

IAH MAR Commission Newsletter. 2026 January-March. Issue nº 55.

Dear IAH-MAR group, please, find some recent information on Managing Aquifer Recharge.

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PUBLICATIONS ABOUT MAR

Groundwater Recharge to Discharge. New release of the groundwater project.

Author: Diana M. Allen: Simon Fraser University, Canada

Publication year: 2026

Number of pages: 195

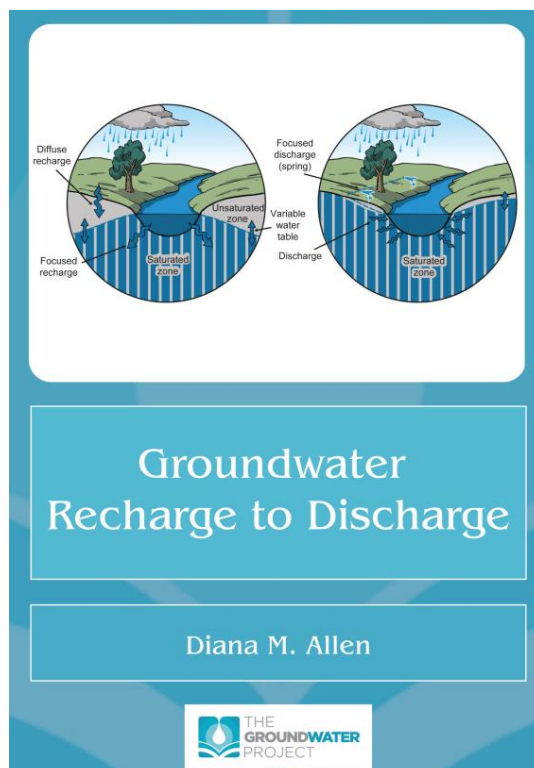
ISBN: 978-1-77470-142-3

<https://doi.org/10.62592/GUTB8590>

Citation: Allen, D. M. (2026). *Groundwater Recharge to Discharge*. The Groundwater Project. <https://doi.org/10.62592/GUTB8590>.

This book discusses two groundwater topics—recharge and discharge—in a focused, disciplinary fashion and in an interdisciplinary fashion. A key intention of this book is to draw linkages with other areas of the hydrological sciences—such as hydrometeorology, vadose zone hydrology, and surface water hydrology...

Chapter 5.3 specific on MAR.

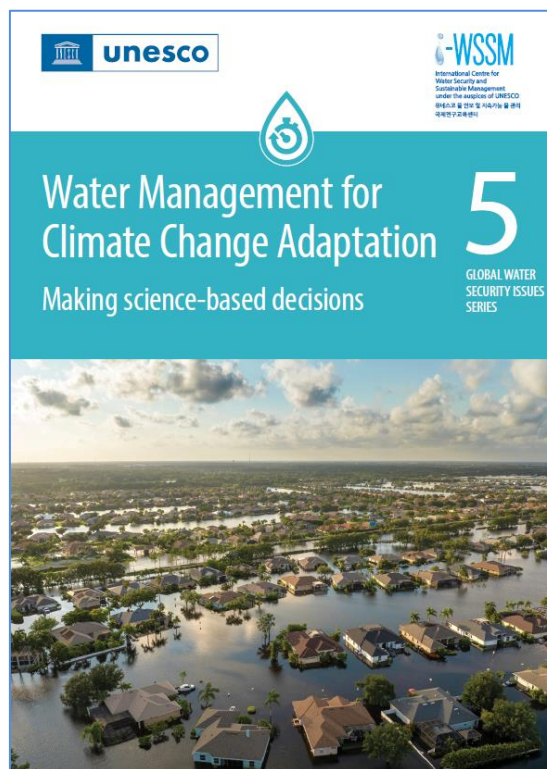


Read more and download: <https://gw-project.org/books/groundwater-recharge-to-discharge/>

Gratitude to “The Groundwater Project” for assembling such a useful collection of books for the hydrogeological community.

Water Management for Climate Change Adaptation. Making science-based decisions. UNESCO GWSI – i-WSSM 5th release

Water resources are under increasing stress due to climate change impacts. Precipitation patterns shift and water quality is deteriorating due to global warming, while prolonged droughts result in water scarcity and diminished water availability. In the face of these challenges, it is crucial that water management decisions are based on scientific information and evidence to find sustainable solutions such as reducing water demand and pollution, recycling and reusing water, and improving irrigation efficiency. Science-based water decisions enhance climate adaptation and resilience capacities allowing adaptive management strategies. The Global Water Security Issues (GWSI) Series Issue No. 5 focuses on Water Management for Climate Change Adaptation: Making Science-based Decisions...



