

International symposium of category 2 institutes and centers under the auspice of UNESCO in the field of natural science Kuala Lumpur | 14-17 May 2024

PRESENTATION of IGRAC

Elisabeth Lictevout, IGRAC Director







1- IGRAC Fact sheet

Who we are?

➤ Global groundwater information and knowledge centre

Our mission

To provide information and knowledge on groundwater worldwide to support decision-making

Our vision

➤ A sustainable and equitable groundwater future

Our moonshots By 2030,

- ➤ All countries produce and share groundwater data and report on the quantitative and qualitative status of their groundwater resources.
- ➤ We produce a Global Groundwater Assessment based on in situ data
- Quantitative and qualitative status of aquifers improve



1- IGRAC Fact sheet

How?

- ➤ Enhance and support groundwater monitoring worldwide
- ➤ Acquire and manage global groundwater data
- ➤ Groundwater assessment and research
- ➤ Capacity development, advocacy and awareness raising.

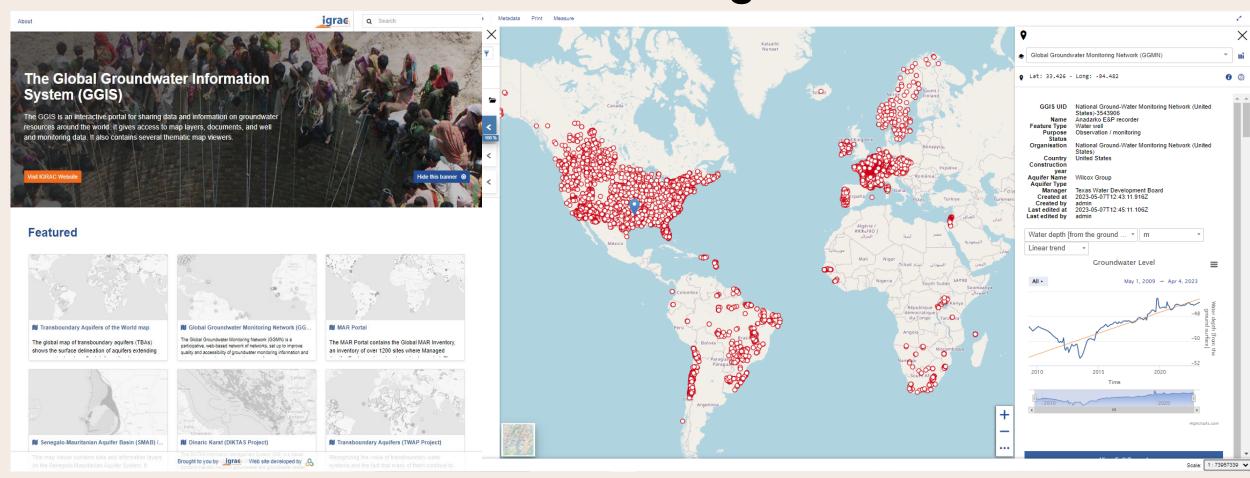




2- From data...

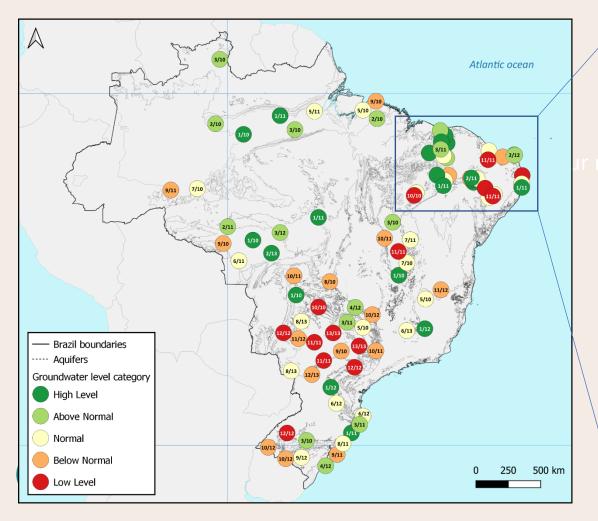
- https://ggis.un-igrac.org/
- https://ggis.un-igrac.org/view/ggmn/

