

## Bibliography

1. Abdalla SH. Planning in the Nile River Basin: A Regional Approach. In: Shang HQ, Luo XX, eds. *PROCEEDINGS OF THE 3RD INTERNATIONAL YELLOW RIVER FORUM ON SUSTAINABLE WATER RESOURCES MANAGEMENT AND DELTA ECOSYSTEM MAINTENANCE, VOL I*. Yellow River Conservancy Commiss; EU, China River Basin Management Program; Minist Environm; WWF; Dept Int Dev; World Bank; Asian Dev Bank; Global Water Partnership; Challenge Program Water & Food; Int Network Basin Org; World Conservat Union; Asia Sci Reg Off Global Water Syst Program; Natl Nat Sci Fdn China; Tsinghua Univ; CAS, Ctr Water Resources Res; China Inst Water Resources & Hydropower Res; Nanjing Hydraul Res Inst; Yellow River Water & Hydropower Dev Corp; Int Econ Tech Cooperat & Exchange Ctr; Yellow River Shangdong Bur; Dongying Municipal Govt Shandong Prov; Shengli Petr Adm Bur; 2007:229-237.
2. Melesse AM, Abteu W, Setegn SG, Dessalegne T. Hydrological Variability and Climate of the Upper Blue Nile River Basin. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:3-37. doi:10.1007/978-94-007-0689-7\_1
3. Abteu W, Dessu SB. Hydrology of the Blue Nile Basin Overview. In: *GRAND ETHIOPIAN RENAISSANCE DAM ON THE BLUE NILE*. Springer Geography. ; 2019:39-62. doi:10.1007/978-3-319-97094-3\_4
4. Asmamaw DK. A critical review of integrated river basin management in the upper Blue Nile river basin: the case of Ethiopia. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2015;13(4):429-442. doi:10.1080/15715124.2015.1013037
5. Digna RF, Mohamed YA, van der Zaag P, Uhlenbrook S, Corzo GA. Nile River Basin modelling for water resources management - a literature review. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2017;15(1):39-52. doi:10.1080/15715124.2016.1228656
6. Di Baldassarre G, Elshamy M, van Griensven A, et al. Future hydrology and climate in the River Nile basin: a review. *HYDROLOGICAL SCIENCES JOURNAL*. 2011;56(2):199-211. doi:10.1080/02626667.2011.557378
7. Ali YSA, Crosato A, Mohamed YA, Abdalla SH, Wright NG. Sediment balances in the Blue Nile River Basin. *INTERNATIONAL JOURNAL OF SEDIMENT RESEARCH*. 2014;29(3):316-328. doi:10.1016/S1001-6279(14)60047-0
8. Degefu DM, He W. Water bankruptcy in the mighty Nile river basin. *SUSTAINABLE WATER RESOURCES MANAGEMENT*. 2016;2(1):29-37. doi:10.1007/s40899-015-0035-2
9. Yitayew M, Melesse AM. Critical Water Resources Issues in the Nile River Basin. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:401-416. doi:10.1007/978-94-007-0689-7\_20
10. Berhanu B, Seleshi Y, Amare M, Melesse AM. Upstream-Downstream Linkages of Hydrological Processes in the Nile River Basin. In: Melesse AM, Abteu W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:207-223. doi:10.1007/978-3-319-18787-7\_11

11. El-Kady M, Moustafa M. The Nile River Basin: Development Research Priorities for Water Security and Management across Borders. In: Shang HQ, ed. *PROCEEDINGS OF THE 2ND INTERNATIONAL YELLOW RIVER FORUM ON KEEPING HEALTHY LIFE OF THE RIVER, VOL I*. Yellow River Conservancy Commiss; Global Water Partnership; Asian Dev Bank; Royal Netherlands Embassy, Beijing; Challenge Program Water & Food; China Int Ctr Econ & Tech Exchange; USDA; CPWC; China Inst Water Resources & Hydropower Res; Tsinghua Univ; Nanjing Hydraul Res Inst; Yellow River Water & Hydropower Dev Corp; World Bank; Int Ctr Econ & Cooperat MWR; 2005:261-272.
12. Tegegne G, Melesse AM, Asfaw DH, Worqlul AW. Flood Frequency Analyses over Different Basin Scales in the Blue Nile River Basin, Ethiopia. *HYDROLOGY*. 2020;7(3). doi:10.3390/hydrology7030044
13. Rahman MA. Water Security: Ethiopia-Egypt Transboundary Challenges over the Nile River Basin. *JOURNAL OF ASIAN AND AFRICAN STUDIES*. 2013;48(1):35-46. doi:10.1177/0021909612438517
14. Paisley RK, Henshaw TW. Transboundary governance of the Nile River Basin: Past, present and future. *ENVIRONMENTAL DEVELOPMENT*. 2013;7(SI):59-71. doi:10.1016/j.envdev.2013.05.003
15. Hossam ES, Farid MS. Overview of sediment transport evaluation and monitoring in the Nile basin. In: Hu C, Tan Y, Zhou Z, Shao X, Liu C, eds. *PROCEEDINGS OF THE NINTH INTERNATIONAL SYMPOSIUM ON RIVER SEDIMENTATION, VOLS 1-4*. UNESCO; Int Res & Training Ctr Erosion & Sedimentat; 2004:2599-2606.
16. Arjoon D, Mohamed Y, Goor Q, Tilmant A. Hydro-economic risk assessment in the eastern Nile River basin. *WATER RESOURCES AND ECONOMICS*. 2014;8(SI):16-31. doi:10.1016/j.wre.2014.10.004
17. Mahlakeng MK. China and the Nile River Basin: The Changing Hydropolitical Status Quo. *INSIGHT ON AFRICA*. 2018;10(1):73-97. doi:10.1177/0975087817741043
18. Abd-Elbaky M, Jin S. Hydrological mass variations in the Nile River Basin from GRACE and hydrological models. *GEODESY AND GEODYNAMICS*. 2019;10(6):430-438. doi:10.1016/j.geog.2019.07.004
19. Abd-Elbaky M, Jin S. Estimating Runoff in the Nile River Basin from Multi-satellite Measurements. In: Hu S, Ye X, Yang K, Fan H, eds. *2018 26TH INTERNATIONAL CONFERENCE ON GEOINFORMATICS (GEOINFORMATICS 2018)*. International Conference on Geoinformatics. Int Assoc Chinese Profess Geog Informat Sci; Wuhan Univ; Jiusan Soc, Yunnan Provincial Comm; SuperMap Software Co Ltd; Beijing PIESAT Informat Technol Co Ltd; 2018.
20. Abteu W, Dessu SB. The Nile River and Transboundary Water Rights. In: *GRAND ETHIOPIAN RENAISSANCE DAM ON THE BLUE NILE*. Springer Geography. ; 2019:13-27. doi:10.1007/978-3-319-97094-3\_2
21. Suari Y, Brenner S. Decadal biogeochemical history of the south east Levantine basin: Simulations of the river Nile regimes. *JOURNAL OF MARINE SYSTEMS*. 2015;148:112-121. doi:10.1016/j.jmarsys.2015.02.004

22. Belay AA, Semakula HM, Wambura GJ, Jan L. SWOT Analysis and Challenges of Nile Basin Initiative: An Integrated Water Resource Management Perspective. *CHINESE JOURNAL OF POPULATION RESOURCES AND ENVIRONMENT*. 2010;8(1):8-17. doi:10.1080/10042857.2010.10684960
23. Hamad OE, El-Battahani A. Sudan and the Nile Basin. *AQUATIC SCIENCES*. 2005;67(1):28-41. doi:10.1007/s00027-004-0767-9
24. Hasan E, Tarhule A, Kirstetter PE, Clark R III, Hong Y. Runoff sensitivity to climate change in the Nile River Basin. *JOURNAL OF HYDROLOGY*. 2018;561:312-321. doi:10.1016/j.jhydrol.2018.04.004
25. Abiye TA, Kebede S. The role of geodiversity on the groundwater resource potential in the upper Blue Nile River Basin, Ethiopia. *ENVIRONMENTAL EARTH SCIENCES*. 2011;64(5):1283-1291. doi:10.1007/s12665-011-0946-7
26. Awulachew S, Rebelo LM, Molden D. The Nile Basin: tapping the unmet agricultural potential of Nile waters. *WATER INTERNATIONAL*. 2010;35(5, SI):623-654. doi:10.1080/02508060.2010.513091
27. Swain A. Challenges for water sharing in the Nile basin: changing geo-politics and changing climate. *HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES*. 2011;56(4, SI):687-702. doi:10.1080/02626667.2011.577037
28. Gari Y, Block P, Assefa G, Mekonnen M, Tilahun SA. Quantifying the United Nations' Watercourse Convention Indicators to Inform Equitable Transboundary River Sharing: Application to the Nile River Basin. *WATER*. 2020;12(9). doi:10.3390/w12092499
29. Yimere A, Assefa E. Assessment of the Water-Energy Nexus under Future Climate Change in the Nile River Basin. *CLIMATE*. 2021;9(5). doi:10.3390/cli9050084
30. Arsano Y, Tamrat I. Ethiopia and the Eastern Nile Basin. *AQUATIC SCIENCES*. 2005;67(1):15-27. doi:10.1007/s00027-004-0766-x
31. Abteu W, Melesse AM, Dessalegne T. El Nino Southern Oscillation link to the Blue Nile River Basin hydrology. *HYDROLOGICAL PROCESSES*. 2009;23(26, SI):3653-3660. doi:10.1002/hyp.7367
32. Kim U, Kaluarachchi JJ. Hydrologic model calibration using discontinuous data: an example from the upper Blue Nile River Basin of Ethiopia. *HYDROLOGICAL PROCESSES*. 2009;23(26, SI):3705-3717. doi:10.1002/hyp.7465
33. Kim U, Kaluarachchi JJ. Application of parameter estimation and regionalization methodologies to ungauged basins of the Upper Blue Nile River Basin, Ethiopia. *JOURNAL OF HYDROLOGY*. 2008;362(1-2):39-56. doi:10.1016/j.jhydrol.2008.08.016
34. Yohannes O, Yohannes K. Turmoil in the Nile River Basin: Back to the Future? *JOURNAL OF ASIAN AND AFRICAN STUDIES*. 2013;48(2):195-208. doi:10.1177/0021909612447175

35. Yalew SG, Kwakkel J, Doorn N. Distributive Justice and Sustainability Goals in Transboundary Rivers: Case of the Nile Basin. *FRONTIERS IN ENVIRONMENTAL SCIENCE*. 2021;8. doi:10.3389/fenvs.2020.590954
36. Jury MR. Climatic Factors Modulating Nile River Flow. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:267-280. doi:10.1007/978-94-007-0689-7\_13
37. Butts MB, Buontempo C, Lorup JK, et al. DEVELOPING A REGIONAL METHODOLOGY FOR CLIMATE ADAPTATION IN THE NILE BASIN. In: Lekkas TD, ed. *PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY*. Proceedings of the International Conference on Environmental Science and Technology. Univ Aegean; Global Network Environm Sci & Technol; 2013.
38. Castaneda IS, Schouten S, Paetzold J, et al. Hydroclimate variability in the Nile River Basin during the past 28,000 years. *EARTH AND PLANETARY SCIENCE LETTERS*. 2016;438:47-56. doi:10.1016/j.epsl.2015.12.014
39. Taye MT, Willems P, Block P. Implications of climate change on hydrological extremes in the Blue Nile basin: A review. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2015;4(B):280-293. doi:10.1016/j.ejrh.2015.07.001
40. Sharaky AM. Challenges in Achieving Arab Water Security: Case Study - Nile River Basin. *RESEARCH IN MARINE SCIENCES*. 2017;2(3):145.
41. Booij MJ, Tollenaar D, van Beek E, Kwadijk JCJ. Simulating impacts of climate change on river discharges in the Nile basin. *PHYSICS AND CHEMISTRY OF THE EARTH*. 2011;36(13):696-709. doi:10.1016/j.pce.2011.07.042
42. Abseno MM. The influence of the UN Watercourses Convention on the development of a treaty regime in the Nile River basin. *WATER INTERNATIONAL*. 2013;38(2, SI):192-203. doi:10.1080/02508060.2013.782798
43. Onyutha C, Tabari H, Taye MT, Nyandwaro GN, Willems P. Analyses of rainfall trends in the Nile River Basin. *JOURNAL OF HYDRO-ENVIRONMENT RESEARCH*. 2016;13:36-51. doi:10.1016/j.jher.2015.09.002
44. Gedefaw M, Denghua Y, Girma A. Assessing the Impacts of Land Use/Land Cover Changes on Water Resources of the Nile River Basin, Ethiopia. *ATMOSPHERE*. 2023;14(4). doi:10.3390/atmos14040749
45. Tawfik R. Beyond the River: Elite Perceptions and Regional Cooperation in the Eastern Nile Basin. *WATER ALTERNATIVES-AN INTERDISCIPLINARY JOURNAL ON WATER POLITICS AND DEVELOPMENT*. 2019;12(2, SI):655-675.
46. Awulachew SB, Wubet FD, McCartney M, Shiferaw YS. Hydrological Water Availability, Trends and Allocation in the Blue Nile Basin. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:283-296. doi:10.1007/978-94-007-0689-7\_14

47. Kim U, Kaluarachchi JJ. Climate Change Impacts on Water Resources in the Upper Blue Nile River Basin, Ethiopia1. *JOURNAL OF THE AMERICAN WATER RESOURCES ASSOCIATION*. 2009;45(6):1361-1378. doi:10.1111/j.1752-1688.2009.00369.x
48. Khadr M, Schlenkhoff A. ANALYSIS OF SPATIAL AND TEMPORAL VARIABILITY OF METEOROLOGICAL DROUGHT VULNERABILITY IN THE BLUE NILE RIVER BASIN. In: Mynett A, ed. *PROCEEDINGS OF THE 36TH IAHR WORLD CONGRESS: DELTAS OF THE FUTURE AND WHAT HAPPENS UPSTREAM*. Int Assoc Hydro Environm Engn & Res; Boskalis; Van Oord; UNESCO IHE; Delft Univ Technol; Deltares; Minist Infrastructure & Environm, Rijkswaterstaat; Royal HaskoningDHV; ARCADIS; Witteveen Bos; AANDERAA; Prince Sultan Bin Abulaziz Int Prize Water; 2015:6183-6192.
49. Zeleke TT, Damtie B. Temporal and Spatial Climate Variability and Trends Over Abay (Blue Nile) River Basin. In: Stave K, Goshu G, Aynalem S, eds. *SOCIAL AND ECOLOGICAL SYSTEM DYNAMICS: CHARACTERISTICS, TRENDS, AND INTEGRATION IN THE LAKE TANA BASIN, ETHIOPIA*. AESS Interdisciplinary Environmental Studies and Sciences Series. ; 2017:59-75. doi:10.1007/978-3-319-45755-0\_6
50. Nooni IK, Wang G, Hagan DFT, Lu J, Ullah W, Li S. Evapotranspiration and its Components in the Nile River Basin Based on Long-Term Satellite Assimilation Product. *WATER*. 2019;11(7). doi:10.3390/w11071400
51. Belete M, Deng J, Zhou M, et al. A New Approach to Modeling Water Balance in Nile River Basin, Africa. *SUSTAINABILITY*. 2018;10(3). doi:10.3390/su10030810
52. Liu H, Zhao W, Liu Y. Assessment on the Soil Retention Service of Water Erosion in the Nile River Basin Considering Vegetation Factor Variance from 1982 to 2013. *WATER*. 2020;12(7). doi:10.3390/w12072018
53. Abteu W, Dessu SB. Land Tenure and Water Rights in the Blue Nile Basin. In: *GRAND ETHIOPIAN RENAISSANCE DAM ON THE BLUE NILE*. Springer Geography. ; 2019:29-38. doi:10.1007/978-3-319-97094-3\_3
54. Tafesse T. An Appraisal of Shared Water Dispute Resolution Mechanisms in the Nile Basin. In: Shang HQ, ed. *PROCEEDINGS OF THE 2ND INTERNATIONAL YELLOW RIVER FORUM ON KEEPING HEALTHY LIFE OF THE RIVER, VOL V*. Yellow River Conservancy Commiss; Global Water Partnership; Asian Dev Bank; Royal Netherlands Embassy, Beijing; Challenge Program Water & Food; China Int Ctr Econ & Tech Exchange; USDA; CPWC; China Inst Water Resources & Hydropower Res; Tsinghua Univ; Nanjing Hydeaul Res Inst; Yellow River Water & Hydropower Dev Corp; World Bank; Int Ctr Econ & Cooperat MWR; 2005:350-361.
55. Omer A, Yuan X, Gemitzi A. Transboundary Nile basin dynamics: Land use change, drivers, and hydrological impacts under socioeconomic pathways. *ECOLOGICAL INDICATORS*. 2023;153. doi:10.1016/j.ecolind.2023.110414
56. Digna RF, Mohamed YA, van der Zaag P, Uhlenbrook S, van der Krogt W, Corzo G. Impact of Water Resources Development on Water Availability for Hydropower Production and Irrigated Agriculture of the Eastern Nile Basin. *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT*. 2018;144(5). doi:10.1061/(ASCE)WR.1943-5452.0000912
57. Kim U, Kaluarachchi JJ, Smakhtin VU. GENERATION OF MONTHLY PRECIPITATION

