

Dear Ladies and Gentlemen, dear MAR family, greetings!

Please find some news on MAR for 2021 April

INDEX:

International Symposium on Managed Aquifer Recharge, ISMAR 11. Call for abstracts!!

IAH Commission on Managing Aquifer Recharge. Twitter account and IAH MAR list

The IAH-MAR Commission sister site, www.dina-mar.es, is operative again:
www.tragsa.dinamar.es

CONFERENCES WITH MAR SESSIONS. DEADLINE EXTENSIONS

International Symposium on Geofluids, to be held on 7-9 July 2021. Deadline extended to April 14th

47th IAH Congress- Brazil/Brasil 2021. Call for abstracts and booking. Deadline Extended!
Prazo Prorrogado!; Plazo Extendido!

48th IAH Congress- Brussels. Call for abstracts, deadline Extended! April 21th

IAH-MAR commission website has included the results from the whole ISMAR conferences.
P-ISMAR books have just been included too

Water Journal special issue. 23 papers have been gathered in a book. Already on line!

Managed aquifer recharge with various water sources for irrigation and domestic use.
Chapter book written by Israel members

Some more MAR activity in Spain

TIME FOR WEBINARS

INOWAS international workshop on line. Evaluaci6n del impacto holístico de la regarga gestionada de acuíferos (MAR) en los servicios ecosistémicos (in Spanish) **IMMINENT!**

MAYA Project, final workshop. **IMMINENT.**

Webinar on Managed Aquifer Recharge, but then for heating or cooling :) April 16th, 16 h CET.

Results from the webinar Managing Aquifer Recharge: A Showcase for Resilience and Sustainability. PPT and VIDEORECORD

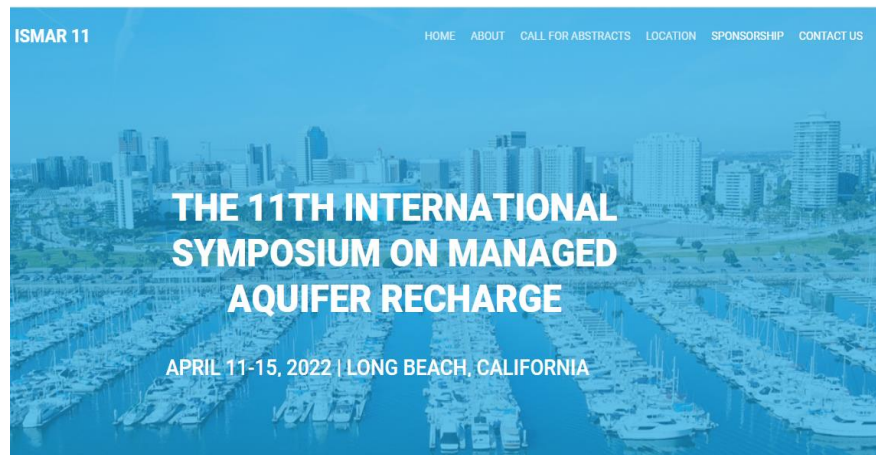
I Congreso Nacional de Seguridad Hídrica Guatemala, including a session on water security and MAR (in Spanish). Results

Funcagua Guatemala organizes a series of conferences on Aquifer Recharge (in Spanish)

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

International Symposium on Managed Aquifer Recharge, ISMAR 11. Call for abstracts!!

The premier conference on MAR, ISMAR 11
Long Beach, CA, USA, April 11th to 15th 2022



Call for abstracts open: <https://airtable.com/shrGJrx6WU4UG9zUv>

Stay connected by signing up for the ISMAR11 mailing list for the latest information on abstracts, registration information, etc.

More info: <https://www.ismar11.net/#about>

There is a **sponsorship prospectus** available for those that wish to be a sponsor or exhibitor at the event.

