

IAH MAR Commission Newsletter. 2024 September

Dear friends, please, find attached some MAR pieces of news.

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IMMINENT! IAH-MAR Commission plenary (online). 2024 October 1st, 15:30 h CET.

By tradition, the IAH-MAR Commission is organizing a plenary meeting during each of the annual IAH Congresses. During IAH 2024 it was not possible to host an IAH-MAR plenary. Therefore, this year, the meeting will take place online via Zoom as to allow also participation from MAR community members who couldn't attend the IAH congress in Davos. **Our online plenary will take place 2024 October 1st, 15:30-17:00 CET (Berlin, Paris, Madrid time).**

The aim of the meeting is to provide an update on the activities of the commission and to facilitate the communication and exchange of ideas among the MAR community members ahead of the next ISMAR12 Symposium in South Africa.

So please join our meeting and share your latest news about MAR-related activities, events, research, publications, etc.

AGENDA:

1. Presentation of IAH-MAR Commission (Enrique)
2. Last memories of activities (2022 and 2023) Next 2024 report (Enrique).
3. Working Groups and Communities of Practise (WG & COPs leaders)
4. MAR sites updates/new entries (Yan)
5. MAR at IAH2024 in Davos (Catalin)
6. Invitation to ISMAR12 (Fanus)
7. Call for ISMAR13 in 2028 (Enrique)
8. Elections of IAH-MAR Co-chairs (Co-chairs)
9. Upcoming IAH-webinars on MAR (Catalin)
10. Call for action: Photo-album of the whole ISMAR series. Disclaimer and call for photos from previous ISMAR (1, 2 and 3 missed).
11. Information from attendees (new projects, events, activities, etc.)
12. Q&A, miscellaneous (all)

Everybody is invited to participate and welcome (you don't need to be an IAH member to attend). The registration link for the meeting is:

https://tu-dresden.zoom-join.com/join/9tJN6mGKwKv4ghGWld3_

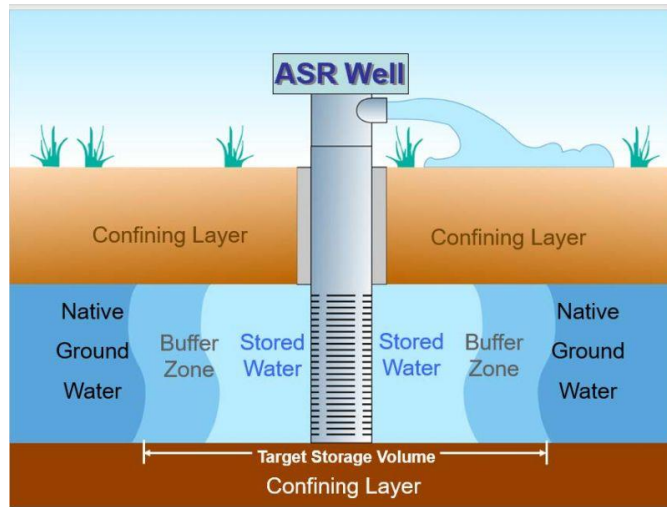
After registration, you will receive the link to the online meeting.

Please, connect five minutes earlier so that we can start in time. We hope to meet you soon...

PUBLICATIONS ABOUT MAR

NGWA's best suggested practice on aquifer storage and recovery updated

The NGWA document *Best Suggested Practices for Aquifer Storage and Recovery (ASR)* was recently updated by a consensus of groundwater professionals from around the country.



More info:

<https://www.ngwa.org/detail/news/2024/09/06/ngwa%27s-best-suggested-practice-on-aquifer-storage-and-recovery-updated>

NEW MAR-RELATED PUBLICATIONS

IAH India chapter have released their issue 02 newsletter

Authors of the newsletter published by the Indian Chapter of IAH hope receiving feedback and suggestions for future improvements.

They also want to provide space in the newsletter for groundwater news from another national Chapters, and looking for interesting speakers who are willing to present an online session to members of the Indian Chapter.

