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PRELIMINARY IAH 2023 CONGRESS PROGRAMME - 18 to 22 SEPTEMBER 2023

MONDAY 18 September 2023		
08:00 – 17:00	Field Excursions	
TUESDAY 19 Se	TUESDAY 19 September 2023	
Venue 1	Opening Session	
	K Pietersen, Programme Director	
09:00-09h15	M Dippenaar/J Conrad, IAH Local Organising Committee: Welcome and	
	Introduction to IAH 50	
09:15-09:30	D Kreamer, IAH President: Opening address	
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09:30-09:45	Z Badroodien , Mayoral Committee Member for Water, City of Cape Town,	
	Welcome to Cape Town	
09:45-10:00	Honourable S Mchunu, Minister of Water and Sanitation: Official	
	Opening of the IAH Conference	
10:00-10:15	Cultural/Music Item	
10:15-10:45	Keynote: W Timms, Deakin University Australia: Top tools for data-driven	
	geology and groundwater studies	
10:45-11:15	Keynote: S Kebede Gurmessa, University of KwaZulu Natal and IAH Vice	
	President for Sub-Saharan Africa: Highlights on the hydrogeology of	
	African dryland environments.	
11:15-11:45	COMFORT BREAK	
Venue 1	The connectedness of groundwater and planetary sciences	
11:45-12:00	86 D Hohne., <u>S Esterhuyse</u> : A conceptual model for methane occurrences	
	in the Western Karoo as part of a geochemical baseline for shale gas	
	development.	
12:00-12:15	166 <u>L Ojeda</u> ., Iñaki Vadillo., Pablo Jiménez-Gavilán., José Benavente.,	
	Antonio Fermín Castro-Gámez: Platinum-Group-Elements and Total	
	Organic Carbon in hyper alkaline springs at the Ronda peridotites	
	(Malaga, Spain) as proxies of the origin of dissolved methane gas.	

groundwater of the Namibian Uranium Province, Namib Desert, western Namibia 12:30-12:45 185 YXie., C Wang: Groundwater flow paths dictate terrestrial carbon inputs into a groundwater-dominated stream. 12:45-13:00 272 H Mbah: Protecting Groundwater Resources in an Era of Geological Carbon Sequestration: A Fractional Stochastic Model To Predict Pressure Buildup Due to CO ₂ Injection into a Saline Aquifer. 13:00 – 14:15 1UNCH Venue 1 The connectedness of groundwater and planetary sciences 14:15-14:30 27 A Allwright., F de Lange., R Lubbe., L Mbonambi., K Vivier., K Witthuser., S Webb., L Ashwal., F Roelofse., D. Khoza., R Trumbull: Research-based exploration of deep groundwater within the eastern limb of the Bushveld Complex 14:30-14:45 195 L Towers., D Blake., D McGibbon: Groundwater resources of the Danakil Depression – hydrogeology in the hottest place on Earth. 14:45-15:00 237 S Barbieri: New challenges for low-enthalpy geothermal resource management at the urban scale 15:00-15:15 287 S Meekes: Monitoring a deep fresh-saline water interface using repeat Vertical Electrical Soundings measurements 15:15-15:30 326 E Kayukova: Peculiarities of the chemical composition of the Ordovician aquifer as a source of potable water supply (St. Petersburg, Russia) 15:30-16:00 COMFORT BREAK Venue 1 The connectedness of groundwater and planetary sciences 16:00-16:15 334 R Aissat., A Pryet., M Saltel., A Dupuy: Comparison of different pilot point parameterization strategies when measurements are unevenly distributed in space 16:15-16:30 242 Z Gaffoor., K Pietersen: The impacts of climate change on groundwater in South Africa 16:30-16:45 356 M Demlie., S Rajpal., N Govendor., D Naidoo: Investigation of Seawater Intrusion due to Group-Well-Pumping of a local coastal aquifer in Durban, South Africa. 16:45-17:00 35 A David., T Abiye: Assessment of groundwater potential of the Kalahari aquifers in Kavango East and West regions, Namibia	12:15-12:30	259 <u>E Gustavo</u> ., A Bittner: <i>Baseline concentrations of radionuclides in</i>
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15:30-16:00 COMFORT BREAK Venue 1 The connectedness of groundwater and planetary sciences 16:00-16:15 334 R Aissat., A Pryet., M Saltel., A Dupuy: Comparison of different pilot point parameterization strategies when measurements are unevenly distributed in space 16:15-16:30 242 Z Gaffoor., K Pietersen: The impacts of climate change on groundwater in South Africa 16:30-16:45 356 M Demlie., S Rajpal., N Govendor., D Naidoo: Investigation of Seawater Intrusion due to Group-Well-Pumping of a local coastal aquifer in Durban, South Africa. 16:45-17:00 35 A David., T Abiye: Assessment of groundwater potential of the Kalahari aquifers in Kavango East and West regions, Namibia	15:15-15:30	326 E Kayukova: Peculiarities of the chemical composition of the
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mixing and vulnerability
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African water resources to emerging organic contaminants: a case study
of the Witwatersrand Goldfields, Eastern Basin
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karst-fractured carbonate aquifers: insights from the KARMA EU project
for the groundwater resource management of Gran Sasso (Central Italy)
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identification of recharge or discharge using remote sensing and GIS:
Implications towards groundwater-surface water interactions
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actual groundwater recharge: Insights and implications to groundwater
use.
