UNITED NATIONS
Office for Outer Space Affairs

Space4water

Highlights of Space4Water Activities in 2022

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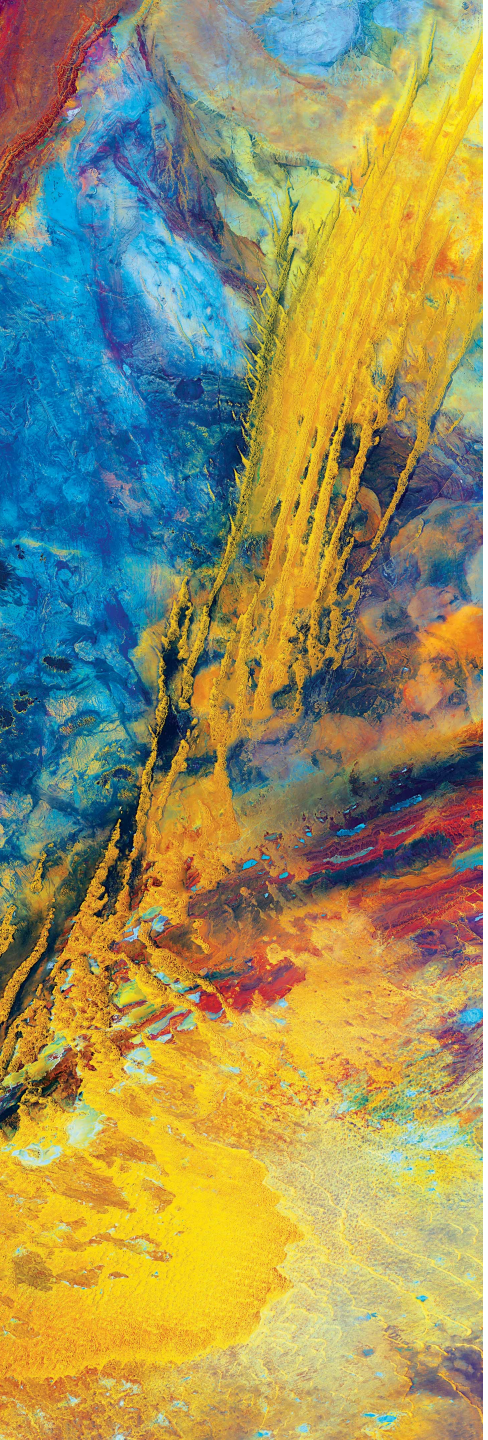
www.space4water.org

www.unoosa.org

Space4water PORTAL



The Partners

2016

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Prince Sultan Bin Abdulaziz
International Prize for Water

2018

space4water
PORTAL

2020

Agreement until 2026

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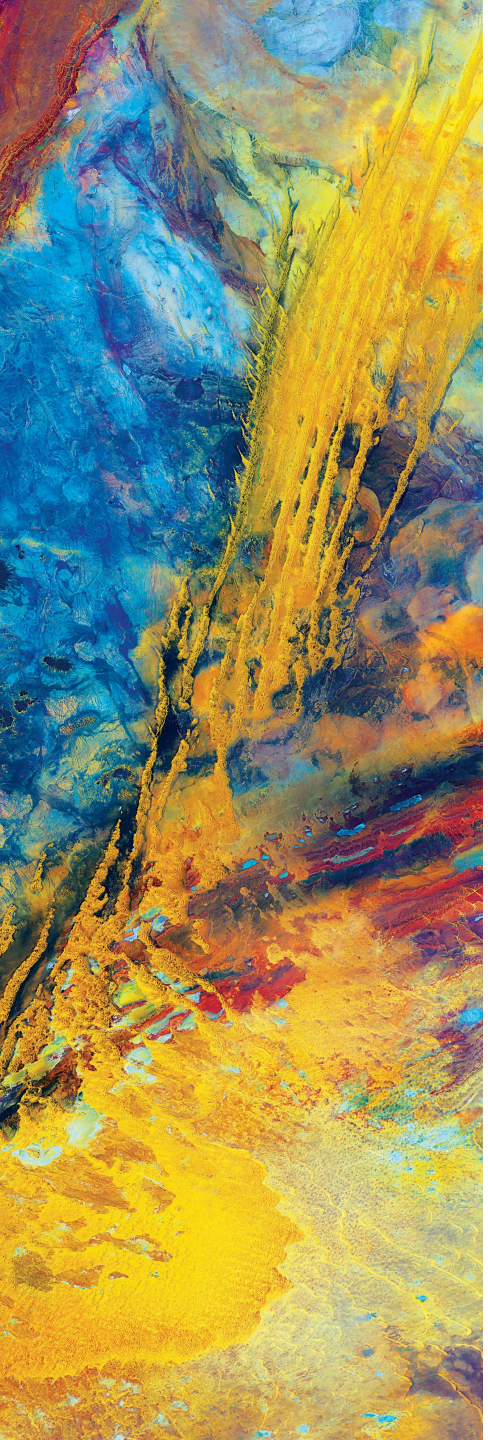
Portal

