

Dear Ladies and Gentlemen, dear MAR family, good morning!

Attached some MAR-related news for 2022 February.

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## 11<sup>st</sup> International Symposium on Managed Aquifer Recharge, ISMAR 11. REGISTRATION AND DRAFT AGENDA

On behalf of GRA, ISMAR 11 organizers and the IAH-MAR Commission, we cordially invite you to attend the 11<sup>th</sup> International Symposium on Managed Aquifer Recharge (ISMAR11), April 2022 in Long Beach, CA.

Program already available: <https://www.grac.org/ismar-agenda-highlights/>



ISMAR 11 website: <https://www.ismar11.net/>

GRA event page: <https://www.grac.org/events/272/>

Register as a Sponsor or Exhibitor: <https://lnkd.in/g6Sb6ur>

View the Sponsorship Opportunities booklet: <https://lnkd.in/gKqA4nh>

Along with the email - Facebook, LinkedIn, Instagram and Twitter all have posts

30<sup>th</sup> ANNIVERSARY  
Groundwater Resources Association

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APRIL 2022

Events In Search Group Type  
Date Keyword All Groups All FIND EVENTS LIST VIEW

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
27	28	29	30	31	1	2
				12 PM - 1 PM GRACale Day...		
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10	11	12	13	14	15	16
	8 AM - 5 PM ISMAR 11 (Open...					
17	18	19	20	21	22	23
24	25	26	27	28	29	30

Export Calendar

For the dissemination of the conference, the organizers are preparing some social media cards, e.g:



**#ISMAR11**

Please visit [www.ismar11.net](http://www.ismar11.net) for more information.



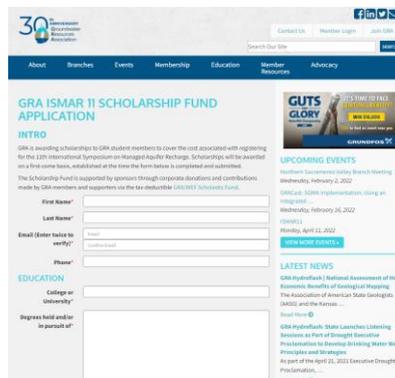
**Enrique Fernández Escalante**  
 IAH MAR Commission Co-Chair & ISMAR 10 Chair

*The ISMAR series is an invaluable opportunity to meet and connect with fellow MAR professionals. No other conference is so focused on this specific water management technique. I encourage you to take advantage of this conference to “recharge” your store of knowledge in MAR!*

## ISMAR 11. GRA Student Member Scholarships

GRA is awarding scholarships to GRA student members to cover the cost associated with registering for the 11th International Symposium on Managed Aquifer Recharge. Scholarships will be awarded on a first-come basis, established at the time the form below is completed and submitted.

The Scholarship Fund is supported by sponsors through corporate donations and contributions made by GRA members and supporters via the tax-deductible GRAWEF Scholastic Fund.



The screenshot shows the 'GRA ISMAR 11 SCHOLARSHIP FUND APPLICATION' form on the GRA website. It includes an 'INTRO' section explaining the scholarship, a form with fields for 'First Name', 'Last Name', 'Email (Enter twice to verify)', and 'Phone', and an 'EDUCATION' section with fields for 'College or University' and 'Degree held and/or in pursuit of'. There are also sections for 'UPCOMING EVENTS' and 'LATEST NEWS' on the right side of the form.

More info and submission:  
<https://www.grac.org/forms/gra-ismar-scholarship-fund-application/>

## NEW MAR OR MAR-RELATED PUBLICATIONS

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### **Managed Aquifer Recharge. A key to sustainability. Journal Water special issue**

MDPI Journal Water and IAH-MAR Commission + ISMAR 11 organizers commit a future Journal to include the main articles, outcomes. Authors not ISMAR 11 attendants are invited to participate.

Selected papers presented at ISMAR 11 will be published in a Special Issue of the open-access journal WATER, continuing the tradition from previous symposia, including ISMAR 10. Submission is open for all ISMAR 11 participants, as well as all members of the international MAR community.