Some specific MAR contributions are published in there:

*Case study: Implementing managed aquifer recharge for replenishment of shallow aquifers in the NWSAS area:
managing groundwater recharge through practices such as Managed Aquifer Recharge, regulation of development in critical recharge areas, and management or reduction of woody vegetation cover to optimize groundwater recharge*

Download the book:

<https://unesdoc.unesco.org/ark:/48223/pf0000396513?posInSet=6&queryId=c9aa1591-8a62-46ff-99d8-3abda64c2a65>

NEW MAR-RELATED PUBLICATIONS

Climate adaptation and mitigation in the agri-food system Recommendations for coherent EU policies

The EU agri-food system underpins Europe's food security, rural livelihoods and strategic autonomy, while playing a central role in the Union's economy and land stewardship. Spanning the full value chain from the production of agricultural inputs to food waste management, it provides biomass for food and non-food purposes, represents 7% of EU gross value added, and employed 30 million people in 2023, including around 8.5 million in agriculture. It has become the third largest net-exporting industry of the EU, with net exports for food and drink products reaching EUR 48 billion in 2024. Finally, the system manages 38% of the EU's land surface and is therefore a key steward of ecosystem services and natural resources...



**Climate adaptation and
mitigation in the agri-food
system**
Recommendations for coherent
EU policies

European Scientific Advisory Board on Climate Change.

Download: <https://www.ecologic.eu/sites/default/files/publication/2026/EU-agri-food-system-report-70809.pdf>

HYDRO VISIONS. V35. 2026 WINTER ISSUE

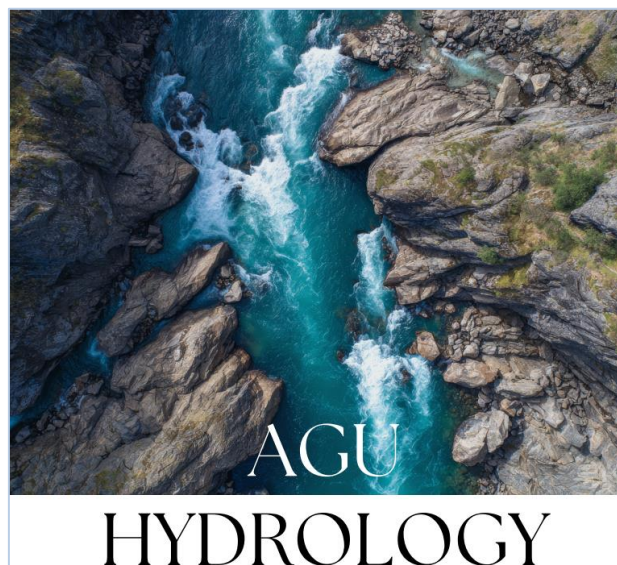
This edition does not include specific MAR-related references. Anyway, it is a traditional MAR canal.



https://issuu.com/hydrovisions/docs/hydrovisions_winter_2026?fr=sMzBkZDgzODI0NDU

AGU HYDROLOGY

New release of AGU Hydrology section. Newsletter, 2026 April.



Read more and download:

https://drive.google.com/file/d/1AFyvWzUB0KSBtBRpqddmmzh_RS6nfFqE/view

Revista Vertiente n 26. (in Spanish)

La revista Vertiente de ALHSUD Capítulo Chileno publicó en su edición n°25.

Outstanding article of opinion on MAR by Mr. Celedón, and informative article by Rayén and José Luis on MAR in Chile, and difficulties to achieve the existing 15 experiences. Articles for general dissemination, more effective for decision makers, who usually escape from journal articles.



Download: <https://www.flipsnack.com/alhsudchile/revista-vertiente-2025/full-view.html>

New number of IdiAgua magazine, the annual publication of the Spanish Water Technological Platform (PTEA) (in Spanish)

This release includes vertical drainage and at least one MAR article.