Community

Conferences



2022 Highlights

I. Events organised

II. The Space4Water Portal

III. Reports

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Events organised

UNITED NATIONS | GHANA | PSIPW

5TH INTERNATIONAL CONFERENCE ON THE USE OF SPACE TECHNOLOGY FOR WATER RESOURCES MANAGEMENT

10th–13th May, 2022

Alisa Hotel, North Ridge

GHANA and ONLINE

Prince Sultan Bin Abdulaziz International Prize for Water

MINISTRY OF FOREIGN AFFAIRS AND REGIONAL INTEGRATION
REPUBLIC OF GHANA

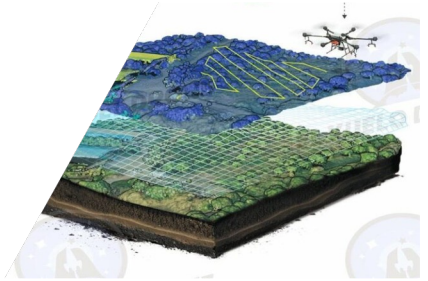
MINISTRY OF EDUCATION
REPUBLIC OF GHANA

UENR University of Energy and Natural Resources

United Nations/Ghana/PSIPW – 5th International Conference on Space Technologies for Water Resource Management

- High-level participation
- 838 registrations
- 29% women
- Participants from 99 countries
- 24h of content presented
- 107 speakers, with 76 males and 31 females
- Participant rating: 4.48 of 5 points

Participatory workshop for Indigenous women on their roles and responsibilities related to water



- 6 women from 6 communities and countries

- Objectives:
  - Active exchange on the ways Indigenous communities relate to water
  - Capacity building: what can be done using space-based solutions
  - Identification of user needs towards the space sector
  - Bringing identified user needs to the Space4Water stakeholders
  - Deriving from that requirements for the space sector to develop applications by which Indigenous communities can be supported

Indigenous voices & water related challenges

Nokubonga Nokwanda Mazibuko-Ngidi
Commissioner for the Commission on Khoi-San Matters at the South African Department of Traditional Affairs

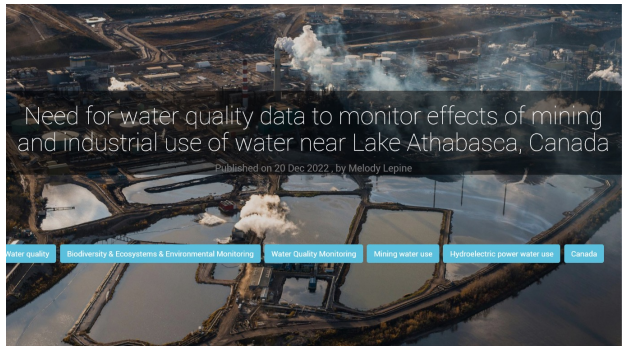
Melody Lepine
Director, Mikisew Cree First Nation

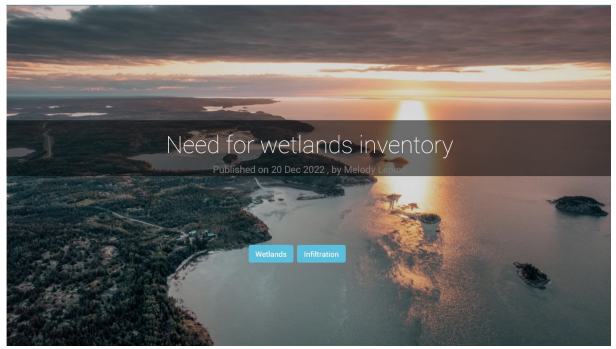
Cadence Kaumoana
Chair, Te Huia & Rangiwherowhero Trust

