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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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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

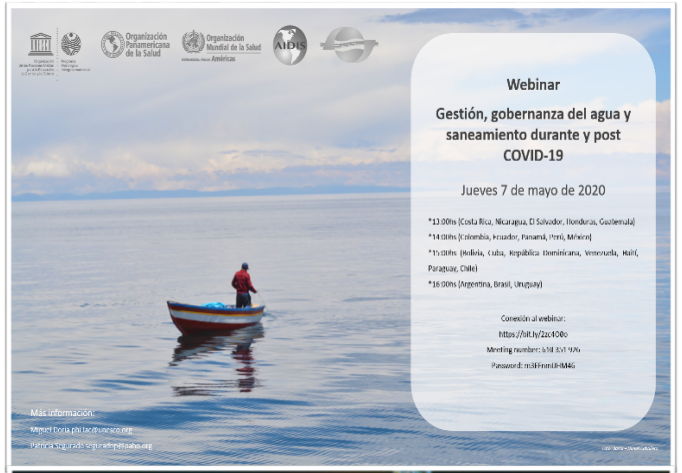
It is reported that out of 1,200 health facilities evaluated in 6 countries of the Region...

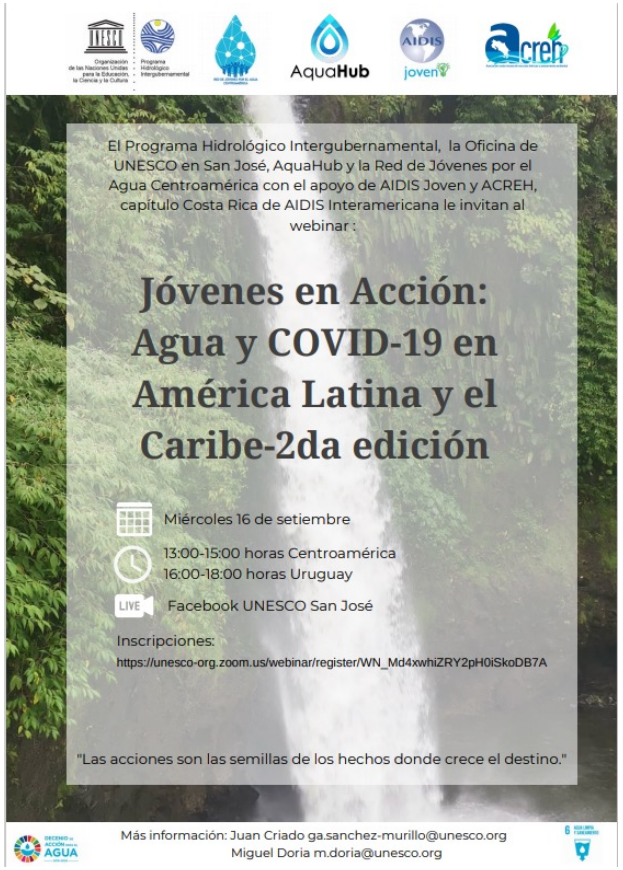
- 17% have no access to water supply networks
- 23% lack continuous water service 24 h/day
- 28% have no sewerage network to manage excreta
- 30% do not have operational toilets
- 37% have no material for washing hands (soap and water)

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

UNESCO IHP-LAC Actions for Health (SDG3)

UNESCO IHP-LAC Actions at COVID-19





"Water and COVID-19 in LAC" publication in process

Water and education

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

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

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.

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

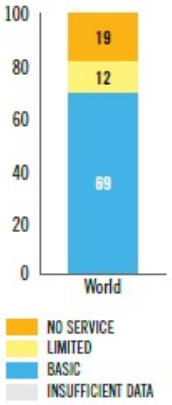


FIGURE 2: Global school drinking water coverage, 2016 (%)

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

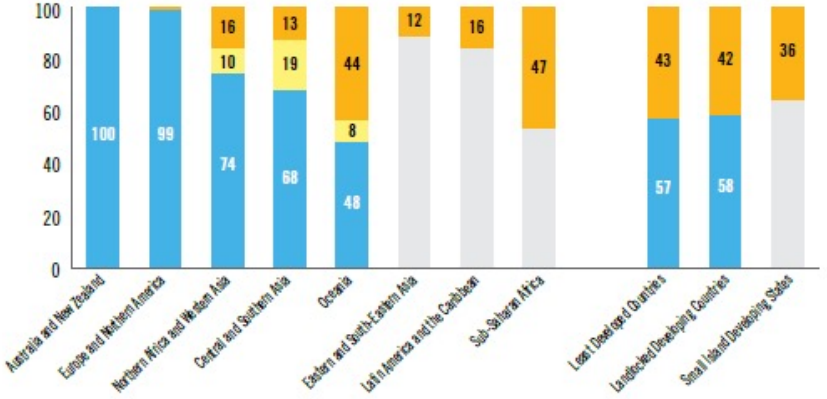


FIGURE 3: Regional school drinking water coverage, 2016 (%)