15:00-15:15 88 <u>P Finini</u> ., Thokozani Kanyerere, Dominic Mazvimavi: <i>Assessing the</i>
hydrogeology of springs, Heuningnes catchment South Africa
15:15-15:30 373 V Banda., <u>T Kanyerere</u> ., H Mengistu: <i>Assessment of catchment scale</i>
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16:15-16:30 399 M Zarate How alluvial storage controls surface water – groundwater
interactions in dryland intermittent and ephemeral streams: A case study
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16:30-16:45	179 A Bissoon, E Haricombe: Literature review on methodologies used to
	assess surface water and groundwater interaction
16:45-17:00	113 N Hartog., Jan van Lopik: Evaluation of the conditions that impact the
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	leakage from wells into fresh groundwater aquifers
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	drylands under different agricultural systems
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	identify trends in aquatic pesticide pollution in the Western Cape, South
	Africa.
12:15-12:30	314 F Beetle-Moorcroft : Per and Polyfluoroalkyl Substances (PFAS)
	Groundwater Toolkit
12:30-12:45	381 <u>S Stevenazzi</u> ., L Massaro., D Ducci: <i>Spatial distribution and temporal</i>
	variation of groundwater physicochemical features in coastal aquifers
	(Campania Region - Southern Italy)
12:45-13:00	76 M Etuk., <u>V Re</u> ., <i>S Viaroli., I Ogbonnaya: Nitrate vulnerability assessment</i>
	in the fast-growing African district of Abuja Federal Capital Territory
	(Nigeria)
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14:15-14:30	249 <u>J Podgorski</u> ., O Kracht., L Araguas-Araguas., J Miller., R Straub., R
	Kipfer., M Berg: Assessing aquifer vulnerability using tritium and machine
	learning in Africa's western Sahel
14:30-14:45	299 M Berg., D Araya., J Podgorski: Machine learning spatial prediction
	modelling of groundwater salinity in the Horn of Africa
14:45-15:00	56 N Igwebuike ., S Clarke., T Kanyerere: Application of machine learning
	techniques to improve groundwater level predictions and optimization,
	West Coast, South Africa
15:00-15:15	45 B <u>Hunink</u> ., R Chow., T Wöhling: <i>Delineating wellhead protection areas</i>
	and aquifer vulnerability in the Cape Flats, South Africa
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	Fernández., P Lara-Martín., I Vadillo A., <u>L Ojeda</u> : <i>A mixing analysis to</i>
	explore the distribution and behaviour of contaminants of emerging
	concern and regulated organic pollutants in the hydrogeological media.
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	(Southern Spain)

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	Blaschke., G Blösch., M Stevenson: Upscaling Preferential Flow in
	Heterogeneous Porous Media from the Laboratory to the Field
16:15-16:30	<u>N Vermaak</u> ., S Fourie., S Esterhuyse., D Hohne: <i>Recharge under review:</i>
	implications for Water Resources Management
16:30-16:45	213 <u>L Landi.</u> , M Rotiroti., M Filippini: <i>Unfolding the spatial heterogeneity</i>
	of the natural background level of arsenic in groundwater at the
	mesoscale using data from sites under remediation
16:45-17:00	115 <u>A David</u> ., T Abiye: Estimation of groundwater recharge in the Kalahari
	aquifers of Kavango West and East Regions using the chloride mass
	balance method and environmental isotopes, Namibia
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TUESDAY Venue 4	19 September 2023 Critical zone sciences – a multidisciplinary, cross-scale science
	Critical zone sciences – a multidisciplinary, cross-scale science 33 <u>C Chamathong</u> ., T Nettasana., M Hengsuwan., P Kullaboot., J Park., K
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Venue 4	Critical zone sciences – a multidisciplinary, cross-scale science 33 <u>C Chamathong</u> ., T Nettasana., M Hengsuwan., P Kullaboot., J Park., K Kim: Application of Nanofiltration Membrane for Removal of VOCs and
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Venue 4 11:45-12:00	Critical zone sciences – a multidisciplinary, cross-scale science 33 <u>C Chamathong</u> ., T Nettasana., M Hengsuwan., P Kullaboot., J Park., K Kim: Application of Nanofiltration Membrane for Removal of VOCs and Heavy Metals in Groundwater, Ratchaburi, Thailand 374 <u>J Loock</u> : Maximising groundwater value through innovation &
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14:15-14:30	6 <u>L Boumaiza</u> ., J Walter., R Chesnaux., F Zahi., F Huneau., É Garel., R
	Stotler., G Bordeleau., K Johannesson., Y Vystavna., T Drias., V Re., K
	Knöller., C Stumpp: Combined effects of seawater intrusion and nitrate
	contamination on groundwater quality in the coastal agricultural area of
	El-Nil River, Algeria.
14:30-14:45	134 <u>S Santoni</u> ., E Garel., M Gillon., M Babic., Jorge Spangenberg., B
	Bomou., D Sebag., T Adatte., R van Geldern., V Pasqualini., F Huneau:
	Isotope geochemistry disentangles interactions between water and carbon
	cycle in Mediterranean peatland.
