

IAH MAR Commission Newsletter, 2025 June, Issue no 51

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

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- Flood-Managed Aquifer Recharge (MAR) network on Wednesday, June 4 from 12:30 to 1:30 pm
- IAH-MAR seminars. Webinar #6th. July 15th. MAR modeling.
- Regenerative Agriculture, Water and Nitrogen in the California Central Valley. Wednesday, July 2, 2025, 12:30PM -1:30PM PST
- Call for action!. ISMARs´ photos collection. We still miss some from ISAR 1.
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Words about the 50th IAH-MAR newsletter release from some MAR family's veterans (second round)

Some words from Dave Tuthill

As water supplies become increasingly scarce in the western United States, the need for MAR grows. An emerging opportunity is the use of stored water for MAR, which increases the season of availability and expands storage capacity.

Cheers, David R. Tuthill

Some words from Mario Lluria (a grandpa of the MAR family)

Greetings Enrique,

I appreciate and value the effort you dedicate in preparing the "Newsletter Bulletins". I am sure that all members of the growing group of MAR professionals agree.

I also thank you for all your other numerous past contributions as a member of the IAH Committee on MAR.

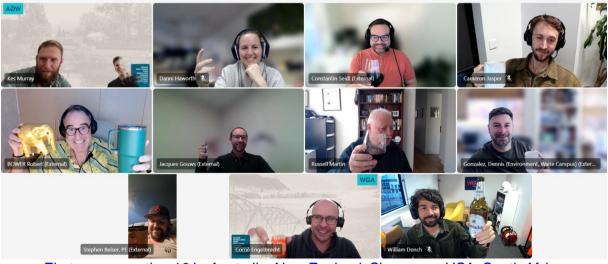
We missed seeing you at the BSMAR18 last year here in Tucson but looking forward to seeing you at the BSMAR19 next year in California and future ISMARs.

Best regards, Mario

Celebrating our 50th newsletter with a toast around the world

Thank you MARers for joining together somehow and keeping up the MAR-related activities.

Our call for a toast was celebrated in the five continents, let's keep moving...



First zoom meeting 16 h. Australia, New Zealand, Singapore, USA, South Africa





Second zoom meeting 16 h. South Africa, Spain, USA, Mexico, Sweden



USA Australia





Spain France

Gratitude to all the participating marers, it has been a good experience!



ISMAR 12 figures



"From Theory to Implementation and Operation"



170 delegates from more than 30 countries, all bringing valuable insights and expertise that enriched the symposium programme.

The LOC also sincerely thanks all sponsors and exhibitors for their support, which added great value to the symposium.

The field excursions, showcasing fascinating sites, will complement the symposium themes, offering attendees a comprehensive and enriching experience.

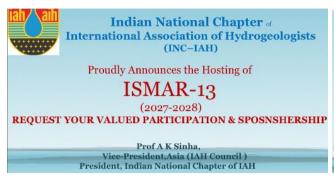
Photo gallery: https://photos.app.goo.gl/ifdbHpv77NSA1trW8

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

ISMAR 13 hosting country will be India

Although future organizers could not make it to present ISMAR 13 invitation, Dr. Salini Sashidaran made it on their behalf, with a brilliant exposition!





Dear Esteemed Colleagues and Valued Sponsors

I am happy to bring to your kind attention that the Indian National chapter of International Association of Hydrogeologists (INC-IAH). is committed to organize ISMAR 13 during 2027-2028 in India with your valued cooperation and support

The INC-IAH extend

WARMEST INVITATION TO YOU ALL

for participation and sponsorship opportunities at the upcoming "International Symposium on Managed Aquifer Recharge-13" (ISMAR 13).

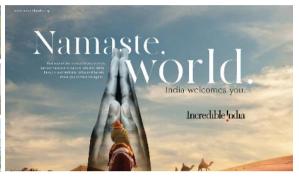
ISMAR is a pivotal platform for professionals, researchers, and organizations involved in the management and sustainable use of groundwater resources through innovative aquifer recharge techniques. This symposium will gather leading experts, policymakers, and industry stakeholders from around the world, fostering dialogue,











Special thanks to Professor Sinha for readiness and slides, and to Salini Sashidaran for this upcoming event's invitation.