The title of the special issue is: “Managed Aquifer Recharge: A key to Sustainability” and the included papers will be available in electronic format and as part of a printed book.

Some vouchers are available as waivers or discounts on article processing charges (APCs).

The Special Issue is already open for contributions. For more details visit: [https://www.mdpi.com/journal/water/special\\_issues/Aquifer\\_Recharge](https://www.mdpi.com/journal/water/special_issues/Aquifer_Recharge).

Guest editors:

Enrique Fernandez Escalante (Spain)

Catalin Stefan (Germany)

Christopher J. Brown (USA)

June Mirecki (USA)



More info: [https://www.mdpi.com/journal/water/special\\_issues/Aquifer\\_Recharge](https://www.mdpi.com/journal/water/special_issues/Aquifer_Recharge)

**Special Issue "Managed Aquifer Recharge: A key to Sustainability"**

- Print Special Issue Flyer
- Special Issue Editors
- Special Issue Information
- Keywords
- Published Papers

A special issue of *Water* (ISSN 2073-4441). This special issue belongs to the section "Water Resources Management, Policy and Governance".

Deadline for manuscript submissions: 18 September 2022.

**Share This Special Issue**

✉ 🐦 🌐 📘 🗣️

**Special Issue Editors**

**Dr. Enrique Fernández Escalante** E-Mail Website SciProfiles  
Guest Editor  
Tragsa R&D, UPM Lecturer, WB Consultant, Co-Chair IAH MAR Commission, Madrid, Spain  
Interests: IWRM, hydrogeology, technical solutions for water management, design and construction criteria  
Special Issues, Collections and Topics in MDPI journals

**Dr. Catalin Stefan** E-Mail Website SciProfiles  
Guest Editor  
Research Group INOWIAS, Department of Hydrosiences, Technische Universität Dresden, 01069 Dresden, Germany  
Interests: soil aquifer treatment (SAT), managed aquifer recharge (MAR)

**Dr. Christopher J. Brown** E-Mail Website  
Guest Editor  
School of Engineering, University of North Florida, Jacksonville, FL, USA  
Interests: groundwater hydrology; surface water hydraulics; geotechnical engineering; dam safety

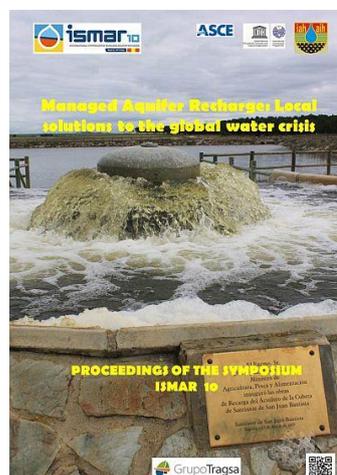
**Dr. June Mirecki** E-Mail Website  
Guest Editor  
U.S. Army Corps of Engineers-Jacksonville District, Jacksonville, FL, USA  
Interests: groundwater geochemistry, geochemical modeling, groundwater quality, water-rock interactions

## ISMAR10.net website content has been transferred to the new dinamamar site

All the materials released during and after ISMAR 10 (proceedings books, presentations, abstracts book, posters book...) can be downloaded from the updated dinamamar website.

<https://dinamar.tragsa.es/post/tras-la-clausura-de-la-web-ismar10-net-los-principales-resultados-se-han-trasladado-a-dinamar-tragsa-es>

e.g.: [https://dinamar.tragsa.es/file.axd?file=/PDFS/ISMAR10-proceedings-book\\_EF.pdf](https://dinamar.tragsa.es/file.axd?file=/PDFS/ISMAR10-proceedings-book_EF.pdf)