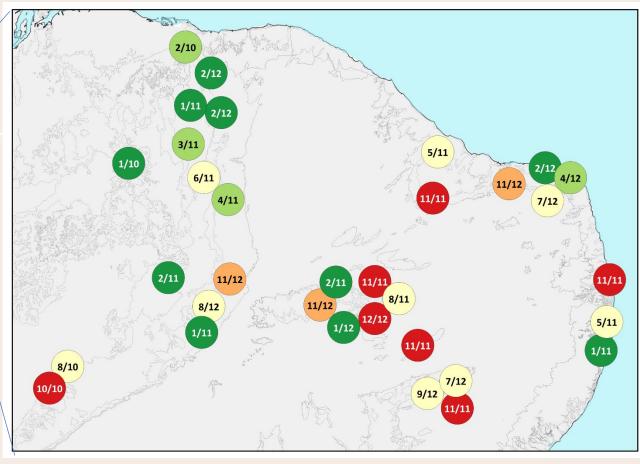
Global Groundwater Information System - GGIS Global Groundwater Monitoring Network - GGMN



3- ... to information for decision making

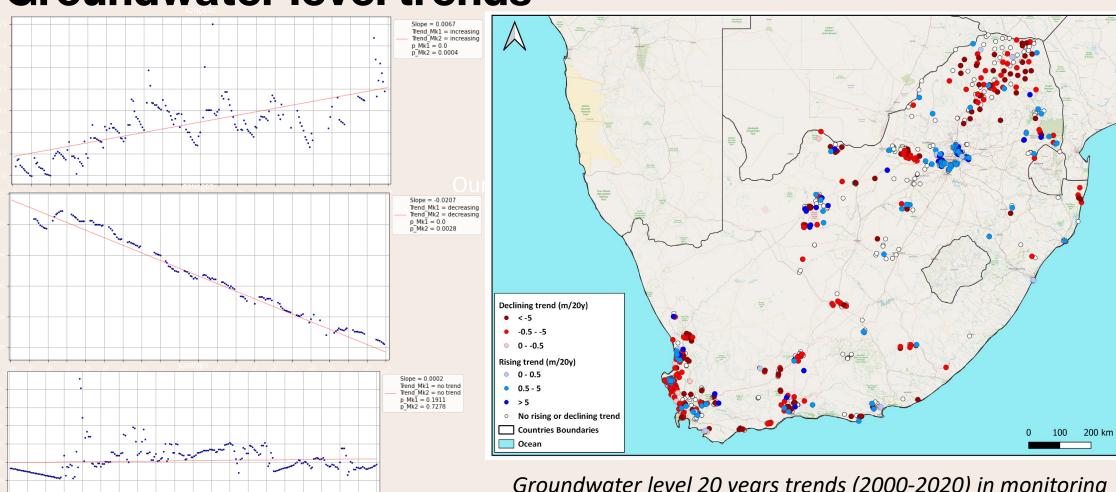
Groundwater level ranking





3- ... to information for decision making

Groundwater level trends





Groundwater level 20 years trends (2000-2020) in monitoring wells in South Africa

3- ... to information for decision making

Contribution to WMO state of

Global water assessments



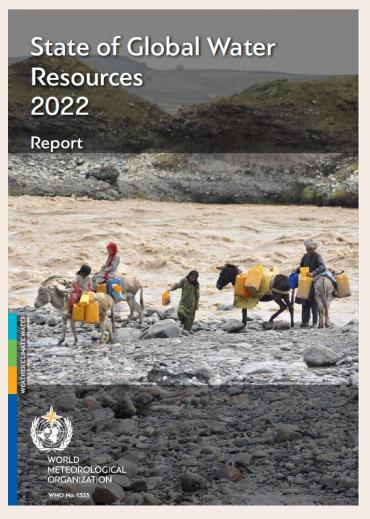


Figure •

Mean groundwater levels in selected aquifers in 2022 ranked against the historical period 2013– 2022 for selected countries.