This issue is very friendly with the MAR technique... have a look...



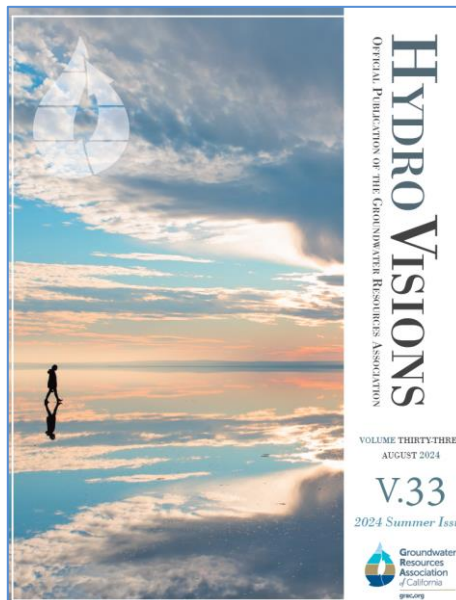
More info: <https://inciah.org/newsletter/>

Thank you professors Kumar and Sinha for reporting.

HydroVisions. 2024 Summer

Not specific on MAR, but it usually includes outstanding info...

It is worth to mention some words of her President, Christy Kennedy (Pg. 5):
GRA President's Groundwater Industry Megatrend Predictions through 2035: Recharge becomes commonplace as permitting and water rights processes streamline – all, if not most agencies, are involved in some form of recharge; especially as artificial intelligence enables programs like FloodMAR everywhere.



More info and download:

https://issuu.com/hydrovisions/docs/2024_hydrovisions_-_summer_-_issuu?fr=sNGRmOTczNDM5MjY

Emilio Custodio: a pioneer in groundwater management and key reference for hydrogeologists worldwide

HJ has published an article about our dear professor and MAR defender, who sadly passed away some months ago.

Hydrogeology Journal
<https://doi.org/10.1007/s10040-024-02826-7>

PROFILE

Emilio Custodio: a pioneer in groundwater management and key reference for hydrogeologists worldwide

Carolina Guardiola-Albert¹ · Emilia Bocanegra² · María del Carmen Cabrera³ · Lucila Candela^{4,5} · Jesús Carrera⁶ · Antonio Chambel⁷ · Stephen Foster⁸ · Jorge Jódar¹ · Christian Herrera⁹ · Marisol Manzano¹⁰ · Jorge Molinero¹¹ · Enric Vázquez-Suñé⁶ · Ester Vilanova¹¹

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Keywords Profile of eminent hydrogeologist · Spain · Latin America · Recharge · Volcanic aquifers

Introduction

Professor Emilio Custodio is honoured as a crucial figure in modern hydrogeology. His extensive contributions to the field, both in academia and practical applications, have left an indelible mark on water resource management globally. Through his pioneering research, leadership roles, and dedication to education, Professor Custodio has been fundamental in advancing the scientific understanding and ethical governance of groundwater resources. His work continues to inspire and guide hydrogeologists around the world.

Biography

Emilio Custodio was born in Barcelona, Spain, in 1939, the year that the Spanish Civil War ended. He completed his primary school education in Sobsona and attended secondary schools in Granollers (Piarists) and Barcelona (Claretians). He pursued higher education at the *Escuela de Ingenieros Industriales* (School of Industrial Engineering) at the old Polytechnic University of Barcelona, where he graduated as the first in his class as an industrial engineer during the “intensification” of chemistry in 1964. He later specialized in nuclear engineering and completed his doctorate in 1972. In 1973, he started his career as an associate professor at the *Universidad de Tecnología Nuclear* (Nuclear Technology University) in Barcelona. He joined the *Universitat Politècnica de Catalunya* (Polytechnic University of Catalonia), UPC, as an associate professor in 1981, and became a full professor in 1986. He remained an academic throughout his entire life, continuing after his retirement in 2010 as an emeritus professor. Outside of academia, he worked as an engineer from 1964 to 1985 at the *Ministerio de Obras Públicas* (Ministry of Public Works), in the *Dirección General de Obras Hidráulicas* (General Directorate of Hydraulic Works) and in the *Comisaría de Aguas del Pirineo Oriental* (Eastern Pyrenees Water Commissioner), later transformed into *Junta d'Aigües* (Water Board), and finally to *Agència Catalana del Aigua* (Catalan Water Agency). Between