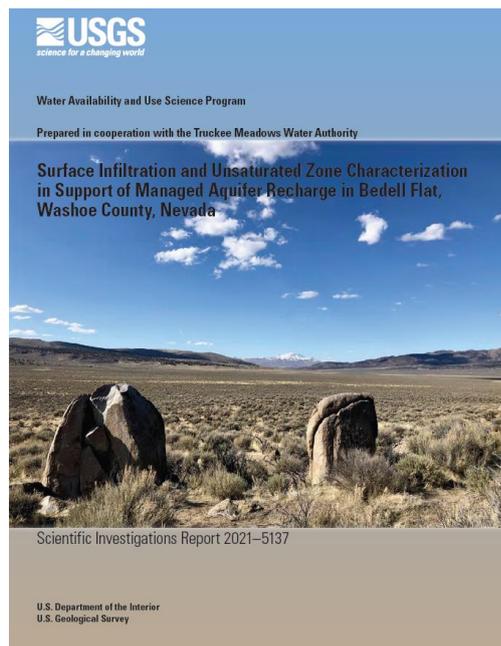


## **USGS Water Availability and Use Science Program. Surface Infiltration and Unsaturated Zone Characterization in Support of Managed Aquifer Recharge in Bedell Flat, Washoe County, Nevada**

Scientific Investigations Report 2021–5137.

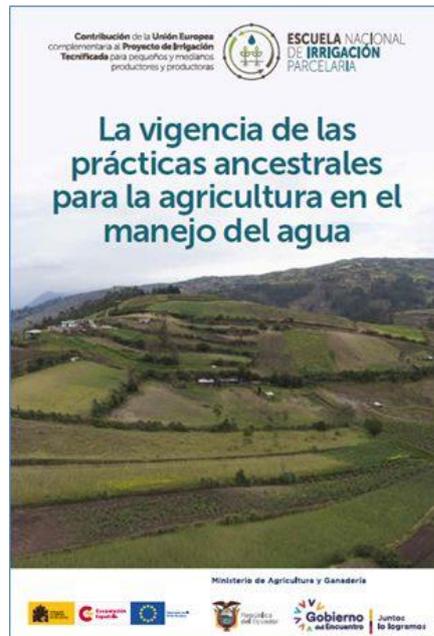
Aquifer storage and recovery (ASR) expands the portfolio of public water supply and improves resiliency to drought and future water demand. This study investigated the feasibility of ASR in the Bedell Flat Hydrographic Area using land-based methods including in-channel managed aquifer recharge (MAR) and rapid infiltration basins (RIB). Bedell Flat, one of two flow-through groundwater basins near Reno, Nevada, was a likely candidate for ASR because of its deep basin fill, proximity to supplemental water sources and infrastructure, and lack of development. In-channel MAR feasibility was determined from seepage losses along the Bird Springs ephemeral channel measured using Parshall flumes and heat-as-a-tracer inverse modeling...

Read more and download: <https://pubs.er.usgs.gov/publication/sir20215137>



## **La vigencia de las prácticas ancestrales para la agricultura en el manejo del agua (in Spanish)**

Some references to ancient MAR techniques are included in this new publication recently released.



Download: <http://balcon.mag.gob.ec/onr/wp-content/uploads/2021/12/Practicas-Ancestrales-de-Riego.pdf>

ISBN: 978-9942-8975-1-0

Edited by: Ministerio de Agricultura y Ganadería Subsecretaría de Irrigación Parcelaria Tecnificada Escuela Nacional de Irrigación Parcelaria (ENIP) Ecuador, and Unión Europea y Agencia Española de Cooperación Internacional para el Desarrollo.

## MAR-related conferences and seminars

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### **40 hours MAR course organized by the Peruvian Water National Authority (ANA)**

The National Water Authority (ANA) Peru are conducting a capacitation course for 40 h directed at Peruvian civil servants and water management practitioners.

The course combines theory and practice with in person lessons in Ica between Feb 28<sup>th</sup> and March 3<sup>rd</sup>, field trips and three on line final lesson to complement the program.



