



Shared Prosperity Dignified Life



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LIMITED
E/ESCWA/CL1.CCS/2024/WG.1/L.2
22 January 2024
ORIGINAL: ENGLISH

Economic and Social Commission for Western Asia (ESCWA)

Improved Groundwater Management in the Arab Region

Use of the Gravity Recovery and Climate Experiment (GRACE) mission to monitor groundwater storage change: National workshop for Jordan and State of Palestine

Amman, 25-26 February 2024

Draft Agenda

Sunday, 25 February 2024

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| 08:45-09:00 | <p>In-person Check-in <i>The workshop will be held in W Amman hotel, Amman, Jordan. Sponsored participants are kindly asked to bring their passport, visa receipt and airline ticket stub to the workshop.</i></p> |
| Opening Session and Introduction | |
| 09:00-09:10 | <p>Opening Statement</p> <ul style="list-style-type: none"> • <i>Mr. Hamzeh Yasin, Regional Programme Manager, MENA Development Cooperation, Embassy of Sweden</i> • <i>Mr. Ziad Khayat, Coordinator, IWRM for Improved Water Security, Climate Change and Natural Resource Sustainability Cluster, Economic and Social Commission for Western Asia, ESCWA</i> |
| 09:10-09:20 | Tour de Table |
| 09:20-9:25 | <p>Review of Workshop Objectives and Agenda</p> <ul style="list-style-type: none"> • <i>Mr. Norman Jones, Professor and Chair, Civil and Environmental Engineering, Brigham Young University</i> |
| 09:25-09:35 | <p>Updates on the Arab Groundwater Knowledge Platform</p> <ul style="list-style-type: none"> • <i>Ms. Tracy Zaarour, Research Assistant, Climate Change and Natural Resource Sustainability Cluster, ESCWA</i> |
| 09:35-10:05 | <p>Groundwater in Jordan and Palestine</p> <ul style="list-style-type: none"> • <i>Country representatives from Jordan</i> • <i>Country representatives from Palestine</i> |
| 10:05-10:30 | Coffee break |

Session I Overview on GRACE Mission and Applications

Presenters: *Mr. Norm Jones, Brigham Young University*
Mr. Sarva Pulla, Lead Consultant, ArchGeo LLC

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| 10:30-11:30 | <ul style="list-style-type: none"> • Overview of GRACE mission and groundwater derivation method • GRACE Groundwater Subsetting Tool |
| 11:30-13:00 | <ul style="list-style-type: none"> • Case Study – Southern Niger • Case Study – Volta Basin (Ghana, Burkina Faso, Togo) • Preliminary results for Jordan, Dead Sea Basin, Palestine aquifers |
| 13:00-14:00 | Lunch |
| 14:00-15:00 | Exercise Processing of a regional dataset and analyze the various components using the GGST API in Google Colab |

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| Session II | Recharge Estimation using the Water Table Fluctuation Method |
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| 15:00-16:00 | <ul style="list-style-type: none"> • The Water Table Fluctuation Method using GRACE-derived groundwater data • Gap imputation for GRACE datasets |
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Monday, 26 February 2024

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| Session II | Recharge Estimation using the Water Table Fluctuation Method |
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| 9:00-11:00 | Exercise Hands-on application of the Water Table Fluctuation Method, Gap imputation and trend analysis |
| 11:00-11:30 | Coffee break |

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| Session III | Study Results and Further Guidance |
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| 11:30-12:30 | Presentation of results in each study area and learning exchange |
| 12:30-13:00 | Guidance on case study reporting |
| 13:00-14:00 | Lunch |
| 14:00-15:30 | Methods for dealing with small basins |
| 15:30-15:45 | Q&A |

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| Session IV | Summary Reflections |
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| 15:45-16:00 | Summary of lessons learned <ul style="list-style-type: none"> • <i>Mr. Norman Jones, BYU</i> • <i>Mr. Ziad Khayat, ESCWA</i> |
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