Access the full article: <https://link.springer.com/article/10.1007/s10040-024-02826-7>

MAR AND MAR-RELATED CONFERENCES AND SEMINARS

IAH 2024 Conference. Davos, Switzerland. Successful conference!

IAH 2024 conference has finished successfully.



The MAR session was well attended and pills of innovation were on the stage.



More info: <https://www.iah2024davos.org/g>

More detailed information: https://recharge.iah.org/files/2024/09/IAH2024-summary_CS.pdf

Rapporteur: Dr. Catalin Stefan.

ISMAR 12. Call for abstracts closed but the submission website will remain open for a few more days – hurry up to submit your abstract NOW!!! Early registration is now open!



“From Theory to Implementation and Operation”

28 April – 2 May 2025 – Stellenbosch, South Africa

Seven months to go... ISMAR is going to Africa, covering the 5th continent hosting an ISMAR... come on!

The main Theme of ISMAR 12 is “From Theory to Implementation and Operation”, with eight Sub-themes that address various MAR methodologies, applications, and developments:

A total of **135 abstracts** have already been received by 2024 September 22th. More than enough for an outstanding ISMAR!!! Organizers still receive some more...



Register for the Symposium (check the web site for “early bird” registration deadline) to secure your attendance at the workshops, presentations, networking, and tours. The Sponsorship/Exhibition Prospectus are available in the website. Three exciting excursions are planned for Day 5 showcasing the latest developments in the field of MAR in South Africa...

More info: <https://ismar12.org.za/>

ISMAR 13. Call for proposals.

Have you thought about hosting an ISMAR? Please, consider hosting ISMAR 13 and contact an IAH-MAR co-chair...



International Symposia on MAR

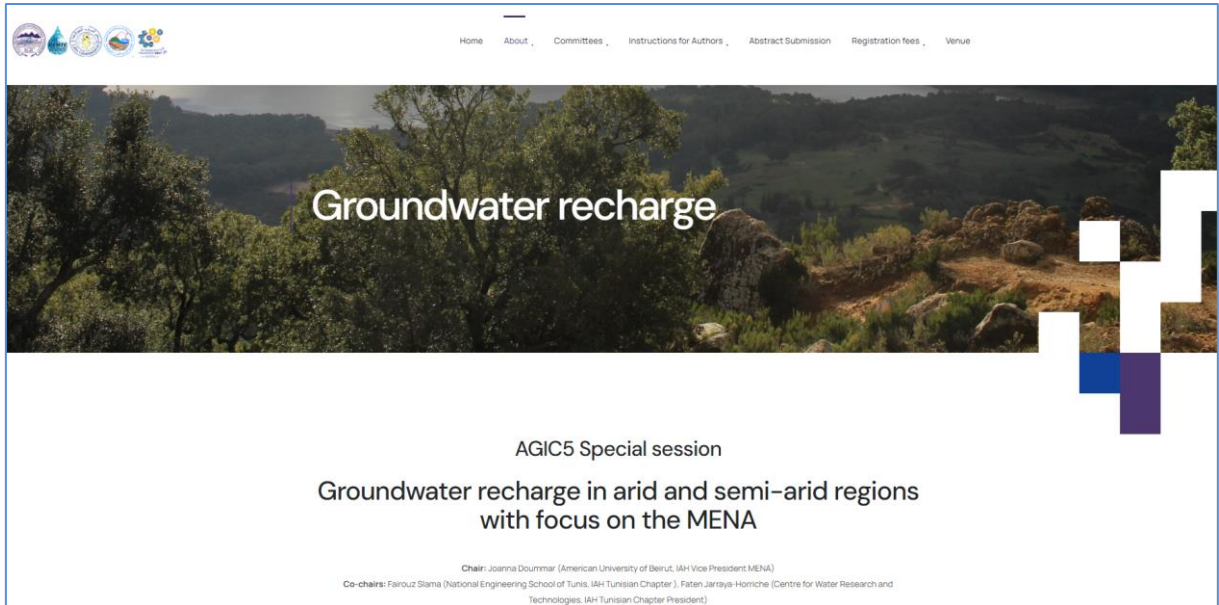
<ol style="list-style-type: none"> 1. 1988 Anaheim California, USA (ASCE) 2. 1994 Orlando, Florida, USA (ASCE) 3. 1998 Amsterdam, Netherlands (IAH, ASCE & UNESCO) 4. 2002 Adelaide, Australia 5. 2005 Berlin, Germany 6. 2007 Phoenix, Arizona, USA 7. 2010 Abu Dhabi, UAE 8. 2013 Beijing, P.R. China 9. 2016 Mexico City, Mexico 10. 2019 Madrid, Spain 11. 2022 Long Beach, CA, USA 12. 2025 Stellenbosch, S. Africa 	          
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The bid is open until the end of 2024.