UNDER CLIMATE CHANGE FOR THE UPPER BLUE NILE RIVER BASIN, ETHIOPIA. *JOURNAL OF THE AMERICAN WATER RESOURCES ASSOCIATION*. 2008;44(5):1231-1247. doi:10.1111/j.1752-1688.2008.00220.x

58. Alaminie AA, Jury MR. Investigating hydro-climates of the Upper Blue Nile River Basin. *HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES*. 2022;67(2):248-262. doi:10.1080/02626667.2021.2011892
59. Johnson PA, Curtis PD. WATER-BALANCE OF BLUE NILE RIVER BASIN IN ETHIOPIA. *JOURNAL OF IRRIGATION AND DRAINAGE ENGINEERING*. MAY-JUN 1994;120(3):573-590. doi:10.1061/(ASCE)0733-9437(1994)120:3(573)
60. Colakhodzic A. ENVIRONMENTAL SECURITY AND THE ROLE OF RIVER REGIMES IN FOSTERING (ENVIRONMENTAL) COOPERATION: CASE OF THE INTERNATIONAL SAVA RIVER BASIN COMMISSION. In: Lagutov V, ed. *RESCUE OF STURGEON SPECIES IN THE URAL RIVER BASIN*. NATO Science for Peace and Security Series C-Environmental Security. NATO; 2008:5-27.
61. Eldaw AK, Ahmed SE. Watershed Degradation and Sedimentation in Eastern Nile Rivers: Impacts and Sustainable Mitigation Measures. In: Shang H, ed. *PROCEEDINGS OF THE 2ND INTERNATIONAL YELLOW RIVER FORUM ON KEEPING HEALTHY LIFE OF THE RIVER, VOL II*. Yellow River Conservancy Commiss; Global Water Partnership; Asian Dev Bank; Royal Netherlands Embassy, Beijing; Challenge Program Water & Food; China Int Ctr Econ & Tech Exchange; USDA; CPWC; China Inst Water Resources & Hydropower Res; Tsinghua Univ; Nanjing Hydaul Res Inst; Yellow River Water & Hydropower Dev Corp; World Bank; Int Ctr Econ & Cooperat MWR; 2005:41-55.
62. Khadr M. Forecasting of meteorological drought using Hidden Markov Model (case study: The upper Blue Nile river basin, Ethiopia). *AIN SHAMS ENGINEERING JOURNAL*. 2016;7(1):47-56. doi:10.1016/j.asej.2015.11.005
63. Johnston R, Smakhtin V. Hydrological Modeling of Large river Basins: How Much is Enough? *WATER RESOURCES MANAGEMENT*. 2014;28(10):2695-2730. doi:10.1007/s11269-014-0637-8
64. Stewart KM. Fossil Fish from the Nile River and Its Southern Basins. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:677-704.
65. Tariku TB, Gan TY. Regional climate change impact on extreme precipitation and temperature of the Nile river basin. *CLIMATE DYNAMICS*. 2018;51(9-10):3487-3506. doi:10.1007/s00382-018-4092-8
66. Yohannes O. Hydro-politics in the Nile basin: in search of theory beyond realism and neo-liberalism. *JOURNAL OF EASTERN AFRICAN STUDIES*. 2009;3(1):74-93. doi:10.1080/17531050802682788
67. Gebrehiwet K. Hydro-hegemony, an antiquated notion, in the contemporary Nile River basin: the rise of water utilization in up-stream riparian countries. *HELIYON*. 2020;6(9). doi:10.1016/j.heliyon.2020.e04877

68. Le JA, El-Askary HM, Allali M, et al. Characterizing El Nino-Southern Oscillation Effects on the Blue Nile Yield and the Nile River Basin Precipitation using Empirical Mode Decomposition. *EARTH SYSTEMS AND ENVIRONMENT*. 2020;4(4):699-711. doi:10.1007/s41748-020-00192-4
69. Degefu DM, He W, Yuan L, Zhao JH. Water Allocation in Transboundary River Basins under Water Scarcity: a Cooperative Bargaining Approach. *WATER RESOURCES MANAGEMENT*. 2016;30(12):4451-4466. doi:10.1007/s11269-016-1431-6
70. Tedla MG, Rasmy M, Tamakawa K, Selvarajah H, Koike T. Assessment of Climate Change Impacts for Balancing Transboundary Water Resources Development in the Blue Nile Basin. *SUSTAINABILITY*. 2022;14(22). doi:10.3390/su142215438
71. Balthazar V, Vanacker V, Girma A, Poesen J, Golla S. Human impact on sediment fluxes within the Blue Nile and Atbara River basins. *GEOMORPHOLOGY*. 2013;180:231-241. doi:10.1016/j.geomorph.2012.10.013
72. Lin Y, Zhang T, Liu X, Yu J, Li J, Gao K. Dynamic monitoring and modeling of the growth-poverty-inequality trilemma in the Nile River Basin with consistent night-time data (2000-2020). *INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION*. 2022;112. doi:10.1016/j.jag.2022.102903
73. Nigate F, Ayenew T, Belete W, Walraevens K. Overview of the Hydrogeology and Groundwater Occurrence in the Lake Tana Basin, Upper Blue Nile River Basin. In: Stave K, Goshu G, Aynalem S, eds. *SOCIAL AND ECOLOGICAL SYSTEM DYNAMICS: CHARACTERISTICS, TRENDS, AND INTEGRATION IN THE LAKE TANA BASIN, ETHIOPIA*. AESS Interdisciplinary Environmental Studies and Sciences Series. ; 2017:77-91. doi:10.1007/978-3-319-45755-0\_7
74. Conway D. From headwater tributaries to international river: Observing and adapting to climate variability and change in the Nile basin. *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*. 2005;15(2):99-114. doi:10.1016/j.gloenvcha.2005.01.003
75. Onyutha C, Willems P. Space-time variability of extreme rainfall in the River Nile basin. *INTERNATIONAL JOURNAL OF CLIMATOLOGY*. 2017;37(14):4915-4924. doi:10.1002/joc.5132
76. Jemberie MA, Awass AA, Melesse AM, Ayele GT, Demissie SS. Seasonal Rainfall-Runoff Variability Analysis, Lake Tana Sub-Basin, Upper Blue Nile Basin, Ethiopia. In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:341-363. doi:10.1007/978-3-319-18787-7\_17
77. Khennache L, Adamowski J, Kosoy N. The Eastern Nile River Waterscape: The Role of Power in Policy-making and Shaping National Narratives. *INTERNATIONAL NEGOTIATION-A JOURNAL OF THEORY AND PRACTICE*. 2017;22(1):123-161. doi:10.1163/15718069-12341350
78. Duguma TA. RS and GIS analysis of the groundwater potential zones in the Upper Blue Nile River Basin, Ethiopia. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2023;46. doi:10.1016/j.ejrh.2023.101344

79. Demin AP. Distribution of Water Resources: A Case Study of the Transboundary Nile River. *GEOGRAPHY AND NATURAL RESOURCES*. 2015;36(2):198-205. doi:10.1134/S1875372815020134
80. Ismail HAAH, Hong ST, Babiker ATEB, et al. Prevalence, risk factors, and clinical manifestations of schistosomiasis among school children in the White Nile River basin, Sudan. *PARASITES & VECTORS*. 2014;7. doi:10.1186/s13071-014-0478-6
81. Kansara P, Lakshmi V. Water Levels in the Major Reservoirs of the Nile River Basin-A Comparison of SENTINEL with Satellite Altimetry Data. *REMOTE SENSING*. 2022;14(18). doi:10.3390/rs14184667
82. Tawfik R. Changing Hydropolitical Relations in the Nile Basin: A Protracted Transition. *INTERNATIONAL SPECTATOR*. 2016;51(3):67-81. doi:10.1080/03932729.2016.1197496
83. Tan CC, Erfani T, Erfani R. Water for Energy and Food: A System Modelling Approach for Blue Nile River Basin. *ENVIRONMENTS*. 2017;4(1). doi:10.3390/environments4010015
84. Senay GB, Asante K, Artan G. Water balance dynamics in the Nile Basin. *HYDROLOGICAL PROCESSES*. 2009;23(26, SI):3675-3681. doi:10.1002/hyp.7364
85. Ali YSA, Paron P, Crosato A, Mohamed YA. Transboundary sediment transfer from source to sink using a mineralogical analysis. Case study: Roseires Reservoir, blue Nile, Sudan. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2018;16(4):477-491. doi:10.1080/15715124.2017.1411919
86. Georgakakos KP, Tsintikidis D, Attia B, Roskar J. Estimation of pixel-scale daily rainfall over Nile River catchments using multi-spectral METEOSAT data. In: Owe M, Braubaker K, Ritchie J, Rango A, eds. *REMOTE SENSING AND HYDROLOGY 2000*. IAHS PUBLICATION. Int Commis Remote Sensing; Int Assoc Hydrol Sci; 2001:11-15.
87. Dile YT, Srinivasan R. EVALUATION OF CFSR CLIMATE DATA FOR HYDROLOGIC PREDICTION IN DATA-SCARCE WATERSHEDS: AN APPLICATION IN THE BLUE NILE RIVER BASIN. *JOURNAL OF THE AMERICAN WATER RESOURCES ASSOCIATION*. 2014;50(5):1226-1241. doi:10.1111/jawr.12182
88. Tesfaye A. Environmental security, regime building and international law in the Nile Basin. *CANADIAN JOURNAL OF AFRICAN STUDIES*. 2012;46(2):271-287. doi:10.1080/00083968.2012.702087
89. Mengistu D, Bewket W, Lal R. Recent spatiotemporal temperature and rainfall variability and trends over the Upper Blue Nile River Basin, Ethiopia. *INTERNATIONAL JOURNAL OF CLIMATOLOGY*. 2014;34(7):2278-2292. doi:10.1002/joc.3837
90. Mengistu D, Bewket W, Dosio A, Panitz HJ. Climate change impacts on water resources in the Upper Blue Nile (Abay) River Basin, Ethiopia. *JOURNAL OF HYDROLOGY*. 2021;592. doi:10.1016/j.jhydrol.2020.125614
91. Kahsay TN, Kuik O, Brouwer R, Van Der Zaag P. THE ECONOMY-WIDE IMPACTS OF CLIMATE CHANGE AND IRRIGATION DEVELOPMENT IN THE NILE BASIN: A



92. Elganiny MA, Eldwer AE. Enhancing the Forecasting of Monthly Streamflow in the Main Key Stations of the River Nile Basins. *WATER RESOURCES*. 2018;45(5):660-671. doi:10.1134/S0097807818050135
93. Ali M, Ghaith M, Wagdy A, Helmi AM. Development of a New Multivariate Composite Drought Index for the Blue Nile River Basin. *WATER*. 2022;14(6). doi:10.3390/w14060886
94. Abdelmoneim H, Eldardiry H, Saber M, Kantoush SA, Moghazy HM, Sumi T. 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. *GEOCARTO INTERNATIONAL*. 2023;38(1). doi:10.1080/10106049.2023.2197504
95. Pacini N, Donabaum K, de Villeneuve PH, et al. Water-quality management in a vulnerable large river: the Nile in Egypt. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2013;11(2, SI):205-219. doi:10.1080/15715124.2013.781032
96. Gebregiorgis AS, Moges SA, Awulachew SB. Basin Regionalization for the Purpose of Water Resource Development in a Limited Data Situation: Case of Blue Nile River Basin, Ethiopia. *JOURNAL OF HYDROLOGIC ENGINEERING*. 2013;18(10):1349-1359. doi:10.1061/(ASCE)HE.1943-5584.0000730
97. Meresa HK, Gatachew MT. Climate change impact on river flow extremes in the Upper Blue Nile River basin. *JOURNAL OF WATER AND CLIMATE CHANGE*. 2019;10(4):759-781. doi:10.2166/wcc.2018.154
98. Tekleab S, Mohamed Y, Uhlenbrook S. Hydro-climatic trends in the Abay/Upper Blue Nile basin, Ethiopia. *PHYSICS AND CHEMISTRY OF THE EARTH*. 2013;61-62:32-42. doi:10.1016/j.pce.2013.04.017
99. Abebe SA, Qin T, Zhang X, Li C, Yan D. Estimating the Water Budget of the Upper Blue Nile River Basin With Water and Energy Processes (WEP) Model. *FRONTIERS IN EARTH SCIENCE*. 2022;10. doi:10.3389/feart.2022.923252
100. Kahsay TN, Kuik O, Brouwer R, van der Zaag P. The Transboundary Impacts of Trade Liberalization and Climate Change on the Nile Basin Economies and Water Resource Availability. *WATER RESOURCES MANAGEMENT*. 2018;32(3):935-947. doi:10.1007/s11269-017-1847-7
101. Multsch S, Elshamy ME, Batarseh S, Seid AH, Frede HG, Breuer L. Improving irrigation efficiency will be insufficient to meet future water demand in the Nile Basin. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2017;12:315-330. doi:10.1016/j.ejrh.2017.04.007
102. Li P, Wang D, Li W, Liu L. Sustainable water resources development and management in large river basins: an introduction. *ENVIRONMENTAL EARTH SCIENCES*. 2022;81(6). doi:10.1007/s12665-022-10298-9
103. Hasan E, Tarhule A, Kirstetter PE. Twentieth and Twenty-First Century Water Storage Changes

in the Nile River Basin from GRACE/GRACE-FO and Modeling. *REMOTE SENSING*. 2021;13(5). doi:10.3390/rs13050953

104. Talbot MR, Williams MAJ. Cenozoic Evolution of the Nile Basin. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:37-60.
105. Mokria M, Gebrekirstos A, Abiyu A, Braeuning A. Upper Nile River flow reconstructed to AD 1784 from tree-rings for a long-term perspective on hydrologic-extremes and effective water resource management. *QUATERNARY SCIENCE REVIEWS*. 2018;199:126-143. doi:10.1016/j.quascirev.2018.09.011
106. Levy BS, Baecher GB. NileSim: A Windows-based hydrologic simulator of the Nile River basin. *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT*. MAR-APR 1999;125(2):100-106. doi:10.1061/(ASCE)0733-9496(1999)125:2(100)
107. Turhan Y. The hydro-political dilemma in Africa water geopolitics: The case of the Nile river basin. *AFRICAN SECURITY REVIEW*. 2021;30(1):66-85. doi:10.1080/10246029.2020.1844775
108. Hussein H, Grandi M. Dynamic political contexts and power asymmetries: the cases of the Blue Nile and the Yarmouk Rivers. *INTERNATIONAL ENVIRONMENTAL AGREEMENTS-POLITICS LAW AND ECONOMICS*. 2017;17(6):795-814. doi:10.1007/s10784-017-9364-y
109. Amer SE, Arsano Y, El-Battahani A, et al. Sustainable development and international cooperation in the Eastern Nile Basin. *AQUATIC SCIENCES*. 2005;67(1):3-14. doi:10.1007/s00027-004-0764-z
110. Onencan AM, Van de Walle B. Equitable and Reasonable Utilization: Reconstructing the Nile Basin Water Allocation Dialogue. *WATER*. 2018;10(6). doi:10.3390/w10060707
111. Revel M, Ducassou E, Skonieczny C, et al. 20,000 years of Nile River dynamics and environmental changes in the Nile catchment area as inferred from Nile upper continental slope sediments. *QUATERNARY SCIENCE REVIEWS*. 2015;130(SI):200-221. doi:10.1016/j.quascirev.2015.10.030
112. Sun Q, Liu Y, Salem A, et al. Climate-induced discharge variations of the Nile during the Holocene: Evidence from the sediment provenance of Faiyum Basin, north Egypt. *GLOBAL AND PLANETARY CHANGE*. 2019;172:200-210. doi:10.1016/j.gloplacha.2018.10.005
113. Shamseddin AM, Chaibi T. Scanning climate change impacts on water resources of the largest African river basins. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2020;18(1):33-38. doi:10.1080/15715124.2019.1576699
114. Wheeler KG, Hall JW, Abdo GM, et al. Exploring Cooperative Transboundary River Management Strategies for the Eastern Nile Basin. *WATER RESOURCES RESEARCH*. 2018;54(11):9224-9254. doi:10.1029/2017WR022149
115. Butts MB, Buontempo C, Lorup JK, et al. A regional approach to climate adaptation in the Nile Basin. In: Grabs W, Demuth S, eds. *WATER RESOURCES ASSESSMENT AND SEASONAL PREDICTION*. Vol 374. Proceedings of the International Association of Hydrological Sciences