Download: https://ptea.es/wp-content/uploads/2026/03/REVISTA-IDIAGUA-2025_.pdf

MAR AND MAR-RELATED CONFERENCES AND WORKSHOPS

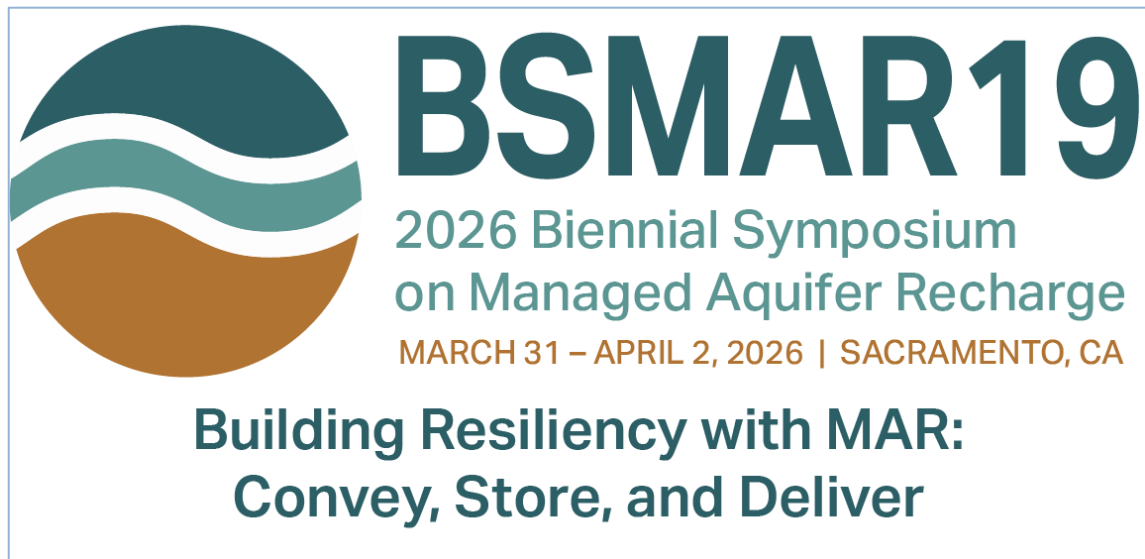
BSMAR 19. Biennial symposium on Managed Aquifer Recharge. On going...

March 31 – April 2. Sacramento, USA.

The Nineteenth Biennial Symposium on Managed Aquifer Recharge, Building Resiliency with MAR: Convey, Store and Deliver, is taking place now at the DoubleTree Hotel in Sacramento, CA., USA.

This event continues a long-standing series of symposia originating in Arizona in 1978. The Groundwater Resources Association of California and the Arizona Hydrological Society have teamed up to host BSMAR, with the location alternating between California and Arizona.

Two full days of presentations, workshops, and poster sessions by leading MAR experts - including technical specialists, regulators, managers, and operators - plus exhibitor and networking opportunities, followed by an optional half-day field trip on April 2.



More info: <https://www.grac.org/page/BSMAR19>

Programme: https://issuu.com/hydrovisions/docs/2026_gra_-_bsmar19_-_agenda?fr=sOGUzNzgzODI0NDE

Previous BSMAR proceedings: <https://www.grac.org/page/mar>

Thank you, organizers and sponsors, for holding the tradition of such an important event!

More GRAC future events:



Groundwater Resources Association of California

2026 EVENTS ANNOUNCED!

- Biennial Symposium on Managed Aquifer Recharge (BSMAR19)**
Sacramento, CA | March 31 – April 2
- SGMA Summit – The Faces of Implementation**
Clovis, CA | June 2 – 3
- Groundwater 101 Week**
Virtual | July 13 – 17
- Western Groundwater Congress**
Palm Springs, CA | September 28 – 30
- GRA Casts**
Virtual throughout the year!