14:45-15:00	141 M Rojo., A Nogales., C Hurtado., Z Vargas: Potential land use changes
	and wildfires effects over the spatiotemporal distribution of groundwater
	recharge at a regional scale: RAPReHS indicator accounting for SDG-13 in
	Bolivia
15:00-15:15	262 M Menichini., M Burlando., L Franceschi., A Berton., L Costanza., S
	Trifirò., L Foresi., R Giannecchini., M Doveri: Hydrological processes and
	evolution in the critical zone of a small island: the case of Pianosa Island in
	the Tuscan Archipelago
15:15-15:30	226 P Labuschagne., M Lenahan: Mine pit backfilling: opportunities for
	West African Mine Projects
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	for drinking water supply in England: results of this first systematic study
	and overview of methodological development
16:15-16:30	377 Okutan., Sağır., Pekkan., Turkulus., Razack., <u>Le Coustumer, P</u> : First
	results on the transport of polydisperse polyethene microplastics in
	saturated porous media
16:30-16:45	25 K Novakowski., L Egan: Heat and Solute Tracer Experiments in a
	Discrete Crystalline Rock Fracture
16:45-17:00	297 <u>K Riemann</u> : D Blake: Water Quality of Cape Town Aquifers – The
	WWQA African Use Case
17:00–18:00	Commission/Network Meeting
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44 45 40 00	Convenors: UNESCO/IAH
11:45-13:00	PROGRAMME TBC
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Manua F	
Venue 5	Special session: Transformational development of groundwater
	resources: Towards adaptation and resilience
	Session Sponsor and Convenor and Sponsor: Water Research
	Commission (WRC)
14:15-15:30	PROGRAMME TBC
15:30-16:00	COMFORT BREAK
Venue 5	Special session: IAH UN-Engagement Working Group
	Convenors: IAH
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	sensing data be used to accurately downscale groundwater storage
	estimates?
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	storage changes under droughts in The Western Cape using GRACE data
09:00-09:15	436 <u>T Solovey</u> ., J Śliwińska., A Brzezińska., M Przychodzka: <i>Validation of</i>
	algorithms for estimating changes in groundwater storage from GRACE
	gravity satellite data for Poland
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	and climate change: the application of RCMs to assess long-term effects of
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	intelligence techniques to support groundwater management in Southern
	Africa
09:45-10:00	419 A Kovacks: A combined stochastic-analytical method for the
	assessment of climate change impact on spring discharge
10:00-10:15	233 <u>N Vinograd</u> ., A Potapov., Y Mohamed: Formation of the groundwater
	chemical composition in the Quaternary aquifer of the coastal valley
	(North Sinai, Egypt)
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	Baptista: Developing and testing a Groundwater Mapping methodology to
	increase drilling success rates for sustainable drinking water boreholes in
	African Arid and Semi-Arid Lands – the case study of Cunene Province,
	Angola
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	from complexity: multi-stakeholder water resources management in the island of Santa Cruz, Galápagos (Ecuador)
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	socio-environmental impacts of sand mining in Southern Africa
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	groundwater and geodata supports the green transition and the spatial
	planning of competing subsurface uses
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	development and management – 20 years of Hermanus wellfields
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	Rouault., A Michel: A Case Study on Capacity Development in Rural
	Groundwater Supply in Acholiland, Northern Uganda
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Venue 2	Catchment scale integrated surface water and groundwater studies
16:00-16:15	390 A Ross: Risks related to groundwater resources in the Murray-Darling
	Basin Australia
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	Dynamic groundwater modelling of Lake Sibaya
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	Mountain Dams Trail and Hermanus Water Walk (Western Cape, South
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	Mogalakwena Subcatchment, Limpopo Province: Implication for
	Sustainability of Groundwater Supply
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	African aquifers in potential yield and transmissivity estimations
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	Storage versus Unidirectional Ground Source Heat Pumps using
	Groundwater Flow and Heat Transport Modelling
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	Groundwater Heat Pumps diffusion in Italian urban areas: modelling for
	the hydrogeological constraints definition
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	improve conceptual understanding and abstraction yields in a complex
	fractured aquifer: Steenbras Wellfield (Western Cape, South Africa)
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	Western Cape, South Africa
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	assessment using fibre optic active distributed temperature sensing
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	central region of the State of São Paulo (Brazil)
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	Gee., M Kynaston., J Comte: Multi-scale investigation of thermal and
	hydraulic properties of the Sherwood Sandstone aquifer for Low Enthalpy
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	and heavy metal contamination in the groundwater around an abandoned
	Copper Mine area in Klein Aub, Namibia
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	Verreydt: Real-time iFLUX sensors reveal rapidly changing groundwater
	flow dynamics in wetland ecosystems.
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	framework for shallow groundwater systems in the low-relief, water-
	limited Canadian Boreal Plains
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	of High-Quality Groundwater Containing Metasilicate in Zhaojue County,
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15:30-16:00	Southwest China COMFORT BREAK
Venue 3	COMFORT BREAK Scale aspects of groundwater flow and transport systems
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Venue 3 16:00-16:15	COMFORT BREAK Scale aspects of groundwater flow and transport systems 148 S Stevenazzi., V Konstantinos., D Daniela: Application of multivariate statistical analysis as a support for the delineation of groundwater bodies: a case study in coastal plain areas of Campania Region (Southern Italy)
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Venue 4	Critical zone sciences – a multidisciplinary, cross-scale science
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	Cape, South Africa)
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	Modeling the Impact of Groundwater Pumping on Karst Geotechnical Risks
	in Sete Lagoas (MG), Brazil
09:00-09:15	11 A Kuczyńska: Sampling procedures for PFAS and pharmaceuticals —
	recommendations vs reality
09:15-09:30	189 E Egidio., D De Luca., M Lasagna: How groundwater temperature is
	affected by climate change: a systematic review and meta-analysis
09:30-09:45	121 N Van Putte., P Meire., P Seuntjens., G Verreydt., S Temmerman:
	Improving groundwater dynamics: a key factor for successful tidal marsh
	restoration.