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

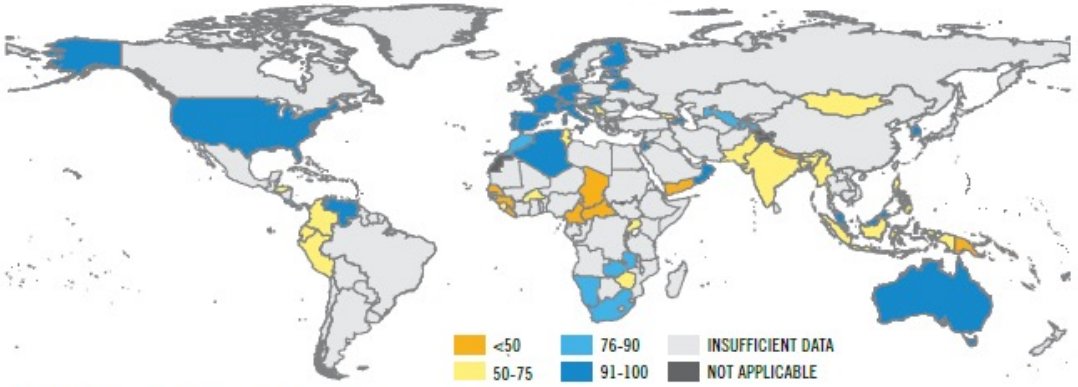


FIGURE 4: Proportion of schools with a basic drinking water service, by country, 2016 (%)

Water and education

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.

IHP's First Phase (1975-1980): maintained the research orientation of IHD

IHP's Second Phase (1981-1983) and Third Phase (1984-1989): planned under the theme 'Hydrology and the Scientific Bases for Rational Water Resources Management' to include practical aspects of hydrology and water resources

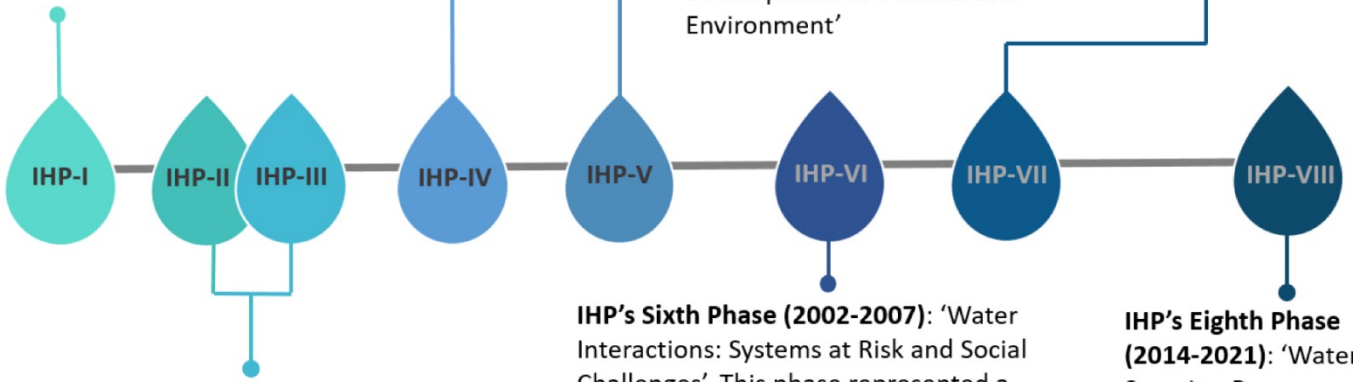
IHP's Fourth Phase (1990-1995): 'Hydrology and Water Resources Sustainable Development in a Changing Environment'