Tania Eulalia Martinez Cruz
Research Associate at Free University of Brussels

Alicia Simón Sisimit
Staff at the Press Department of the Ministry of Foreign Affairs of Guatemala; Kaqchikel journalist and activist

Lilian Nguracha Balanga
Founder of Women .conserve at Samburu women





Climate Zone
Semi-arid

Moderation state	Change to	Log message	
Draft	Ready for Publication		Apply

23 views
The Samburu community in Kenya are pastoralists as they keep animals which is their main source of livelihood. They move from place to place in search of adequate pasture lands and water. Due to the recent dry spell, water sources are dry and there is no water. Both women and girls are walking long distances of about 20 kilometres per day to search for water. This search usually goes on from day until night. In order to save the water they bring back home, some women and girls bath wherever they find the water. The long journeys they partake on in search for and carrying water has impacted their wellbeing as some of them are suffering from backaches. In addition, the water they collect is not so clean to be suitable for drinking, but because they have no other options, they consume this water resulting in them suffering from water-related illnesses. School children have to bring their own water in one or two litre bottles from their homes to school because there is no water in school.

Success crtieria
Access to safe drinking water sources for the Samburu tribe within a five kilometre of the villages or communities.

Challenge-ID
35

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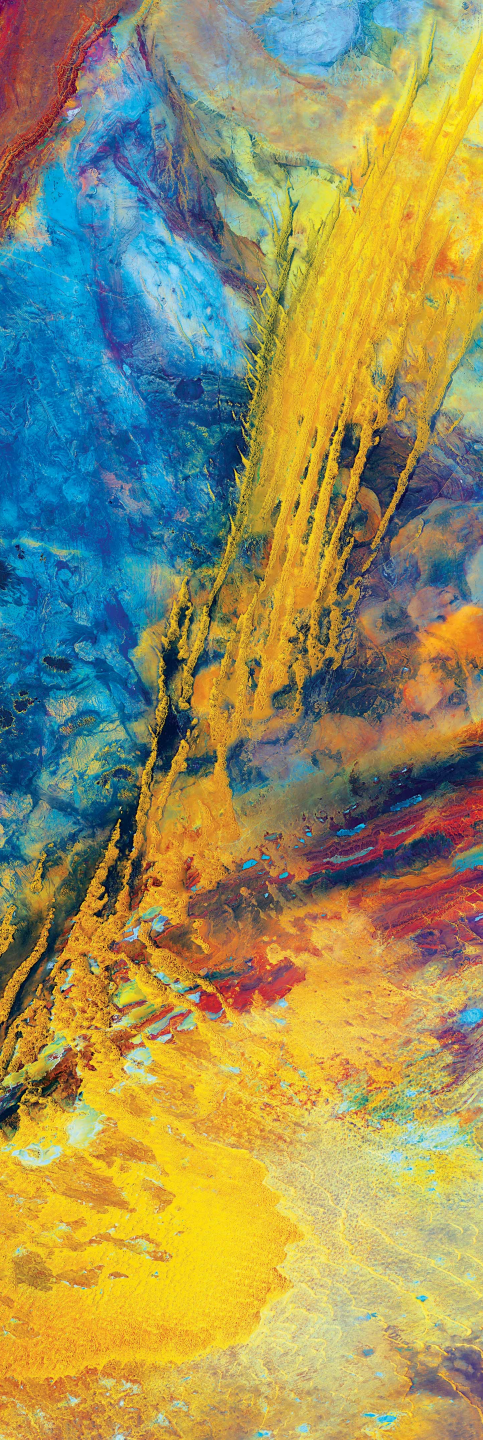
1st space4water Stakeholder Meeting

27-28 October 2022

Vienna International Centre



First Space4Water Stakeholder Meeting

- 80 registrations, ~ 25% women
- 16 participants representing Space4Water stakeholders, professionals and young professionals,
  37.5 % women, 4 Space Agencies
- Very interactive meeting
- Exchange on water challenges and space-based solutions
- Event rating by participants: 4.8 of 5
- Decisions included
  - Host regular stakeholder meetings 2x/year
  - Develop good practices
  - Work on water user needs towards the space sector
  - Matching challenges and solutions