(IAHS). Int Assoc Hydrol Sci; World Meteorol Org; UNESCO; Grp Earth Observat; 2016:3-7. doi:10.5194/piahs-374-3-2016

116. Yilmaz MT, Anderson MC, Zaitchik B, et al. Comparison of prognostic and diagnostic surface flux modeling approaches over the Nile River basin. *WATER RESOURCES RESEARCH*. 2014;50(1):386-408. doi:10.1002/2013WR014194
117. Langman JB. Spatial distribution of delta H-2 and delta O-18 values in the hydrologic cycle of the Nile Basin. *JOURNAL OF ARID LAND*. 2015;7(2):133-145. doi:10.1007/s40333-014-0078-5
118. Li R, El Zain M, van Beek E. Transboundary Water Allocation in the Yellow River and the Nile River: A Comparative Analysis on Water Scarcity and Institutional Aspects. In: Shang HQ, ed. *PROCEEDINGS OF THE 1ST INTERNATIONAL YELLOW RIVER FORUM ON RIVER BASIN MANAGEMENT, VOL IV*. Yellow River Conservancy Commiss; Minist Water Resources; China Int Ctr Econ & Tech Exchange; Xiaolangdi Multiple Purpose Project Construct & Adm Bur; Natl Nat Sci Fdn China; NPC, Legislat Dept Nat & Environm Resources Comm; 2003:472-483.
119. Balli N, Leghouchi E. THE WATER QUALITY OF BOREHOLES NILE RIVER WATERSHED (JIJEL, ALGERIA). In: Lekkas TD, ed. *PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY*. Proceedings of the International Conference on Environmental Science and Technology. Univ Aegean; Global Network Environm Sci & Technol; 2013.
120. Habib S, Zaitchik B, Alo C, Ozdogan M, Anderson M, Policelli F. An Integrated Hydrological and Water Management Study of the Entire Nile River System - Lake Victoria to Nile Delta. In: *2011 IEEE INTERNATIONAL GEOSCIENCE AND REMOTE SENSING SYMPOSIUM (IGARSS)*. IEEE International Symposium on Geoscience and Remote Sensing IGARSS. IEEE; Inst Elect & Elect Engineers Geosci & Remote Sensing Soc (IEEE GRSS); 2011:4359-4362. doi:10.1109/IGARSS.2011.6050197
121. Langgut D. Late Quaternary Nile flows as recorded in the Levantine Basin: The palynological evidence. *QUATERNARY INTERNATIONAL*. 2018;464(A):273-284. doi:10.1016/j.quaint.2017.07.006
122. Gebremichael M, Anagnostou EN, Bitew MM. Critical Steps for Continuing Advancement of Satellite Rainfall Applications for Surface Hydrology in the Nile River Basin1. *JOURNAL OF THE AMERICAN WATER RESOURCES ASSOCIATION*. 2010;46(2):361-366. doi:10.1111/j.1752-1688.2010.00428.x
123. Hirwa H, Zhang Q, Li F, et al. Water Accounting and Productivity Analysis to Improve Water Savings of Nile River Basin, East Africa: From Accountability to Sustainability. *AGRONOMY-BASEL*. 2022;12(4). doi:10.3390/agronomy12040818
124. Abebe WB, Michael TG, Leggesse ES, Beyene BS, Nigate F. Climate of Lake Tana Basin. In: Stave K, Goshu G, Aynalem S, eds. *SOCIAL AND ECOLOGICAL SYSTEM DYNAMICS: CHARACTERISTICS, TRENDS, AND INTEGRATION IN THE LAKE TANA BASIN, ETHIOPIA*. AESS Interdisciplinary Environmental Studies and Sciences Series. ; 2017:51-58. doi:10.1007/978-3-319-45755-0\_5
125. Elshamy M, Di Baldassarre G, van Griensven A. Characterizing Climate Model Uncertainty

Using an Informal Bayesian Framework: Application to the River Nile. *JOURNAL OF HYDROLOGIC ENGINEERING*. 2013;18(5):582-589. doi:10.1061/(ASCE)HE.1943-5584.0000656

126. Abteu W, Dessu SB. The Grand Ethiopian Renaissance Dam on the Blue Nile Introduction. In: *GRAND ETHIOPIAN RENAISSANCE DAM ON THE BLUE NILE*. Springer Geography. ; 2019:1-11. doi:10.1007/978-3-319-97094-3\_1
127. Conway D. The climate and hydrology of the Upper Blue Nile river. *GEOGRAPHICAL JOURNAL*. 2000;166(1):49-62. doi:10.1111/j.1475-4959.2000.tb00006.x
128. Wu X, Whittington D. Incentive compatibility and conflict resolution in international river basins: A case study of the Nile Basin. *WATER RESOURCES RESEARCH*. 2006;42(2). doi:10.1029/2005WR004238
129. Ayele GT, Teshale EZ, Yu B, Rutherford ID, Jeong J. Streamflow and Sediment Yield Prediction for Watershed Prioritization in the Upper Blue Nile River Basin, Ethiopia. *WATER*. 2017;9(10). doi:10.3390/w9100782
130. Kebede S, Abdalla O, Sefelnasr A, Tindimugaya C, Mustafa O. Interaction of surface water and groundwater in the Nile River basin: isotopic and piezometric evidence. *HYDROGEOLOGY JOURNAL*. 2017;25(3):707-726. doi:10.1007/s10040-016-1503-y
131. Nigatu ZM, Fan D, You W. GRACE products and land surface models for estimating the changes in key water storage components in the Nile River Basin. *ADVANCES IN SPACE RESEARCH*. 2021;67(6):1896-1913. doi:10.1016/j.asr.2020.12.042
132. Moritz T, Straube N, Neumann D. The Garra species (Cyprinidae) of the Main Nile basin with description of three new species. *CYBIUM*. 2019;43(4):311-329. doi:10.26028/cybiium/2019-434-002
133. Bhattacharjee PS, Zaitchik BF. Perspectives on CMIP5 model performance in the Nile River headwaters regions. *INTERNATIONAL JOURNAL OF CLIMATOLOGY*. 2015;35(14):4262-4275. doi:10.1002/joc.4284
134. Liu Y, Kou C, Li Y, Li J, Zhu S. Fish Gut Microbiome Analysis Provides Insight into Differences in Physiology and Behavior of Invasive Nile Tilapia and Indigenous Fish in a Large Subtropical River in China. *ANIMALS*. 2023;13(15). doi:10.3390/ani13152413
135. Al-Saidi M, Hefny A. Institutional arrangements for beneficial regional cooperation on water, energy and food priority issues in the Eastern Nile Basin. *JOURNAL OF HYDROLOGY*. 2018;562:821-831. doi:10.1016/j.jhydrol.2018.05.009
136. Mahmoud SH, Gan TY. Multidecadal variability in the Nile River basin hydroclimate controlled by ENSO and Indian Ocean dipole. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2020;748. doi:10.1016/j.scitotenv.2020.141529
137. Amede T, Descheemaeker K, Mapedza E, et al. Livestock-Water Productivity in the Nile Basin: Solutions for Emerging Challenges. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:297-320. doi:10.1007/978-94-007-0689-7\_15

138. Tenfie HW, Saathoff F, Hailu D, Gebissa A. Selection of Representative General Circulation Models for Climate Change Study Using Advanced Envelope-Based and Past Performance Approach on Transboundary River Basin, a Case of Upper Blue Nile Basin, Ethiopia. *SUSTAINABILITY*. 2022;14(4). doi:10.3390/su14042140
139. Mulat AG, Moges SA, Moges MA. Evaluation of multi-storage hydropower development in the upper Blue Nile River (Ethiopia): regional perspective. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2018;16:1-14. doi:10.1016/j.ejrh.2018.02.006
140. Allam MM, Figueroa AJ, McLaughlin DB, Eltahir EAB. Estimation of evaporation over the upper Blue Nile basin by combining observations from satellites and river flow gauges. *WATER RESOURCES RESEARCH*. 2016;52(2):644-659. doi:10.1002/2015WR017251
141. Tariku TB, Gan TY. Sensitivity of the weather research and forecasting model to parameterization schemes for regional climate of Nile River Basin. *CLIMATE DYNAMICS*. 2018;50(11-12):4231-4247. doi:10.1007/s00382-017-3870-z
142. Wolela A. Diagenetic evolution and reservoir potential of the Barremian-Cenomanian Debre Libanose Sandstone, Blue Nile (Abay) Basin, Ethiopia. *CRETACEOUS RESEARCH*. 2012;36:83-95. doi:10.1016/j.cretres.2012.02.007
143. Elhaddad E, Al-Zyoud S. The quality assessment of pollution of Rosetta branch, Nile River, Egypt. *ARABIAN JOURNAL OF GEOSCIENCES*. 2017;10(5). doi:10.1007/s12517-017-2870-y
144. Allam MM, Eltahir EAB. Water-Energy-Food Nexus Sustainability in the Upper Blue Nile (UBN) Basin. *FRONTIERS IN ENVIRONMENTAL SCIENCE*. 2019;7. doi:10.3389/fenvs.2019.00005
145. Onyutha C, Willems P. Influence of spatial and temporal scales on statistical analyses of rainfall variability in the River Nile basin. *DYNAMICS OF ATMOSPHERES AND OCEANS*. 2017;77:26-42. doi:10.1016/j.dynatmoce.2016.10.008
146. Berihun ML, Melesse AM, Zemadim B. Spatiotemporal Variability of Hydrological Variables of Dapo Watershed, Upper Blue Nile Basin, Ethiopia. In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:141-161. doi:10.1007/978-3-319-18787-7\_8
147. Wu X, Jeuland M, Whittington D. Does political uncertainty affect water resources development? The case of the Eastern Nile. *POLICY AND SOCIETY*. 2016;35(2):151-163. doi:10.1016/j.polsoc.2016.07.001
148. Hasan E, Tarhule A. GRACE: Gravity Recovery and Climate Experiment long-term trend investigation over the Nile River Basin: Spatial variability drivers. *JOURNAL OF HYDROLOGY*. 2020;586. doi:10.1016/j.jhydrol.2020.124870
149. Nyeko-Ogiramoi P, Willems P, Mutua FM, Moges SA. An elusive search for regional flood frequency estimates in the River Nile basin. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2012;16(9):3149-3163. doi:10.5194/hess-16-3149-2012

150. Elkollaly M, Khadr M, Zeidan B. Drought analysis in the Eastern Nile basin using the standardized precipitation index. *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. 2018;25(31, SI):30772-30786. doi:10.1007/s11356-016-8347-9
151. Abiy AZ, Melesse AM, Behabtu YM, Abebe B. Groundwater Vulnerability Analysis of the Tana Sub-basin: An Application of DRASTIC Index Method. In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:435-461. doi:10.1007/978-3-319-18787-7\_21
152. Worku G, Teferi E, Bantider A, Dile YT. Modelling hydrological processes under climate change scenarios in the Jemma sub-basin of upper Blue Nile Basin, Ethiopia. *CLIMATE RISK MANAGEMENT*. 2021;31. doi:10.1016/j.crm.2021.100272
153. Tariku TB, Gan TY, Li J, Qin X. Impact of Climate Change on Hydrology and Hydrologic Extremes of Upper Blue Nile River Basin. *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT*. 2021;147(2). doi:10.1061/(ASCE)WR.1943-5452.0001321
154. Ismail EH, Abdelsalam MG. Morpho-tectonic analysis of the Tekeze River and the Blue Nile drainage systems on the Northwestern Plateau, Ethiopia. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2012;69:34-47. doi:10.1016/j.jafrearsci.2012.04.005
155. Bailey RG. GUIDE TO THE FISHES OF THE RIVER NILE IN THE REPUBLIC OF THE SUDAN. *JOURNAL OF NATURAL HISTORY*. JUL-AUG 1994;28(4):937-970. doi:10.1080/00222939400770501
156. Ahmed Y, Al-Faraj F, Scholz M, Soliman A. Assessment of Upstream Human Intervention Coupled with Climate Change Impact for a Transboundary River Flow Regime: Nile River Basin. *WATER RESOURCES MANAGEMENT*. 2019;33(7):2485-2500. doi:10.1007/s11269-019-02256-1
157. Reitberger B, McCartney M. Concepts of Environmental Flow Assessment and Challenges in the Blue Nile Basin, Ethiopia. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:337-358. doi:10.1007/978-94-007-0689-7\_17
158. Seyoum WM. Characterizing water storage trends and regional climate influence using GRACE observation and satellite altimetry data in the Upper Blue Nile River Basin. *JOURNAL OF HYDROLOGY*. 2018;566:274-284. doi:10.1016/j.jhydrol.2018.09.025
159. Goher ME, Ali MHH, El-Sayed SM. Heavy metals contents in Nasser Lake and the Nile River, Egypt: An overview. *EGYPTIAN JOURNAL OF AQUATIC RESEARCH*. 2019;45(4):301-312. doi:10.1016/j.ejar.2019.12.002
160. Tesfaye A, Wolanios N, Brouwer R. Estimation of the economic value of the ecosystem services provided by the Blue Nile Basin in Ethiopia. *ECOSYSTEM SERVICES*. 2016;17:268-277. doi:10.1016/j.ecoser.2015.10.008
161. Neszmelyi GI. Sharing the water runoff of Nile river - regional co-operation or conflict? *TER ES TARSADALOM*. 2014;28(1):99-112. doi:10.17649/TET.28.1.2575
162. Wolela A. Sedimentation and depositional environments of the Barremian-Cenomanian Debre

Libanose Sandstone, Blue Nile (Abay) Basin, Ethiopia. *CRETACEOUS RESEARCH*. 2009;30(5):1133-1145. doi:10.1016/j.cretres.2009.04.002