More info: <https://www.gob.pe/institucion/ana/noticias/586552-ana-organiza-curso-recarga-gestionada-de-acuiferos>

### **Webinar Problems and solutions with Aquifer Storage Recovery in Lebanon. March 17, 2022**

Third webinar on groundwater challenges in Mediterranean and semi-arid regions titled “Problems and solutions with Aquifer Storage Recovery in Lebanon”. It is organized by the International Association of Hydrogeologists (IAH) Lebanon Chapter, IAH- MENA, and the Department of Geology at the American University of Beirut (AUB).

The webinar will be delivered on March 17, 2022 at 16:00 GMT, 18:00 Beirut time.

Speakers:

- Pieter J. Stuyfzand, Emeritus Professor in hydrogeochemistry and hydrogeology, Delft University of Technology and KWR Water Research Institute, the Netherlands.
- Catalin Stefan, Technische Universität Dresden, Germany.







# GROUNDWATER

## Mediterranean and Semi-Arid Regions

A series of webinars about the current challenges of groundwater management

### Seminar 3

#### Problems and solutions with Aquifer Storage Recovery in Lebanon

### MAR 17, 2022

11:00 am – 12:00 pm EST  
4:00 – 5:00 pm GMT  
6:00 – 7:00 pm Beirut time



[Click here to Join the Webinar](#)  
 Webinar number (access code): 2406 826 7696  
 Webinar password: Bgd3tSQJ@57

#### PRESENTERS

**Pieter J. Stuyfzand**, Emeritus Professor in hydrogeochemistry and hydrogeology, Delft University of Technology and KWR Water Research Institute, the Netherlands.

*Prof. Stuyfzand is an emeritus professor with a personal chair in (chemical) hydrogeology, first (2004-2016) at VU University Amsterdam, and since September 2016 at Delft University of Technology (TU Delft). Before his official retirement in 2016, he was a part-time scientist at KWR Water Research Institute linking scientific work at university to applied research at KWR. Prof. Stuyfzand is still connected to KWR and TU Delft through his own private consultancy company, Stuyfzand Hydrochemists. He is still involved in supervising various PhD and MSc students, and a reviewer of many local and international projects, and peer-reviewed journals. He is the founder of the Stuyfzand Classification of water types, among many other methods and tools, and he is now finishing two professional texts book (1) on managed aquifer recharge, and (2) on hydrogeochemical methods. In 2018, the IAH chapter in the Netherlands honored the Pieter Stuyfzand Thesis Prize in honor of his contribution to the development of hydrogeology. The prize is awarded every year to one graduate student who has written a thesis on a groundwater related subject.*

**Catalin Stefan**, Technische Universität Dresden, Germany.  
*Dr. Stefan is the head of the Research Group NOWAS at TU Dresden (TUD), Germany. His research focuses on planning, assessment and optimization of managed aquifer recharge applications using physical models and computer-based simulations. Dr. Stefan works at TUD as Research Associate. Since 2019, he is Co-Chair of the Commission on Managing Aquifer Recharge of the International Association of Hydrogeologists (IAH) and since 2016 active member of Groundwater Solutions Initiative for Policy and Practice (GSIPP). He is the initiator and co-author of the Global MAR Portal, an inventory of over 1000 MAR case studies worldwide. Dr. Stefan has experience in coordinating and managing international networks and partnerships with regional focus on Central America, Central and Southeast Asia, and MENA region.*

**PROGRAM ORGANIZERS**  
 International Association of Hydrogeologists- MENA <http://iah.org/>  
 International Association of Hydrogeologists- Lebanon Chapter <http://lebanon.iah.org/>  
 Department of Geology- American University of Beirut <http://www.aub.edu.lb/sciences/geology/pages/about.aspx>

Please join us on this link:

<https://aub.webex.com/aub/j.php?MTID=m89c15ff4d3f32679e5b947928cc8e3fb>

Webinar number: 2406 826 7696

Webinar password: Bgd3tSQJ@57

Thank you Wisam Khadra (VP of IAH Lebanon Chapter) and Joanna Doummar (VP of IAH in MENA) for reporting.