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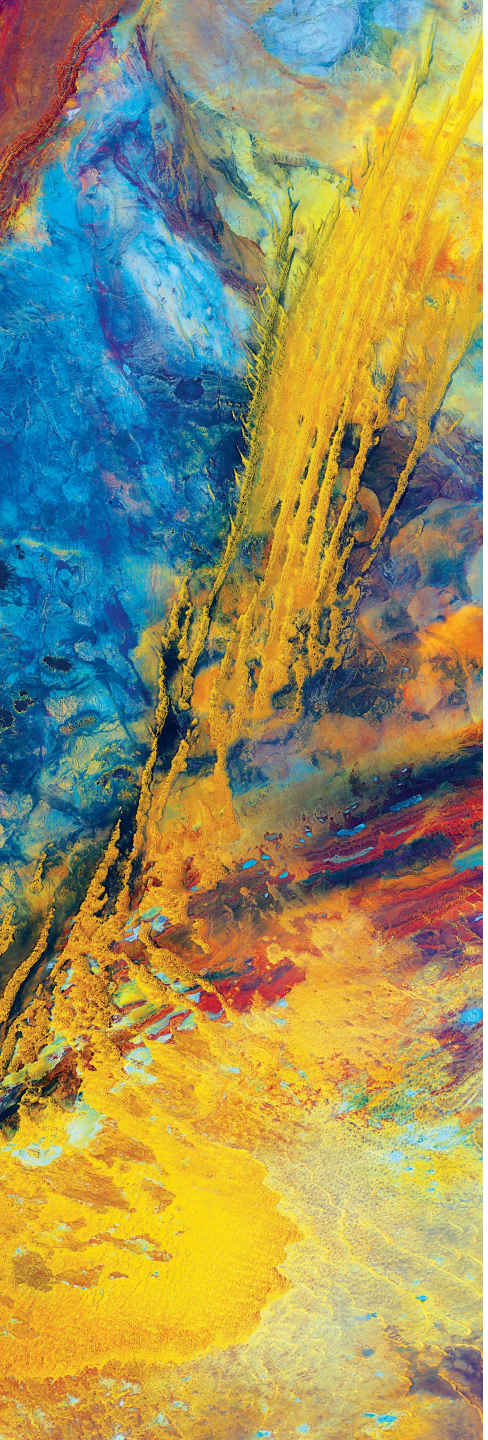
Portal



Portal Content Statistics

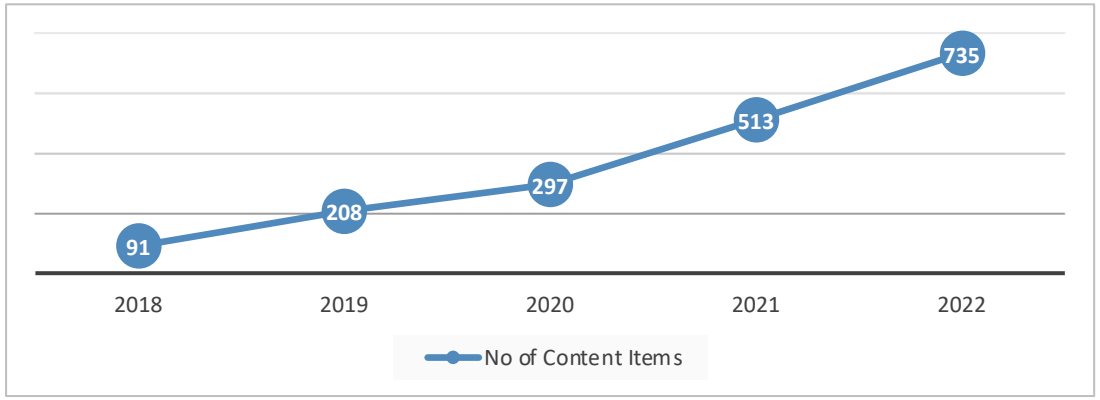
Type of Content / Number of Content published	As at 31 Dec 2018	As at 31 Dec 2019	As at 31 Dec 2020	As at 31 Dec 2021	As at 31 Dec 2022
Stakeholders	23	37	48	62	87
(Young) Professionals	-	4	11	24	34
Articles	6	16	22	35	46
Interviews	-	3	10	23	33
Activities /Opportunities		1	10	25	42
Publications	10	25	43	77	130
Software	4	15	18	21	22
Projects	6	6	10	12	17
Training Material	6	22	33	79	89
Events	36	79	92	155	235
TOTAL	91	208	297	513	735