163. Kasimbazi EB. The impact of colonial agreements on the regulation of the waters of the River Nile. *WATER INTERNATIONAL*. 2010;35(6):718-732. doi:10.1080/02508060.2010.533642
164. Basheer M, Wheeler KG, Ribbe L, Majdalawi M, Abdo G, Zagona EA. Quantifying and evaluating the impacts of cooperation in transboundary river basins on the Water-Energy-Food nexus: The Blue Nile Basin. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2018;630:1309-1323. doi:10.1016/j.scitotenv.2018.02.249
165. Abiy AZ, Demissie SS, MacAlister C, Dessu SB, Melesse AM. Groundwater Recharge and Contribution to the Tana Sub-basin, Upper Blue Nile Basin, Ethiopia. In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:463-481. doi:10.1007/978-3-319-18787-7\_22
166. Chevalier V, Dupressoir A, Tran A, et al. Environmental risk factors of West Nile virus infection of horses in the Senegal River basin. *EPIDEMIOLOGY AND INFECTION*. 2010;138(11):1601-1609. doi:10.1017/S095026881000035X
167. Yitbarek A, Razack M, Ayenew T, Zemedagegnehu E, Azagegn T. Hydrogeological and hydrochemical framework of Upper Awash River basin, Ethiopia: With special emphasis on inter-basins groundwater transfer between Blue Nile and Awash Rivers. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2012;65:46-60. doi:10.1016/j.jafrearsci.2012.01.002
168. Barnes J. The future of the Nile: climate change, land use, infrastructure management, and treaty negotiations in a transboundary river basin. *WILEY INTERDISCIPLINARY REVIEWS-CLIMATE CHANGE*. MAR-APR 2017;8(2). doi:10.1002/wcc.449
169. Moritz T, Neumann D. Description of *Labeo latebra* (Cyprinidae) from the Nile River in Sudan. *CYBIUM*. 2017;41(1):25-33.
170. Moritz T, El Dayem ZN, Abdallah MA, Neumann D. New and rare records of fishes from the White Nile in the Republic of the Sudan. *CYBIUM*. 2019;43(2):137-151. doi:10.26028/cybiurn/2019-423-011
171. Ombadi M, Nguyen P, Sorooshian S, Hsu KL. Retrospective Analysis and Bayesian Model Averaging of CMIP6 Precipitation in the Nile River Basin. *JOURNAL OF HYDROMETEOROLOGY*. 2021;22(1):217-229. doi:10.1175/JHM-D-20-0157.1
172. Rientjes T, Haile AT, Fenta AA. Diurnal rainfall variability over the Upper Blue Nile Basin: A remote sensing based approach. *INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION*. 2013;21:311-325. doi:10.1016/j.jag.2012.07.009
173. Shabaka S, Moawad MN, Ibrahim MIA, et al. Prevalence and risk assessment of microplastics in the Nile Delta estuaries: ``The Plastic Nile'' revisited. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2022;852. doi:10.1016/j.scitotenv.2022.158446
174. Kabsay TN, Arjoon D, Kuik O, Brouwer R, Tilmant A, van der Zaag P. A hybrid partial and general equilibrium modeling approach to assess the hydro-economic impacts of large dams -

The case of the Grand Ethiopian Renaissance Dam in the Eastern Nile River basin. *ENVIRONMENTAL MODELLING & SOFTWARE*. 2019;117:76-88. doi:10.1016/j.envsoft.2019.03.007

175. Obengo JO. Hydropolitics of the Nile: The case of Ethiopia and Egypt. *AFRICAN SECURITY REVIEW*. 2016;25(1):95-103. doi:10.1080/10246029.2015.1126527
176. Awange JL, Forootan E, Kuhn M, Kusche J, Heck B. Water storage changes and climate variability within the Nile Basin between 2002 and 2011. *ADVANCES IN WATER RESOURCES*. 2014;73:1-15. doi:10.1016/j.advwatres.2014.06.010
177. Cascao AE. Ethiopia - Challenges to Egyptian hegemony in the Nile Basin. *WATER POLICY*. 2008;10(2):13-28. doi:10.2166/wp.2008.206
178. Kantoush SA. Effect of Black Hole Dams in the Eastern Nile River Basin: Changes in water quantity and quality of downstream countries. In: Schleiss AJ, DeCesare G, Franca MJ, Pfister M, eds. *RIVER FLOW 2014*. Swiss Fed Off Environm; BG Consulting Engineers; Hydro Exploitat SA; E dric ch; IM & IUB Engn; Basler & Hofmann; AquaVis Engn; Met Flow SA; Int Assoc Hydro Environm Engn & Res, Comm Fluvial Hydraul; Stucky; Groupe E; Patscheider Partner; HydroCosmos SA; Kissling Zbinden AG; Ribl SA; Poyry; Swiss Assoc Water Management; Ecole Polytechnique Federale Lausanne, Lab Hydraul Construct; 2014:1849-1855.
179. Lemann T, Roth V, Zeleke G, Subhatu A, Kassawmar T, Hurni H. Spatial and Temporal Variability in Hydrological Responses of the Upper Blue Nile basin, Ethiopia. *WATER*. 2019;11(1). doi:10.3390/w11010021
180. Abdelmoneim H, Soliman MR, Moghazy HM. Evaluation of TRMM 3B42V7 and CHIRPS Satellite Precipitation Products as an Input for Hydrological Model over Eastern Nile Basin. *EARTH SYSTEMS AND ENVIRONMENT*. 2020;4(4):685-698. doi:10.1007/s41748-020-00185-3
181. Dile YT, Tekleab S, Ayana EK, et al. Advances in water resources research in the Upper Blue Nile basin and the way forward: A review. *JOURNAL OF HYDROLOGY*. 2018;560:407-423. doi:10.1016/j.jhydrol.2018.03.042
182. Ademe Malede D, Alamirew Agumassie T, Kosgei JR, Gebrie Andualem T, Diallo I. Recent Approaches to Climate Change Impacts on Hydrological Extremes in the Upper Blue Nile Basin, Ethiopia. *EARTH SYSTEMS AND ENVIRONMENT*. 2022;6(3):669-679. doi:10.1007/s41748-021-00287-6
183. van Griensven A, Ndomba P, Yalew S, Kilonzo F. Critical review of SWAT applications in the upper Nile basin countries. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2012;16(9):3371-3381. doi:10.5194/hess-16-3371-2012
184. Onyutha C. Variability of seasonal and annual rainfall in the River Nile riparian countries and possible linkages to ocean-atmosphere interactions. *HYDROLOGY RESEARCH*. 2016;47(1):171-184. doi:10.2166/nh.2015.164
185. Williams M. River sediments. *PHILOSOPHICAL TRANSACTIONS OF THE ROYAL SOCIETY A-MATHEMATICAL PHYSICAL AND ENGINEERING SCIENCES*. 2012;370(1966, SI):2093-



186. Metawie AF. History of co-operation in the Nile basin. *INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT*. 2004;20(1):47-63.  
doi:10.1080/07900620310001635601
187. Strzepek KM, Yates DN, ElQuosy DE. Vulnerability assessment of water resources in Egypt to climatic change in the Nile Basin. *CLIMATE RESEARCH*. 1996;6(2):89-95.  
doi:10.3354/cr006089
188. Siam MS, Wang G, Demory ME, Eltahir EAB. Role of the Indian Ocean sea surface temperature in shaping the natural variability in the flow of Nile River. *CLIMATE DYNAMICS*. 2014;43(3-4):1011-1023. doi:10.1007/s00382-014-2132-6
189. Nigussie G, Moges MA, Moges MM, Steenhuis TS. Assessment of Suitable Land for Surface Irrigation in Ungauged Catchments: Blue Nile Basin, Ethiopia. *WATER*. 2019;11(7).  
doi:10.3390/w11071465
190. Wolela A. Sedimentation of the Triassic-Jurassic Adigrat Sandstone Formation, Blue Nile (Abay) Basin, Ethiopia. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2008;52(1-2):30-42.  
doi:10.1016/j.jafrearsci.2008.04.001
191. Elsaka B. Combined observables in different inter-satellite line-of-sight directions from simulated satellite gravity mission architectures for retrieving total water storage - regional case study: the Nile River Basin. *SURVEY REVIEW*. 2022;54(385):339-348.  
doi:10.1080/00396265.2021.1940723
192. Tariku TB, Gan KE, Tan X, Gan TY, Shi H, Tilmant A. Global warming impact to River Basin of Blue Nile and the optimum operation of its multi-reservoir system for hydropower production and irrigation. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2021;767.  
doi:10.1016/j.scitotenv.2020.144863
193. Hanjra MA, Gichuki F. Investments in agricultural water management for poverty reduction in Africa: Case studies of Limpopo, Nile, and Volta river basins. *NATURAL RESOURCES FORUM*. 2008;32(3):185-202. doi:10.1111/j.1477-8947.2008.00191.x
194. Tabari H, Taye MT, Willems P. Statistical assessment of precipitation trends in the upper Blue Nile River basin. *STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT*. 2015;29(7):1751-1761. doi:10.1007/s00477-015-1046-0
195. Betrie GD, van Griensven A, Mohamed YA, Popescu I, Mynett AE, Hummel S. LINKING SWAT AND SOBEK USING OPEN MODELING INTERFACE (OPENMI) FOR SEDIMENT TRANSPORT SIMULATION IN THE BLUE NILE RIVER BASIN. *TRANSACTIONS OF THE ASABE*. SEP-OCT 2011;54(5):1749-1757.
196. Elsaka B, Abdelmohsen K, Alshehri F, Zaki A, El-Ashquer M. Mass Variations in Terrestrial Water Storage over the Nile River Basin and Mega Aquifer System as Deduced from GRACE-FO Level-2 Products and Precipitation Patterns from GPCP Data. *WATER*. 2022;14(23).  
doi:10.3390/w14233920

197. Tegegne G, Melesse AM. Comparison of Trend Preserving Statistical Downscaling Algorithms Toward an Improved Precipitation Extremes Projection in the Headwaters of Blue Nile River in Ethiopia. *ENVIRONMENTAL PROCESSES-AN INTERNATIONAL JOURNAL*. 2021;8(1):59-75. doi:10.1007/s40710-020-00474-z
198. Berhane F, Zaitchik B, Dezfuli A. Subseasonal Analysis of Precipitation Variability in the Blue Nile River Basin. *JOURNAL OF CLIMATE*. 2014;27(1):325-344. doi:10.1175/JCLI-D-13-00094.1
199. Hissen N, Conway D, Goulden MC. Evolving Discourses on Water Resource Management and Climate Change in the Equatorial Nile Basin. *JOURNAL OF ENVIRONMENT & DEVELOPMENT*. 2017;26(2):186-213. doi:10.1177/1070496517696149
200. Kansal ML, Ekadu S. Hydropolitics in Water Governance of the Nile River in Africa. In: Kamojjala S, ed. *WORLD ENVIRONMENTAL AND WATER RESOURCES CONGRESS 2018: INTERNATIONAL PERSPECTIVES, HISTORY AND HERITAGE, EMERGING TECHNOLOGIES, AND STUDENT PAPERS*. Amer Soc Civil Engineers; Amer Soc Civil Engineers, Environm & Water Resources Inst; 2018:277-290.
201. Mishra A, Hata T. A grid-based runoff generation and flow routing model for the Upper Blue Nile basin. *HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES*. 2006;51(2):191-206. doi:10.1623/hysj.51.2.191
202. Takele GS, Gebre GS, Gebremariam AG, Engida AN. Future climate change and impacts on water resources in the Upper Blue Nile basin. *JOURNAL OF WATER AND CLIMATE CHANGE*. 2022;13(2):908-925. doi:10.2166/wcc.2021.235
203. Salman MA. The new state of South Sudan and the hydro-politics of the Nile Basin. *WATER INTERNATIONAL*. 2011;36(2, SI):154-166. doi:10.1080/02508060.2011.557997
204. Zeitoun M, Allan JA (tony), Mohieldeen Y. Virtual water `flows' of the Nile Basin, 1998-2004: A first approximation and implications for water security. *GLOBAL ENVIRONMENTAL CHANGE-HUMAN AND POLICY DIMENSIONS*. 2010;20(2):229-242. doi:10.1016/j.gloenvcha.2009.11.003
205. Vasiliev AM, Elkina EA. Section of the Nile waters: a view through the prism of history. *VOPROSY ISTORII*. 2018;(10):20-28.
206. Onyutha C, Willems P. Investigation of flow-rainfall co-variation for catchments selected based on the two main sources of River Nile. *STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT*. 2018;32(3):623-641. doi:10.1007/s00477-017-1397-9
207. Abseno MM. Role and relevance of the 1997 UN Watercourses Convention in resolving transboundary water disputes in the Nile. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2013;11(2, SI):193-203. doi:10.1080/15715124.2013.811415
208. Cumberlidge N. Freshwater Crabs and Shrimps (Crustacea: Decapoda) of the Nile Basin. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:547-561.

209. Lawson FH. Egypt versus Ethiopia: The Conflict over the Nile Metastasizes. *INTERNATIONAL SPECTATOR*. 2017;52(4):129-144. doi:10.1080/03932729.2017.1333272
210. Yates DN, Strzepek KM. MODELING THE NILE BASIN UNDER CLIMATIC CHANGE. *JOURNAL OF HYDROLOGIC ENGINEERING*. 1998;3(2):98-108. doi:10.1061/(ASCE)1084-0699(1998)3:2(98)
211. Kabite G, Gessesse B. Hydro-geomorphological characterization of Dhidhessa River Basin, Ethiopia. *INTERNATIONAL SOIL AND WATER CONSERVATION RESEARCH*. 2018;6(2):175-183. doi:10.1016/j.iswcr.2018.02.003
212. Awadallah AG. Evolution of the Nile River drought risk based on the streamflow record at Aswan station, Egypt. *CIVIL ENGINEERING AND ENVIRONMENTAL SYSTEMS*. 2014;31(3):260-269. doi:10.1080/10286608.2013.853747
213. Krysanova V, Dickens C, Timmerman J, et al. Cross-Comparison of Climate Change Adaptation Strategies Across Large River Basins in Europe, Africa and Asia. *WATER RESOURCES MANAGEMENT*. 2010;24(14):4121-4160. doi:10.1007/s11269-010-9650-8
214. Adem AA, Tilahun SA, Ayana EK, et al. Climate Change Impact on Sediment Yield in the Upper Gilgel Abay Catchment, Blue Nile Basin, Ethiopia. In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:615-644. doi:10.1007/978-3-319-18787-7\_28
215. Nashwan MS, Shahid S. Spatial distribution of unidirectional trends in climate and weather extremes in Nile river basin. *THEORETICAL AND APPLIED CLIMATOLOGY*. 2019;137(1-2):1181-1199. doi:10.1007/s00704-018-2664-5
216. Goor Q, Halleux C, Mohamed Y, Tilmant A. Optimal operation of a multipurpose multireservoir system in the Eastern Nile River Basin. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2010;14(10):1895-1908. doi:10.5194/hess-14-1895-2010
217. Adem AA, Tilahun SA, Ayana EK, et al. Climate Change Impact on Stream Flow in the Upper Gilgel Abay Catchment, Blue Nile basin, Ethiopia. In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:645-673. doi:10.1007/978-3-319-18787-7\_29
218. Ghoreishi M, Elshorbagy A, Razavi S, Bloeschl G, Sivapalan M, Abdelkader A. Cooperation in a transboundary river basin: a large-scale socio-hydrological model of the Eastern Nile. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2023;27(5):1201-1219. doi:10.5194/hess-27-1201-2023
219. Jung HC, Getirana A, Policelli F, et al. Upper Blue Nile basin water budget from a multi-model perspective. *JOURNAL OF HYDROLOGY*. 2017;555:535-546. doi:10.1016/j.jhydrol.2017.10.040
220. Ding N, Erfani R, Mokhtar H, Erfani T. Agent Based Modelling for Water Resource Allocation in the Transboundary Nile River. *WATER*. 2016;8(4). doi:10.3390/w8040139
221. Shitu Mulat K, Hymiro Tegegne A. Future hydrology of the Upper Blue Nile River basin and its

impact on the Grand Ethiopian Renaissance Dam water resource system: a review. *HYDROLOGICAL SCIENCES JOURNAL*. Published online 2023. doi:10.1080/02626667.2023.2179878