## SMART-Control Online Seminar Series starting on 05th April 2022

The developed web-based tools within SMART-Control will be presented in three online seminars. The tools can be used to analyse various processes occurring during managed aquifer recharge (MAR) and simplify the save and sustainable operation of MAR facilities. ... Read more:



<https://smart-control.inowas.com/smart-control-online-seminar-series/>

1. Initial risk assessment of MAR systems. 05 April 2022, 2 pm CET.
2. Real-time monitoring of MAR systems. 03 May 2022, 2 pm CET.
3. Groundwater modelling and scenario analysis. 07 June 2022, 2 pm CET.

Flyer: <https://smart-control.inowas.com/wp-content/uploads/Flyer-Webinar-Series.pdf>

## Groundwater, key to the sustainable development goals conference will have a MAR session (4j).

Managed aquifer recharge (MAR) is a low-cost, low-energy technique to increase groundwater resources, reduce the impacts of groundwater overexploitation, improve recharged aquifers' water quality, and protect groundwater dependent ecosystems. Therefore, MAR must be considered as a strategic technique to reach the 2030 United Nations Agenda for Sustainable Development Goals and its objective of improving water quality and increasing recycling and safe reuse... Read more: <http://www.gw-sdg2022.fr/index.php/en/topics>

• 43 - **Managed aquifer recharge** as a tool to protect aquifers and help sustainable groundwater management  
 Le recharge artificielle des aquifères comme outil de protection des aquifères et de gestion durable des eaux souterraines

**Topic coordinator(s):** Jesús Carrera<sup>1</sup>, M. Jesús Díaz-Cruz<sup>2</sup>, Cristina Vathvedt<sup>3,4</sup>

**1.** Geosciences Department, Institute of Environmental Assessment and Water Research (IDAEA), Severo Ochoa Excellence Center, Spanish Council for Scientific Research (CSIC), Barcelona, Spain  
**2.** Associated Unit Hydrogeology Group (LUPC-CSIC)  
**3.** Environmental Chemistry Department, Institute of Environmental Assessment and Water Research (IDAEA) Severo Ochoa Excellence Center, Spanish Council for Scientific Research (CSIC), Jordi Girona 18-26, 08034 Barcelona, Spain  
**4.** Geosciences Montpellier, Université de Montpellier, CNRS, Montpellier, France

**Description:** Managed aquifer recharge (MAR) is a low-cost, low-energy technique to increase groundwater resources, reduce the impacts of groundwater overexploitation, improve recharged aquifers' water quality and protect groundwater dependent ecosystems. Therefore, MAR must be considered as a strategic technique to reach the 2030 United Nations Agenda for Sustainable Development Goals and its objective of improving water quality and increasing recycling and safe reuse.  
 This session aims to share experiences and methods to advance the broad adoption of MAR methods. Topics in this session include, but are not limited to:

- Water quality improvement through MAR;
- MAR as a tool to deal with climate change effects;
- MAR applications to improve groundwater dependent ecosystems;
- MAR systems for water recycle and reuse.

Le recharge artificielle des aquifères (MAR) est une technique peu coûteuse et peu énergivore qui permet d'augmenter les ressources en eau souterraine, de réduire les impacts de la surexploitation des eaux souterraines, d'améliorer la qualité de l'eau des aquifères rechargés et de protéger les écosystèmes dépendant des eaux souterraines. Par conséquent, la MAR doit être considérée comme une technique stratégique pour atteindre l'Agenda 2030 des Nations Unies pour les objectifs de développement durable et contribuer à améliorer la qualité de l'eau et d'augmenter le recyclage et la réutilisation sûre.  
 Cette session vise à partager des expériences et des méthodes pour faire progresser l'adoption à grande échelle des méthodes MAR. Les sujets de cette session incluent, mais ne sont pas limités à:

- Contribution de la qualité de l'eau grâce à la MAR;
- La MAR comme outil pour faire face aux effets du changement climatique;
- Les applications MAR pour améliorer les écosystèmes dépendant des eaux souterraines;
- Les systèmes MAR pour le recyclage et la réutilisation de l'eau.