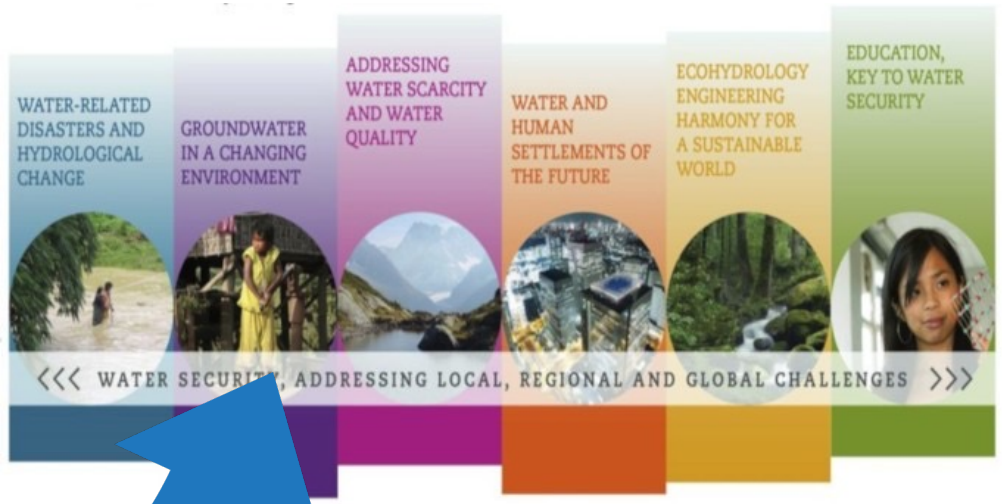
IHP's Fifth Phase (1996-2001): 'Hydrology and Water Resources Development in a Vulnerable Environment'

IHP's Sixth Phase (2002-2007): 'Water Interactions: Systems at Risk and Social Challenges'. This phase represented a turning point for IHP. Its focus shifted from studying the occurrence and distribution of water in the environment towards societal aspects of water resources, highlighting the need for better assessment and management, in particular at transboundary level

IHP's Seventh Phase (2008-2013): 'Water Dependencies: Systems under Stress and Societal Responses'

IHP's Eighth Phase (2014-2021): 'Water Security: Responses to Local, Regional and Global Challenges'





science into action for water security

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**

Hydrometeorological Risks, University of the Americas, Mexico

Water in the Knowledge Society, IMTA, Mexico

Water Resources Sustainability, University of San Carlos de Guatemala

Tropical Freshwater Management, IKIAM, Ecuador

Integrated Water Resources Management, Universidad Piloto de Colombia -Pontificia University Javeriana, Colombia