IAH Commission on Managing Aquifer Recharge. Twitter account and IAH MAR list

A new Twitter account of the IAH Commission on Managing Aquifer Recharge has been created: <https://twitter.com/IAHMARCom>

Twitting by cochairs, everyone invited to use this channel to announce your news on MAR.

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

<https://lists.flinders.edu.au/mailman/listinfo/iah-mar.listcgs> to stay informed on MAR issues.



The IAH-MAR Commission sister site, www.dina-mar.es, is operative again: www.tragsa.dinamar.es

Since 2020 May to now the former site dina-mar.es, to post news on MAR, generally in Spanish language, has been off and this month is operative again, catching up with news on MAR.

Notice the site has been modified from www.dina-mar.es to www.tragsa.dinamar.es; anyway the previous one will redirect during some months.

The most remarkable item is the [collection of more than 100 books on MAR to be downloaded freely](#), collection growing up since years ago. Contributions welcome.

There is also a IAH-MAR sister Linked-In group:
<https://www.linkedin.com/groups/4690290/>

And an associated Twitter account: [@4dina_mar](https://twitter.com/4dina_mar)

El proyecto de recarga gestionada del Grupo Tragsa vuelve a la carga en su etapa de difusión y transferencia tecnológica como "sister site" de la IAH MAR Commission. El viejo dominio Dina-mar.es redirigirá al nuevo: tragsa.dinamar.es hasta finales de 2021. Sean bienvenidas sus amables contribuciones a través del correo electrónico dinamar@tragsa.es



These communication channels are available for the whole MAR community:
dinamar@tragsa.es

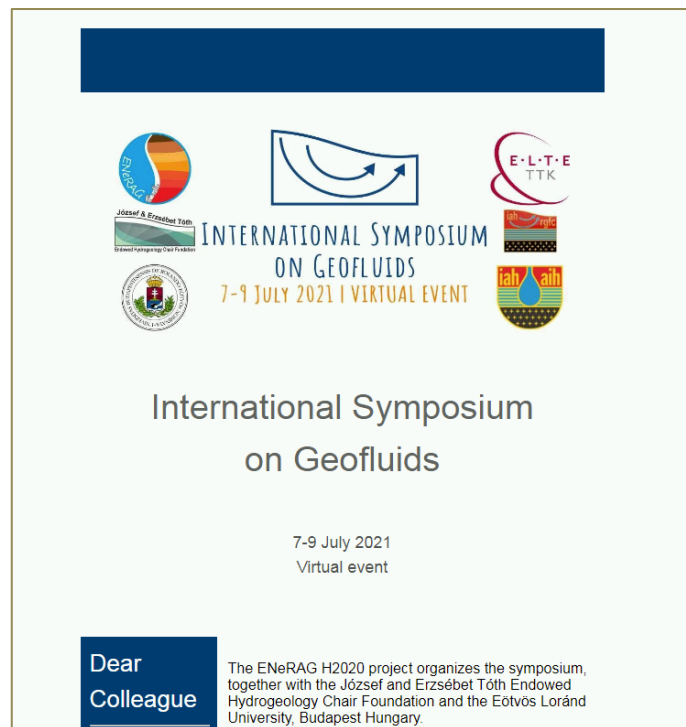
CONFERENCES WITH MAR SESSIONS. DEADLINE EXTENSIONS

**International Symposium on Geofluids, to be held on 7-9 July 2021.
 Deadline extended to **April 14th****

Main Topics and planned Sessions:

- Energy flow systems and related fluids in the lithosphere
- **Managed aquifer recharge and groundwater flow systems**
- Geoenergy, thermal water and hydrocarbon systems
- Natural contamination and hazards of geofluids
- Fluid–rock interactions and hydrogeochemical reactions

Abstract submissions (max. 2000 characters) will be accepted until **2021 April 14th**. More technical info on the requirements of the abstract can be found at:
<https://geofluids2021.hu/call-for-abstracts.php>



More info: <https://geofluids2021.hu/circular/2021-03-03.html>

47th IAH Congress- Brazil/Brasil 2021. Call for abstracts and booking. Deadline Extended! Prazo Prorrogado! Plazo Extendido!