09:45-10:00	193 D Lookin., <u>C Varnier</u> ., F Barreto., R Bertolo., R Hirata:
	Hydrogeochemical and temporal nitrate variation in an unconfined urban
	aquifer in a tropical area in Brazil
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	calibration of tools for preliminary quantification of the Hydrogeological
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	and unsaturated groundwater models to represent the effect of intensive
	anthropogenic activities at the regional scale
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	regulation
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16:15-16:30	99 K Pietersen., <u>J Strömgren</u> ., M Storie., L Nzeyimana., L Itimu., T Lilja:
	Understanding informal institutions' role in groundwater management –
	Lessons from borderland communities
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	from Elementary to Continuing Education
16:45-17:00	239 E Cut., K Ni'matul., B Leimona., R Anggraeni., <u>N Dorfliger</u> : How
	collective groundwater resource management solutions can be benefit for
	the water governance at various levels? An example in a volcanic
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Venue 5	Special Session: Advancing the knowledge of strategic aquifers in SADC
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Venue 5	Special Session: Advancing the knowledge of strategic aquifers in SADC Session Sponsor and Convenor SADC-GMI PROGRAMME TBC 238 J Verkaik., J van Engelen., <u>G Nijsten</u> ., M Bierkens., G Essink: Assessing
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Venue 5 14:00-15:30 15:30-16:00 Venue 5 16:00-17:00 THURSDAY Venue 1 08:30-08:45	Special Session: Advancing the knowledge of strategic aquifers in SADC Session Sponsor and Convenor SADC-GMI PROGRAMME TBC 238 J Verkaik., J van Engelen., G Nijsten., M Bierkens., G Essink: Assessing groundwater fluxes of transboundary aquifers, using a high-resolution global groundwater model and implications on transboundary cooperation COMFORT BREAK Special Session: Sustaining Local-scale Resilient Hubs Using Groundwater Session Sponsor and Convenor SADC-GMI PROGRAMME TBC 21 September 2023 Local-scale, pore-scale, and discrete scale 286 M Gomo: Experience with the electrical potential difference-audio magnetotelluric (EPD-AMT) Groundwater Detector geophysical groundwater exploration 305 Z Rademan: Robust Hydrogeological Conceptual Models Through

vadose zone - Local-scale, Pore-scale, and Discrete Scale 165 W Timms: Micro pore-pressure sensor (MEMs) and analysis technologies – towards a future of multi-scale groundwater monitoring 274 A Gargini., E Pugliese., M Filippini., G Bolognesi., C Giuliani: Tracing an arenitic aquifer by DNA-labelled nano particles 10:00-10:15 8 Y van Wyk: Combined Use of Environmental and Artificial Tracers to Characterise the Vadose Zone 10:15-10:30 431 M Touchahi., S Blanks., P Tadich., W Timms: MEMS Technology for Groundwater Monitoring 10:30-11:00 COMFORT BREAK Venue 1 KEYNOTE PRESENTATIONS 11:00-11:30 TBC 11:30-12:00 187 V Matta: Making Groundwater a National Priority 12:00-12:30 41 G Kode: Sustainable establishment of localised groundwater supply systems at critical infrastructure for disaster preparedness 12:30-13:00 M Killick: Cape Town Water Strategy 13:00-14:00 LUNCH Venue 1 Improving shared sustainable use of groundwater resources that cross two or more jurisdictional borders 14:00-14:15 435 T Solovey, R Janica., V Harasymchuk., H Medvid., L Yanush., M Przychodzka: Transboundary groundwater flows between Poland and Ukraine: The role of joint assessments and international frameworks on water resources management 14:15-14:30 28 Flem., L Stalsberg., P Gundersen: Harmonized groundwater data in International River Basins under the Water Framework Directive (2000/60/EC) – Challenges 14:30-14:45 36 M Hunt., D Borozdins., A Marandi: Basin Water Balance modelling with the aim to make transboundary groundwater flow visible 14:45-15:00 48 P Tungkidwanichakul: Water allocation and economic analysis for developing groundwater resources 15:00-15:15 181 H Wazaz., A Micallef., C Bertoni., M Giustiniani., K Schwalenberg., A Thomas., E-Jordan., W Hong., D Chiacchieri. OFF-SOURCE: A network to address the potential use of offshore freshened groundwater as an unconventional source of potable water in coastal cities. 15:15-15:30 230 D MacDonald: Continental-scale mapping of groundwater yield from basement aquifers in Af	09:15-09:30	360 M Dippenaar: The complexity and importance of the intermediate
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		Fourie., A Magingi: Groundwater Dependent Ecosystems or wetland
		dependent groundwater systems: A case study
10:30-11:00 COMFORT BREAK	10:30-11:00	COMFORT BREAK

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14:00-14:15	418 <u>A Elçi</u> ., C Meisina., C Guardiola-Albert., R Tomas., P Teatini., J Valdés-
	Abellán., K Shatanawi., T Letterio., A Hakan Ören: Groundwater Flow
	Modeling for Investigation of Exploitation Induced Land Subsidence
14:15-14:30	312 <u>L Alberti</u> ., P Mazzon., P Colombo: <i>Winter irrigation as climate change</i>
	adaptation strategy in northern Italy
14:30-14:45	186 <u>A Fadillah</u> ., N Dörfliger., B Baud., H Hendrayana., P Lachassagne., H
	Wibowo., A Muhammad., A Harijoko., A Putra: Improved hydrogeological
	conceptual model through additional ert profiles in medial-distal facies of
	andesitic volcanic area: Case study of Pandaan, East Java, Indonesia.