CIH, Paraguay

Surface Hydrology, University of Talca, Chile

CAZALAC, Chile

Water and Education for Sustainable Development, UNL, Argentina

CERSHI, Mexico

CEHICA, Dominican Republic

Water, Women and Governance, IGLOBAL, Dominican Republic

Sustainable Water Technology and Management, University of Curacao

Water, Women and Development, UFOP, Brazil

Urban Drainage in Coastal Regions, UFRJ, Brazil

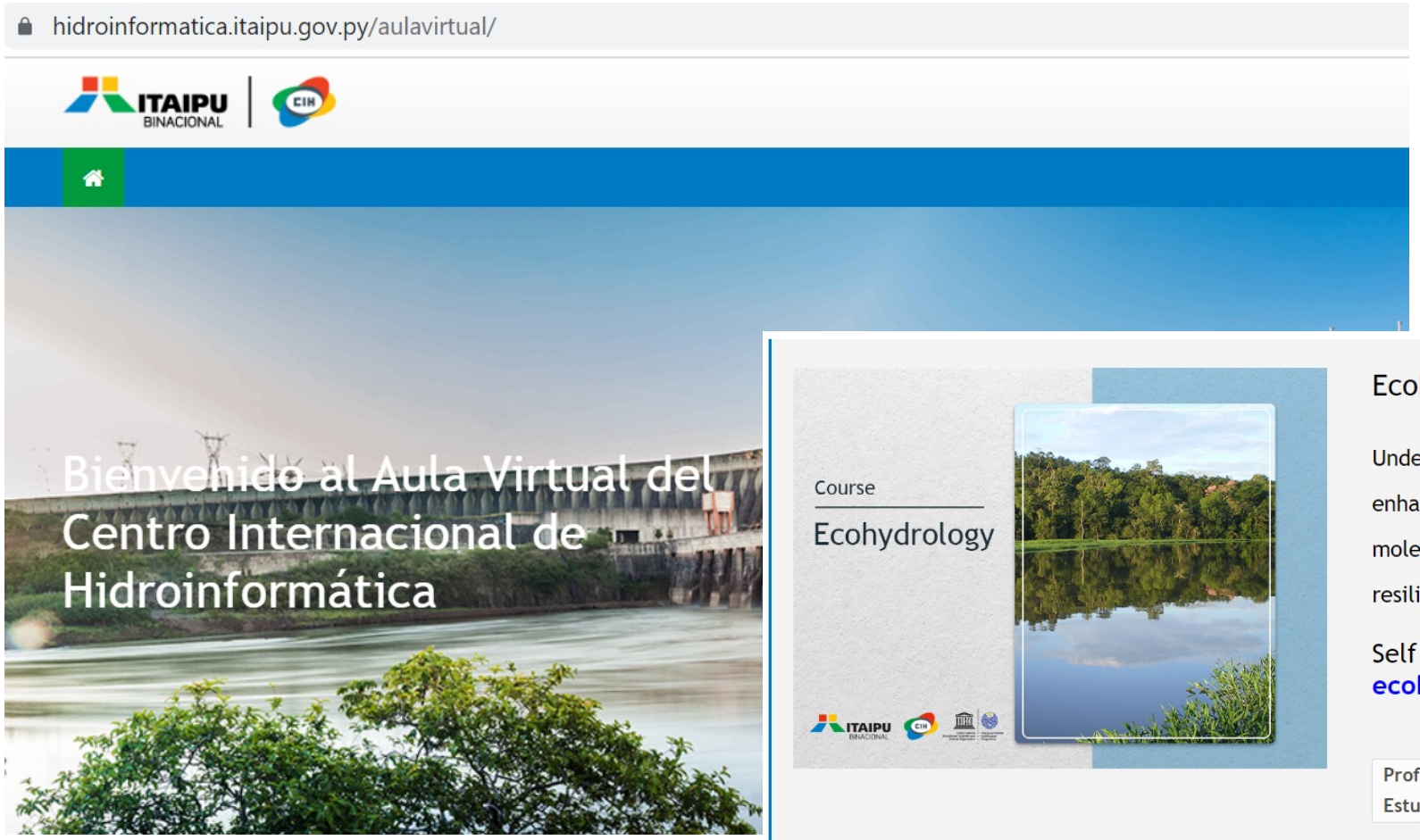
Urban Water Quality Management, USP, Brazil