SEMINARS AND WEBINARS

AGIC5 Special session: Groundwater recharge in arid and semi-arid regions with focus on the MENA

Taking place from 8-10 November 2024, this session promises to feature a collection of valuable papers that delve into the latest methods and advancements in understanding, measuring, assessing and managing groundwater recharge.



Attendees can anticipate perusing papers on various topics, including cutting-edge techniques for observations, data analysis, modeling approaches, and the integration of remote sensing methods and Geographic Information Systems (GIS) to enhance precision in groundwater recharge assessments at regional or local scales. The session will also address the crucial aspect of climate change, exploring projections and impacts on groundwater recharge.

More info: <https://agic.tn/groundwater-recharge/>

Eighth International Symposium on Flash Floods in Wadi Systems

The Eighth International Symposium on Flash Floods in Wadi Systems (ISFF8) is organized by the National Water and Energy Center, UAE University, on November 4-5, 2024. The two-day symposium will take place in Al Ain City, United Arab Emirates, on the campus of the UAE University. This version will convene on the theme "Flash Floods, Water Harvesting, and Groundwater Recharge Potentials". Continuing to share knowledge, experiences and lessons learned by all participants, ISFF8 organizers welcome presentations from all relevant fields...



More info: <https://conferences.uaeu.ac.ae/isff8/en/index.shtml>

AGU Fall Meeting (9-13 December 2024, Washington D.C. USA).

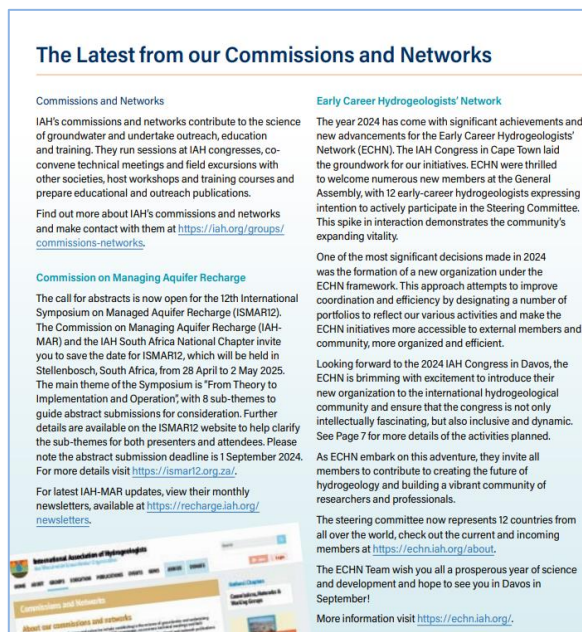


AGU 2024 Fall Meeting session H017 on: Advances in Managed Aquifer Recharge for Groundwater Sustainability.

