


Hadir Abdelmoneim Bassyouni Moustafa

Graduated Student, Faculty of Engineering, Alexandria University, Egypt.

Teaching Assistant in the Higher Institute of Engineering & Technology, K-Marriot.

 Alexandria, Egypt.

 hadir.abdelmoneim@alexu.edu.eg, hadir_a_moneim@yahoo.com

 <https://hadir-abdelmoneim.github.io/personal-website/>



EDUCATION

- August 2021 **Master of Science**, Faculty of Engineering, Hydraulic and Irrigation Department, Alexandria University, Egypt. **Master Science Courses GPA:** (A⁻).
- April 2018 **Master of Engineering**, Faculty of Engineering, Hydraulic and Irrigation Department, Alexandria University, Egypt. **Master Eng. GPA:** (A⁻).
- July 2015 **Diploma in Water Resources** Faculty of Engineering, Hydraulic and Irrigation Department, Alexandria University, Egypt. **Diploma GPA:** (A⁻).
Diploma Project: Water resources in some Arab countries in light of contemporary water challenges. **Diploma Project GPA:** (A)
- June 2013 **B.Sc. Civil Engineering**, Alexandria University. **Graduation Project:** Reduce the risk of flooding and how to use them. **Graduation Project Grade:** Excellent.
- 2008 **High School:** Saint Joseph.



PUBLICATIONS

Papers, Chapter Book, Technical Reports, and Thesis

[Review]

1. **Abdelmoneim, H.**, Eldardiry, H., Saber, M., Moghazy, H., Kantoush, S., & Sumi, T., (submitted). Integrating Multi-Sensor Observations and Rainfall-Runoff Inundation Modeling for Mapping Flood Extents over the Nile River Basin: Example from the 2020 Flooding in Sudan.
2. **Abdelmoneim, H.**, Eldardiry, H., Moghazy, H., Eladawy, A. (in review). Inferring the Joint Operation of High Aswan Dam and Toshka Lakes using Multi-Sensor Satellite Approach. International Journal of Water Resources Development.

[Published]

● (2021)

3. **Abdelmoneim, H.**, Soliman, M. R., & Moghazy, H. M. (2022). Hydrologic Assessment of the Uncertainty of Six Remote Sensing Precipitation Estimates Driven by a Distributed Hydrologic Model in the Blue Nile Basin. In Wadi Flash Floods (pp. 225–249). Springer, Singapore.

● (2020)

4. **Abdelmoneim, H.**, Soliman, M.R. & Moghazy, H.M. (2020) Evaluation of TRMM 3B42V7 and CHIRPS Satellite Precipitation Products as an Input for Hydrological Model over Eastern Nile Basin. Earth Syst Environ. <https://doi.org/10.1007/s41748-020-00185-3>.
5. **Abd-El Moneim, H.**, Soliman, M.R. & Moghazy, H.M. (2020). Hydrological Modelling of Eastern Nile Basin Using A Fully Distributed Model Based on TRMM 3B42V7 Satellite Precipitation Product, Tuef 2020 conference.

● (2019)

6. **Abd-El Moneim, H.**, Soliman, M.R. & Moghazy, H.M. (2019). Hydrologic Evaluation of TRMM Multi-satellite Precipitation Analysis Products over Blue Nile Basin. 2nd International conference of Chemical, Energy and Environmental Engineering (ICEEE), Egypt Japan University of Science and Technology, Alexandria, Egypt.

● (2018)

7. **Abd-El Moneim, H.** (2018). Numerical Simulation of Blue Nile Basin using Distributed Hydrological Model. Report of Master of Engineering, Faculty of Engineering, Alexandria University, Egypt

● (2017)

8. **Abd-El Moneim, H.**, Soliman, M.R. & Moghazy, H.M. (2017). Numerical Simulation of Blue Nile Basin using Distributed Hydrological Model. in 11th International Conference on The Role of Engineering Towards A Better Environment (RETBE'17), Alexandria University, Faculty of Engineering, Alexandria, Egypt.



PRESENTATIONS AT TECHNICAL MEETINGS AND CONFERENCES

[Oral presentation]

● (2021)

1. **Abdelmoneim, H.**, Eldardiry, H., Saber, M., Moghazy, H.M., Kantoush, S., Sumi, T., (2021) Evaluation of Rainfall Runoff Inundation Model over the Nile River Basin: Example from 2020 Flooding Event in Sudan. The Sixth International Symposium on

Flash Floods in Wadi Systems, 6th ISFF2021, September 26th– 30th, 2021, Amman, Jordan.