<http://www.gw-sdg2022.fr/index.php/en/organisation>

## IWRA and GRIPP are preparing a series of webinars in connection with the Year of Groundwater

IWRA and GRIPP are preparing a series of webinars in connection with the Year of Groundwater, promoting discussions of 'success stories' related to groundwater solutions.

Between mid-2021 and the end of 2022, the [International Water Resources Association \(IWRA\) Groundwater Task Force](#) and the Groundwater Solutions Initiative for Policy and Practice ([GRIPP](#)) are organizing a series of webinars, each of which presents and reflects on different aspects of success when dealing with integrated groundwater solutions for water security, resilience and management. By reviewing, sharing and discussing examples of success, the visibility of options increase, supporting the [Year of Groundwater – Making the Invisible Visible](#) and the degree of transferability can be evaluated, while at the same time building global partnerships and communities of practice.



More info: <https://www.iwra.org/groundwater-task-force/>  
 Thank you K. Villholth and Peter Dillon for reporting.

## International summer school. Managed aquifer recharge, MARISS

Dresden, Germany. 29.08 - 09.09.2022. 09:00 - 19:00, Room Z824.

Final programme of the MARISS Summer School:

**29.08 - 09.09.2022**  
09:00 - 19:00, Room Z824

**Monday, 29.08.**  
08:30 Registration and coffee break  
09:00 Welcome and introduction to MARISS  
Cr. Sandhu, coordinator MARISS  
09:15 Keynote speech: 30 years of riverbank filtration research at the University of Applied Sciences Dresden  
Prof. Dr.-Ing. T. Grischek, Head of Division of Water Sciences  
09:45 Keynote speech: Groundwater in a changing environment  
Dr. C. Stefan, Co-chair of IAH Commission on MAR  
10:15 Coffee break in Z801  
10:30 Participants introduction  
Presentation of own projects, 15 min. per person with questions/discussion  
12:00 Photo session  
12:30 Lunch  
13:30 Participants introduction  
Presentation of own projects, 15 min. per person with questions/discussion  
15:00 Discussion and coffee break  
18:00 Ice-breaker dinner

**Tuesday, 30.08**  
09:00 Hydraulic aspects and management of clogging  
T. Grischek  
10:30 Coffee break  
10:45 Well design  
T. Grischek, Dr.-Ing. C. Sandhu  
12:00 Lunch  
13:00 Design of RBF schemes and site selection concept  
C. Sandhu, N.A. Hoang  
14:30 Coffee break  
14:45 Lab work I: Hydraulics and clogging  
T. Grischek, C. Sandhu  
17:00 Coffee break  
17:15 Group project on MAR design and site selection  
T. Grischek, C. Sandhu

Partners





**4. INTERNATIONAL SUMMER SCHOOL  
MANAGED AQUIFER RECHARGE, MARISS**

**Wednesday, 31.08.**  
07:00 - 20:00 Technical excursion to MAR sites in Saxony



Visit to the riverbank filtration well at the Waterworks Sdler, 2021

**Thursday, 01.09.**  
09:00 Web-based numerical modelling and optimisation of MAR  
Dr. C. Stefan, TU Dresden  
10:30 Coffee break  
10:45 Web-based numerical modelling and optimisation of MAR applications  
C. Stefan  
12:00 Lunch  
13:00 MAR in coastal aquifers  
Cr. Sandhu  
14:30 Coffee break  
14:45 MAR in coastal aquifer applications  
Cr. Sandhu  
16:15 Coffee break  
16:30 Group project on MAR design and site selection  
C. Sandhu

Venue  
Hochschule für Technik und Wirtschaft Dresden  
Friedrich-List-Platz 1  
01069 Dresden  
[www.htw-dresden.de](http://www.htw-dresden.de)

Contact: [mariss@htw-dresden.de](mailto:mariss@htw-dresden.de)