More info: <https://agu.confex.com/agu/agu24/gateway.cgi#>

IAH-MAR Commission webinars. Response to an IAH call.

The IAH's newsletter (IAH Online Newsletter August 2024) included a call to commissions, networks and national chapters to organize future webinars about their respective specialities.



The Latest from our Commissions and Networks

Commissions and Networks
IAH's commissions and networks contribute to the science of groundwater and undertake outreach, education and training. They run sessions at IAH congresses, co-convene technical meetings and field excursions with other societies, host workshops and training courses and prepare educational and outreach publications.
Find out more about IAH's commissions and networks and make contact with them at <https://iah.org/groups/commissions-networks>.

Commission on Managing Aquifer Recharge
The call for abstracts is now open for the 12th International Symposium on Managed Aquifer Recharge (ISMAR12). The Commission on Managing Aquifer Recharge (IAH-MAR) and the IAH South Africa National Chapter invite you to save the date for ISMAR12, which will be held in Stellenbosch, South Africa, from 28 April to 2 May 2025. The main theme of the Symposium is "From Theory to Implementation and Operation", with 8 sub-themes to guide abstract submissions for consideration. Further details are available on the ISMAR12 website to help clarify the sub-themes for both presenters and attendees. Please note the abstract submission deadline is 1 September 2024. For more details visit <https://ismar12.org.za/>.
For latest IAH-MAR updates, view their monthly newsletters, available at <https://recharge.iah.org/newsletters>.

Early Career Hydrogeologists' Network
The year 2024 has come with significant achievements and new advancements for the Early Career Hydrogeologists' Network (ECHN). The IAH Congress in Cape Town laid the groundwork for our initiatives. ECHN were thrilled to welcome numerous new members at the General Assembly, with 12 early-career hydrogeologists expressing intention to actively participate in the Steering Committee. This spike in interaction demonstrates the community's expanding vitality.
One of the most significant decisions made in 2024 was the formation of a new organization under the ECHN framework. This approach attempts to improve coordination and efficiency by designating a number of portfolios to reflect our various activities and make the ECHN initiatives more accessible to external members and community, more organized and efficient.
Looking forward to the 2024 IAH Congress in Davos, the ECHN is brimming with excitement to introduce their new organization to the international hydrogeological community and ensure that the congress is not only intellectually fascinating, but also inclusive and dynamic. See Page 7 for more details of the activities planned.
As ECHN embark on this adventure, they invite all members to contribute to creating the future of hydrogeology and building a vibrant community of researchers and professionals.
The steering committee now represents 12 countries from all over the world, check out the current and incoming members at <https://echn.iah.org/about>.
The ECHN Team wish you all a prosperous year of science and development and hope to see you in Davos in September!
More information visit <https://echn.iah.org/>.

IAH-MAR co-chairs have replied this call and propose two webinars in the coming months.

The first will be the pragmatic approach of MAR and their relation to IWRM. The second will describe experiences in "Early MAR" countries. There is some room left for both.

Also, future webinars will be proposed in case some volunteers are willing to participate. If you want to contribute with a presentation to this IAH webinar series, please, contact a co-chair.

Detailed programmes will be released in the coming weeks through the IAH-MAR forum, the whatsapp group and in our website: www.recharge.iah.org (apart from these *almost-monthly* newsletters).

Thank you Ian Davey for raising this point.

Water leaders pod. John Kennedy.



WATER LEADERS POD
GUEST SPEAKER ANNOUNCEMENT

John Kennedy
 General Manager
 Orange County
 Water District

TOPIC
 Operating the world's largest groundwater replenishment system.

WATER LEADERS POD
 Unfiltered access to water's leading voices.

Listen and subscribe
QWi

Show notes: <https://www.buzzsprout.com/2359794/episodes/15683181>


Thank you Adam Hutchinson for reporting.