222. Nasr H, Neef A. Ethiopia's Challenge to Egyptian Hegemony in the Nile River Basin: The Case of the Grand Ethiopian Renaissance Dam. *GEOPOLITICS*. 2016;21(4):969-989. doi:10.1080/14650045.2016.1209740
223. Allan JR, Levin N, Jones KR, et al. Navigating the complexities of coordinated conservation along the river Nile. *SCIENCE ADVANCES*. 2019;5(4). doi:10.1126/sciadv.aau7668
224. Van Damme D, Van Bocxlaer B. Freshwater Molluscs of the Nile Basin, Past and Present. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:585-629.
225. Pemunta NV, Ngo NV, Fani Djomo CR, et al. The Grand Ethiopian Renaissance Dam, Egyptian National Security, and human and food security in the Nile River Basin. *COGENT SOCIAL SCIENCES*. 2021;7(1). doi:10.1080/23311886.2021.1875598
226. Barrett CB. THE DEVELOPMENT OF THE NILE HYDROMETEOROLOGICAL FORECAST SYSTEM. *WATER RESOURCES BULLETIN*. NOV-DEC 1993;29(6):933-938.
227. Elshamy ME, Wheeler HS. Performance assessment of a GCM land surface scheme using a fine-scale calibrated hydrological model: an evaluation of MOSES for the Nile Basin. *HYDROLOGICAL PROCESSES*. 2009;23(11):1548-1564. doi:10.1002/hyp.7298
228. Gelete G, Gokcekus H, Gichamo T. Impact of climate change on the hydrology of Blue Nile basin, Ethiopia: a review. *JOURNAL OF WATER AND CLIMATE CHANGE*. 2020;11(4):1539-1550. doi:10.2166/wcc.2019.014
229. Nigatu G, Dinar A. Economic and hydrological impacts of the Grand Ethiopian Renaissance Dam on the Eastern Nile River Basin. *ENVIRONMENT AND DEVELOPMENT ECONOMICS*. 2016;21(4):532-555. doi:10.1017/S1355770X15000352
230. Bastiaanssen WGM, Karimi P, Rebelo LM, et al. Earth Observation Based Assessment of the Water Production and Water Consumption of Nile Basin Agro-Ecosystems. *REMOTE SENSING*. 2014;6(11):10306-10334. doi:10.3390/rs61110306
231. Tassew BG, Belete MA, Miegel K. Assessment and analysis of morphometric characteristics of Lake Tana sub-basin, Upper Blue Nile Basin, Ethiopia. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2023;21(2):195-209. doi:10.1080/15715124.2021.1938091
232. Eldardiry H, Hossain F. The Value of Long-Term Streamflow Forecasts in Adaptive Reservoir Operation: The Case of the High Aswan Dam in the Transboundary Nile River Basin. *JOURNAL OF HYDROMETEOROLOGY*. 2021;22(5):1099-1115. doi:10.1175/JHM-D-20-0241.1
233. Hua L, Yan-xu L, Wen-wu Z, Da P. Soil conservation assessment via climate change and vegetation growth scenarios in the Nile River basin. *JOURNAL OF MOUNTAIN SCIENCE*. 2021;18(4):863-877. doi:10.1007/s11629-020-6304-z

234. Liu C, Walling DE, He Y. Review: The International Sediment Initiative case studies of sediment problems in river basins and their management. *INTERNATIONAL JOURNAL OF SEDIMENT RESEARCH*. 2018;33(2):216-219. doi:10.1016/j.ijsrc.2017.05.005
235. Haiba NSA. Polycyclic Aromatic Hydrocarbons (PAHs) in the River Nile, Egypt: Occurrence and Distribution. *POLYCYCLIC AROMATIC COMPOUNDS*. 2019;39(5):425-433. doi:10.1080/10406638.2017.1340314
236. Caponera DA. LEGAL-ASPECTS OF TRANSBOUNDARY RIVER BASINS IN THE MIDDLE-EAST - THE A1 ASI (ORONTES), THE JORDAN AND THE NILE. *NATURAL RESOURCES JOURNAL*. SUM 1993;33(3):629-663.
237. Getachew B, Manjunatha BR. Impacts of Land-Use Change on the Hydrology of Lake Tana Basin, Upper Blue Nile River Basin, Ethiopia. *GLOBAL CHALLENGES*. 2022;6(8). doi:10.1002/gch2.202200041
238. Abebe SA, Qin T, Yan D, et al. Spatial and Temporal Evaluation of the Latest High-Resolution Precipitation Products over the Upper Blue Nile River Basin, Ethiopia. *WATER*. 2020;12(11). doi:10.3390/w12113072
239. Tronchere H, Goiran JP, Schmitt L, et al. Geoarchaeology of an ancient fluvial harbour: Avaris and the Pelusiatic branch (Nile River, Egypt). *GEOMORPHOLOGIE-RELIEF PROCESSUS ENVIRONNEMENT*. JAN-MAR 2012;(1):23-36. doi:10.4000/geomorphologie.9701
240. Giachetta E, Willett SD. Effects of River Capture and Sediment Flux on the Evolution of Plateaus: Insights From Numerical Modeling and River Profile Analysis in the Upper Blue Nile Catchment. *JOURNAL OF GEOPHYSICAL RESEARCH-EARTH SURFACE*. 2018;123(6):1187-1217. doi:10.1029/2017JF004252
241. Avnaim-Katav S, Almogi-Labin A, Herut B, Kanari M, Guy-Haim T. Benthic foraminifera from the Southeastern Mediterranean shelf: Dead assemblages and living-dead comparisons recording consequences of Nile River damming. *MARINE MICROPALAEONTOLOGY*. 2021;164. doi:10.1016/j.marmicro.2021.101977
242. Ayalew L, Yamagishi H. Slope failures in the Blue Nile basin, as seen from landscape evolution perspective. *GEOMORPHOLOGY*. 2004;57(1-2):95-116. doi:10.1016/S0169-555X(03)00085-0
243. Onyutha C. Statistical analyses of potential evapotranspiration changes over the period 1930-2012 in the Nile River riparian countries. *AGRICULTURAL AND FOREST METEOROLOGY*. 2016;226:80-95. doi:10.1016/j.agrformet.2016.05.015
244. Elsanabary MH, Gan TY. Weekly Streamflow Forecasting Using a Statistical Disaggregation Model for the Upper Blue Nile Basin, Ethiopia. *JOURNAL OF HYDROLOGIC ENGINEERING*. 2015;20(5). doi:10.1061/(ASCE)HE.1943-5584.0001072
245. Pacini N, Harper DM. Hydrological characteristics and water resources management in the Nile Basin. *ECOHYDROLOGY & HYDROBIOLOGY*. 2016;16(4):242-254. doi:10.1016/j.ecohyd.2016.09.001

246. Gebremicael TG, Mohamed YA, van der Zaag P, Hagos EY. Quantifying longitudinal land use change from land degradation to rehabilitation in the headwaters of Tekeze-Atbara Basin, Ethiopia. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2018;622:1581-1589. doi:10.1016/j.scitotenv.2017.10.034
247. Williams MAJ, Talbot MR. Late Quaternary Environments in the Nile Basin. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:61-72.
248. Carmignani L, Salvini R, Bonciani F. Did the Nile River flow to the Gulf of Sirt during the late Miocene? *BOLLETTINO DELLA SOCIETA GEOLOGICA ITALIANA*. 2009;128(2):403-408. doi:10.3301/IJG.2009.128.2.403
249. Alemayehu T, Kebede T, Liu L. Basin characterization and determination of hydraulic connectivity of mega basins using integrated methods: (The case of Baro-Akobo and mega watershed beyond). *JOURNAL OF AFRICAN EARTH SCIENCES*. 2018;137:32-45. doi:10.1016/j.jafrearsci.2017.09.011
250. Digna RF, Castro-Gama ME, van der Zaag P, Mohamed YA, Corzo G, Uhlenbrook S. Optimal Operation of the Eastern Nile System Using Genetic Algorithm, and Benefits Distribution of Water Resources Development. *WATER*. 2018;10(7). doi:10.3390/w10070921
251. Melesse A, Abtew W, Dessalegne T, Wang X. Low and high flow analyses and wavelet application for characterization of the Blue Nile River system. *HYDROLOGICAL PROCESSES*. 2010;24(3):241-252. doi:10.1002/hyp.7312
252. Hussain I, Gichuki F, Louw MA, Andah W, Moustafa M. Agricultural water management pathways to breaking the poverty trap: Case studies of the Limpopo, Nile and Volta river basins. *IRRIGATION AND DRAINAGE*. APR-JUL 2007;56(2):277-288. doi:10.1002/ird.297
253. Sori R, Gimeno-Sotelo L, Nieto R, et al. Oceanic and terrestrial origin of precipitation over 50 major world river basins: Implications for the occurrence of drought. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2023;859(2). doi:10.1016/j.scitotenv.2022.160288
254. Lee YH, Lee JS, Jeoung HG, Kwon IS, Mohamed AAWS, Hong ST. Epidemiological Survey on Schistosomiasis and Intestinal Helminthiasis among Village Residents of the Rural River Basin Area in White Nile State, Sudan. *KOREAN JOURNAL OF PARASITOLOGY*. 2019;57(2):135-144. doi:10.3347/kjp.2019.57.2.135
255. Taye MT, Willems P. Temporal variability of hydroclimatic extremes in the Blue Nile basin. *WATER RESOURCES RESEARCH*. 2012;48. doi:10.1029/2011WR011466
256. Hussein MT. Hydrochemical evaluation of groundwater in the Blue Nile Basin, eastern Sudan, using conventional and multivariate techniques. *HYDROGEOLOGY JOURNAL*. 2004;12(2):144-158. doi:10.1007/s10040-003-0265-5
257. Gebremicael TG, Mohamed YA, Betrie GD, van der Zaag P, Teferi E. Trend analysis of runoff and sediment fluxes in the Upper Blue Nile basin: A combined analysis of statistical tests, physically-based models and landuse maps. *JOURNAL OF HYDROLOGY*. 2013;482:57-68. doi:10.1016/j.jhydrol.2012.12.023

258. Abate M, Nyssen J, Steenhuis TS, et al. Morphological changes of Gumara River channel over 50 years, upper Blue Nile basin, Ethiopia. *JOURNAL OF HYDROLOGY*. 2015;525:152-164. doi:10.1016/j.jhydrol.2015.03.044
259. Beyene T, Lettenmaier DP, Kabat P. Hydrologic impacts of climate change on the Nile River Basin: implications of the 2007 IPCC scenarios. *CLIMATIC CHANGE*. 2010;100(3-4):433-461. doi:10.1007/s10584-009-9693-0
260. Dawoud MA, El Arabi NE, Khater AR, van Wonderen J. Impact of rehabilitation of Assiut barrage, Nile River, on groundwater rise in urban areas. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2006;45(4-5):395-407. doi:10.1016/j.jafrearsci.2006.03.013
261. Whittington D, McClelland E. OPPORTUNITIES FOR REGIONAL AND INTERNATIONAL-COOPERATION IN THE NILE BASIN. *WATER INTERNATIONAL*. 1992;17(3):144-154. doi:10.1080/02508069208686134
262. Berhane S, Zemadim B, Melesse AM. Rainfall-Runoff Processes and Modeling: The Case of Meja Watershed in the Upper Blue Nile Basin of Ethiopia. In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:183-206. doi:10.1007/978-3-319-18787-7\_10
263. Mulatu CA, Crosato A, Moges MM, Langendoen EJ, McClain M. Morphodynamic Trends of the Ribb River, Ethiopia, Prior to Dam Construction. *GEOSCIENCES*. 2018;8(7). doi:10.3390/geosciences8070255
264. Mengistu DT, Sorteberg A. Sensitivity of SWAT simulated streamflow to climatic changes within the Eastern Nile River basin. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2012;16(2):391-407. doi:10.5194/hess-16-391-2012
265. Srinivas R, Singh AP, Jain V, Bhamra RS, Sharma P. Evaluation and Quantification of Pollution Caused by Open Drains in Ganges River Basin Using Multivariate Cluster Analysis. *ASIAN JOURNAL OF WATER ENVIRONMENT AND POLLUTION*. 2020;17(1):75-82. doi:10.3233/AJW200008
266. Uereyen S, Kuenzer C. A Review of Earth Observation-Based Analyses for Major River Basins. *REMOTE SENSING*. 2019;11(24). doi:10.3390/rs11242951
267. Haile AT, Habib E, Elsaadani M, Rientjes T. Inter-comparison of satellite rainfall products for representing rainfall diurnal cycle over the Nile basin. *INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION*. 2013;21:230-240. doi:10.1016/j.jag.2012.08.012
268. Nkwasa A, Chawanda CJ, van Griensven A. Regionalization of the SWAT+ model for projecting climate change impacts on sediment yield: An application in the Nile basin. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2022;42. doi:10.1016/j.ejrh.2022.101152
269. Hasan E, Elshamy M. Application of Hydrological Models for Climate Sensitivity Estimation of the Atbara Sub-basin. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY, CLIMATE AND WATER USE*. ; 2011:227-240. doi:10.1007/978-94-007-0689-7\_11

270. Ewunetu A, Simane B, Teferi E, Zaitchik BF. Mapping and Quantifying Comprehensive Land Degradation Status Using Spatial Multicriteria Evaluation Technique in the Headwaters Area of Upper Blue Nile River. *SUSTAINABILITY*. 2021;13(4). doi:10.3390/su13042244
271. Haregeweyn N, Tsunekawa A, Poesen J, et al. Comprehensive assessment of soil erosion risk for better land use planning in river basins: Case study of the Upper Blue Nile River. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2017;574:95-108. doi:10.1016/j.scitotenv.2016.09.019
272. [Anonymous]. The Nile River: Potential for conflict and cooperation in the face of water degradation. *NATURAL RESOURCES JOURNAL*. SUM 2001;41(3):731-754.
273. Mekonnen DF, Duan Z, Rientjes T, Disse M. Analysis of combined and isolated effects of land-use and land-cover changes and climate change on the upper Blue Nile River basin's streamflow. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2018;22(12):6187-6207. doi:10.5194/hess-22-6187-2018
274. Wedajo GK, Muleta MK, Awoke BG. Impacts of combined and separate land cover and climate changes on hydrologic responses of Dhidhessa River basin, Ethiopia. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. Published online 2022. doi:10.1080/15715124.2022.2101464
275. Scrivner AE, Vance D, Rohling EJ. New neodymium isotope data quantify Nile involvement in Mediterranean anoxic episodes. *GEOLOGY*. 2004;32(7):565-568. doi:10.1130/G20419.1
276. Samy A, Ibrahim MG, Mahmud WE, Fujii M, Eltawil A, Daoud W. Statistical Assessment of Rainfall Characteristics in Upper Blue Nile Basin over the Period from 1953 to 2014. *WATER*. 2019;11(3). doi:10.3390/w11030468
277. Girma A, Yan D, Wang K, et al. Climate Change, Land Use, and Vegetation Evolution in the Upper Huai River Basin. *ATMOSPHERE*. 2023;14(3). doi:10.3390/atmos14030512
278. Enku T, Melesse AM, Ayana EK, Tilahun SA, Zeleke G, Steenhuis TS. Watershed Storage Dynamics in the Upper Blue Nile Basin: The Anjeni Experimental Watershed, Ethiopia. In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:261-277. doi:10.1007/978-3-319-18787-7\_13
279. Bekele TM. A Decade of Regional Confrontation over the Nile Waters: The Strategic Shift from Basin-wide Development to Unilateral and Bilateral Actions in the 1950s. *ARCHIV ORIENTALNI*. 2016;84(1):23-50.
280. Bogale A. Review, impact of land use/cover change on soil erosion in the Lake Tana Basin, Upper Blue Nile, Ethiopia. *APPLIED WATER SCIENCE*. 2020;10(12). doi:10.1007/s13201-020-01325-w
281. Elsayed H, Djordjevic S, Savic DA, Tsoukalas I, Makropoulos C. The Nile Water-Food-Energy Nexus under Uncertainty: Impacts of the Grand Ethiopian Renaissance Dam. *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT*. 2020;146(11). doi:10.1061/(ASCE)WR.1943-5452.0001285



282. Siam MS, Eltahir EAB. Climate change enhances interannual variability of the Nile river flow. *NATURE CLIMATE CHANGE*. 2017;7(5):350+. doi:10.1038/NCLIMATE3273
283. Fentahun A, Mechal A, Karuppannan S. Hydrochemistry and quality appraisal of groundwater in Birr River Catchment, Central Blue Nile River Basin, using multivariate techniques and water quality indices. *ENVIRONMENTAL MONITORING AND ASSESSMENT*. 2023;195(6). doi:10.1007/s10661-023-11198-6
284. Ahmed AA. The Dilemma of the Nile Transboundary Water and the Way Forward. In: Zhaoyin W, Lee JHW, Jizhang G, Shuyou C, eds. *PROCEEDINGS OF THE 35TH IAHR WORLD CONGRESS, VOLS III AND IV*. Minist Water Resources; China Inst Water Resources & Hydropower Res; Sichuan Univ; Tsinghua Univ; Univ Hong Kong; Chengdu Municipal Peoples Govt; 2013:10346-10357.
285. Gonfa KH, Alamirew T, Melesse AM. Hydro-Climatic Variability and Trend Analysis in the Jemma Sub-Basin, Upper Blue Nile River, Ethiopia. *HYDROLOGY*. 2022;9(12). doi:10.3390/hydrology9120209
286. Gebrehiwot SG, Ellison D, Bewket W, Seleshi Y, Inogwabini BI, Bishop K. The Nile Basin waters and the West African rainforest: Rethinking the boundaries. *WILEY INTERDISCIPLINARY REVIEWS-WATER*. JAN-FEB 2019;6(1). doi:10.1002/wat2.1317
287. Fetene ZA, Zaitchik BF, Zeleke TT, Yeshita BD, Recalde-Coronel CG. Influence of the Boreal Summer Intra-Seasonal Oscillation on rainfall in the Blue Nile Basin. *CLIMATE DYNAMICS*. 2021;57(11-12):3433-3445. doi:10.1007/s00382-021-05875-w
288. El Bastawesy M, Gabr S, White K. Hydrology and geomorphology of the Upper White Nile lakes and their relevance for water resources management in the Nile basin. *HYDROLOGICAL PROCESSES*. 2013;27(2):196-205. doi:10.1002/hyp.9216
289. Mulatu CA, Crosato A, Langendoen EJ, Moges MM, McClain ME. Alteration of the Fogera Plain flood regime due to Ribb Dam construction, Upper Blue Nile Basin, Ethiopia. *JOURNAL OF APPLIED WATER ENGINEERING AND RESEARCH*. 2022;10(3):175-196. doi:10.1080/23249676.2021.1961618
290. Roth V, Lemann T, Zeleke G, Subhatu AT, Nigussie TK, Hurni H. Effects of climate change on water resources in the upper Blue Nile Basin of Ethiopia. *HELIYON*. 2018;4(9). doi:10.1016/j.heliyon.2018.e00771
291. Leggesse ES, Beyene BS. Hydrology of Lake Tana Basin. In: Stave K, Goshu G, Aynalem S, eds. *SOCIAL AND ECOLOGICAL SYSTEM DYNAMICS: CHARACTERISTICS, TRENDS, AND INTEGRATION IN THE LAKE TANA BASIN, ETHIOPIA*. AESS Interdisciplinary Environmental Studies and Sciences Series. ; 2017:117-126. doi:10.1007/978-3-319-45755-0\_9
292. Getachew B, Manjunatha BR. Potential climate change impact assessment on the hydrology of the Lake Tana Basin, Upper Blue Nile River Basin, Ethiopia. *PHYSICS AND CHEMISTRY OF THE EARTH*. 2022;127. doi:10.1016/j.pce.2022.103162
293. Williams MAJ. Human Impact on the Nile Basin: Past, Present, Future. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:771-779.