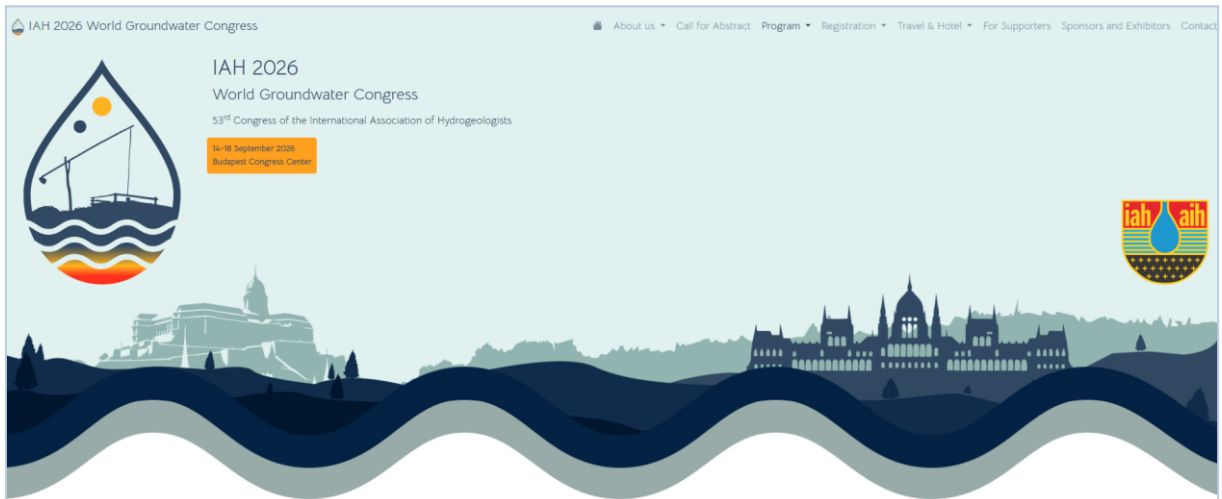
REGISTER AT GRAC.ORG

Sponsorships Available!

IAH 2026 conference will have a specific session on MAR

The conference focuses on the crucial role of groundwater as a multi-resource essential for environmental sustainability, societal well-being, and resource management. It explores the complex interactions within groundwater systems, including deep and shallow aquifers, karst and fractured rock formations, and processes in the unsaturated zone...

Session 5.4 [Managed aquifer recharge for climate change adaptation](#)



More info: <https://iah2026budapest.com/congress-topic/>

The 43rd UN-Water Meeting

The largest-ever such gathering of UN-Water Members and Partners, country representatives and senior leaders - brought participants together at IFAD headquarters in Rome (24–25 March 2026).

Chaired by Dr. Alvaro Lario, UN-Water Chair and IFAD President, with a keynote from the UN Secretary-General's Special Envoy on Water, the meeting focused on implementing the UN System-wide Strategy for Water and Sanitation and advancing preparations for the 2026 UN Water Conference.



The Conference co-hosts - Senegal and the United Arab Emirates - provided updates, while the Interactive Dialogues' co-chairs and co-conveners led discussions across the six action areas:

- Water for people
- Water for prosperity
- Water for planet
- Water for cooperation
- Water in multilateral processes
- Investments for water

Delegates also reviewed final preparations for the UN SDG 6 Synthesis Report 2026, to be launched at the High-level Political Forum on Sustainable Development in July.

The meeting concluded with a call for stronger coordination and deeper partnerships to accelerate delivery - positioning water as a catalyst for progress across the 2030 Agenda.



Explore more:

2026 UN Water Conference <https://www.unwater.org/news/2026-un-water-conference>

<https://sdgs.un.org/conferences/water2026>

Release:

<https://sdgs.un.org/sites/default/files/2026-02/25%20January%20Enhancing%20Action%20Through%20Collaboration%20Summary%20Report%20%285%29.pdf>

SEMINARS AND WEBINARS

2025 IAH-MAR webinars. Key messages summary publication and video release

IAH-MAR Commission. 2025 webinars. Summary.