IAH-NL mini-symposium: "Ensuring sustainable water availability for agriculture: Potential and challenges for managed aquifer recharge"

Thu 26 Sep 2024 (16:00 CET) — IAH-NL mini-symposium: "Ensuring sustainable water availability for agriculture: Potential and challenges for managed aquifer recharge"

With contributions from early career hydrogeologists: Felix Joger (winner IAH-NL MSc thesis award-Pieter Stuijzand Scriptie Prijs) Sophie Luijendijk Lennart Brokx. Utrecht University (The Netherlands).






Thu 26 Sep 2024, 16:00-17:00 (CET) | A mini-symposium by the Netherlands IAH Chapter

**Ensuring sustainable water availability for agriculture:
 Potential and challenges for managed aquifer recharge**

16:00-16:10: Opening & Pieter Stuyfzand Scriptie Prijs 2023
 16.10-16.25: **Felix Joger (winner PSSP 2023)**
Reactive transport modelling of water quality changes during aquifer storage transfer and recovery with tile drainage water
 16.25-16:40: **Sophie Luijendijk**
Pesticide and nutrient removal from infiltration water to safeguard groundwater quality in MAR
 16:40-16:55: **Lennart Brokx**
Evaluation of the potential of subsurface storage to increase the water availability of in the water stressed agricultural area of Wolphaartsdijk
 16:55-17:00: Wrap-up & Closing

Vening Meineszgebouw A - 1.13
 Utrecht University

<https://www.netherlands.iah.org>

More info: <https://netherlands.iah.org/iah-nl-mini-symposium-2024>

Thank you Niels Hartog for reporting.

NEW MAR OR MAR-RELATED ACTIVITIES

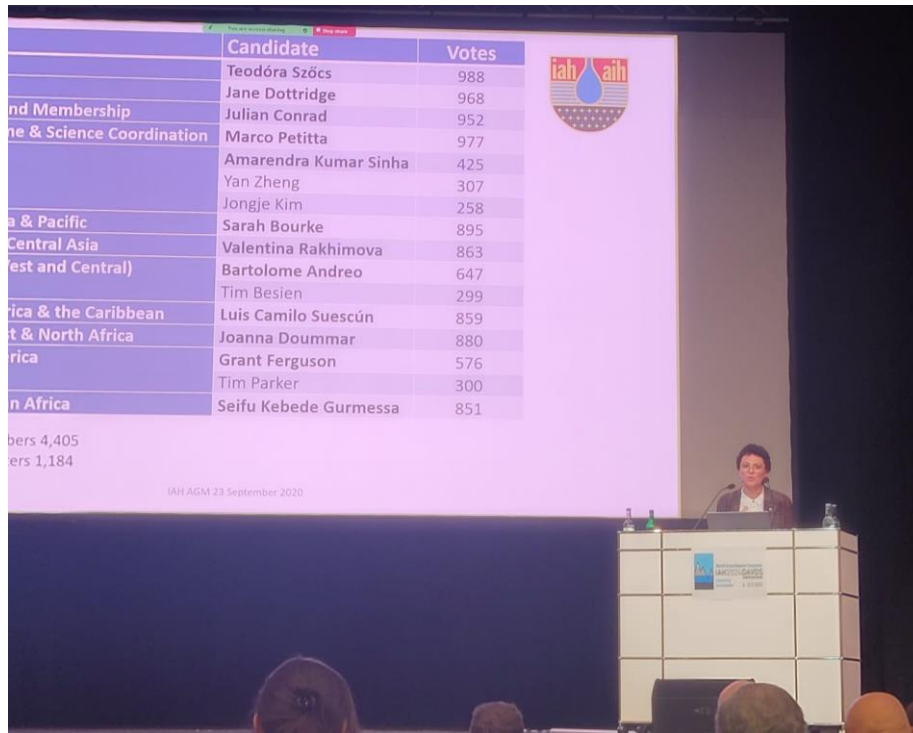
IAH elections. The new Executive has been presented

The 2024 Annual General Meeting of the International Association of Hydrogeologists was held on 10 September in person at [Congress Centre, Talstrasse 49a, 7270 Davos Platz, Davos, Switzerland](#), and online. It included in the 14 point the results of the elections:

...