14:45-15:00	338 <u>R Aissat</u> ., G Picot-Colbeaux., C Herivaux., M Parmentier., A Manlay., P
	Audigane., J Vergnes., F Mathurin., J Mossmann: Exploring the Role of
	Land Use evolution in Groundwater Modeling for Sustainable
	Management: A Case Study of the Lille Metropolitan Area
15:15-15:30	248 <u>G Mohale</u> : Integrated Modeling to Simulate Groundwater and Surface
	Water Interaction in the Letaba River Catchment, Limpopo Province, South
	Africa
15:30-16:00	COMFORT BREAK
Venue 2	Catchment scale integrated surface water and groundwater studies.
16:00-16:15	267 <u>D Hendriks</u> ., S Vermooten., M Sànchez., N Mulder., D Irato., L
	Hüsken., B Verastegui., M van Aalst: Combining global and local models
	and data for sector-specific water scarcity risk assessments for mega-cities
16:15-16:30	350 <u>G Picot-Colbeaux</u> ., N Devau., A Manlay., V Debois., P Goderniaux., L
	Jehanno., B Meire: Characterization of groundwater dynamics to identify
	the risks of flooding of the sewerage network of the urban communities of
	Lens-Liévin (northern France).
16:30-16:45	430 <u>S Musy</u> ., C Friederike., N Teresa., T Yama., S Yuji., S: Oliver <i>Water</i>
	resource management in tectonically active volcanic regions: towards an
	in-depth understanding of Mt. Fuji's hydrogeology
16:45-17:00	266 <u>M Doveri</u> ., I Baneschi., L Franceschi., M Menichini., A Vergnano., F
	Pace., G Romano., A Godio., A Santilano., L Capozzoli: Hydrological
	processes in the Arctic catchment of Bayelva River (Western Svalbard-
	Norway)
17:00–18:00	Commission/Network Meeting
Venue 2	W&C Europe Region

THURSDAY	21 September 2023
Venue 3	GEOROC Session
	Scale aspects of groundwater flow and transport systems
08:30-08:45	79 A Dassargues : Groundwater porosities and effective porosities:
	definitions, physical relevance, and scale issues
08:45-09:00	3 Y Lévesque., J Walter., R Chesnaux: Geophysics-estimated groundwater
	levels to assess the accuracy of a numerical flow model
09:00-09:15	17 V Hunyek., J Phetheet., J Yanawongsa., O Occarach: Integrated
	assessment of groundwater potential zones for deep groundwater
	exploration in hard rock aquifers using GIS and geophysical techniques: A
	case study of Huai Krachao, Kanchanaburi, western Thailand
09:15-09:30	97 Y Adeotan., M Koita., J Vouillamoz., F Lawson: Determination of the
	best hydrogeological target for improving the success rate and
	productivity of boreholes in basement rocks.
09:30-09:45	178 <u>D Sarma</u> ., G Symons: <i>Role of regional scale dykes in the flow of</i>
	groundwater in the Otavi Mountainland karst aquifers
09:45-10:00	23 Y Li: Groundwater circulation and hydrogeochemical evolution in the
	coastal zone of Xiamen, southeast China
10:00-10:15	55 E <u>Kaminsky</u> ., C Englisch., C Griebler., C Steiner., G Götzl., C Stumpp: <i>The</i>
	impact of groundwater temperature on water quality in the urban aquifer
	of the city of Vienna
10:15-10:30	73 M Sinreich: Multiple-tool approach of combining microbial markers
	with artificial and natural tracers to specify the origin of faecal
	contamination on karst groundwater catchment scale
10:30-11:00	COMFORT BREAK
Venue 3	Scale aspects of groundwater flow and transport systems
14:00-14:15	80 A Dassargues., P Orban: Thermal energy storage in old flooded mines:
	how to tackle the hydrogeological issues
14:15-14:30	492 A Johnson., S Rziki: Mine dewatering case study at a gold mine in
	Mandiana Region, Eastern Guinea.
14:30-14:45	411 <u>S Mahlangu</u> : Hydrogeological Conceptual Model of Kinsevere Mine
14:45-15:00	137 H Levanon., <u>A Burg</u> ., I Gavrieli., Y Rosenberg.,. R Gersman., Y Bartov., Y
	Livshitz., A Starinsky., I Reznik: <i>Paleo-hydrogeological reconstruction of a</i>
	complex deep groundwater system in a tectonically active region
15:00-15:15	434 <u>C Villarreyes</u> : A methodology for uncertainty quantification of
. .	dewatering volumes under the context of open-cast mining
15:15-15:30	316 <u>J Gunnink</u> , S Meekes: Electromagnetic measurements in the
	Netherlands using an All Terrain Vehicle to rapidly characterize
	groundwater salinity and clay distribution in 3D
15:30-16:00	COMFORT BREAK

Venue 3	Scale aspects of groundwater flow and transport systems
16:00-16:15	151 S Van den Broeck., S Six: Balancing qualitative and quantitative issues
	of the groundwater extraction at the drinking water production site of
	Velm (Central Belgium)
16:15-16:30	191 <u>D Di Curzio</u> ., C Ottosen., G Lemaire., M Laureni., P Bjerg., D
	Weissbrodt., M Broholm., B van Breukelen: Integrating reductive
	dehalogenase enzyme production into reactive transport modelling to
	simulate chloroethene biodegradation in groundwater pollution plumes
16:30-16:45	180 V Dall' Alba., S Lanini., Y Caballero., P Renard: The Roussillon coastal
	aquifer: using multiple-point statistics aSarrisnd multi-model ensemble to
	characterize geological uncertainty impact on water resources estimation.