Please notice that the organizers have extended the deadline until 2021 **April 15th**.



**47TH IAH
CONGRESS
BRAZIL 2021**

ONLINE | 09/21/2020 – 08/20/2021

HYBRID | AUGUST 22ND – 27TH, 2021

ESPAÇO ARCA - SÃO PAULO - BRAZIL



XV LATIN AMERICA
HYDROGEOLOGY
CONGRESS



XXI BRAZILIAN
GROUNDWATER
CONGRESS



XXII BRAZILIAN
MEETING OF
WELL DRILLERS



FENÁGUA 2021
NATIONAL WATER
TRADE SHOW

PRAZO PRORROGADO!

Entendendo as dificuldades que o momento nos traz, o prazo para submissão de trabalhos foi prorrogado para **15/04/2021**. Submeta o seu e faça parte do evento!

Tema Central: ÁGUAS SUBTERRÂNEAS 4.0: CONECTADA, VISÍVEL E ÉTICA

DEADLINE EXTENDED!

By understanding the difficulties that the moment brings, the deadline for abstract submission was extended to **04/15/2021**. Submit yours and be part of the event!

Main theme: GROUNDWATER 4.0: CONNECTED, VISIBLE AND ETHICAL

¡PLAZO EXTENDIDO!

Entendiendo las dificultades que nos trae el momento, se amplió el plazo de presentación de resúmenes hasta el **15/04/2021**. ¡Envíe el suyo y sea parte delevento!

Tema principal: AGUA SUBTERRÁNEA 4.0: CONECTADA, VISIBLE Y ÉTICA

ORGANIZATION:



SPONSOR:



iah2021brazil.org

More info: <https://iah2021brazil.org>.
#groundwater #aguassubterranea #aguassubterraneas

48th IAH Congress- Brussels. Call for abstracts, deadline extended! **April 21th**

New deadline to submit your abstract, April 21th.
Organizers have informed that the MAR session is having a very scarce participation.

We'd like to encourage the whole MAR family willing to attend the conference to **participate and save the session 8 on Managed Aquifer Recharge**.

iah2021belgium.org/programme/sessions-topics/



48th IAH Congress
BRUSSELS-BELGIUM 2021
Inspiring Groundwater

WELCOME **PROGRAMME** EVENTS ABSTRACTS REGISTRATION SPONSORSHIP VENUE & TRAVEL Q

8. Managed aquifer recharge – co-organized by the IAH MAR Commission
Session chairs: Enrique Fernandez Escalante, Catalin Stefan and Yan Zheng

Managed aquifer recharge or MAR in all its forms (i.e. infiltration ponds, injection with wells, river bank infiltration, etc.) covers the purposeful recharge of water to aquifers and its recovery when needed. The technique is applied for purposes as optimizing the use of groundwater reserves, increasing groundwater storage, preserving water demand in times of stress such as drought, improving the water quality or for environmental benefit. For this session we solicit contributions on different aspects of managed aquifer recharge such as the applicability of MAR to manage groundwater reserves, design considerations and tests, water quality issues, field studies, the interaction with existing groundwater systems, long-term effects and clogging issues, and economics of MAR.

More info: <https://iah2021belgium.org/programme/sessions-topics/>

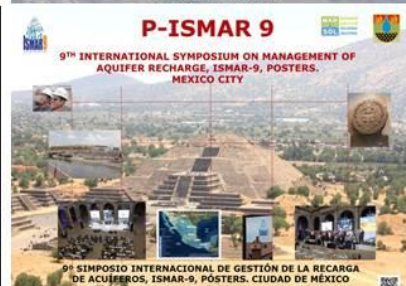
IAH-MAR commission website has included the results from the whole ISMAR conferences. P-ISMAR books have just been included too

IAH-MAR Commission cochairs have been gathering materials and information from all the International Symposium on Managed Aquifer Recharge, ISMARs (ten editions).