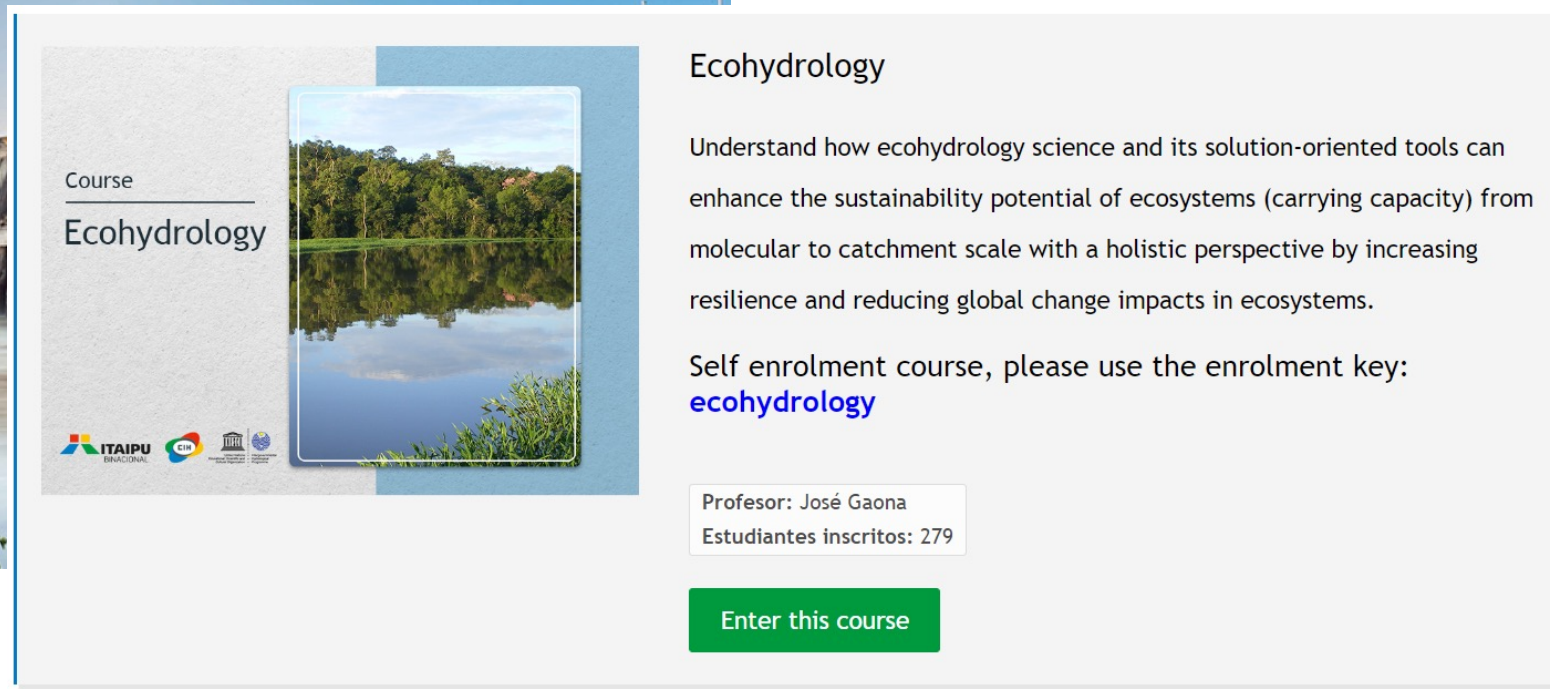
Water and Culture, UDELAR, Uruguay

CERTS, Uruguay

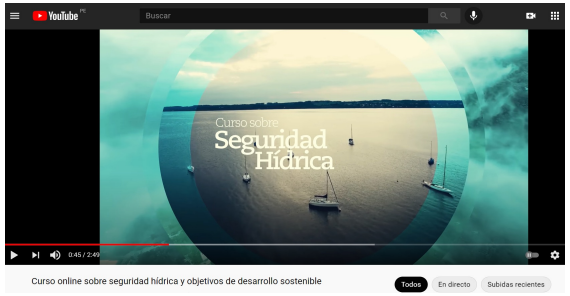
CeReGAS, Uruguay

International Hydroinformation Center - ITAIPU BINACIONAL
UNESCO Cat II Center





UNESCO IHP-LAC Activities (2020-2021)



VIRTUAL COURSES

8 virtual courses
+ 5.000 participantes

WEBINARS

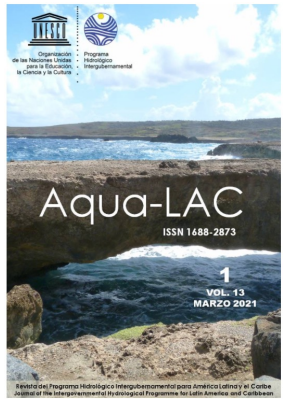
26 webinars
+ 20.000 participants

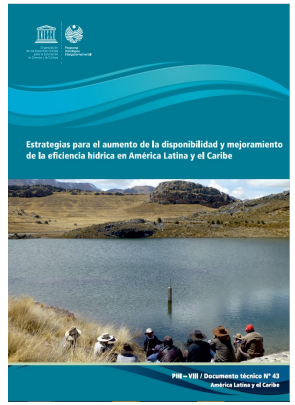
WORKING GROUPS

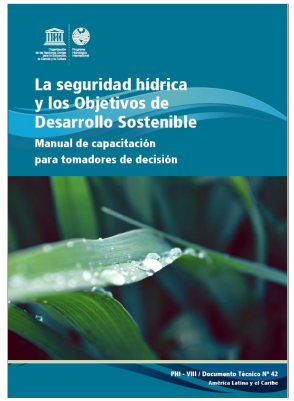
6 Themes IHP VIII
13 Working Groups
+45 meetings

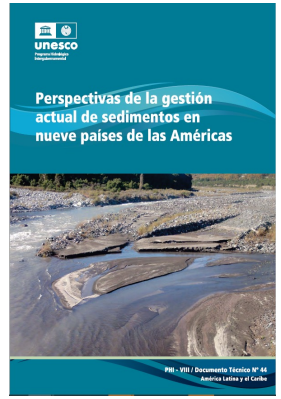
PUBLICATIONS

4 publications
Scientific Journal
Technical Serie









¡Thank you!

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