14. Election results; handover to new President...

...



	Candidate	Votes
	Teodóra Szócs	988
	Jane Dottridge	968
and Membership	Julian Conrad	952
ne & Science Coordination	Marco Petitta	977
	Amarendra Kumar Sinha	425
	Yan Zheng	307
	Jongje Kim	258
a & Pacific	Sarah Bourke	895
Central Asia	Valentina Rakhimova	863
est and Central)	Bartolome Andreo	647
	Tim Besien	299
ica & the Caribbean	Luis Camilo Suescún	859
t & North Africa	Joanna Doummar	880
rica	Grant Ferguson	576
	Tim Parker	300
n Africa	Seifu Kebede Gurmesssa	851

bers 4,405
ers 1,184

IAH AGM 23 September 2020

IAH-MAR elections will take place during ISMAR 12, in the Plenary of the Commission (2025, April 30th).

Congratulation to our new Board!

MORE ACTION

World Toilet Day 2024 🇮🇳 From Ann Thomas (UNICEF).

We publish the email sent by Ann Thomas on behalf of UNICEF about the next WTD:
Dear Colleagues,

On behalf of the Expert Group on WASH, I'm pleased to share information on this year's World Toilet Day resources and theme.

Tuesday 19 November is World Toilet Day – a day to inspire action to tackle the global sanitation crisis and help achieve Sustainable Development Goal 6, which promises safely managed sanitation for all by 2030.

The theme of World Toilet Day 2024 is ‘Sanitation for Peace’. The campaign shows that toilets – this essential space at the centre of our lives – should be safe and secure. But for billions of people, sanitation is under threat from conflict, climate change, disasters and neglect.

World Toilet Day 2024 reminds the international community that faster action to improve and protect people’s access to sanitation is critical to building a fairer, more peaceful world.

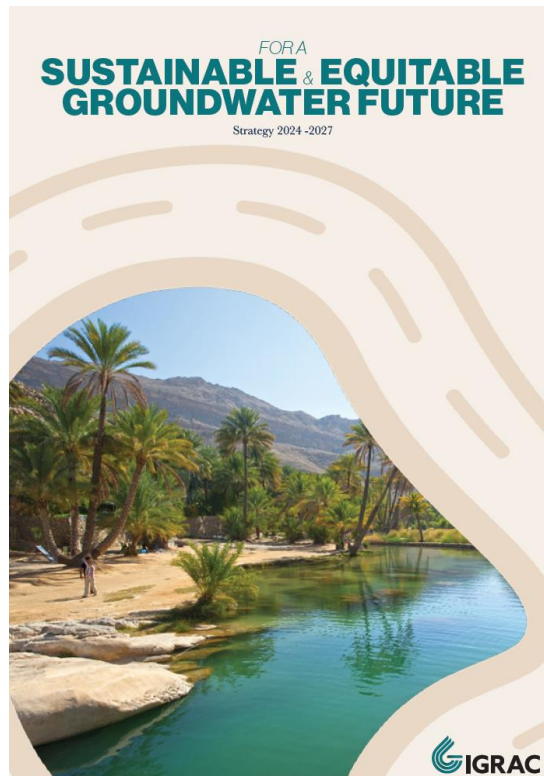
In the same year as the launch of the first-ever United Nations System-wide Strategy for Water and Sanitation, we hope to involve as many colleagues and offices as possible to promote sanitation as a central priority and help accelerate progress.

Thank you Ann Thomas for sharing with IAHA your concerns.

IGRAC strategy 2024 -2027. For a sustainable & equitable groundwater future

IGRAC’s core mission has been to improve worldwide availability of information and awareness on groundwater resources with emphasis on developing countries. The key objectives in this period have been to contribute to systematic groundwater monitoring and assessment, as a necessary basis for informed resource management and protection, and to encourage information sharing, awareness raising and strategic partnerships.