Most of these Symposia results are available in the IAH-MAR website. The P-ISMAR series has recently been included. They can also be downloaded directly from their repository in DINA-MAR website:

P-ISAR 4: <https://lnkd.in/eGJmFba> Unreviewed
P-ISMAR 5: <https://lnkd.in/eAX8DvP> Reviewed by pairs
P-ISMAR 6: <https://lnkd.in/eZAFjzH> Reviewed by pairs
P-ISMAR 7: https://lnkd.in/eG5Q_en Reviewed by pairs
P-ISMAR 8: <https://lnkd.in/edZ6WNS> Unreviewed
P-ISMAR 9: <https://lnkd.in/e2VAtKk> Unreviewed
P-ISMAR 10: <https://lnkd.in/eBNeZvF> Reviewed by pairs
Mirror site: <https://lnkd.in/ewV5zWP>

We do hope this collection will be useful for the community.

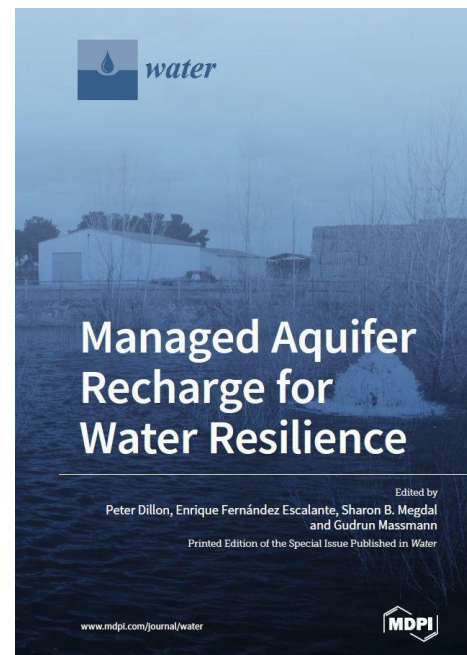


Comments welcome. ISMAR library: <https://recharge.iah.org/ismar>
More info: https://lnkd.in/e9n_wF8

Water Journal special issue. 23 papers have been gathered in a book. Already on line and printed version for sale!

The already announced book containing 23 papers selected from ISMAR 10 conference and published in open access is already on line and also in the MDPI book-shop.

There is 20% discount for all authors published papers in this special issue. If anyone orders over 20 copies, 10% additional discount will be applied.



More info, pdf of the book and purchase of the printed version:
<https://lnkd.in/dDiQSHG>

Managed aquifer recharge with various water sources for irrigation and domestic use. Book chapter written by Israel members

MARSoluT partner Daniel Kurtzman and the external expert Yossi Guttman published a book chapter on "Managed aquifer recharge with various water sources for irrigation and domestic use: a perspective of the Israeli experience" in Global Groundwater.

<https://www.sciencedirect.com/science/article/pii/B978012818172000044X?via%3Dihub>

View PDF

Access through Spanish License FECyT

Purchase PDF

Chapter contents

Book contents

Outline

Abstract

Keywords

44.1. Introduction

44.2. Managed aquifer recharge of ephemeral stream floo...

44.3. Managed aquifer recharge of groundwater and espe...





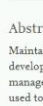
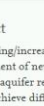
44.4. Managed aquifer recharge of secondary effluents in ...