294. Khalifa M, Woods NE, Eltahir EAB. Estimates of Sudan's historical water withdrawals from the Nile. *JOURNAL OF HYDROLOGY*. 2023;624. doi:10.1016/j.jhydrol.2023.129858
295. Onencan A, Enserink B, Van de Walle B, Chelang'a J. Coupling Nile Basin 2050 scenarios with the IPCC 2100 projections for climate-induced risk reduction. In: Vidan A, Shoag D, eds. *HUMANITARIAN TECHNOLOGY: SCIENCE, SYSTEMS AND GLOBAL IMPACT 2016, HUMTECH2016*. Vol 159. Procedia Engineering. ; 2016:357-365. doi:10.1016/j.proeng.2016.08.212
296. Melesse AM, ed. Nile River Basin: Hydrology ,Climate and Water Use. In: *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:1-419. doi:10.1007/978-94-007-0689-7
297. Al-lami AK, Abbood RA, Al Maliki AA, Al-Ansari N. Using vegetation indices for monitoring the spread of Nile Rose plant in the Tigris River within Wasit province, Iraq. *REMOTE SENSING APPLICATIONS-SOCIETY AND ENVIRONMENT*. 2021;22. doi:10.1016/j.rsase.2021.100471
298. Liu H, Liu Y, Wang K, Zhao W. Soil conservation efficiency assessment based on land use scenarios in the Nile River Basin. *ECOLOGICAL INDICATORS*. 2020;119. doi:10.1016/j.ecolind.2020.106864
299. Tuncok IK. Drought planning and management: experience in the Seyhan River Basin, Turkey. *WATER POLICY*. 2016;18(2):177-209. doi:10.2166/wp.2016.019
300. Tessema I, Simane B. Smallholder Farmers' perception and adaptation to climate variability and change in Fincha sub-basin of the Upper Blue Nile River Basin of Ethiopia. *GEOJOURNAL*. 2021;86(4):1767-1783. doi:10.1007/s10708-020-10159-7
301. Sutcliffe JV. The Hydrology of the Nile Basin. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:335-364.
302. Maycumber I, Woodbury M, Seid AH, Alarabawy M. Needs Assessment and Design of a Regional Hydro-Meteorological Monitoring System in the Nile Basin. In: Pathak CS, Reinhart D, eds. *WORLD ENVIRONMENTAL AND WATER RESOURCES CONGRESS 2016: PROFESSIONAL DEVELOPMENT, INNOVATIVE TECHNOLOGY, INTERNATIONAL PERSPECTIVES, AND HISTORY AND HERITAGE*. Amer Soc Civil Engineers, Environm & Water Resources Inst; 2016:134-143.
303. Khadr M. Temporal and spatial analysis of meteorological drought characteristics in the upper Blue Nile river region. *HYDROLOGY RESEARCH*. 2017;48(1):265-276. doi:10.2166/nh.2016.194
304. Haile AT, Rientjes T. Evaluation of regional climate model simulations of rainfall over the Upper Blue Nile basin. *ATMOSPHERIC RESEARCH*. JUL-AUG 2015;161:57-64. doi:10.1016/j.atmosres.2015.03.013
305. Tamesgen Y, Atlabachew A, Jothimani M. Groundwater potential assessment in the Blue Nile River catchment, Ethiopia, using geospatial and multi-criteria decision-making techniques.

306. Basheer M, Elagib NA. Temporal analysis of water-energy nexus indicators for hydropower generation and water pumping in the Lower Blue Nile Basin. *JOURNAL OF HYDROLOGY*. 2019;578. doi:10.1016/j.jhydrol.2019.124085
307. Tekleab S, Mohamed Y, Uhlenbrook S, Wenninger J. Hydrologic responses to land cover change: the case of Jedeb mesoscale catchment, Abay/Upper Blue Nile basin, Ethiopia. *HYDROLOGICAL PROCESSES*. 2014;28(20):5149-5161. doi:10.1002/hyp.9998
308. Lohr H, Abebe M. Coordinated reservoir operation of cascade dams in the Nile basin in a politically sensitive environment. *WASSERWIRTSCHAFT*. 2019;109(5):186-189. doi:10.1007/s35147-019-0073-z
309. Abebe SA, Qin T, Zhang X, Yan D. Wavelet transform-based trend analysis of streamflow and precipitation in Upper Blue Nile River basin. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2022;44. doi:10.1016/j.ejrh.2022.101251
310. El-Tohamy WS, Abdel-Baki SN, Abdel-Aziz NE, Khidr AAA. EVALUATION OF SPATIAL AND TEMPORAL VARIATIONS OF SURFACE WATER QUALITY IN THE NILE RIVER DAMIETTA BRANCH. *ECOLOGICAL CHEMISTRY AND ENGINEERING S-CHEMIA I INZYNIERIA EKOLOGICZNA S*. 2018;25(4):569-580. doi:10.1515/eces-2018-0038
311. Getachew B, Manjunatha BR, Bhat HG. Modeling projected impacts of climate and land use/land cover changes on hydrological responses in the Lake Tana Basin, upper Blue Nile River Basin, Ethiopia. *JOURNAL OF HYDROLOGY*. 2021;595. doi:10.1016/j.jhydrol.2021.125974
312. Macklin MG, Toonen WHJ, Woodward JC, et al. A new model of river dynamics, hydroclimatic change and human settlement in the Nile Valley derived from meta-analysis of the Holocene fluvial archive. *QUATERNARY SCIENCE REVIEWS*. 2015;130(SI):109-123. doi:10.1016/j.quascirev.2015.09.024
313. Dile YT, Berndtsson R, Setegn SG. Hydrological Response to Climate Change for Gilgel Abay River, in the Lake Tana Basin - Upper Blue Nile Basin of Ethiopia. *PLOS ONE*. 2013;8(10). doi:10.1371/journal.pone.0079296
314. Basheer M. Cooperative operation of the Grand Ethiopian Renaissance Dam reduces Nile riverine floods. *RIVER RESEARCH AND APPLICATIONS*. 2021;37(6):805-814. doi:10.1002/rra.3799
315. McCartney MP, Girma MM. Evaluating the downstream implications of planned water resource development in the Ethiopian portion of the Blue Nile River. *WATER INTERNATIONAL*. 2012;37(4, SI):362-379. doi:10.1080/02508060.2012.706384
316. Chakilu GG, Sandor S, Zoltan T. The Dynamics of Hydrological Extremes under the Highest Emission Climate Change Scenario in the Headwater Catchments of the Upper Blue Nile Basin, Ethiopia. *WATER*. 2023;15(2). doi:10.3390/w15020358
317. Khaki M, Awange J, Forootan E, Kuhn M. Understanding the association between climate

variability and the Nile's water level fluctuations and water storage changes during 1992-2016. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2018;645:1509-1521. doi:10.1016/j.scitotenv.2018.07.212

318. Sinta NS, Mohammed AK, Ahmed Z, Dambul R. Evaluation of Satellite Precipitation Estimates Over Omo-Gibe River Basin in Ethiopia. *EARTH SYSTEMS AND ENVIRONMENT*. 2022;6(1):263-280. doi:10.1007/s41748-021-00288-5
319. Hamouda MA, El-Din MMN, Moursy FI. Vulnerability Assessment of Water Resources Systems in the Eastern Nile Basin. *WATER RESOURCES MANAGEMENT*. 2009;23(13):2697-2725. doi:10.1007/s11269-009-9404-7
320. Abebe F. Exclusion vs Cooperation in the Utilisation of Transboundary Watercourses: The Case for Decolonising the Nile Water Agreements. *JOURNAL OF THE HISTORY OF INTERNATIONAL LAW*. 2022;24(2):189-226. doi:10.1163/15718050-BJA10062
321. Duguma TA. Soil erosion risk assessment and treatment priority classification: A case study on guder watersheds, Abay river basin, Oromia, Ethiopia. *HELIYON*. 2022;8(8). doi:10.1016/j.heliyon.2022.e10183
322. Senay GB, Velpuri NM, Bohms S, Demissie Y, Gebremichael M. Understanding the hydrologic sources and sinks in the Nile Basin using multisource climate and remote sensing data sets. *WATER RESOURCES RESEARCH*. 2014;50(11):8625-8650. doi:10.1002/2013WR015231
323. Teweldebrihan MD, Pande S, McClain M. The dynamics of farmer migration and resettlement in the Dhidhessa River Basin, Ethiopia. *HYDROLOGICAL SCIENCES JOURNAL*. 2020;65(12):1985-1993. doi:10.1080/02626667.2020.1789145
324. Zengeya TA, Robertson MP, Booth AJ, Chimimba CT. A qualitative ecological risk assessment of the invasive Nile tilapia, *Oreochromis niloticus* in a sub-tropical African river system (Limpopo River, South Africa). *AQUATIC CONSERVATION-MARINE AND FRESHWATER ECOSYSTEMS*. 2013;23(1):51-64. doi:10.1002/aqc.2258
325. Eldardiry H, Hossain F. Understanding Reservoir Operating Rules in the Transboundary Nile River Basin Using Macroscale Hydrologic Modeling with Satellite Measurements. *JOURNAL OF HYDROMETEOROLOGY*. 2019;20(11):2253-2269. doi:10.1175/JHM-D-19-0058.1
326. Mulat AG, Moges SA. The impacts of Upper Blue Nile Dams construction on agricultural water availability of Sudan. *WATER PRACTICE AND TECHNOLOGY*. 2020;15(2):437-449. doi:10.2166/wpt.2020.031
327. Hoffman C, Melesse AM, McClain ME. Geospatial Mapping and Analysis of Water Availability, Demand, and Use Within the Mara River Basin. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:359-382. doi:10.1007/978-94-007-0689-7\_18
328. Mango LM, Melesse AM, McClain ME, Gann D, Setegn SG. Hydro-Meteorology and Water Budget of the Mara River Basin Under Land Use Change Scenarios. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:39-68. doi:10.1007/978-94-007-0689-7\_2

329. Haghighi AT, Klove B. Development of a general river regime index (RRI) for intra-annual flow variation based on the unit river concept and flow variation end-points. *JOURNAL OF HYDROLOGY*. 2013;503:169-177. doi:10.1016/j.jhydrol.2013.08.041
330. Wagena MB, Sommerlot A, Abiy AZ, et al. Climate change in the Blue Nile Basin Ethiopia: implications for water resources and sediment transport. *CLIMATIC CHANGE*. 2016;139(2):229-243. doi:10.1007/s10584-016-1785-z
331. Ewane BE, Lee HH. Assessing land use/land cover change impacts on the hydrology of Nyong River Basin, Cameroon. *JOURNAL OF MOUNTAIN SCIENCE*. 2020;17(1):50-67. doi:10.1007/s11629-019-5611-8
332. Verhagen J, van der Zaag P, Abraham E. Operational planning of WEF infrastructure: quantifying the value of information sharing and cooperation in the Eastern Nile basin. *ENVIRONMENTAL RESEARCH LETTERS*. 2021;16(8). doi:10.1088/1748-9326/ac1194
333. Boru GF, Gonfa ZB, Diga GM. Impacts of climate change on stream flow and water availability in Anger sub-basin, Nile Basin of Ethiopia. *SUSTAINABLE WATER RESOURCES MANAGEMENT*. 2019;5(4, SI):1755-1764. doi:10.1007/s40899-019-00327-0
334. Krom MD, Stanley JD, Cliff RA, Woodward JC. Nile River sediment fluctuations over the past 7000 yr and their key role in sapropel development. *GEOLOGY*. 2002;30(1):71-74. doi:10.1130/0091-7613(2002)030<0071:NRSFOT>2.0.CO;2
335. Schneiderman JS. DETRITAL OPAQUE OXIDES AS PROVENANCE INDICATORS IN RIVER NILE SEDIMENTS. *JOURNAL OF SEDIMENTARY RESEARCH SECTION A-SEDIMENTARY PETROLOGY AND PROCESSES*. 1995;65(4):668-674.
336. Koukoula M, Nikolopoulos EI, Dokou Z, Anagnostou EN. Evaluation of Global Water Resources Reanalysis Products in the Upper Blue Nile River Basin. *JOURNAL OF HYDROMETEOROLOGY*. 2020;21(5):935-952. doi:10.1175/JHM-D-19-0233.1
337. Toonen WHJ, Graham A, Pennington BT, et al. Holocene fluvial history of the Nile's west bank at ancient Thebes, Luxor, Egypt, and its relation with cultural dynamics and basin-wide hydroclimatic variability. *GEOARCHAEOLOGY-AN INTERNATIONAL JOURNAL*. MAY-JUN 2018;33(3):273-290. doi:10.1002/gea.21631
338. Shehata MA, Al-Ruwaih FM. Quantitative geomorphological analysis of some watersheds on the Eastern Bank of the River Nile with relation to basin hydrogeology, Egypt. *KUWAIT JOURNAL OF SCIENCE & ENGINEERING*. 2005;32(1):195-212.
339. Sreenath SN, Vali AM, Susiarjo G. The Nile River Problematique - An integrated look at the future of Egypt and Ethiopia. *WATER INTERNATIONAL*. 2002;27(4):517-531. doi:10.1080/02508060208687039
340. Tegegne G, Park DK, Kim YO. Comparison of hydrological models for the assessment of water resources in a data-scarce region, the Upper Blue Nile River Basin. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2017;14:49-66. doi:10.1016/j.ejrh.2017.10.002
341. Bastian L, Mologni C, Vigier N, et al. Co-variations of climate and silicate weathering in the

Nile Basin during the Late Pleistocene. *QUATERNARY SCIENCE REVIEWS*. 2021;264. doi:10.1016/j.quascirev.2021.107012