16:45-17:00	182 <u>J Labbe</u> ., H Celle., P Nevers., V Klaba., J Devidal., M Clauzet., G
	Mailhot: Alluvial aquifer modelling with MODFLOW in a case of a wellfield
	in a climate change context (Clermont-Ferrand, France).
17:00-18:00	Commission/Network Meeting
Venue 3	Socio-Hydrogeology Network

THURSDAY	21 September 2023
Venue 4	Special Session: Managed Aquifer Recharge
	Session Sponsor: GEOSS
	D Benedicto van Dalen., K Pietersen Chairperson
08:30-08:45	169 <u>D Hohne</u> ., N Vermaak., F Fourie., S Esterhuyse: <i>Mitigating climate</i>
	change with managed aquifer recharge: 5 Case Studies
08:45-09:00	120 J Stromgren., N Kellgren., P Johansson., K Gaboiphiwe: Managed
	Aquifer Recharge as a strategy for increased water supply security in
	Eastern Botswana
09:00-09:15	261 <u>H van den Berg</u> ., A Al-Maktoumi., S de Silva., L Mammeri., M
	Scharnke., K Radmann., A Al-Dhahli: Aquifer storage and recovery (ASR)
	applications to enhance drinking water supply security in the Sultanate of
	Oman
09:15-09:30	112 N Hartog., G Schout., Thomas Sweijen: The impact of storage and
	hydrogeological conditions on the design and recovery performance of
	small-scale urban ASR systems
09:30-09:45	146 Q Hao ., Y Zhu., Y Li: Evaluation of the impact of artificial recharge of
	groundwater by river replenishment in the North China Plain using
	numerical model
09:45-10:00	391 A Ross: Benefits and costs of managed aquifer recharge: an
	integrated water governance solution
10:15-10:30	409 A Lindhe., <u>L Rosén</u> : Assessment of Water Supply Security and
	Sustainability of Managed Aquifer Recharge in Botswana
10:30-11:00	COMFORT BREAK
Venue 4	Special Session: Managed Aquifer Recharge
	D Benedicto van Dalen, J Conrad Chairperson
14:00-14:15	143 <u>T Halihan</u> ., W Andrews: <i>Electrical Hydrogeology of Managed Aquifer</i>
	Recharge from Meter to Kilometer Scales
14:15-14:30	256 I de Groot-Wallast., I America., <u>J King</u> ., G Oude Essink., K Raat:
	Planning for increased water security and preventing salinisation in
	coastal areas of the Netherlands: A study on the suitability for managed
	aquifer recharge and extraction of brackish water, including quantification
14 20 44 45	of potential extractable volumes.
14:30-14:45	170 M Holloway., P Lourens: Managed Aquifer Recharge within the
14.45 45.00	Greater Kruger National Park and Implementation of Recharge Scheme
14:45-15:00	196 <u>L Towers</u> ., K Riemann: <i>The Atlantis Water Resource Management</i>
15,00 15,15	Scheme – Lessons in Resilience
15:00-15:15	13 <u>H Baalousha</u> : Assessment of flash flood potential for artificial recharge
	in arid regions

15:15-15:30	150 <u>J van Rooyen</u> ., O Schilling: Tracer applications in an urban MAR
	(Rhine) scheme: identifying the presence of regional groundwater in a
	complex geological setting
15:30-16:00	COMFORT BREAK
Venue 4	Special Session: Managed Aquifer Recharge
	D Benedicto van Dalen, J Conrad Chairperson
16:00-16:15	62 <u>Y Ganot</u> ., E Valdman., E Farber., N Amir., Y Amiaz., T Kamai: <i>Evaluating</i>
	Karst Drywells for Urban Stormwater Management and Aquifer Recharge
16:15:16:30	43 K Daranond., J Chimpalee., A Pongsatitpat., P Klahan: Experiments of
	the artificial-recharge rate of sand and gravel aquifer through shallow
	recharge wells in Chao Phraya River basin region
16:30-16:45	244 <u>L Nhleko</u> ., Z Phikiso., C Musekiwa., R Grow: <i>Managed aquifer</i>
	recharge (MAR) suitability mapping Using GIS-MCDA: The South African
	perspective.