25

new Stakeholders

>200

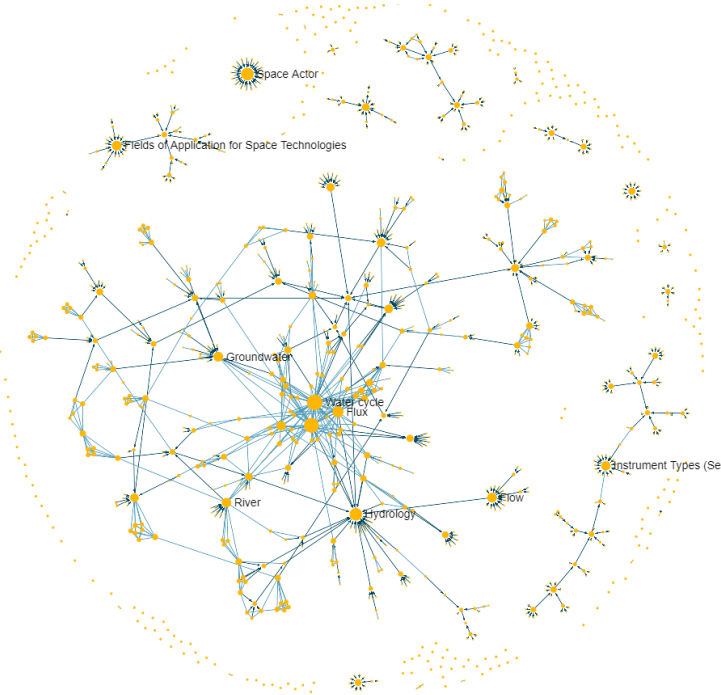
new Resources



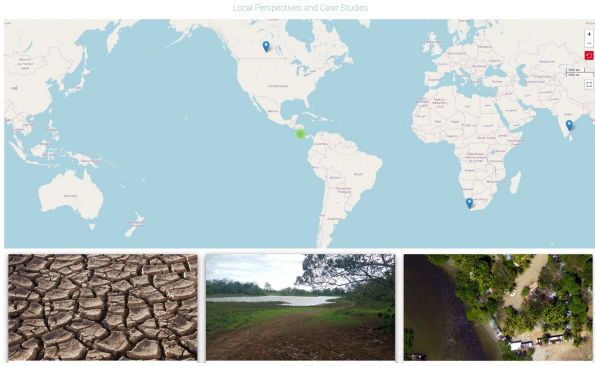
User Access Statistics

	Users	Sessions	Page Views
Oct - Dec 2018	684 570.6%	1,017 295.7%	2,763 53.4%
2019	10,230 1,225.1%	13,020 913.2%	25,394 450.4%
2020	14,641 43.0%	18,788 44.2%	30,215 19.0%
2021	37,623 157.3%	48,270 157.3%	76,235 152.6%
2022	67,138 78.4%	82,684 71.3%	120,414 58.0%