**Friday, 02.09.**  
09:00 Numerical modelling of MAR schemes  
Dr.-Ing. T. Reimann, TU Dresden, C. Sandhu  
10:30 Coffee break  
10:45 Numerical modelling of MAR schemes applications  
T. Reimann, C. Sandhu  
12:00 Lunch  
13:00 Water quality modelling  
T. Reimann, C. Sandhu  
14:30 Coffee break  
14:45 Water quality modelling applications  
T. Reimann, C. Sandhu  
16:15 Coffee break  
16:30 Group project on MAR design and site selection  
C. Sandhu

**Saturday/Sunday - Individual excursions**





Funded within the framework of Future East HTW Dresden - international and national project by



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service



Deutscher Akademischer Austauschdienst  
German Academic Exchange Service

More info:

<http://www.htw-dresden.de/mariss>  
[mariss@htw-dresden.de](mailto:mariss@htw-dresden.de)

Thank you Cristina Sandhu and Catalin Stefan for reporting.

## Other issues

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### **Local Company to conduct hydrogeological studies in Niger for IWRM and MAR implementation activities. CALL FOR EXPRESSIONS OF INTEREST**

TRAGSA, within the framework of the [DeSIRA project, of Spanish cooperation in Niger promoted by AECID](#), undertakes the search for a local partner company located in Niger for the execution of the first works leading to the implementation of MAR devices in two selected aquifers in the country.

#### STAGE ONE:

The works initially planned in the first stage is the hydrogeological characterization, specifically:

- - Preliminary cabinet work: collection and analysis of information.
- - Extension of the base cartography assembled by Tragsa. Most important GIS coverages for the future elaboration of the "MAR map" for Niger.
- - Inventory of water points and "seuils d'épandage" in the two pilot aquifers.
- - Contributions to the design of the monitoring network in two pilot aquifers in the regions of Tahoua and Maradi: Kalfou and Bambeye (south of Tahoua city) and around the city of Maradi. This would represent a total surface area of approximately 15,000 km<sup>2</sup> (8+7).
- - In situ sampling campaigns (water table and water quality measurements, at least).
- - Geophysical prospecting campaigns to establish the geometry of the receiving environment.
- - Drilling with continuous core drilling, granulometric analysis and in situ permeability tests.
- - Instrumentation. Automation of monitoring points.
- - Elaboration of hydrogeological cartography.
- - Hydrological study. Surface hydrology data capture.
- - Elaboration of a rainfall-runoff and/or rainfall/infiltration model/s.
- - Contribution to the hydrogeological report in collaboration with TRAGSA and the Ministry of Environment of Niger.
- - Recommendations for improved governance and IWRM in both use-cases, extrapolable for the whole country?

Expressions of interest are requested from locally based companies qualified to carry out these works.

Expressions of interest should be sent to Tragsa to the attention of Luis Cañada: [lcanada@tragsa.es](mailto:lcanada@tragsa.es).

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## More actions

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### Whatsapp group on Aquifer Recharge Management

Since the previous QR code to join the group was reset, the intromission of trolls has been zero.

This is the new one: <https://chat.whatsapp.com/BxYZq7wERpc7nDeTRIYN63>

Please do not share it with outsiders.



### Old publications on MAR (another drop of nostalgia...).

Guide on artificial recharge to ground water. New Delhi May, 2000.

<http://cgwb.gov.in/documents/ArtificialRecharge-Guide.pdf>

### Previous IAH-MAR Newsletters

Please, remember that you can access the previous newsletters in our website:

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

That's all by now... please, keep reporting ([dinamar@tragsa.es](mailto:dinamar@tragsa.es)).

Thank you very much for your kind attention  
All the best...

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

2022 February 28<sup>th</sup>



@IAHMARCom

<https://twitter.com/IAHMARCom>

Please, remember you can book freely in the IAH MAR Commission Forum:  
<https://lists.flinders.edu.au/mailman/listinfo/iah-mar.listcqs> to stay informed on  
MAR issues and to share your info.

### Sister sites:

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



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



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