IGRAC have just released their STRATEGY 2024 – 2027 document.



In this occasion, although there are not direct mentions to MAR (neither the word “recharge” is present) the activity goes beyond!

Download: https://www.un-igrac.org/sites/default/files/resources/files/IGRAC_Strategy_2024-2027.pdf

IGRAC Vacancy: Senior Groundwater Specialist (deadline: 13 October 2024)



IGRAC is looking for a Senior Groundwater Specialist to integrate in its team based in Delft, The Netherlands.

Location: Delft, The Netherlands
Application deadline: 13 October 2024

Type of Contract: One-year contract under Dutch Law with possibility of renewal. For the full vacancy text and information on how to apply.

Read more here: <https://www.un-igrac.org/news/vacancy-senior-groundwater-specialist-deadline-13-october-2024/>

A pill of nostalgia

Section for “ancient” MAR or MAR-related publications...

Utilización de acuíferos costeros para abastecimiento (Bocanegra and Custodio, 1994, in Spanish).

UTILIZACIÓN DE ACUÍFEROS COSTEROS PARA ABASTECIMIENTO.

Dos Casos de Estudio: Mar del Plata (Provincia de Buenos Aires, Argentina) y Barcelona (Cataluña, España)

Emilia Bocanegra¹, Emilio Custodio²

¹Centro de Geología de Costas y del Cuaternario. Universidad Nacional de Mar del Plata, Argentina.

²Acad. Ciencias.Dep. de Ingeniería del Terreno y Cartográfica. Centro Internacional de Hidrología Subterránea. Universidad Politécnica de Cataluña. Barcelona, España.

RESUMEN: Mar del Plata es una ciudad costera en la franja atlántica de la Provincia de Buenos Aires (Argentina), con vocación predominantemente turística, pesquera y comercial. Barcelona es una ciudad costera mediterránea en Cataluña (España), con actividad dominante en el campo de la industria y los servicios. En ambas el agua subterránea juega un papel muy importante, el principal en Mar del Plata, y actualmente el de emergencia de abastecimiento y el de base de pequeños núcleos urbanos y centros industriales en Barcelona, aunque fue el principal en decenios pasados. En ambos casos los acuíferos son costeros, abiertos al mar, extenso y libre en el caso de Mar del Plata, y de tamaño reducido y cautivo en la costa el caso del delta del Llobregat, en Barcelona. En ambos casos la explotación intensiva del agua subterránea ha llevado a problemas serios de intrusión marina, con abandono de pozos y de ascenso de niveles en áreas previamente drenadas por las extracciones. Además existen riesgos notables de degradación del agua por actividades territoriales, principalmente agrícolas y de saneamiento. El resultado es un aumento progresivo y alarmante de nitratos, general en Mar del Plata y local en Barcelona. Buena parte de los problemas se pueden asociar a inadecuada gestión y a actuaciones territoriales desafortunadas, pero son corregibles si se utilizan los medios adecuados. Así se puede llegar al uso sostenible de un recurso de agua vital y de gran interés económico y social, al tiempo que se dispone de una reserva de emergencia de alto valor estratégico.

Download:

<https://riunet.upv.es/bitstream/handle/10251/118433/2649-7869-1-PB.pdf?sequence=1&isAllowed=y>

Whatsapp group on Aquifer Recharge Management

See below the link to join the group, with 192 participants today, and changed monthly. Please, access the last IAH-MAR newsletter for the most recent link.



IAH MAR 

Grupo · 192 miembros

<https://chat.whatsapp.com/BeGfL4aaRjW3WdFOBntLzS>

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.traqsa.es/>



@4dina_mar

<https://www.linkedin.com/groups/4690290/> (536 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>

There are 350 subscribers in 2024 September 24th (the IAH-MAR family).

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

Dr. Enrique Fernández Escalante, on behalf of the IAH MAR Commission co-chairs.
2024 September 25th