Space4Water Portal – 2022 Portal Features



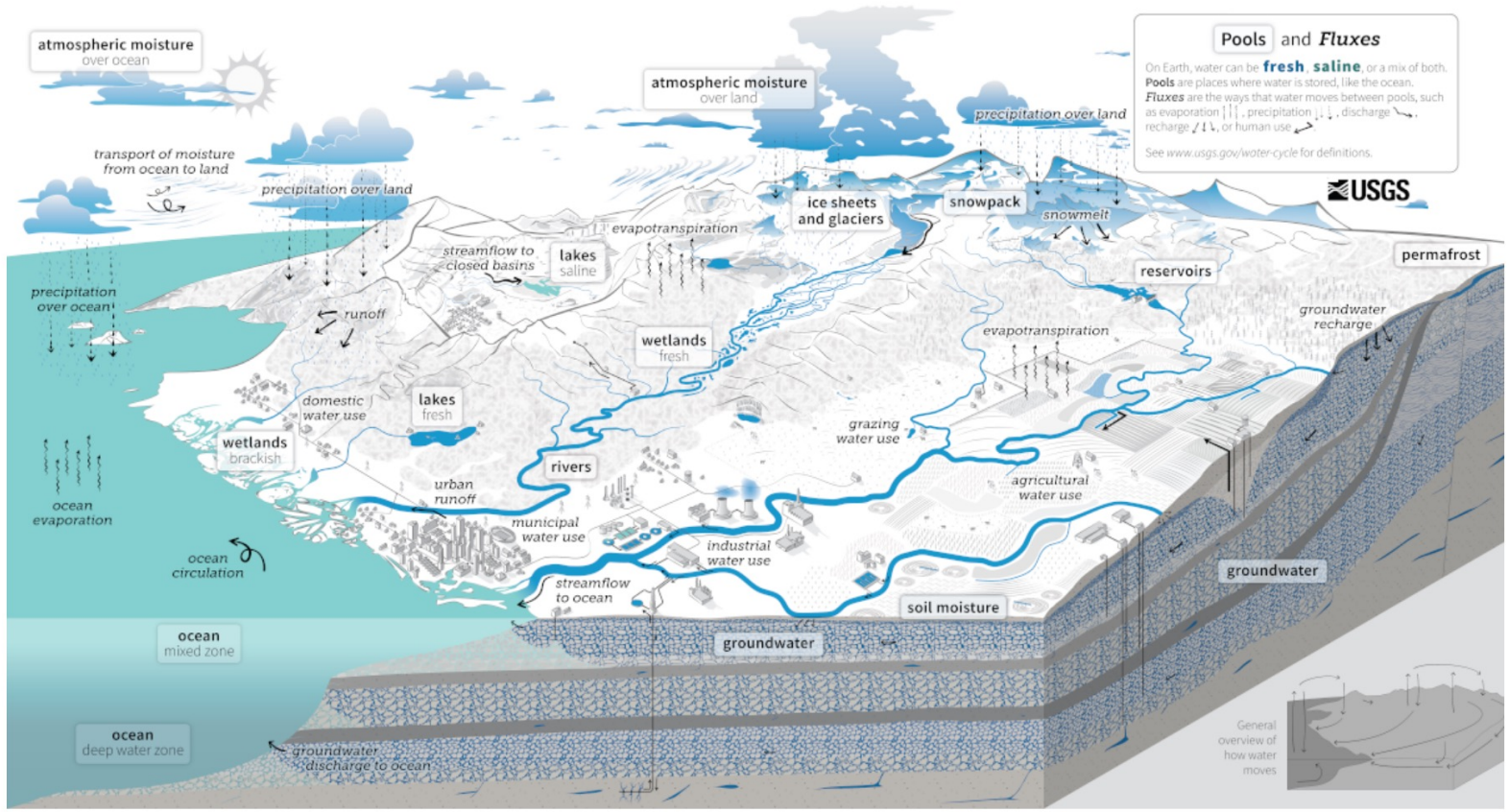
- Interactive graphic of the hydrological cycle
- Actors Map & Local perspectives and case study map
- In progress:
  - Water challenges and space-based solutions
  - Explorable body of knowledge (Glossary - see graphic on right side)
  - Migration to the cloud - better scalability and security
  - French version (most important resources – Articles 50% translated)
  - Podcast
  - Indigenous Voices (including new interviews and profiles – ready for publication)



Hydrological cycle

"The water cycle — technically known as the hydrological cycle — is the continuous circulation of water within the Earth's hydrosphere, and is driven by solar radiation. This includes the atmosphere, land, surface water and groundwater. As water moves through the cycle, it changes state between liquid, solid, and gas phases. Water moves from compartment to compartment, such as from river to ocean, by the physical processes of evaporation, precipitation, infiltration, runoff, and subsurface flow." (European Environmental Agency, 2019). "Water moves at very small scales too. It is in us, plants, and other organisms. Human activities impact the water cycle, affecting where water is stored, how it moves, and how clean it is." (USGS, 2022).