16:45-17:00	TBC
17:00-18:00	Commission/Network Meeting
	Commission on Managing Aquifer Recharge
THURSDAY	21 Contombox 2022
INUNSDAI	21 September 2023
Venue 5	Special session: Near real-time Groundwater Level Forecasting
	Special session: Near real-time Groundwater Level Forecasting
Venue 5	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM
Venue 5 08:30-09:45	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC
Venue 5 08:30-09:45 Venue 5 09:45-10:30	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC Special session: Education and outreach
Venue 5 08:30-09:45 Venue 5	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC Special session: Education and outreach Session convenor – IAH
Venue 5 08:30-09:45 Venue 5 09:45-10:30	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC Special session: Education and outreach Session convenor – IAH PROGRAMME TBC
Venue 5 08:30-09:45 Venue 5 09:45-10:30 10:30-11:00 Venue 5	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC Special session: Education and outreach Session convenor - IAH PROGRAMME TBC COMFORT BREAK
Venue 5 08:30-09:45 Venue 5 09:45-10:30 10:30-11:00 Venue 5 14:00-15:30	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC Special session: Education and outreach Session convenor – IAH PROGRAMME TBC COMFORT BREAK Special session: Municipal Groundwater Supply Session Convenor – City of Cape Town PROGRAMME TBC
Venue 5 08:30-09:45 Venue 5 09:45-10:30 10:30-11:00 Venue 5 14:00-15:30 15:30-16:00	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC Special session: Education and outreach Session convenor - IAH PROGRAMME TBC COMFORT BREAK Special session: Municipal Groundwater Supply Session Convenor - City of Cape Town
Venue 5 08:30-09:45 Venue 5 09:45-10:30 10:30-11:00 Venue 5 14:00-15:30	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC Special session: Education and outreach Session convenor - IAH PROGRAMME TBC COMFORT BREAK Special session: Municipal Groundwater Supply Session Convenor - City of Cape Town PROGRAMME TBC COMFORT BREAK Special session: Young Professionals Programme
Venue 5 08:30-09:45 Venue 5 09:45-10:30 10:30-11:00 Venue 5 14:00-15:30 15:30-16:00 Venue 5	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC Special session: Education and outreach Session convenor - IAH PROGRAMME TBC COMFORT BREAK Special session: Municipal Groundwater Supply Session Convenor - City of Cape Town PROGRAMME TBC COMFORT BREAK Special session: Young Professionals Programme Session convenor - Water Research Commission
Venue 5 08:30-09:45 Venue 5 09:45-10:30 10:30-11:00 Venue 5 14:00-15:30 15:30-16:00 Venue 5	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC Special session: Education and outreach Session convenor - IAH PROGRAMME TBC COMFORT BREAK Special session: Municipal Groundwater Supply Session Convenor - City of Cape Town PROGRAMME TBC COMFORT BREAK Special session: Young Professionals Programme Session convenor - Water Research Commission PROGRAMME TBC
Venue 5 08:30-09:45 Venue 5 09:45-10:30 10:30-11:00 Venue 5 14:00-15:30 15:30-16:00 Venue 5	Special session: Near real-time Groundwater Level Forecasting Session sponsor and convenor - BGRM PROGRAMME TBC Special session: Education and outreach Session convenor - IAH PROGRAMME TBC COMFORT BREAK Special session: Municipal Groundwater Supply Session Convenor - City of Cape Town PROGRAMME TBC COMFORT BREAK Special session: Young Professionals Programme Session convenor - Water Research Commission

FRIDAY	22 September 2023
Venue 1	Improving shared sustainable use of groundwater resources that cross
	two or more jurisdictional borders
08:30-08:45	410 D Kibirige : Pock Marks as a Nature-based solution for enhancing
	water availability in African marginal drylands?
08:45-09:00	57 A Love., R Purtschert., Y Xie., D Wohling., S Fulton., J McCallum., M
	Chmielarski., W Ziang., Z Lu., G Yang., P Shand., W Aeschbach., L Broder., P
	Mueller., Y Tosaki: Coupling environmental tracers and modelling and
	what can they tell us about groundwater sustainability and example from
	the southwestern Great Artesian Basin (GAB) of Australia
09:00-09:15	276 <u>C Morales</u> ., T Stigter., C Fraser., B van Breukelen., G Jewitt: <i>Units for</i>
	joint management of cross-border groundwater impacts in Transboundary
	Aquifers: an overview of concepts and methodologies
Venue 1	Scale aspects of groundwater flow and transport systems
09:15-09:30	190 <u>D McGibbon</u> ., L Towers., K Riemann: <i>Cape Flats Aquifer Management</i>
	Scheme – the City of Cape Town's groundwater abstraction and MAR
	scheme for a resilient future (South Africa)
09:30-09:45	96 V Price., <u>J Dottridge</u> : Groundwater models for water resources
	assessment at regional, local and site scales
09:45-10:00	229 <u>T Sarris</u> ., A Kenny., D Scott., C Moore: <i>Source protection zone</i>
	delineation: numerical insights on the effect of heterogeneity
10:00-10:15	231 J Weitz., N Jovanovic: Numerical groundwater modelling of the
	Windhoek Aquifer (Namibia) for wellfield management
10:15-10:30	236 K Gibson., D McGibbon., T Flügel: Design and Implementation of
	Groundwater Protection Schemes in Different Aquifer Settings within the
	City of Cape Town (Western Cape, South Africa)
10:30-11:15	COMFORT BREAK
Venue 1	Closing session
	Programme Director: A Vicente
11:15-11:45	Keynote address - Young Water Professional
11:45-12:15	<u>H Pienaar</u> : Circular economy and implications for groundwater
12:15-12:45	IAH Speaker
12:45-13:15	Water Ceremony and hand over to following conference organisers
13:15-13:30	Vote of thanks and close conference

FRIDAY	22 September 2023
Venue 2	Council for Geoscience Session
	Catchment scale integrated surface water and groundwater studies.