44.5. Managed aquifer recharge of surplus desalinated se...

References

Show full outline

Figures (6)

Global Groundwater

Source, Scarcity, Sustainability, Security, and Solutions

2021, Pages 597-607

Chapter 44 - Managed aquifer recharge with various water sources for irrigation and domestic use: a perspective of the Israeli experience

Daniel Kurtzman¹, Joseph Guttman²

Show more

+ Add to Mendeley

Share

Cite

<https://doi.org/10.1016/B978-0-12-818172-0.00044-X>

Get rights and content

Abstract

Maintaining/increasing water supply often requires temporal overexploitation and development of new water sources. This chapter describes how various types of managed aquifer recharge within a national integrated water supply system is/has used to achieve different water supply objectives in Israel. We discuss conceptual and technical aspects of recharging carbonate and sandy aquifers through wells with a surface-water source. Advantages and limitations of well injections, water quality, and well design issues, are described. We explore the rational and experience in the use of sandy soils overlaying an aquifer for (1) soil aquifer treatment (SAT) and storage of secondary effluents for irrigation. Especially, the capability of the SAT to bring the effluents to high-quality water is demonstrated; (2) infiltration of ephemeral streams' floodwater and surplus desalinated seawater for storage and recovery of drinking water.

Some more MAR activity in Spain

Tragsa has reported new constructions supported by the Junta de Castilla y León and Confederación Hidrográfica del Duero en Arayayona, Salamanca, Spain.

The drainage from an irrigation area is diverted to a neighbor aquifer in which MAR takes place by means of a 500 m canal. The activity is finalizing the construction phase. Some more info will be submitted to ISMAR 11 !



Location: <https://www.google.es/maps/@41.0291389,-5.3322165,6573m/data=!3m1!1e3>

TIME FOR WEBINARS

IMMINENT! INOWAS international workshop on line. Evaluaci6n del impacto holístico de la regarga gestionada de acuíferos (MAR) en los servicios ecosistémicos (in Spanish)

2021 April 12th, 17 to 19 h CET. Brochure and program:



AGENDA DE TRABAJO

Hora	Sesión	12 April 2021
17:00 - 17:05	Bienvenida e introducción por el Dr. Catalin Stefan	
17:05 - 17:25	Presentación: El impacto de la Recarga Gestionada de Acuíferos en los servicios ecosistémicos por la Ing. Catalina Zapata	
17:25 - 17:30	Estructura del taller y moderación por la Dra. Serena Caucci	
17:30 - 18:00	Sesión de trabajo en grupos: Debate sobre la intersección entre el SAM y los servicios ecosistémicos	
18:00 - 18:45	Debate en sesión plenaria: Retroalimentación y comentarios	
18:45 - 18:55	Observaciones finales	
18:55 - 19:00	Clausura y actividades de seguimiento	

Booking:



<https://zoom.us/join/zoom/register/tJMkceqsrD8rGdSI56yFHA1bPdxYQbXpiTwP>

Thank you Dr. C. Stefan and team for reporting.

IMMINENT. MAYA Project, final workshop.

The final conference of the project Master in Agricultural and hYdrological Approaches to a better and sustainable development MAYA, co-funded by the

Erasmus+ program, will be this 2021 April 12th 09:30 h CEST. MAYA has a full WP on MAR.

Co-funded by the
Erasmus+ Programme
of the European Union

**Master in Agricultural and hYdrological Approaches
to a better and sustainable development**
MAYA 586170-EPP-1-2017-1-2017-1-IT-EPPKA2-CBHE-JP

12 April 2021 – Final Conference of the MAYA project
Scientific cooperation in the Mediterranean region

Starting at 8:30 CET TIME (Tunis)
Starting at 9:30 CEST TIME (Rome, Girona)
Starting at 10:30 EEST TIME (Thessaloniki)
On-line event <https://zoom.us/j/94447805585>