2. **Abdelmoneim, H.**, Eldardiry, H., Eladawy, A., and Moghazy, H.: Inferring the Joint Operation of High Aswan Dam and Toshka Lakes using Multi-Sensor Satellite Approach, EGU General Assembly 2021, online, 19–30 Apr 2021, EGU21-14224, <https://doi.org/10.5194/egusphere-egu21-14224>, 2021.
3. Oral Presentation of the Master defense, Faculty of Engineering, Hydraulic and Irrigation Department, Alexandria University, Egypt, June 2021.

● (2020)

4. **Abd-El Moneim, H.**, Soliman, M.R. & Moghazy, H.M. (2020). Hydrological Modelling of Eastern Nile Basin Using A Fully Distributed Model Based on TRMM 3B42V7 Satellite Precipitation Product. **[virtual]**.

● (2019)

5. **Abd-El Moneim, H.**, Soliman, M.R. & Moghazy, H.M. (2019). Hydrologic Evaluation of TRMM Multi-satellite Precipitation Analysis Products Over Blue Nile Basin. 2nd International conference of Chemical, Energy and Environmental Engineering (ICEEE), Egypt Japan University of Science and Technology, Alexandria, Egypt.

● (2018)

6. Oral Presentation of the final report of Master Engineering, Seminar, Faculty of Engineering, Hydraulic and Irrigation Department, Alexandria University, Egypt, March 2018.
7. Oral Presentation of report entitled:” A Comprehensive Study for the Nile River and Applications of Remote Sensing in Water Resources” Seminar, Faculty of Engineering, Hydraulic and Irrigation Department, Alexandria University, Egypt, September 2018.

● (2017)

8. **Abd-El Moneim, H.**, Soliman, M.R. & Moghazy, H.M. (2017). Numerical Simulation of Blue Nile Basin using Distributed Hydrological Model. in 11th International Conference on The Role of Engineering Towards A Better Environment (RETBE'17), Alexandria University, Faculty of Engineering, Alexandria, Egypt.

[Poster presentation]

● (2021)

1. **Abdelmoneim, H.**, Eldardiry, H., Saber, M., & Moghazy, H. (2021, December). Mapping Flood Inundation over the Nile River Basin using Hydrological Modeling and Satellite Remote Sensing: Example from the 2020 Record-Breaking Flooding in Sudan. In AGU Fall Meeting 2021. AGU.

2. **Abdelmoneim, H.**, Soliman, M.R. & Moghazy, H.M. (2021). A comprehensive evaluation of eight high-resolution precipitation estimations based on satellite products over the Blue Nile basin. The Sixth International Symposium on Flash Floods in Wadi Systems, 6th ISFF2021, September 26th– 30th, 2021, Amman, Jordan.
 3. **Abdelmoneim, H.**, Soliman, M.R. & Moghazy, H.M. (2021). Hydrological change based on remote sensing data due to the construction of GERD and their influence on Egypt's water resources. The Sixth International Symposium on Flash Floods in Wadi Systems, 6th ISFF2021, September 26th– 30th, 2021, Amman, Jordan.
- (2020)
4. **Abd-El Moneim, H.**, Soliman, M.R. & Moghazy, H.M. (2020). Statistical Evaluation of High-Resolution Precipitation Products in A Hydrological Modeling of Eastern Nile Basin. The Fifth International Symposium on Flash Floods in Wadi Systems, 5th ISFF2020, February 25th– 29th, 2020 Kyoto University, Japan.
- (2018)
5. **Abd-El Moneim, H.**, Soliman, M.R. & Moghazy, H.M. (2018). Assessment of TRMM 3B42V7 Satellite Precipitation Product Using Fully Distributed Hydrological Model over the Blue Nile Basin. The Fourth International Symposium on Flash Floods in Wadi Systems, 4th ISFF2018, December 4th– 6th, 2018, Casablanca, Morocco.



SCIENTIFIC ACTIVITIES

- Participated in the **31st session of the IHP Training Course** in Asia and the Pacific Region on “**Integrated Basin Management under Changing Climate**” which was held from 13th to 23rd December 2021 organized by Water Resources Center of Disaster Prevention Research Institute, Kyoto University under the auspices of UNESCO Office, Jakarta [virtual].
- Participated in the **IAHR Webinar on Uncertainty in Hydrological Modelling and Water Resources Management**, 14 October 2021, International Association for Hydro-Environment Engineering and Research (IAHR) hosted by Spain Water and IWHR, China [virtual].
- Participated in **ARSET – Mapping and Monitoring Lakes and Reservoirs with Satellite Observations Training**, 9th–23rd February 2021, Earth Science Applied Sciences, NASA, USA [virtual].
- Participated in **Sensing Rivers 2020 workshop (SR2020)**, 21st–23rd September 2020, University of Washington Seattle, USA [virtual].
- Attending of **Tanta University 4th International Environment Forum Green Environment and Sustainable Development**, 10–13 March 2020, Alexandria, Egypt.