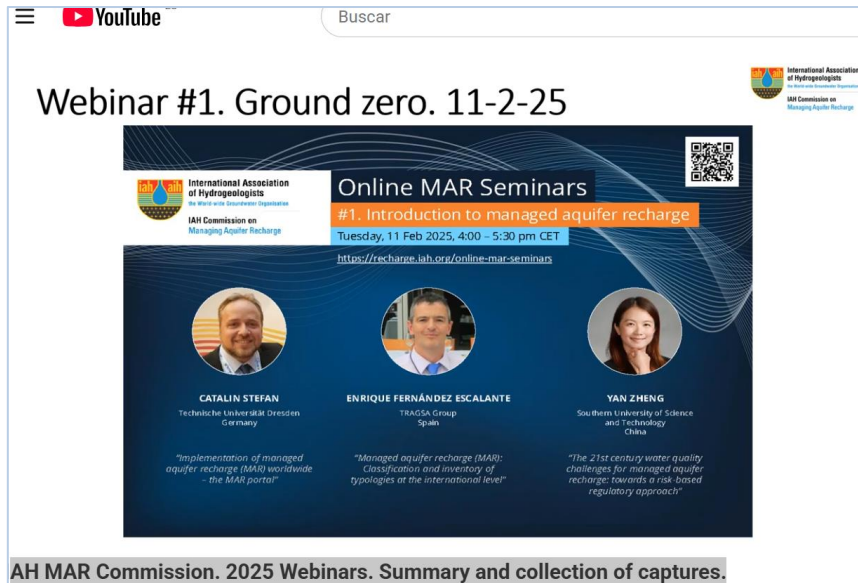
Throughout 2025, the Managing Aquifer Recharge Commission of the International Association of Hydrogeologists (IAH-MAR Commission) carried out nine specific technical webinars on managed aquifer recharge. In total, 20 speakers participated, sharing high-level knowledge on this technology. Key messages from each presentation were requested from the presenters, resulting in a collection of messages and screenshots from each technical session. In addition to consolidating each summary into a technical document, an outreach video has been produced and uploaded to YouTube for interested audiences. In 2026, the activity will continue...

Key messages from the speakers of the nine IAH-MAR webinars imparted during 2025 have been put together in this publication:



FINAL AUTHORS STATEMENTS

<https://recharge.iah.org/files/2025/12/authors-final-statements.pdf>



IAH MAR COMMISSION. 2025 WEBINARS. SUMMARY AND COLLECTION OF CAPTURES.

<https://www.youtube.com/watch?v=A7Np134mKS0>

IAH-MAR webinar series. Seminar #10. MAR in Agriculture. Tuesday, 10 March 2026, 12:00 – 13:00 CET

Extending your knowledge on managed aquifer recharge?

Invited speaker:

Declan Page (CSIRO, Australia)

Private Sector Investment in Managed Aquifer Recharge for Viticulture: A 40-Year Analysis from South Australia.



International Association of Hydrogeologists
The World-wide Groundwater Organisation
IAH Commission on Managing Aquifer Recharge

Online MAR seminars
Seminar #10 MAR in Agriculture
Tuesday, 10 March 2025, 12:00 - 13:00 CET // 21:30 Adelaide time
Registration: <https://recharge.iah.org/online-mar-seminars>

Declan Page
CSIRO

"Private Sector Investment in Managed Aquifer Recharge for Viticulture: A 40-Year Analysis from South Australia"

Declan Page is a principal research scientist and Australian research leader in Managed Aquifer Recharge (MAR). His professional experience includes MAR project development, risk-based assessment, human health risk assessment, water quality and treatment, stormwater harvesting and effluent reuse. Most recently he has focused on MAR policy, economics, adoption, and scaling of water banking for drought resilience.

<https://people.csiro.au/P/D/Declan-Page>

Seminar series: <https://recharge.iah.org/online-mar-seminars>

IAH-MAR members are invited to participate in future webinars. Please, consider proposing a title for a future slot, and send your suggestion to the coordinator, [Catalin Stefan](#).

More info: <https://recharge.iah.org/online-mar-seminars>

NEW MAR OR MAR-RELATED ACTIVITIES

IGRAC's photos collection. GeoStory series.