08:30-08:45	293 D Grombache., <u>V Matta</u> : Highly productive geophysical mapping of
	groundwater systems in water-scare countries
08:45-09:00	257 <u>A Neven</u> ., L Schorpp., J Straubhaar., P Renard: A stochastic data
	integration approach to generate geologically consistent hydrogeological
	models from geophysical and hydrogeological data
09:00-09:15	Groundwater models for water resources assessment at regional, local
	and site scales
09:15-09:30	167 B van Wyk., <u>D Sarma</u> : Springs of the Otavi Mountainland. Could they
	teach us something significant?
09:30-09:45	168 <u>D Benedicto van Dalen</u> ., A Ketema., G Zeleke: Building evidence
	through hydrogeological survey and monitoring for the conjunctive
	development and management of water resources in Kunzila catchment
	area – Amhara Region, Ethiopia
09:45-10:00	95 <u>F Fourie</u> : Using the Groundwater Level Status approach for climate
	impacts
10:00-10:15	317 P Saveca., T Stigter., F Fourie., E Lukas: Groundwater potential and
	lateral connectivity of the Limpopo sand river system mitigating water
	scarcity and salinity in semi-arid Mozambique
10:15-10:30	
10:30-11:00	COMFORT BREAK
FRIDAY	22 September 2023
Venue 3	Scale aspects of groundwater flow and transport systems
08:30-08:45	136 A Brugeron., A Soulignac., <u>A Gutierrez</u> ., B Swartz: From the national
	hydrogeological map to regional ones. How to identify a suitable level of
	detail to work with? An application in Kunene and Omusati Regions in
	Northwestern Namibia
08:45-09:00	251 <u>S Lu</u> ., Y Xie., A Love., W Jiang., G Yang., Z Lu: <i>Use of krypton-81 to</i>
00 00 00 15	constrain the reliability of carbon-14 in estimating groundwater ages
09:00-09:15	323 <u>K Dragon</u> ., R Kruć-Fijałkowska., D Drożdzyński., J Górski: <i>The</i>
	pharmaceutical compounds diversity at two river bank filtration sites
00.45.00.20	located in Warta River valley (Poland)
09:15-09:30	255 <u>D Aind</u> ., A Mukherjee: Hydrostratigraphic controls on groundwater
00.20 00.45	arsenic enrichment in the Brahmaputra river basin aquifers
09:30-09:45	227 <u>L Shen</u> : Study on the Relationship between Water Quality and
	Wetland Plant Community in Huixian Karst Wetland

09:45-10:00	74 L Gourcy., <u>A Gutierrez</u> ., B Swartz., F Soetaert: What decision-making
	information can be obtained from chemical data on a large scale? A case
	study in Kunene and Omusati regions in Namibia
10:00-10:15	346 <u>I Muchingami.</u> , J Hamutoko., T Kanyerere., S Uugulu., J Mutjida: <i>An</i>
	assessment of hydrogeophysics application for groundwater resource
	assessment in Kalahari sands aquifers and crystalline basement aquifers
	with case studies from Namibia and South Africa.
10:15-10:30	265 N Maluleke : Using analytical models to examine groundwater
	abstraction impacts on surface water levels.
10:30-11:00	COMFORT BREAK
FRIDAY	22 September 2023
Venue 4	Polycentric groundwater governance systems
08:30-08:45	240 <u>G Nijsten</u> ., S Vermooten., J Delsman., P de Louw., J Gunnink., J Buma.,
	J Zaadnoordijk: Netherlands National Groundwater reserves: 3D mapping
	and development of management policies as part of a multi-level strategy
	to secure water supply for disasters and the far future.
08:45-09:00	273 <u>A Taylor</u> ., F Atkins: <i>Governing groundwater in city regions: Water</i>
	metabolism and actor networks in the cases of Cape Town and Nelson
	Mandela Bay
09:00-09:15	94 <u>H Loaiciga</u> : Groundwater for people and the environment: a globally
	threatened resource
09:15-09:30	51 <u>P van der Keur</u> : Development of United Nations Framework
	Classification for Resources (UNFC) for Groundwater Resources
	Management
09:30-09:45	163 <u>I Rodriguez-Levy</u> ., M Centellas-Levy., W Ferreira., L Rivera-Rodriguez.,
	S Mustafa., C Apaza-Coria., M Soruco., A Amaya., M Huymans: Alternative
	approaches for integrated groundwater management in the rural basins
	of Central Bolivia
09:45-10:00	318 <u>B Curk.</u> , P Banovec., A Papadopoulou., V Kanakoudis., N Guyennon., E
	Romano: Management of water-related risks in drinking water supplies
10:00-10:15	234 <u>C Monokofala</u> : Groundwater resource assessment and delineation of
	resource unit for the Komati catchment within the Inkomati Usuthu
	Management Catchment area – Mpumalanga Province, South Africa
10:15-10:30	26 <u>J Goldin</u> : Keep the flow: applying a HOPE model

FRIDAY	22 September 2023
Venue 5	Special session: Groundwater Project
	Session convenor – J Cherry, K Pietersen: Groundwater Project
08:30-10:30	PROGRAMME TBC

- Biographies of the keynote presenters and convenors available at: https://iah2023.org.za/keynote-presenters/
- A list of the poster presenters will be made available shortly.
- The organizers reserves the right to make changes to the programme without prior notice.