8.30-8.40 CET TIME waiting room <https://zoom.us/j/94447805585>






- **8.40-8.45** Welcome, Luciano Gutierrez, MAYA Coordinator, **University of Sassari**
- **8.45-8.50** Welcome and final impact of the project funded by Erasmus, Nesrine Baldouti, coordinator of the **National Erasmus+ Office of Tunisia**
- **8.50-9.00** Welcome message and 21 years experience in cooperation & development **NRD-UNISS**, Quirico Migheli, Director of **Desertification Research Center-University of Sassari**
- **9.00-9.05** Improving water productivity under water scarce conditions, Abdourahman Maki, Land and Water Officer at **Food and Agriculture Organization, FAO Tunisia**
- **9.05-9.10** Building blocs for Water productivity Master programme in Tunisia, Hamadi Habaieb, Prof. at **INAT** and General Director, **Bureau of Water Planning and Hydraulic Equilibriums (BPEH) Tunisia**.
- **9.10-9.20** MENAWARA ENICBMED. Education, cooperation and advanced research. **CIHEAM Iamb-Bari**, Roula Khadra, Scientific Administrator and Water Resources Management Expert of **CIHEAM Iamb-Bari** and Head of **Arab Water Council**
- **9.20-9.30** MAYA's results, Luciano Gutierrez and Matteo Funaro, **University of Sassari**
- **9.30-9.45** Opportunity and expected impact from the MAYA Master at the University of Carthage, Nadia Mzoughi and Yadh Zehar, **University of Carthage**
- **9.45-10.00** Opportunity and expected impact from the MAYA Master at the University of Tunis El Manar, B. Hamrouni, **University of Tunis El Manar**
- **10.00-10.15** Opportunity and expected impact from the MAYA Master at the University of Sfax, Radhouane Gdoura, **University of Sfax**
- **10.15-10.30** Observation, consideration and willingness from the Master students, 3 MAYA Master Students
- **10.30-10.45** Open discussion

10.45-11.00 Coffee Break

- **11.00-11.15** Higher Education in North Africa: South-North and South-South Perspective, Marcello Scalisi, Director **UNIMED**
- **11.15-11.30** Future project prospects emerging from MAYA collaboration, Jaume Pinsach and Gerard Arbat, **University of Girona**
- **11.30-11.45** Future project prospects emerging from MAYA collaboration, Kostadinos Mattas, **University of Thessaloniki**
- **11.45-12.30** Open discussion

12.30 END OF CONFERENCE








More info: <https://www.maya-project.eu/mod/forum/discuss.php?d=99>

Thank you Dr. Matteo Funaro for reporting.

Webinar on Managed Aquifer Recharge, but then for heating or cooling :) April 16th, 16 h CET.

"Groundwater's role in Sustainable Heating and Cooling" organized by The Netherlands Chapter of the IAH - International Association of Hydrogeologists. The application of hydrogeological expertise in support of the energy transition is still a relatively new, and certainly a "hot" topic for years to come.





Friday 16 April 2021, 16:00-17:00 (CET)

A webinar by the Netherlands IAH Chapter

"Groundwater's Role in Sustainable Heating and Cooling"

Program:

- 16:00-16:10: Opening & Pieter Stuyfzand Scriptie Prijs 2020
- 16.10-16.25: **Rogier Duijff**
Interaction between multiple ATES systems: Analysis of thermal and geohydrologic performance
- 16.25-16:40: **Stijn Beernink**
Impact of storage conditions on High Temperature-ATES performance
- 16:40-16:55: **Esmée de Bruijn**
Quantifying the contribution of heat recharge from confining layers to geothermal resources
- 16:55-17:00: Wrap-up & Closing

https://www.linkedin.com/posts/nielshartog_im-delighted-to-announce-a-webinar-on-groundwaters-activity-6785665733666885632-BVN9

Thank you Dr. Niels Hartog for reporting.