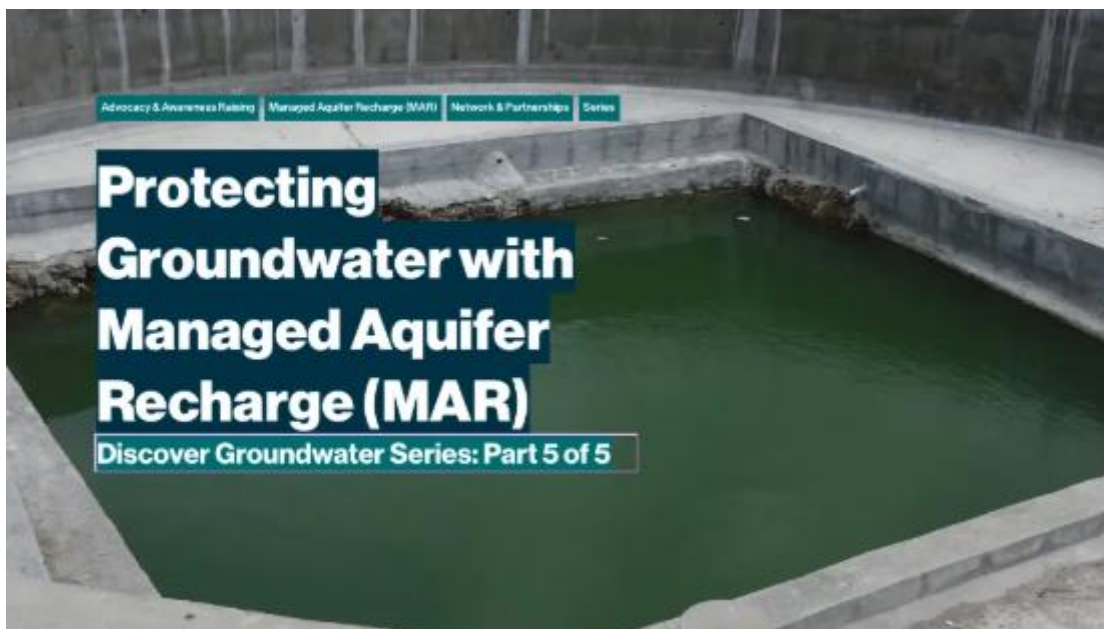
IGRAC announced the new 'Discover Groundwater' GeoStory series. With this series, IGRAC-IAH aim to make visible a key element of the water cycle that we, most of the time, do not see.

By showing photos from all over the world on a global map about groundwater's beauty, history, use, challenges and protection, we understand that groundwater is almost everywhere and key our planet sustainability. Each part of this 5-part series will cover a different topic and show examples from all over the world. And you can become part of it! Share your pictures and join the 'Discover Groundwater' GeoStory series.

Part 5: Protecting Groundwater

You can still send pictures for the following topics:

- Managed Aquifer Recharge
- Groundwater Protection Zones
- Reducing Groundwater Extraction



More info: <https://un-igrac.org/latest/news/send-your-pictures-and-become-part-of-the-discover-groundwater-geostory-series/>

<https://un-igrac.org/latest/stories/protecting-groundwater/>

Send your pictures to: info@un-igrac.org

Blue recharge project workshop

Last January, 26th – 27th took place the Blue Recharge project's workshop (Interreg) in Rijeka (Croatia).

The international pilot conference brought together leading experts from Croatia, Italy, Australia, Spain, and Germany to present results and perspectives on Managed Aquifer Recharge (MAR) and the development of a new economic mechanism, "Blue Credits."

The workshop included, at least, five presentations on MAR.

More info:

<https://www.italy-croatia.eu/web/bluerecharge/dettaglio?articleId=27649291&groupId=3951604>

<https://www.italy-croatia.eu/web/bluerecharge/news-events>





Thank you, D. Mance, for reporting.

MORE ACTION

VERDURA. New project on MAR in Tunisia

Official signature of a new project grant focused on Managed Aquifer Recharge (MAR) using treated wastewater in Tunisian coastal aquifers. The VERDURA project represents an important step toward addressing pressing water scarcity challenges by exploring safe, nature-based and circular solutions for groundwater replenishment. By combining advanced treatment processes, smart monitoring, and field-scale implementation, we aim to strengthen water security while supporting sustainable agriculture and ecosystem resilience.



Groundwater recharge, water reuse, and sustainability go hand in hand.

More info: <https://www.eumedbridge.eu/news/verdura-the-ecological-start-up-born-thanks-to-the-clima-project/>

Thank you, Anis Chekirbane, for reporting.

One step closer toward the world's first transboundary managed aquifer recharge scheme. TEM studies in Somalia

For those of you who've been following along, I've been working with the UNICEF Sustainable WASH Innovation Hub to accelerate the scale of transient electromagnetics (TEM) and Managed Aquifer Recharge in fragile contexts such as Somalia, Iraq and Afghanistan.

After using TEM to validate a site for MAR in Dollow, Somalia, we're now at it again, but from the Ethiopia side of the border.

The technology, which uses electrical pulses to calculate the depth, size and type of aquifers and even if the water is saline or not. It should make the validation of aquifer locations much faster, easier and more accurate than ever before. The survey managed to acquire data from nearly 400 sites along the Dawa floodplain in Dolo Ado.