342. Kung R. Addressing the dimensions of transboundary water use - The Nile basin initiative. *MOUNTAIN RESEARCH AND DEVELOPMENT*. 2003;23(1):4-6. doi:10.1659/0276-4741(2003)023[0004:ATDOTW]2.0.CO;2
343. Bogale A. Morphometric analysis of a drainage basin using geographical information system in Gilgel Abay watershed, Lake Tana Basin, upper Blue Nile Basin, Ethiopia. *APPLIED WATER SCIENCE*. 2021;11(7). doi:10.1007/s13201-021-01447-9
344. Fetene ZA, Zaitchik BF, Zeleke TT, Yeshita BD, Vashisht A. Coupled Model Intercomparison Project phase 5 and 6 representation of peak and end of rainy season over Upper Blue Nile basin. *INTERNATIONAL JOURNAL OF CLIMATOLOGY*. 2022;42(16):8489-8508. doi:10.1002/joc.7736
345. Abdalla KMEH. Institutional and legal arrangements in the Nile river basin: suggestions to improve the current situation toward adaptive integrated water resources management. *WATER SCIENCE AND TECHNOLOGY*. 2008;58(10):2031-2040. doi:10.2166/wst.2008.746
346. Abdelmalik KW, Abdelmohsen K. GRACE and TRMM mission: The role of remote sensing techniques for monitoring spatio-temporal change in total water mass, Nile basin. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2019;160. doi:10.1016/j.jafrearsci.2019.103596
347. Dandridge C, Lakshmi V, Bolten J, Srinivasan R. Evaluation of Satellite-Based Rainfall Estimates in the Lower Mekong River Basin (Southeast Asia). *REMOTE SENSING*. 2019;11(22). doi:10.3390/rs11222709
348. Li Y, Huang SL, Domagalski J. Temporal and Spatial Distributions of Water and Sediment Yield in the Luanhe River Basin, China. *JOURNAL OF COASTAL RESEARCH*. SUM 2018;(84):149-162. doi:10.2112/SI84-021.1
349. Tibebe D, Teferi E, Bewket W, Zeleke G. Climate induced water security risks on agriculture in the Abbay river basin: A review. *FRONTIERS IN WATER*. 2022;4. doi:10.3389/frwa.2022.961948
350. Alemu TB, Page JD, Abdelsalam MG, Atnafu B. Stratigraphic controls on the morpho-tectonic evolution of the Nile Gorge, Ethiopia. *ARABIAN JOURNAL OF GEOSCIENCES*. 2019;12(23). doi:10.1007/s12517-019-4816-z
351. Pascual C. POTENTIAL APPLICATIONS OF RADAR ALTIMETRY ON WATER RESOURCES MANAGEMENT IN NILE RIVER. In: *2013 SECOND INTERNATIONAL CONFERENCE ON AGRO-GEOINFORMATICS (AGRO-GEOINFORMATICS)*. International Conference on Agro-Geoinformatics. George Mason Univ; USDA Natl Inst Food & Agr; IEEE Geoscience & Remote Sensing Soc; USDA Natl Agr Stat Serv; Open Geospatial Consortium; Remote Sensing Open Access Journal; Waterborne Environm Inc; Republ Korea, Minist Sci, ICT & Future Planning; Ctr Spatial Informat Sci & Syst; USDA; 2013:36-41.
352. Zhao G, Mu X, Su B, et al. Analysis of streamflow and sediment flux changes in the Yangtze River basin. *WATER INTERNATIONAL*. 2012;37(5, SI):537-551. doi:10.1080/02508060.2012.681442

353. Conway D, Krol M, Alcamo J, Hulme M. Future availability of water in Egypt: The interaction of global, regional, and basin scale driving forces in the Nile Basin. *AMBIO*. 1996;25(5):336-342.
354. Haile AT, Geremew Y, Wassie S, Fekadu AG, Taye MT. Filling streamflow data gaps through the construction of rating curves in the Lake Tana sub-basin, Nile basin. *JOURNAL OF WATER AND CLIMATE CHANGE*. 2023;14(4):1162-1175. doi:10.2166/wcc.2023.372
355. Getachew B, Manjunatha BR, Bhat HG. Spatio-temporal distribution of aerosol optical depth and cloud properties over Lake Tana Basin, Upper Blue Nile River Basin, Ethiopia. *REMOTE SENSING APPLICATIONS-SOCIETY AND ENVIRONMENT*. 2020;20. doi:10.1016/j.rsase.2020.100401
356. Tigoi C, Lwande O, Orindi B, Irura Z, Ongus J, Sang R. Seroepidemiology of Selected Arboviruses in Febrile Patients Visiting Selected Health Facilities in the Lake/River Basin Areas of Lake Baringo, Lake Naivasha, and Tana River, Kenya. *VECTOR-BORNE AND ZOONOTIC DISEASES*. 2015;15(2):124-132. doi:10.1089/vbz.2014.1686
357. Lazin R, Shen X, Koukoula M, Anagnostou E. Evaluation of the Hyper-Resolution Model-Derived Water Cycle Components Over the Upper Blue Nile Basin. *JOURNAL OF HYDROLOGY*. 2020;590. doi:10.1016/j.jhydrol.2020.125231
358. Teweldebrihan MD, Lyu H, Pande S, McClain ME. Smallholder Farmer's Adaptability to Anthropogenic and Climate-Induced Variability in the Dhidhessa River Sub-basin, Ethiopia. *FRONTIERS IN WATER*. 2021;3. doi:10.3389/frwa.2021.735004
359. Lakew HB. Investigating the effectiveness of bias correction and merging MSWEP with gauged rainfall for the hydrological simulation of the upper Blue Nile basin. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2020;32. doi:10.1016/j.ejrh.2020.100741
360. Goshu G, Aynalem S. Problem Overview of the Lake Tana Basin. In: Stave K, Goshu G, Aynalem S, eds. *SOCIAL AND ECOLOGICAL SYSTEM DYNAMICS: CHARACTERISTICS, TRENDS, AND INTEGRATION IN THE LAKE TANA BASIN, ETHIOPIA*. AESS Interdisciplinary Environmental Studies and Sciences Series. ; 2017:9-23. doi:10.1007/978-3-319-45755-0\_2
361. Kempkey N, Pinard M, Pochat V, Dinar A. Negotiations Over Water and Other Natural Resources in the La Plata River Basin: A Model for Other Transboundary Basins? *INTERNATIONAL NEGOTIATION-A JOURNAL OF THEORY AND PRACTICE*. 2009;14(2):253-279. doi:10.1163/157180609X432824
362. Gleason CJ, Hamdan AN. Crossing the (watershed) divide: satellite data and the changing politics of international river basins. *GEOGRAPHICAL JOURNAL*. 2017;183(1):2-15. doi:10.1111/geoj.12155
363. Adeba D, Kansal ML, Sen S. Economic evaluation of the proposed alternatives of inter-basin water transfer from the Baro Akobo to Awash basin in Ethiopia. *SUSTAINABLE WATER RESOURCES MANAGEMENT*. 2016;2(3):313-330. doi:10.1007/s40899-016-0058-3
364. Getahun M, Adgo E, Atalay A. Impacts of Irrigation on Soil Characteristics in Selected

Irrigation Schemes in the Upper Blue Nile Basin. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY, CLIMATE AND WATER USE.* ; 2011:383-399. doi:10.1007/978-94-007-0689-7\_19

365. Abazeed A. Heterogeneity of Water Justice and the Question of Nile Solidarity. *AGRARIAN SOUTH-JOURNAL OF POLITICAL ECONOMY.* 2023;12(2, SI):187-205. doi:10.1177/22779760231170530
366. Ali YSA, Crosato A, Mohamed YA, Wright NG, Roelvink JA. Water resource assessment along the Blue Nile River, north Africa with a one-dimensional model. *PROCEEDINGS OF THE INSTITUTION OF CIVIL ENGINEERS-WATER MANAGEMENT.* 2014;167(7):394-413. doi:10.1680/wama.13.00020
367. Collins RO. Negotiations and exploitation of the Nile waters at the end of the millennium - A water forum contribution. *WATER INTERNATIONAL.* 2006;31(1):116-126. doi:10.1080/02508060608691921
368. Dumont HJ. A Description of the Nile Basin, and a Synopsis of Its History, Ecology, Biogeography, Hydrology, and Natural Resources. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE.* Vol 89. Monographiae Biologicae. ; 2009:1-21.
369. Li XY, Ding YJ, Han TD, et al. Seasonal variations of organic carbon and nitrogen in the upper basins of Yangtze and Yellow Rivers. *JOURNAL OF MOUNTAIN SCIENCE.* 2017;14(8):1577-1590. doi:10.1007/s11629-016-4354-z
370. Woodward J, Macklin M, Fielding L, et al. Shifting sediment sources in the world's longest river: A strontium isotope record for the Holocene Nile. *QUATERNARY SCIENCE REVIEWS.* 2015;130(SI):124-140. doi:10.1016/j.quascirev.2015.10.040
371. Gagnevin D, Tyrrell S, Morton AC, et al. Sand supply to the Lake Albert Basin (Uganda) during the Miocene-Pliocene: A multiproxy provenance approach. *GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS.* 2017;18(6):2133-2148. doi:10.1002/2016GC006650
372. Mekonnen DF, Disse M. Analyzing the future climate change of Upper Blue Nile River basin using statistical downscaling techniques. *HYDROLOGY AND EARTH SYSTEM SCIENCES.* 2018;22(4):2391-2408. doi:10.5194/hess-22-2391-2018
373. Temesgen M, Uhlenbrook S, Simane B, et al. Impacts of conservation tillage on the hydrological and agronomic performance of Fanya juus in the upper Blue Nile (Abbay) river basin. *HYDROLOGY AND EARTH SYSTEM SCIENCES.* 2012;16(12):4725-4735. doi:10.5194/hess-16-4725-2012
374. Woldeesenbet TA, Elagib NA, Ribbe L, Heinrich J. Hydrological responses to land use/cover changes in the source region of the Upper Blue Nile Basin, Ethiopia. *SCIENCE OF THE TOTAL ENVIRONMENT.* 2017;575:724-741. doi:10.1016/j.scitotenv.2016.09.124
375. Fanos AM, Khafagy AA, Dean RG. PROTECTIVE WORKS ON THE NILE DELTA COAST. *JOURNAL OF COASTAL RESEARCH.* SPR 1995;11(2):516-528.



376. Chimdessa K, Quraishi S, Kebede A, Alamirew T. Effect of Land Use Land Cover and Climate Change on River Flow and Soil Loss in Didessa River Basin, South West Blue Nile, Ethiopia. *HYDROLOGY*. 2019;6(1). doi:10.3390/hydrology6010002
377. Betrie GD, Mohamed YA, van Griensven A, Srinivasan R. Sediment management modelling in the Blue Nile Basin using SWAT model. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2011;15(3):807-818. doi:10.5194/hess-15-807-2011
378. Lazin R, Shen X, Moges S, Anagnostou E. The role of Renaissance dam in reducing hydrological extremes in the Upper Blue Nile Basin: Current and future climate scenarios. *JOURNAL OF HYDROLOGY*. 2023;616. doi:10.1016/j.jhydrol.2022.128753
379. Amognehegn AE, Nigussie AB, Ayalew DW, Abera FF, Ayana M. Evaluating climate change impact on the hydrology of Kessie Watershed, Upper Blue Nile Basin, Ethiopia. *APPLIED WATER SCIENCE*. 2023;13(7). doi:10.1007/s13201-023-01947-w
380. Gohar AA, Ward FA. Gains from expanded irrigation water trading in Egypt: An integrated basin approach. *ECOLOGICAL ECONOMICS*. 2010;69(12):2535-2548. doi:10.1016/j.ecolecon.2010.07.030
381. Nigatu ZM, Fan D, You W, Melesse AM. Hydroclimatic Extremes Evaluation Using GRACE/GRACE-FO and Multidecadal Climatic Variables over the Nile River Basin. *REMOTE SENSING*. 2021;13(4). doi:10.3390/rs13040651
382. Assefa WW, Eneyew BG, Wondie A. The driving forces of wetland degradation in Bure and Wonberma Woredas, Upper Blue Nile basin, Ethiopia. *ENVIRONMENTAL MONITORING AND ASSESSMENT*. 2022;194(11). doi:10.1007/s10661-022-10516-8
383. Singh R, Tsigaridis K, LeGrande AN, Ludlow F, Manning JG. Investigating hydroclimatic impacts of the 168-158 BCE volcanic quartet and their relevance to the Nile River basin and Egyptian history. *CLIMATE OF THE PAST*. 2023;19(1):249-275. doi:10.5194/cp-19-249-2023
384. Kusak M, Kropacek J, Vilimek V, Schillaci C. ANALYSIS OF THE INFLUENCE OF TECTONICS ON THE EVOLUTION OF VALLEY NETWORKS BASED ON SRTM DEM, JEMMA RIVER BASIN, ETHIOPIA. *GEOGRAFIA FISICA E DINAMICA QUATERNARIA*. 2016;39(1):37-50. doi:10.4461/GFDQ.2016.39.4
385. Abdelwares M, Lelieveld J, Hadjinicolaou P, Zittis G, Wagdy A, Haggag M. Evaluation of A Regional Climate Model for the Eastern Nile Basin: Terrestrial and Atmospheric Water Balance. *ATMOSPHERE*. 2019;10(12). doi:10.3390/atmos10120736
386. Dessie M, Verhoest NEC, Pauwels VRN, et al. Analyzing runoff processes through conceptual hydrological modeling in the Upper Blue Nile Basin, Ethiopia. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2014;18(12):5149-5167. doi:10.5194/hess-18-5149-2014
387. Yenehun A, Dessie M, Azeze M, et al. Water Resources Studies in Headwaters of the Blue Nile Basin: A Review with Emphasis on Lake Water Balance and Hydrogeological Characterization. *WATER*. 2021;13(11). doi:10.3390/w13111469
388. van der Zaag P, Juizo D, Vilanculos A, Bolding A, Uiterweer NP. Does the Limpopo River

Basin have sufficient water for massive irrigation development in the plains of Mozambique? *PHYSICS AND CHEMISTRY OF THE EARTH*. 2010;35(13-14, SI):832-837. doi:10.1016/j.pce.2010.07.026

389. Leta MK, Ebsa DG, Regasa MS. Parameter Uncertainty Analysis for Streamflow Simulation Using SWAT Model in Nashe Watershed, Blue Nile River Basin, Ethiopia. *APPLIED AND ENVIRONMENTAL SOIL SCIENCE*. 2022;2022. doi:10.1155/2022/1826942
390. Broich M, Tulbure MG. RESPONSE OF RIPARIAN VEGETATION IN AUSTRALIA'S LARGEST RIVER BASIN TO INTER AND INTRA-ANNUAL CLIMATE VARIABILITY AND FLOODING AS QUANTIFIED WITH LANDSAT AND MODIS. In: Halounova L, Safar V, Raju PLN, et al., eds. *XXIII ISPRS CONGRESS, COMMISSION VIII*. Vol 41. International Archives of the Photogrammetry Remote Sensing and Spatial Information Sciences. Int Soc Photogrammetry & Remote Sensing; 2016:577+. doi:10.5194/isprsarchives-XLI-B8-577-2016
391. Abdelkader A, Haggag M, Hamed K, Radwan HG. Assessment of the Impacts of Proposed Water Resources Development Projects in Baro-Akobo-Sobat Basin on Nile Inflows at High Aswan Dam. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2023;46. doi:10.1016/j.ejrh.2023.101335
392. Ismail EH, Rogers JD, Ahmed MF, Usery EL, Abdelsalam MG. Landslide susceptibility mapping of Blue Nile and Tekeze River Basins using oblique rainfall-aspect rasters. *BULLETIN OF ENGINEERING GEOLOGY AND THE ENVIRONMENT*. 2018;77(4):1311-1329. doi:10.1007/s10064-017-1033-4
393. Polanco EI, Fleifle A, Ludwig R, Disse M. Improving SWAT model performance in the upper Blue Nile Basin using meteorological data integration and subcatchment discretization. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2017;21(9):4907-4926. doi:10.5194/hess-21-4907-2017
394. Dellapenna JW. Rivers as legal structures: The examples of the Jordan and the Nile. *NATURAL RESOURCES JOURNAL*. SPR 1996;36(2, 1):217-250.
395. Mendonca dos Santos F, Proenca de Oliveira R, Augusto Di Lollo J. Effects of Land Use Changes on Streamflow and Sediment Yield in Atibaia River Basin-SP, Brazil. *WATER*. 2020;12(6). doi:10.3390/w12061711
396. Williams K, Chamberlain J, Buontempo C, Bain C. Regional climate model performance in the Lake Victoria basin. *CLIMATE DYNAMICS*. 2015;44(5-6):1699-1713. doi:10.1007/s00382-014-2201-x
397. Jonoski A, Seid AH. Decision Support in Water Resources Planning and Management: The Nile Basin Decision Support System. In: Papatheodorou G, Ploskas N, Linden I, eds. *REAL-WORLD DECISION SUPPORT SYSTEMS: CASE STUDIES*. Vol 37. Integrated Series in Information Systems. ; 2016:199-222. doi:10.1007/978-3-319-43916-7\_9
398. Mousouliotis AG, Albanakis K, Georgakopoulos A, Papatheodorou G, Tripsanas EK, Medvedev B. Pre-salt clastic systems in the Herodotus Basin, SE Mediterranean Sea. *MARINE AND PETROLEUM GEOLOGY*. 2020;122. doi:10.1016/j.marpetgeo.2020.104691
399. Goharian E, Shaltout M, Erfani M, Eladawy A. Developing an Optimized Policy Tree-Based

Reservoir Operation Model for High Aswan Dam Reservoir, Nile River. *WATER*. 2022;14(7). doi:10.3390/w14071061

400. Yimere A, Assefa E. Current and Future Irrigation Water Requirement and Potential in the Abbay River Basin, Ethiopia. *AIR SOIL AND WATER RESEARCH*. 2022;15. doi:10.1177/11786221221097929
401. Chebud YA, Melesse AM. Numerical modeling of the groundwater flow system of the Gumera sub-basin in Lake Tana basin, Ethiopia. *HYDROLOGICAL PROCESSES*. 2009;23(26, SI):3694-3704. doi:10.1002/hyp.7516
402. Azagegn T, Asrat A, Ayenew T, Kebede S. Litho-structural control on interbasin groundwater transfer in central Ethiopia. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2015;101:383-395. doi:10.1016/j.jafrearsci.2014.10.008
403. Taye MT, Ntegeka V, Ogiramoi NP, Willems P. Assessment of climate change impact on hydrological extremes in two source regions of the Nile River Basin. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2011;15(1):209-222. doi:10.5194/hess-15-209-2011
404. Haile AT, Akawka AL, Berhanu B, Rientjes T. Changes in water availability in the Upper Blue Nile basin under the representative concentration pathways scenario. *HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES*. 2017;62(13):2139-2149. doi:10.1080/02626667.2017.1365149
405. Bayissa Y, Moges S, Melesse A, Tadesse T, Abiy AZ, Worqlul A. Multi-Dimensional Drought Assessment in Abbay/Upper Blue Nile Basin: The Importance of Shared Management and Regional Coordination Efforts for Mitigation. *REMOTE SENSING*. 2021;13(9). doi:10.3390/rs13091835
406. Ewunetu A, Simane B, Teferi E, Zaitchik BF. Land Cover Change in the Blue Nile River Headwaters: Farmers' Perceptions, Pressures, and Satellite-Based Mapping. *LAND*. 2021;10(1). doi:10.3390/land10010068
407. Goshu G, Koelmans AA, de Klein JJM. Water Quality of Lake Tana Basin, Upper Blue Nile, Ethiopia. A Review of Available Data. In: Stave K, Goshu G, Aynalem S, eds. *SOCIAL AND ECOLOGICAL SYSTEM DYNAMICS: CHARACTERISTICS, TRENDS, AND INTEGRATION IN THE LAKE TANA BASIN, ETHIOPIA*. AESS Interdisciplinary Environmental Studies and Sciences Series. ; 2017:127-141. doi:10.1007/978-3-319-45755-0\_10
408. Lemma H, Nyssen J, Frankl A, Poesen J, Adgo E, Billi P. Bedload transport measurements in the Gilgel Abay River, Lake Tana Basin, Ethiopia. *JOURNAL OF HYDROLOGY*. 2019;577. doi:10.1016/j.jhydrol.2019.123968
409. El-Rawy M, Moghazy HE, Eltarabily MG. Impacts of decreasing Nile flow on the Nile Valley aquifer in El-Minia Governorate, Egypt. *ALEXANDRIA ENGINEERING JOURNAL*. 2021;60(2):2179-2192. doi:10.1016/j.aej.2020.12.037
410. Dessu SB, Melesse AM. Impact and uncertainties of climate change on the hydrology of the Mara River basin, Kenya/Tanzania. *HYDROLOGICAL PROCESSES*. 2013;27(20):2973-2986. doi:10.1002/hyp.9434

411. Ilkbahar H, Mercan MH. Hydro-Hegemony, Counter-Hegemony and Neoclassical Realism on the Nile Basin: An Analysis of Egypt's Response to the Grand Ethiopian Renaissance Dam (GERD). *JOURNAL OF ASIAN AND AFRICAN STUDIES*. Published online 2023. doi:10.1177/00219096231188953
412. Abebe BA, Mulat AG. Analysis of planform changes of the lower reach of Gilgel Abay River Upper Blue Nile Basin, Ethiopia, using remote sensing and GIS. *APPLIED GEOMATICS*. 2021;13(4):817-836. doi:10.1007/s12518-021-00394-z
413. Macklin MG, Lewin J. The rivers of civilization. *QUATERNARY SCIENCE REVIEWS*. 2015;114:228-244. doi:10.1016/j.quascirev.2015.02.004
414. Dawit M, Dinka MO, Leta OT, Muluneh FB. Impact of Climate Change on Land Suitability for the Optimization of the Irrigation System in the Anger River Basin, Ethiopia. *CLIMATE*. 2020;8(9). doi:10.3390/cli8090097
415. Mahmouda HM, Hamouda AS, Nassar HF, Mabrook F. Spatio-temporal Variation and Health Risk Assessment of Selected Metals in Nile River Water, Beni-Suef Governorate-Egypt. *RESEARCH JOURNAL OF PHARMACEUTICAL BIOLOGICAL AND CHEMICAL SCIENCES*. SEP-OCT 2016;7(5):2555-2567.
416. Mamilov NS, Konyshaev TG, Belyaev AI, Vasil'eva ED. Exotic Fish Species in the Balkhash Lake Basin (Kazakhstan). *INLAND WATER BIOLOGY*. 2022;15(1):84-87. doi:10.1134/S1995082922010084
417. Tola SY, Shetty A. Land cover change and its implication to hydrological regimes and soil erosion in Awash River basin, Ethiopia: a systematic review. *ENVIRONMENTAL MONITORING AND ASSESSMENT*. 2021;193(12). doi:10.1007/s10661-021-09599-6
418. Teshome DS, Leta MK, Taddese H, et al. Watershed Hydrological Responses to Land Cover Changes at Muger Watershed, Upper Blue Nile River Basin, Ethiopia. *WATER*. 2023;15(14). doi:10.3390/w15142533
419. El-Sheekh M. River Nile Pollutants and Their Effect on Life Forms and Water Quality. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:395-405.
420. Shigute M, Alamirew T, Abebe A, Ndehedehe CE, Kassahun HT. Understanding Hydrological Processes under Land Use Land Cover Change in the Upper Genale River Basin, Ethiopia. *WATER*. 2022;14(23). doi:10.3390/w14233881
421. Eissa F, Al-Sisi M, Ghanem K. Occurrence, human health, and ecotoxicological risk assessment of pesticides in surface waters of the River Nile's Rosetta Branch, Egypt. *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. 2021;28(39):55511-55525. doi:10.1007/s11356-021-14911-5
422. Bayissa Y, Maskey S, Tadesse T, et al. Comparison of the Performance of Six Drought Indices in Characterizing Historical Drought for the Upper Blue Nile Basin, Ethiopia. *GEOSCIENCES*. 2018;8(3). doi:10.3390/geosciences8030081

423. Simons G, Bastiaanssen W, Ngo LA, Hain CR, Anderson M, Senay G. Integrating Global Satellite-Derived Data Products as a Pre-Analysis for Hydrological Modelling Studies: A Case Study for the Red River Basin. *REMOTE SENSING*. 2016;8(4). doi:10.3390/rs8040279
424. Sallam OM. Water footprints as an indicator for the equitable utilization of shared water resources (Case study: Egypt and Ethiopia shared water resources in Nile Basin). *JOURNAL OF AFRICAN EARTH SCIENCES*. 2014;100:645-655. doi:10.1016/j.jafrearsci.2014.08.007
425. Abotalib AZ, Abdelhady AA, Heggy E, et al. Irreversible and Large-Scale Heavy Metal Pollution Arising From Increased Damming and Untreated Water Reuse in the Nile Delta. *EARTHS FUTURE*. 2023;11(3). doi:10.1029/2022EF002987
426. Witte F, van Oijen MJP, Sibbing FA. Fish Fauna of the Nile. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:647-675.
427. Dawit M, Olika BD, Muluneh FB, Leta OT, Dinka MO. Assessment of Surface Irrigation Potential of the Dhidhessa River Basin, Ethiopia. *HYDROLOGY*. 2020;7(3). doi:10.3390/hydrology7030068
428. Attu GAT, Frimpong EA, Hallerman EM. Defining Management Units for Wild Nile Tilapia *Oreochromis niloticus* from Nine River Basins in Ghana. *DIVERSITY-BASEL*. 2022;14(2). doi:10.3390/d14020073
429. Twisa S, Kazumba S, Kurian M, Buchroithner ME. Evaluating and Predicting the Effects of Land Use Changes on Hydrology in Wami River Basin, Tanzania. *HYDROLOGY*. 2020;7(1). doi:10.3390/hydrology7010017
430. Ren W, Wu X, Yang J, Luo L, Liang S, Yang H. Water pollution characteristics of inflowing rivers under different land-use patterns in the Daye Lake basin: pollution mode and management suggestions. *ENVIRONMENTAL MONITORING AND ASSESSMENT*. 2022;194(1). doi:10.1007/s10661-021-09667-x
431. Hurni H, Tato K, Zeleke G. The implications of changes in population, land use, and land management for surface runoff in the upper Nile Basin area of Ethiopia. *MOUNTAIN RESEARCH AND DEVELOPMENT*. 2005;25(2):147-154. doi:10.1659/0276-4741(2005)025[0147:TIOCIP]2.0.CO;2
432. Tekleab S, Uhlenbrook S, Savenije HHG, Mohamed Y, Wenninger J. Modelling rainfall-runoff processes of the Chemoga and Jedeb meso-scale catchments in the Abay/Upper Blue Nile basin, Ethiopia. *HYDROLOGICAL SCIENCES JOURNAL*. 2015;60(11, SI):2029-2046. doi:10.1080/02626667.2015.1032292
433. Chen Z, Xu H, Wang Y. Ecological Degradation of the Yangtze and Nile Delta-Estuarines in Response to Dam Construction with Special Reference to Monsoonal and Arid Climate Settings. *WATER*. 2021;13(9). doi:10.3390/w13091145
434. Zhao X, Liu Y, Salem A, et al. Migration of the Intertropical Convergence Zone in North Africa during the Holocene: Evidence from variations in quartz grain roundness in the lower Nile valley, Egypt. *QUATERNARY INTERNATIONAL*. 2017;449:22-28. doi:10.1016/j.quaint.2017.06.036

435. Poppe L, Frankl A, Poesen J, et al. Geomorphology of the Lake Tana basin, Ethiopia. *JOURNAL OF MAPS*. 2013;9(3):431-437. doi:10.1080/17445647.2013.801000
436. Gezie A, Goshu G, Tiku S. Ecological effect of a small dam on the macroinvertebrate assemblage and water quality of Koga River, Northwest Ethiopia. *HELIYON*. 2023;9(6). doi:10.1016/j.heliyon.2023.e17285
437. Abdelkareem M, Ghoneim E, El-Baz F, Askalany M. New insight on paleoriver development in the Nile basin of the eastern Sahara. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2012;62(1):35-40. doi:10.1016/j.jafrearsci.2011.09.001
438. Gad M, Saleh AH, Hussein H, Elsayed S, Farouk M. Water Quality Evaluation and Prediction Using Irrigation Indices, Artificial Neural Networks, and Partial Least Square Regression Models for the Nile River, Egypt. *WATER*. 2023;15(12). doi:10.3390/w15122244
439. Arjoon D, Tilmant A, Herrmann M. Sharing water and benefits in transboundary river basins. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2016;20(6):2135-2150. doi:10.5194/hess-20-2135-2016
440. Senent-Aparicio J, Liu S, Perez-Sanchez J, Lopez-Ballesteros A, Jimeno-Saez P. Assessing Impacts of Climate Variability and Reforestation Activities on Water Resources in the Headwaters of the Segura River Basin (SE Spain). *SUSTAINABILITY*. 2018;10(9). doi:10.3390/su10093277
441. Ahmad I, Dar MA, Andualem TG, Teka AH. GIS-based multi-criteria evaluation of groundwater potential of the Beshilo River basin, Ethiopia. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2020;164. doi:10.1016/j.jafrearsci.2019.103747
442. Mohamed MAH, El-Mahdy MES. Evaluation of climate change impact on extreme temperature variability in the Blue Nile Basin, Ethiopia. *GEOSCIENTIFIC INSTRUMENTATION METHODS AND DATA SYSTEMS*. 2021;10(1):45-54. doi:10.5194/gi-10-45-2021
443. Menot G, Pivot S, Bouloubassi I, et al. Timing and stepwise transitions of the African Humid Period from geochemical proxies in the Nile deep-sea fan sediments. *QUATERNARY SCIENCE REVIEWS*. 2020;228. doi:10.1016/j.quascirev.2019.106071
444. Andualem TG, Kassa M, Demeke GG, et al. Grand Ethiopian Renaissance Dam and hydrologic hegemony over Abbay Basin. *SUSTAINABLE WATER RESOURCES MANAGEMENT*. 2021;7(6). doi:10.1007/s40899-021-00568-y
445. Elsanabary MH, Gan TY. Evaluation of climate anomalies impacts on the Upper Blue Nile Basin in Ethiopia using a distributed and a lumped hydrologic model. *JOURNAL OF HYDROLOGY*. 2015;530:225-240. doi:10.1016/j.jhydrol.2015.09.052
446. Nguvava M, Abiodun BJ, Otieno F. Projecting drought characteristics over East African basins at specific global warming levels. *ATMOSPHERIC RESEARCH*. 2019;228:41-54. doi:10.1016/j.atmosres.2019.05.008
447. Al-Saidi M, Elagib NA, Ribbe L, Schellenberg T, Roach E, Oezhan D. Water-Energy-Food

Security Nexus in the Eastern Nile Basin: Assessing the Potential of Transboundary Regional Cooperation. In: Salam PA, Shrestha S, Pandey VP, Anal AK, eds. *WATER-ENERGY-FOOD NEXUS: PRINCIPLES AND PRACTICES*. Vol 229. Geophysical Monograph Book Series. ; 2017:103-116.

448. Conway D, Brooks N, Briffa KR, Merrin PD. Historical climatology and dendroclimatology in the Blue Nile River Basin, northern Ethiopia. In: Servat E, Hughes D, Fritsch JM, Hulme M, eds. *WATER RESOURCES VARIABILITY IN AFRICA DURING THE XXTH CENTURY*. IAHS Publication. ORSTOM, Paris; Swiss Acad Sci, Bern; Tropenbos Fdn, Wageningen; African Assoc Hydrol; Int Assoc Hydrol Sci; French Cooperat; World Meteorol Org; French Inst Sci Res Dev Cooperat; European Union; UNESCO, Int Hydrol Programme; 1998:243-251.
449. Kebede S, Travi Y, Alemayehu T, Ayenew T. Groundwater recharge, circulation and geochemical evolution in the source region of the Blue Nile River, Ethiopia. *APPLIED GEOCHEMISTRY*. 2005;20(9):1658-1676. doi:10.1016/j.apgeochem.2005.04.016
450. Ahmed SM. Climatic Change Impacts on Growing Degree Days and Climatologically Suitable Cropping Areas in the Eastern Nile Basin. *AGRICULTURAL RESEARCH*. 2021;10(1):72-82. doi:10.1007/s40003-020-00476-1
451. Keshta E, Gad MA, Amin D. A Long-Term Response-Based Rainfall-Runoff Hydrologic Model: Case Study of The Upper Blue Nile. *HYDROLOGY*. 2019;6(3). doi:10.3390/hydrology6030069
452. Ebrahim GY, Jonoski A, van Griensven A, Di Baldassarre G. Downscaling technique uncertainty in assessing hydrological impact of climate change in the Upper Beles River Basin, Ethiopia. *HYDROLOGY RESEARCH*. 2013;44(2):377-398. doi:10.2166/nh.2012.037
453. