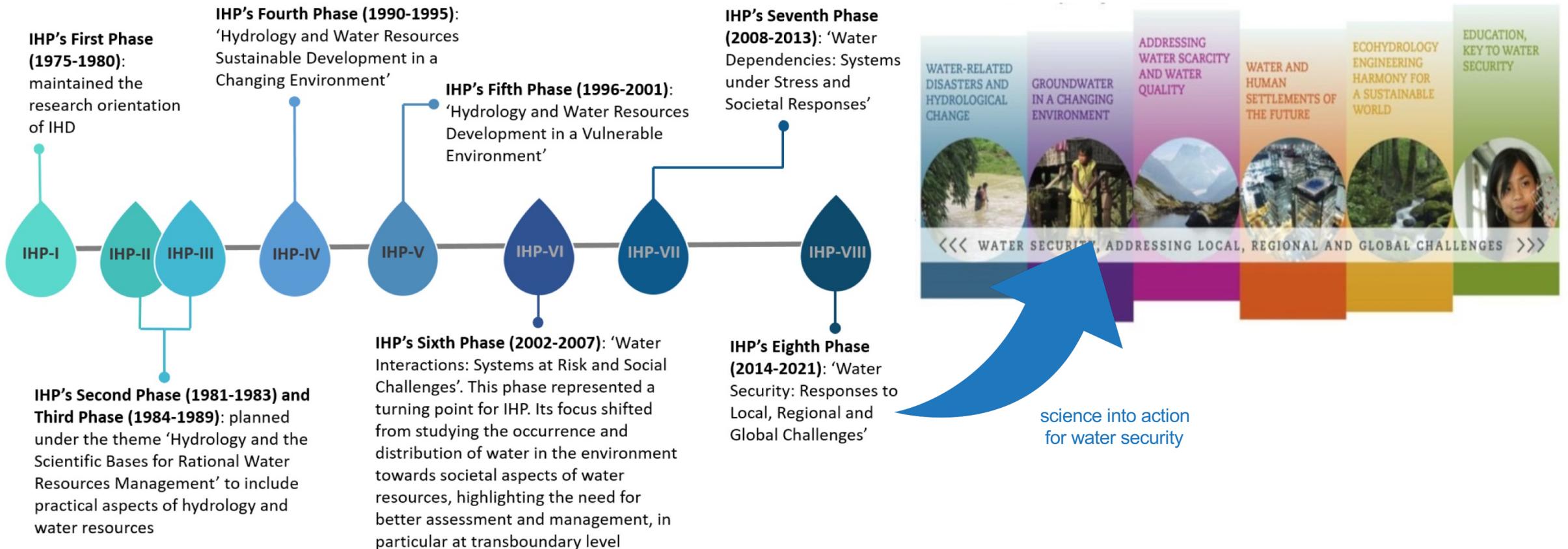
**MODERADORES**

- Miguel Dorja** - Director Regional PIRE en Montevideo
- Rafael Val** - Coordinador Regional del Grupo de Trabajo sobre Educación y Cultura del Agua en América Latina y el Caribe (PHE-LAC)

# The UNESCO Intergovernmental Hydrological Programme (IHP)



The only intergovernmental programme of the UN devoted to **water** research and management, and related **education** and capacity development.



# UNESCO IHP-LAC Actions for Education (SDG4)



- ✓ IHP-LAC Water Education and Cultures Working Group
- ✓ 13 Water-related UNESCO Chairs in LAC
- ✓ 6 Water-related Cat. II UNESCO Centers in LAC

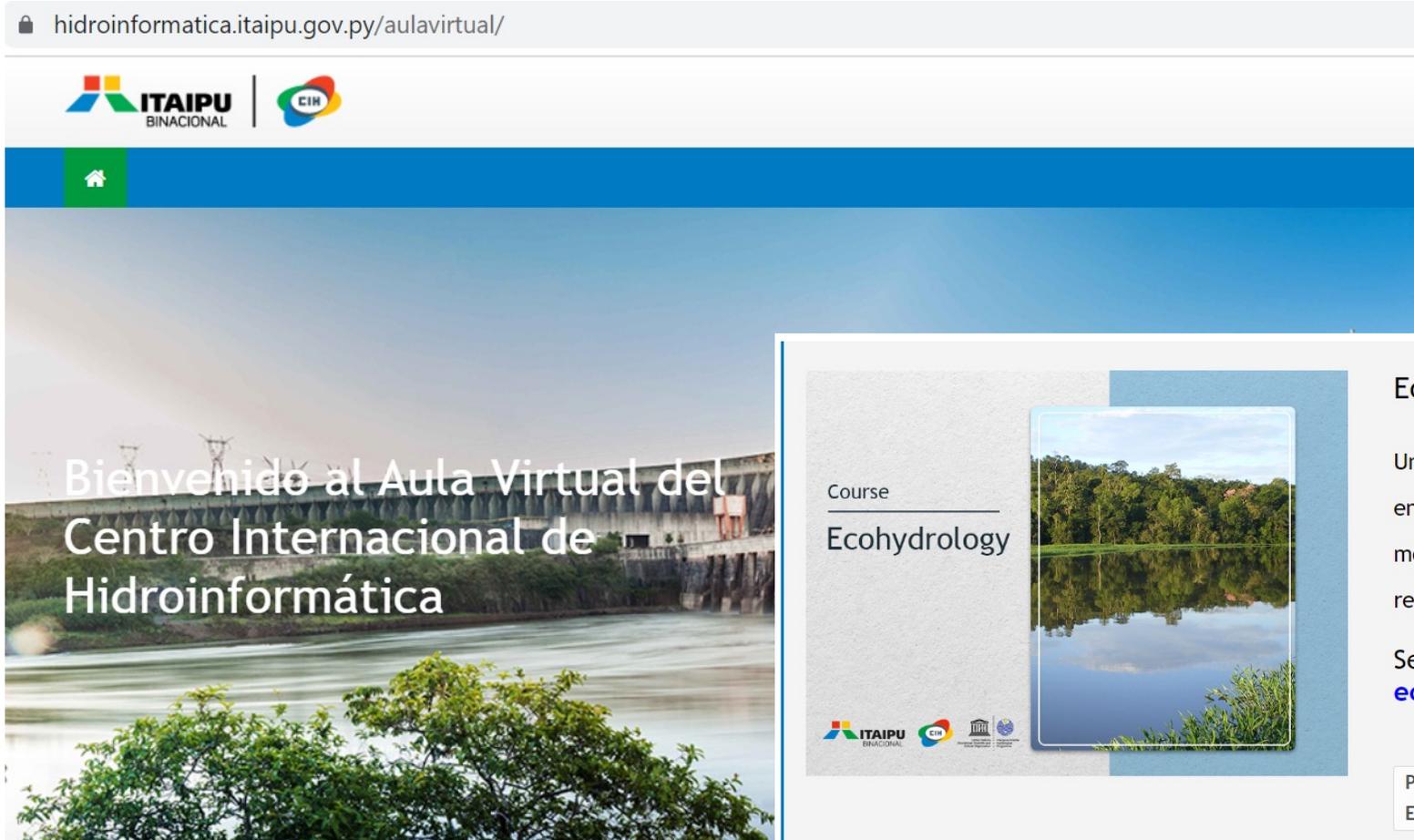


**The WATER FAMILY**





hidroinformatica.itaipu.gov.py/aulavirtual/



Course  
**Ecohydrology**





### Ecohydrology

Understand how ecohydrology science and its solution-oriented tools can enhance the sustainability potential of ecosystems (carrying capacity) from molecular to catchment scale with a holistic perspective by increasing resilience and reducing global change impacts in ecosystems.

Self enrolment course, please use the enrolment key:  
**[ecohydrology](#)**

Profesor: José Gaona  
Estudiantes inscritos: 279

[Enter this course](#)