This time, we've expanded the collaboration with Aarhus University (Denmark), engaging Haramaya University (Ethiopia) as one of their principal programmes supported by the Danish Ministry of Foreign Affairs. The new data will feed into the groundwater model developed by TU Dresden University, enabling us to test various MAR scenarios and inform the optimal strategy for designing MAR infrastructure which should benefit both countries along this important border.

It's a true example of how collaboration can speed up innovation for vulnerable children and their families. I'm looking forward to sharing more on this soon.



https://www.linkedin.com/posts/jay-matta-033a5436_kfw-arrhus-rwash-ugcPost-7435315196577013760-xMAg/?utm_source=share&utm_medium=member_desktop&rcm=ACoAAATbUsYBniGYw-D82SCFUMAchFrpT-xO20k

Thank you, Jay Matta, for reporting.

MAR in the Media. Press releases

MAR news, Chile

<https://noticias.udec.cl/fia-udec-impulsa-alianza-estrategica-para-la-gestion-sustentable-de-acuiferos-en-la-cuenca-del-rio-maule/>

<https://elmauleinforma.cl/firman-convenio-para-recarga-gestionada-de-acuiferos-en-la-cuenca-del-rio-maule/>

<https://www.diarioelcentro.cl/2026/01/21/asociacion-canal-maule-y-universidad-de-concepcion-firman-convenio-para-gestion-y-recarga-de-acuiferos-en-la-cuenca-del-maule/>

<https://portalinnova.cl/recarga-artificial-de-acuiferos-la-solucion-que-chile-nombra-pero-no-implementa/>

<https://www.diarioelheraldo.cl/noticia/encuentro-impulso-debate-nacional-sobre-gestion-del-agua>

<https://www.redimin.cl/chile-actualiza-normas-para-proteger-aguas-subterranas-frente-a-crisis-hidrica/>

<https://www.fmplus.cl/categoria/region-atacama/mop-inicia-consulta-publica-reglamento-aguas-subterranas>

Colombia

https://www.iagua.es/noticias/redaccion-iagua/colombia-aprueba-primer-guia-tecnica-proteger-zonas-recarga-acuiferos?utm_source=iAgua&utm_medium=email&utm_campaign=newsletter-semanal-20260313&utm_content=internacional&utm_source=iAgua&utm_campaign=26c3a2b0f9-EMAIL_CAMPAIGN_2026_02_14_07_25_COPY_02&utm_medium=email&utm_term=0_429f272c29-1206459876

Mexico

<https://www.tiempo.com.mx/local/concluyo-proyecto-recarga-acuifero-chihuahua-sacramento/>

<https://www.altitudesmagazine.com/>

<https://www.youtube.com/watch?v=pDO-chzrXPA>

<https://aristeginoticias.com/2201/naturaleza/la-bancarota-hidrica-esta-en-la-planeacion-y-gestion-del-agua-especialista/>

Morocco

<https://es.rue20.com/2026/01/15/marruecos-ve-en-la-nevada-un-salvavidas-para-sus-acuiferos-y-presas/>

Spain

<https://www.eleconomista.es/actualidad/amp/13832157/la-gran-despensa-para-combatir-la-sequia-por-que-son-clave-los-acuiferos>

Whatsapp group on Aquifer Recharge Management

The group congregates 192 participants today. Ask the invitation link by [email](#), pls, as it changes eventually. Right now, it is:

<https://chat.whatsapp.com/GI98fO0B9LI4A3os1AMSB2>



Previous IAH-MAR Newsletters

Previous newsletters access: <https://recharge.iah.org/newsletters>

IAH-MAR Commission on Twitter (X)



@IAHMARCom

<https://twitter.com/IAHMARCom>

IAH-MAR Commission's sister Web sites

<http://china-mar.ujn.edu.cn/>



<https://dinamar.tragsa.es/>



@4dina_mar

<https://www.linkedin.com/groups/4690290/> (573 members)

IAH MAR Commission Forum

Please, remember you can book freely in the IAH MAR Commission Forum:

<https://lists.flinders.edu.au/mailman/listinfo/iah-mar.listcgs>

The IAH MAR list has 356 members today... you are invited to join!

That's all by now... **please, keep reporting** (dinamar@tragsa.es).

Dr. Enrique Fernández Escalante, on behalf of the IAH MAR Commission co-chairs,
Catalin Stefan and Yan Zheng.

2026 March 31st