International Association of Hydrogeologists Invitation to ISMAR 13, 2027. IAH Commission on International Symposia on MAR: 1. 1988 Anaheim California, USA (ASCE) 2. 1994 Orlando, Florida, USA (ASCE) 1998 Amsterdam, Netherlands (IAH, ASCE & UNESCO) 3. ISAR-4 4. 2002 Adelaide, Australia 5. 2005 Berlin, Germany 6. 2007 Phoenix, Arizona, USA 11 7. 2010 Abu Dhabi, UAE 8. 2013 Beijing, China 2016 Mexico City, Mexico 9. 10. 2019 Madrid, Spain 11. 2022 Long Beach California, USA 12. 2025 Stellenbosch, South Africa 13....2027 INDIA

ISMAR12



PUBLICATIONS ABOUT MAR

P-ISMAR 12 mini-book has just been released

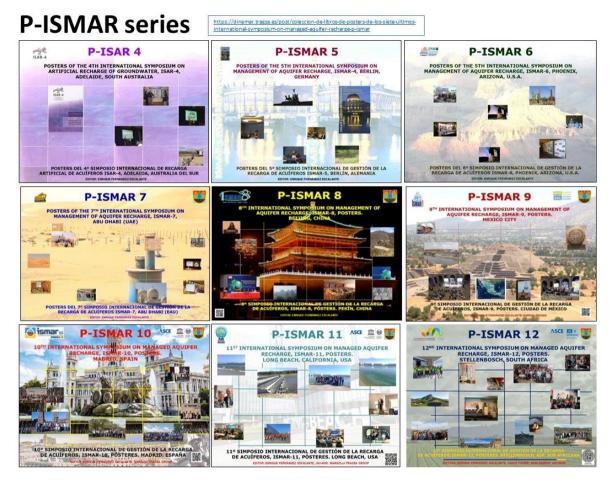
Posters were specifically requested by the organizers, including a disclaimer for the exhibition and publication. All of them have been gathered in this collection called P-ISMAR 12 (mini-book). Both, the classification and the editing tasks were carried out by IAH-MAR Commission co-chairs with the assistance of ISMAR 12's chairmen and scientific coordinator. You can hereby enjoy the publication resulting from this cooperation, which consists of 15 posters, which allows us to share some information that, otherwise, could have got lost.



https://dinamar.tragsa.es/file.axd?file=/PDFS/P-ISMAR-12p.pdf

Previous numbers of the collection:





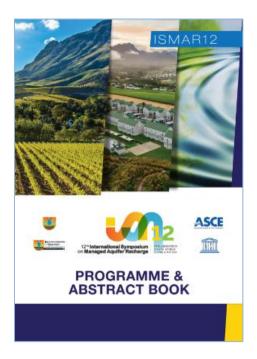
https://dinamar.tragsa.es/post/coleccion-de-libros-de-posters-de-los-siete-ultimos-international-symposium-on-managed-aquifer-recharge-p-ismar

ISMAR 12 Programme & abstract book

From Theory to Implementation and Operation.

The main theme "From Theory to Implementation and Operation" places the focus on the latest research, implementation of MAR sites and the practicality of operating MAR schemes.



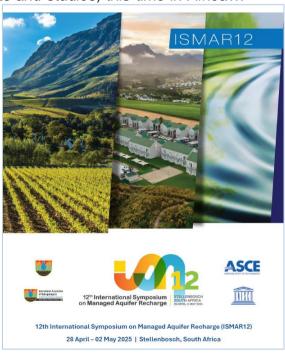


Download: https://recharge.iah.org/files/2025/05/ISMAR12_Programme-and-Abstract-Booklet.pdf

The ISMAR 12 section includes now links to download the field-trip guides and a photo-gallery. Have a look: https://recharge.iah.org/ismar/ismar12

ISMAR 12 Executive Summary (6 pg.)

ISMAR 12 was held in Stellenbosch, South Africa from 28 April to 2 May 2025. This was an opportunity for the rest of the world's MAR experts and academics to come to South Africa, showcase their specialities, and form the African connections that can provide their companies and institutions with their next international MAR partnership to facilitate new projects and studies, this time in Africa...





Read more and download: https://recharge.iah.org/files/2025/06/ISMAR12-for-IAH.pdf

YOUR ATTENTION PLEASE!! ISMAR12 Presentations repository

The IAH-MAR Commission maintains a deposit of presentations delivered at ISMAR symposia since ISMAR 9. A disclaimer was exposed when booking previous conferences, but, in ISMAR 12, this disclaimer was not included due to forgetfulness.