Results from the webinar Managing Aquifer Recharge: A Showcase for Resilience and Sustainability. PPT and VIDEORECORD

World Water Day Special Webinar

Managing Aquifer Recharge: A Showcase for Resilience and Sustainability



Superstition Mountains Recharge Project (Credit: Central Arizona Project)

World Water Day Special Webinar - Managing Aquifer Recharge: A Showcase for Resilience and Sustainability

LOCATION:
Webinar

SPEAKER(S):
Multiple Panelists, (see below)

DATE:
Mar 22 - 3:30pm to 5:00pm MST

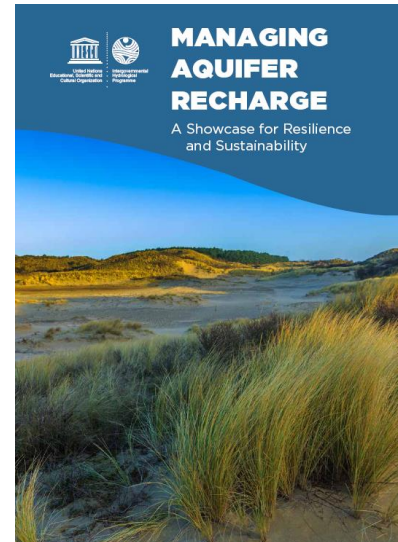
Mar 22 -
3:30pm
MST

SPECIAL EVENT

More info, PPT and video: <https://wrrc.arizona.edu/world-water-day-special-webinar>

Thank you Dr. Sharon Megdal for reporting.

During the webinar was announced the imminent release of the **UNESCO-IHP-GRIPP book: MAR**. A show case for Resilience and Sustainability on 28 international MAR case-studies.



I Congreso Nacional de Seguridad Hídrica Guatemala, including a session on water security and MAR (in Spanish). Results

The conference took place between 22th to 25th March 2021.

The whole presentations of the 4-day conference have been merged in a single pdf file. Download: <https://lnkd.in/ehFtJh5>



More info: <https://lnkd.in/eiiA3En> - www.elaguanosune.com.gt

Funcagua Guatemala organizes a series of conferences on Aquifer Recharge (in Spanish)

Stay tuned for personalized zoom links in the website www.funcagua.org.gt


HABLEMOS DEL AGUA
 ABRIL: RECARGA HÍDRICA




ABRIL
 2021


Jueves 4:00 p.m.	8	¿Por qué y para qué hacer recarga hídrica? Ing. Martín Méndez Experto en Manejo del Recurso Hídrico Dra. María José Iturbide Directora Ejecutiva FUNCAGUA
Jueves 4:00 p.m.	15	Recarga hídrica gestionada en Latinoamérica Dr. José Bonilla Technische Universität Dresden
Jueves 4:00 p.m.	22	Primera Ciudad Esponja de Centroamérica Leyla Zelaya Alegria El Salvador
Jueves 4:00 p.m.	29	Lecciones aprendidas en Guatemala sobre recarga hídrica Ing. Jorge García Chiu


www.funcagua.org.gt



Thanks Dr. J. Bonilla for reporting

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

The selected drop has been a presentation from 2012: Managed Aquifer Recharge Managed Aquifer Recharge. Regional Overview and Recent Developments. October 2012. Ralf Klingbeil.

UNITED NATIONS
 Economic and Social Commission for Western Asia


Managed Aquifer Recharge - MAR:
Regional Overview and Recent Developments
October 2012
Ralf Klingbeil
Regional Advisor Environment & Water

http://www.fao.org/fileadmin/user_upload/groundwatergovernance/docs/Amman/Presentations/PS5_Ralf_Klingbeil.pdf

Our gratitude wherever you are, Mr. Klingbeil (†). Be well...

And that's all by now... please, keep reporting (dinamar@tragsa.es), if you do not share your pieces of news, we cannot share most of them...

Thank you very much for your kind attention

Best regards

Dr. Enrique Fernández Escalante of behalf of the IAH MAR Commission co-chairs.



Please, remember you can participate in the IAH MAR Commission Forum:
<https://lists.flinders.edu.au/mailman/listinfo/iah-mar.listcgs>

<http://www.iah.org/recharge/>

Sister sites:

<http://tragsa.dinamar.es> (on line again)

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