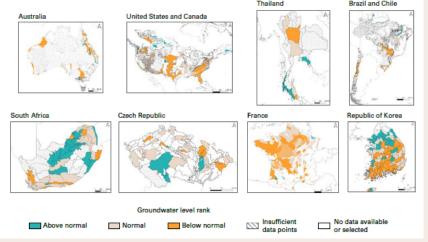
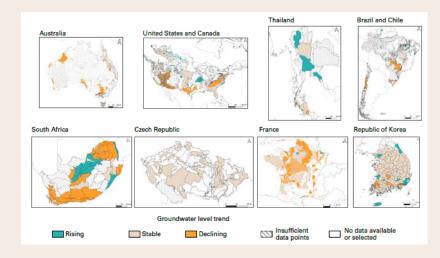


Figure •

Groundwater level trends in selected aquifers for the period from 2013 to 2022 for selected countries

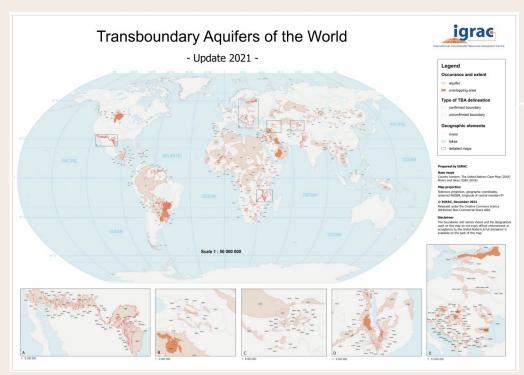




4- Research and Assement

Transboundary aquifers: Global map, cooperation and

identifying cross-border impacts



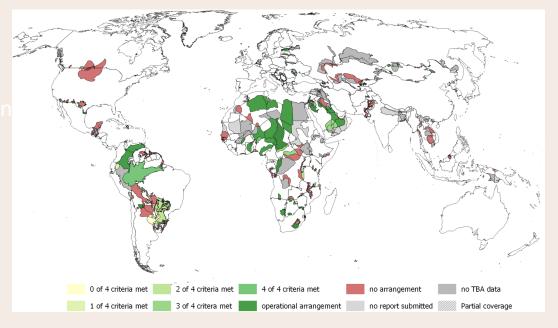


Figure **/**

Fraser et al. (2023) Transboundary water cooperation under SDG indicator 6.5.2: disaggregating data to provide additional insights at the aquifer level



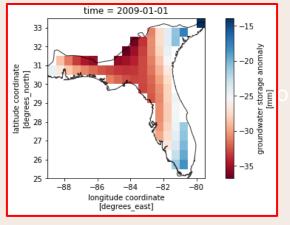
4- Research and Assement

Global Gravity-based Groundwater Product (G3P):

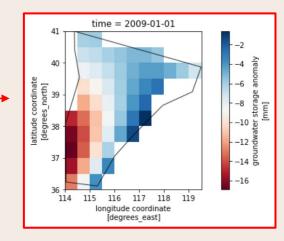
Validation with in-situ data

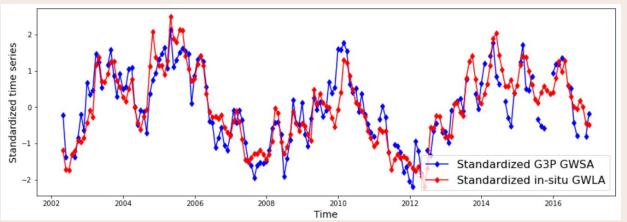


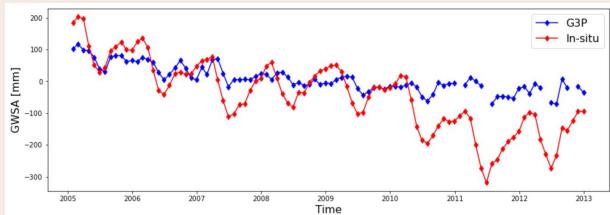
Horidian aquifer, USA





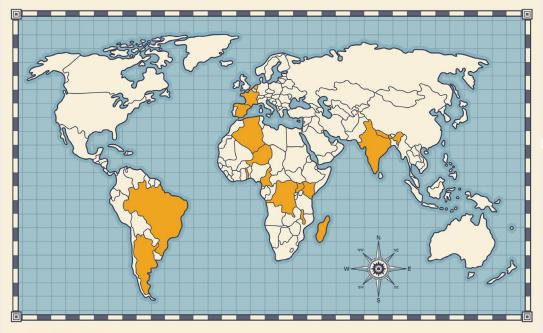






5- Capacity development, Advocacy, Awareness raising

GROUNDWATER CORRESPONDENTS NETWORK





Algeria Cameroon DR Congo Madagascar Malawi

Niger Togo Uganda

Americas Argentina Brazil

Asia India Nepal

Middle East Palestine

Europe France

Netherlands



Groundwater 2023
Correspondents





Thank you for your attention

info@un-igrac.org www.un-igrac.org Delft, The Netherlands