# UNESCO IHP-LAC Activities (2020-2021)

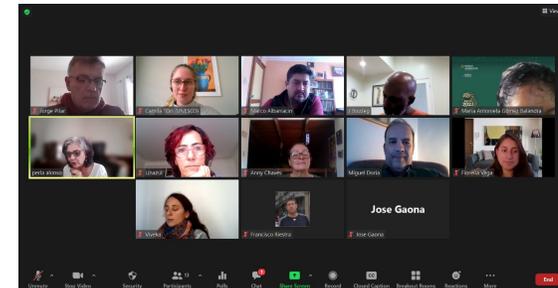


**VIRTUAL COURSES**  
8 virtual courses  
+ 5.000 participantes

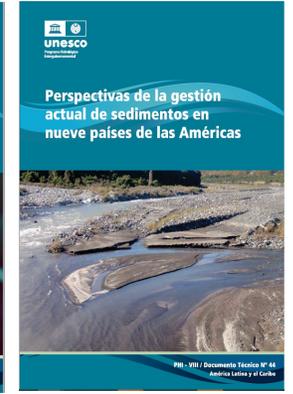
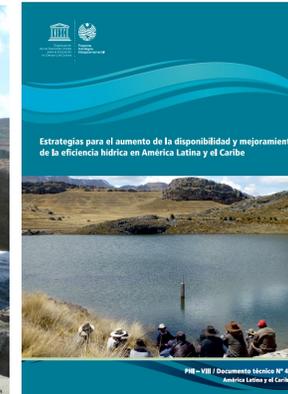
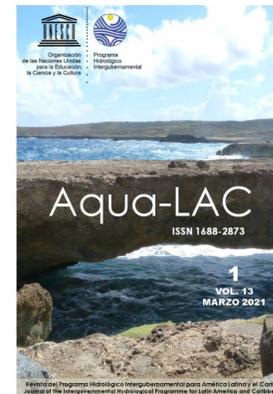
**PUBLICATIONS**  
4 publications  
Scientific Journal  
Technical Serie

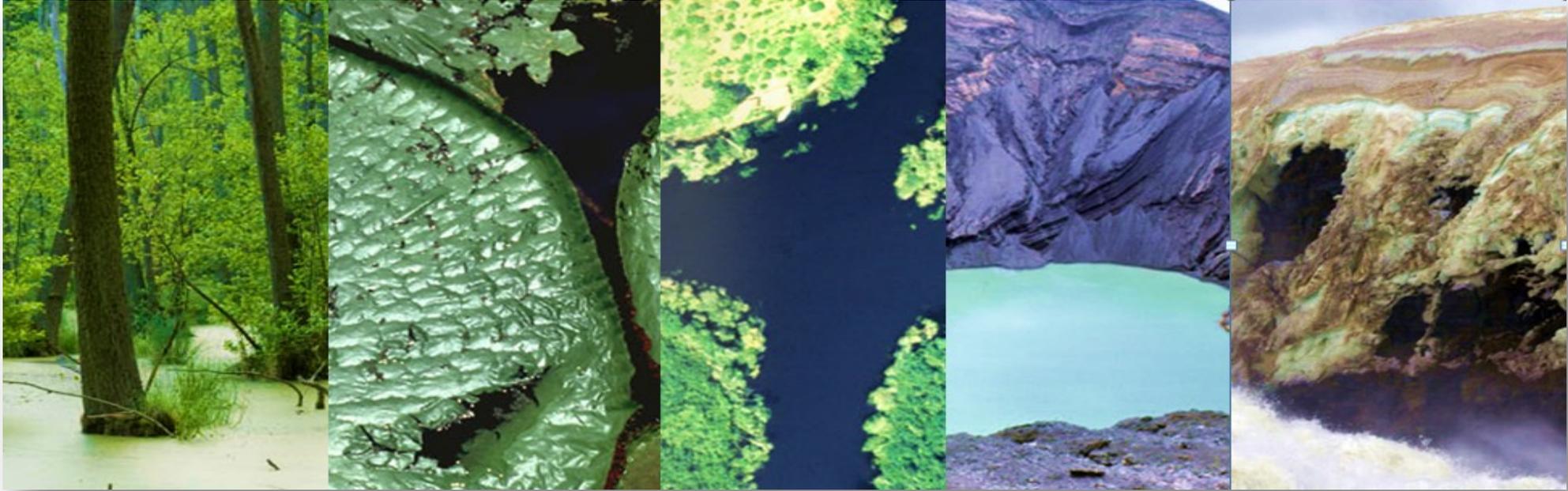


**WEBINARS**  
26 webinars  
+ 20.000 participants



**WORKING GROUPS**  
6 Themes IHP VIII  
13 Working Groups  
+45 meetings





**iThank you!**

**Miguel Doria**

**UNESCO Regional Bureau for Science  
for Latin America and the Caribbean**

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