If you would like your oral presentation from ISMAR12 to be stored in the depo, or made available for the community at https://recharge.iah.org/, please send it in PDF format to confetal2@iafrica.com by 30 May 2025.

You may also write a co-chair after that date: https://recharge.iah.org/contact-us

The presentation will be either stored in a hard disk, in custody by IAH-MAR co-chairs for simple future preservation, or made accessible publicly; e.g. ISMAR 11 are stored, ISMAR 10 presentations are available at: https://dinamar.tragsa.es/post/tras-la-clausura-de-la-web-ismar10-net-los-principales-resultados-se-han-trasladado-a-dinamar-tragsa-es; and presentations from ISMAR 9 are only stored too. Please, make your decision, and proceed accordingly!

IAH News and information. May 2025

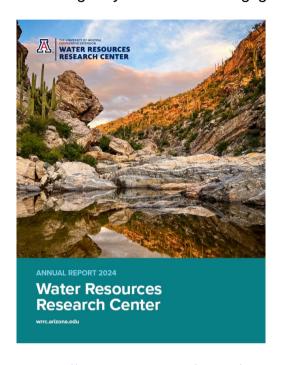


Read more and download: https://iah.org/news-information-magazine



University of Arizona. Water Resources Research Center. Annual report 2024

In 2024, the WRRC was once again called upon by various stakeholders and partners to be a trusted source of Arizona water resources information. Throughout the year, the WRRC's role in helping to facilitate water resources discourse in Arizona and beyond has been reaffirmed through my research and engagement effort...



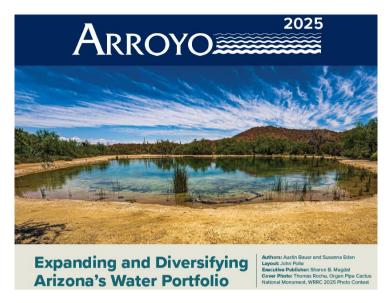
Read more and download: https://wrrc.arizona.edu/about/annual-report

Arroyo 2025. Expanding and Diversifying Arizona's Water Portfolio

The WRRC is pleased to announce publication of the 2025 Arroyo. With the title, "Expanding and Diversifying Arizona's Water Portfolio," this year's Arroyo describes the many ways Arizona is exploring to develop "new" water sources for a secure, sustainable supply.

Arizona relies on a diverse portfolio of water resources to meet its overall water needs, including groundwater, Colorado River water, in-state rivers, and reclaimed water. While all that water may meet our needs today, there is uncertainty about the future.





Read more and download: https://wrrc.arizona.edu/publication/arroyo-2025-expanding-and-diversifying-arizonas-water-portfolio

MAR AND MAR-RELATED CONFERENCES AND WORKSHOPS

6th International Summer School on MAR in Dresden

The "6th International Summer School on Managed Aquifer Recharge – MARISS" will be organised in Dresden (Germany) from 01 to 06 September 2025. Interested persons are welcome to submit their application by/before 15 June 2025.



While post-graduate students/researchers (master students, PhD/post-doc researchers), young and also experienced professionals worldwide are welcome to apply to participate in MARISS, there is an emphasis on participation from certain Middle East and North Africa (MENA) countries this year and eligible candidates from these countries are encouraged to apply.

More info: https://www.htw-dresden.de/mariss



Thank you Dr. Cornelius Sandhu for reporting.

MAR specific session in the IAH 2025 congress

Groundwater now and for the future

Join us for an extraordinary gathering of groundwater expertise at the Melbourne Convention and Exhibition Centre, from September 15-19, 2025. This event, held in conjunction with the 2025 Australasian Groundwater Conference, marks a significant return of the World Groundwater Congress to Australia after 12 years.



More info: https://iah2025congress.com/

The detailed program has not been published yet, but a specific session on MAR is planned.

NGWA MAR Symposium. Denver, Colorado, USA. September 23-24, 2025

Managed Aquifer Recharge (MAR) Conference Program available - all you water supply resilience proponents out there, the September 23-24, 2025 NGWA MAR Symposium Program is posted - there are also Sept 22 workshops and Sept 25 MAR field trips planned.



More info: https://ngwa.confex.com/ngwa/mar25/meetingapp.cgi/Home/0

Thank you, Tim Parker, NGWA MAR Work Group Chair, for reporting.



IWRA. XIX World Water Congress on "Water in a Changing World: Innovation and Adaptation"

Marrakech, Morocco, 1-5 December 2025. MAR is included in the thematic area 5.





More info:

https://worldwatercongress.com/about-us/congress-theme/#1736332941814-6a357f08-d37d

UN 2026 Conference on Water

The co-coordinator of the IAH LUNA Network has announced the UN 2026 Conference on Water: 18 March, an online meeting is being organized by the UN Secretariat in NY, to provide up-to-date information on the third UN Water Conference that will be organized in December 2026.

Details in further newsletters.

SEMINARS AND WEBINARS

IAH-MAR webinar series. #5th. June 19th, 12:00 h CET

Extending your knowledge on managed aguifer recharge?

MAR economics

Invited speakers and presentations:

Andrew Ross (Australian National University, Australia) <u>Economic analysis of managed aguifer recharge (MAR)</u>

Dennis Gonzalez (CSIRO, Australia) Estimating the costs of MAR under uncertainty





About 32 people attended this webinar.



Gestión sostenible de aguas subterráneas en Iberoamérica (in Spanish)

Los días 3 y 4 de junio de 2025, la Autoridad Nacional del Agua de Perú (ANA-Perú), en coordinación con la CODIA, há celebrado el foro "Gestión Sostenible de Aguas Subterráneas en Iberoamérica".

Program: https://dinamar.tragsa.es/post/gestion-sostenible-de-aguas-subterraneas-en-iberoamerica-03-y-04-de-junio-2025-de-9-00-a-12-00-gmt-5





Fecha inicio: 3 de junio de 2025 Fecha fin: 4 de junio de 2025

More info: https://codia.info/eventos/gestion-sostenible-de-aguas-subterraneas-en-iberoamerica/?mc id=238

https://dinamar.tragsa.es/post/jornadas-tecnicas-gestion-sostenible-de-aguas-subterraneas-en-iberoamerica-03-y-04-de-junio-2025

Results:

Cerca de 500 personas asistieron al evento. En el siguiente link encontrará la grabación de las ponencias de ambos días (Autoridad Nacional del Agua). https://www.swisstransfer.com/d/5594a7a5-c8b4-432d-b316-d8f883ad74d1



ALHSUD Capítulo Chileno. Webinario sobre recarga gestionada de acuíferos en Chile. 25 de junio (in Spanish)

Se analizaron los desafíos para la implementación de la Recarga Gestionada de Acuíferos (RGA) en Chile, en un contexto de megasequía prolongada y sobreexplotación de acuíferos en la zona central.

Expositora: Rayén Rivera Vidal: geóloga por la Universidad de Concepción y candidata a doctora en Ciencias Ambientales, con especialización en hidrogeología y gestión sostenible del agua. Su investigación doctoral se centra en el potencial de la recarga gestionada de acuíferos en contextos agrícolas, integrando modelación hidrológica, análisis de calidad de agua y estudios de gobernanza.





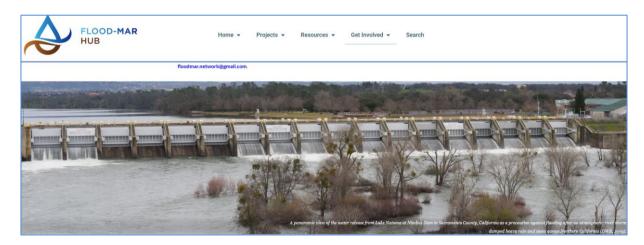
More info: https://alhsudchile.wixsite.com/alhsudchile/copia-de-segundo-webinario-2025

Previous ALHSUD webinars:

https://www.youtube.com/channel/UCqpPuBvF_IKWIfkZTfKp0gA/videos

Flood-Managed Aquifer Recharge (MAR) network on Wednesday, June 4 from 12:30 to 1:30 pm

Organized by <u>California Department of Water Resources</u> on an innovative project to remove suspended solids from river water prior to recharge.



Removal of Suspended Solids and Water Quality Improvements from Riverbed Filtration-Eight Years of Demonstration Testing in Orange County, CA. Sneak Peek: Clogging of surface water recharge systems from suspended solids is a major obstacle to effective groundwater recharge—but what if there were a better way? Join us to learn how the Orange County Water District's innovative Riverbed Filtration System more than doubled recharge capacity while removing 96% of suspended solids from Santa Ana River water. Discover how this breakthrough could unlock thousands of



acre-feet of additional recharge annually and transform the future of water management.

More info:

https://floodmar.org/get-involved/?utm_medium=email&utm_source=govdelivery#events

Thank you, Adam Hutchinson, for reporting.

UPCOMING

Seminar #6th. July 15th @8 AM US eastern standard time. MAR modeling

Flow and Transport Dynamics in Engineered and Natural Systems: Advanced Modeling and Experimental Insights for Sustainable Management of Soil, Water, and Energy Resources

Invited speakers: Christophe Darnault and Mahsa Ghorbani

IAH-MAR members are invited to participate in future webinars. Please, consider proposing a title and sending your suggestion to Catalin Stefan.

Previous booking is required. More info and (most of the) presentations: https://recharge.iah.org/online-mar-seminars

Regenerative Agriculture, Water and Nitrogen in the California Central Valley. Wednesday, July 2, 2025, 12:30PM -1:30PM PST

https://floodmar.org/get-involved/?utm_medium=email&utm_source=govdelivery#events

NEW MAR OR MAR-RELATED ACTIVITIES

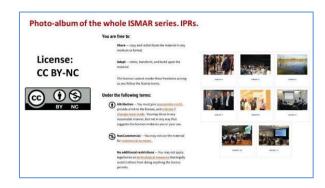
Call for action!!. ISMARs´ photos collection. We still miss some from ISAR 1

The IAH MAR commission website includes an ISMAR-related section containing all information gathered from our conferences.

IAH-MAR co-chairs have already posted on line a photo album from each edition (attending carefully IPRs license CC BY-NC), exposing a disclaimer too.

We kindly request contributions from ISAR 1, Anaheim, 1988, still empty.





By the moment, and due to the large amount of Mb required, photos are in an external repo (Google Photos), accessible clicking each link posted at each ISMAR section: https://recharge.iah.org/ismar

MORE ACTION

Curso de recarga artificial de acuíferos (in Spanish)

La recarga artificial de acuíferos o "managed aquifer recharge" es una herramienta de gestión del ciclo hidrológico que está orientada a aumentar los recursos disponibles de un determinado acuífero, a mejorar su calidad o a mejorar la calidad del recurso que se recarga. En cada uno de los casos hay nombres específicos para las técnicas -que se verán a lo largo del curso-.



More info: https://ingeoexpert.com/cursos/curso-de-recarga-artificial-de-acuiferos/

MAR in the Media

Chile:

https://www.reporteminero.cl/noticia/columnistas/2025/06/desafio-recargar-acuiferos-con-agua-desalada

https://g5noticias.cl/2025/06/19/esval-recuperacion-de-embalses-y-recarga-artificial-de-los-aromos-ayudan-a-la-seguridad-hidrica-de-la-region/



Mexico:

https://www.excelsior.com.mx/nacional/alertan-sobre-contaminantes-emergentes-enlos-acuiferos-estudio-del-tec-de-monterrey

https://lajornadaestadodemexico.com/conagua-reporta-deficit-en-acuiferos-clave/

Spain:

https://www.informacion.es/vega-baja/2025/06/24/expertos-regantes-proponen-recarga-artificial-acuiferos-119015239.html

https://www.lavozdetomelloso.com/65991/cuas_mancha_occidental_pide_administracion_tenga_cuenta_importancia_regadio_alto_guadiana

https://objetivocastillalamancha.es/contenidos/cuas-mancha-occidental-ii-reclama-revision-medidas-hidricas-ineficacia

https://www.latribunadealbacete.es/noticia/z13348cd6-2c9a-4149-85da50775f8b1f1d/202506/los-regantes-plantean-la-recarga-artificial-del-acuifero

Whatsapp group on Aquifer Recharge Management

The group has 200 participants today. Ask the invitation link by <u>email</u>, pls, as it changes eventually. It is now:

https://chat.whatsapp.com/CvxFw98N9xtHqdrzwWBEzF



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/ (552 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 367 members today... and you are invited to join!

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

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

2025 June 30th