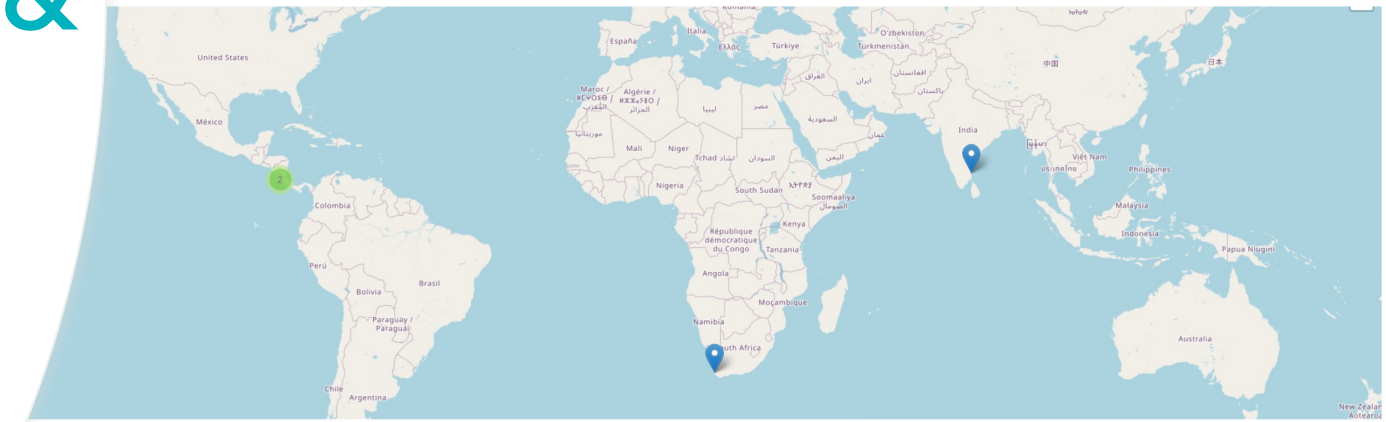
By clicking any of the pools and fluxes below, you will get redirected to the Space4Water glossary term, learn about terminology and see what Space4Water actors including stakeholders, professionals and young professionals have on the Portal and what content is available.