- Participated in the Fifth International Symposium on Flash Floods in Wadi Systems, **5th ISFF2020**, February 25th– 29th, 2020 Kyoto University, Japan.
- Participated in 2nd International conference of Chemical, Energy and Environmental Engineering, **ICCEEE 2019**, 16–18 July 2019 Egypt Japan University of Science and Technology, Alexandria, Egypt.
- Attending of Scientific Symposium entitled “**Naval Corridor Victoria Lake – Mediterranean Sea between theory and practice**” at Faculty of Engineering, Alexandria University, 8 December 2018.
- Participated in the Role of Engineering Towards a Better Environment, **RETBE'17, 11th International Conference**, Alexandria University, Faculty of Engineering.
- Attending in **Student Professional Development Conference–Africa 2016**, American University in Cairo.
- Attending the Role of Engineering Towards a Better Environment, **RETBE'14**, 10th International Conference, Alexandria University, Faculty of Engineering.
- Attending to **Prof. Stefan Heimann ‘s lecture** at his visit to department of Irrigation Engineering and Hydraulics, Alexandria University, Faculty of Engineering, 2013.



SKILLS

Personal Skills

- Teamwork spirit and cooperation.
- Hard worker under stress.
- Good Communication Skills.
- Self-motivated.
- Good Communication, Presentation, and Leadership skills.
- Self-Planning and Time Management.
- Ability to face & solve problems.

Computer Skills

- Language programming such as Fortran, MATLAB, Python, and R programing.
- Hydrologic modeling (WMS, HydroBEAM, RRI).
- Professional of ArcGIS v10 software and its different applications.
- Expert of Google Earth (Pro.6).
- User of Global Mapper Program.
- Professional in dealing with internet, search engines and browse through the web.
- Familiar with html and CSS.
- Familiar with Water CAD program.
- Microsoft office software (Excel, word, power point).

- Google Earth Engine platform.

Language Skills

- Native language Arabic.
- Very Good command of both written and spoken English.
- Very Good command of both written and spoken French.



JOURNAL REVIEWING EXPERIENCE

- Geocarto International Journal



AWARDS AND HONORS

(2021)

- The **complete** of the **31st session of the IHP Training Course** in Asia and the Pacific Region on “**Integrated Basin Management under Changing Climate**” which was held from 13th to 23rd December 2021 organized by Water Resources Center of Disaster Prevention Research Institute, Kyoto University under the auspices of UNESCO Office, Jakarta
- The **best poster** presentation award entitled: “A Comprehensive evaluation eight high-resolution precipitation estimations based on satellite products over the Blue Nile basin” at the 6th International Symposium on Flash Floods in Wadi System (6th ISFF), Amman, Jordan, September 26–30,2021.



GRANTS

Travel Grants

- (2021)
 - Kyoto University travel support to participate in the sixth International Symposium on Flash Floods in Wadi Systems.
- (2020)
 - Kyoto University travel support to participate in the fifth International Symposium on Flash Floods in Wadi Systems.



TEACHING EXPERIENCE

- Higher Institute of Engineering & Technology, K-Marriot as **A Teaching Assistant of Irrigation and Drainage Engineering** (2nd Semester 2020 to present).
- Faculty of Engineering, Alexandria University – Hydraulic and Irrigation Department as **A Teaching Assistant of Design Irrigation Structures II** (1st Semester 2017/2018).

- Faculty of Engineering, Alexandria University – Hydraulic and Irrigation Department as **A Teaching Assistant of Design Irrigation Structures I** (2nd Semester 2017/2018).
- Faculty of Engineering, Alexandria University – Hydraulic and Irrigation Department as **A Teaching Assistant of Applied Hydrology and Design Irrigation Structures II** (1st Semester 2016/2017).
- Faculty of Engineering, Alexandria University – Hydraulic and Irrigation Department as **A Teaching Assistant of Design Irrigation Structures I** (2nd Semester 2016/2017).
- Faculty of Engineering, Alexandria University – Hydraulic and Irrigation Department as **A Teacher Assistant of Applied Hydrology** (1st Semester 2013/2014).



INTERESTS

Drawing, reading, travelling, knowing new cultures, and learning online courses.