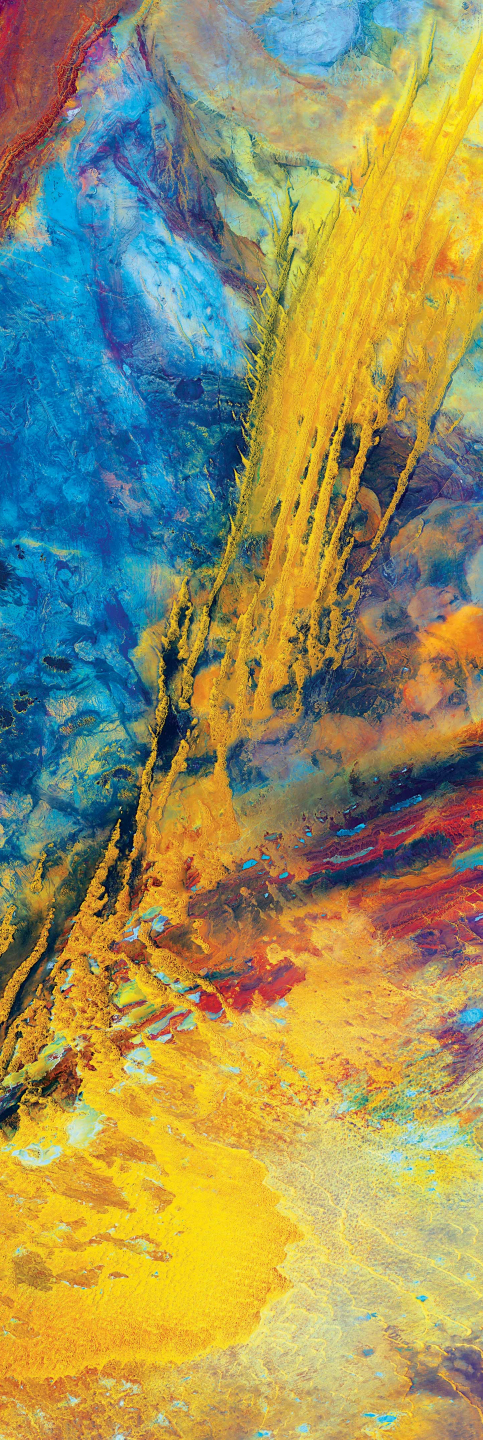


Interactive Maps - Stakeholders and Professionals

&

Local perspectives and case studies



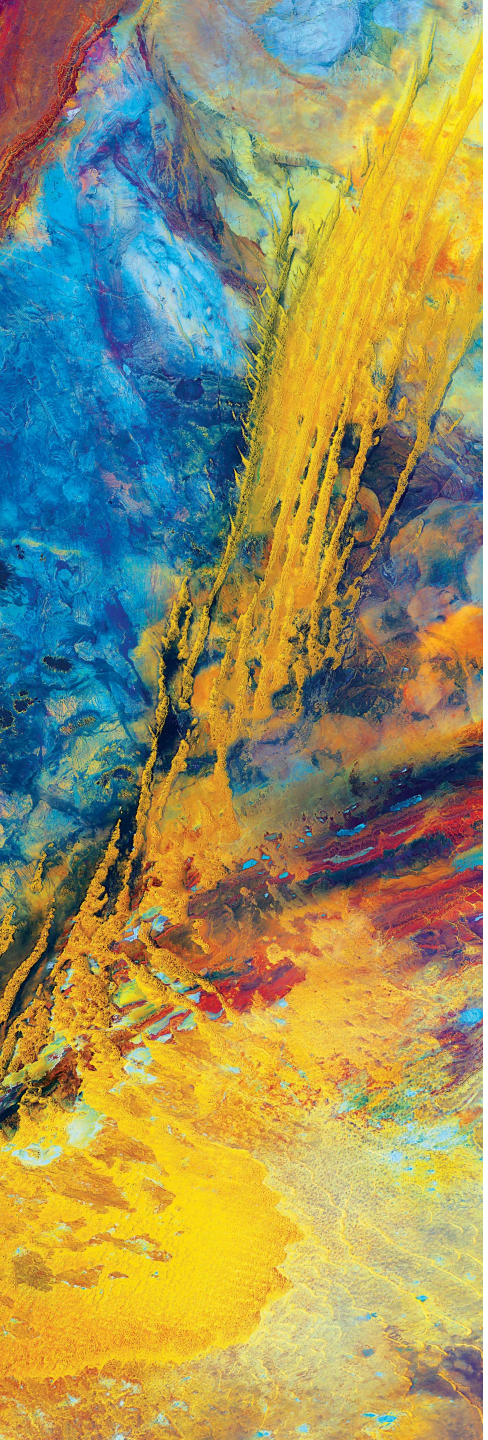


Reports

- A/AC.105/C.1/2022/CRP.15
  The Space4Water Project: Community building

- A/AC.105/1268
  Report on the United Nations/Ghana/Prince Sultan bin Abdulaziz International Prize for Water Fifth International Conference on the Use of Space Technology for Water Management

- A/AC.105/1272
  Report on the first Space4Water Stakeholder Meeting



UN 2023 Water Conference

UN Assembly President urges Governments to send top leaders to Water Conference

13 February, NEW YORK – The United Nations General Assembly President urged Governments today to send their top representatives to the upcoming UN 2023 Water Conference, stressing the urgency of tackling the water crisis while calling for the establishment of a global water information system.

"Of the 17 [Sustainable Development] Goals, perhaps none are more urgent than SDG 6 on water," said Csaba Kőrösi in his remarks to the annual hearing of the Interparliamentary Union, which was held under the theme "Water for People and Planet: Stop the waste, change the game, invest in the future."

He said that the water crisis will inevitably get worse, pointing out that nearly all climate change is felt through water and describing the scourge as "too much water," "not enough water", or "water that is too dirty to use, and too unsafe to drink".

"If we do not get the global water crisis under control, we will not be able to make progress on the Sustainable Development Goals," he emphasized, warning that the planetary boundaries for water have already been breached for the first time in human history.

By the end of this decade, the demand for water is expected to exceed supply by 40 per cent, he added, urging all Governments to come to the Conference at the highest possible level and bring concrete proposals for action and transformation.

He also highlighted the need for integrated data, calling for a global water information system that would change the game.

He expressed hope that the Water Conference, taking place at the UN Headquarters in New York from 22 to 24 March, will create "the Paris moment" of the water action.

22-24 March 2023
UN Headquarters, NYC

https://sdgs.un.org/conferences/water2023

Send top representatives to the conference.

The water crisis will inevitably get worse […] climate change is felt through water […] too much - too little – too dirty

Csaba Kőrösi, President of the General Assembly

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Thank you

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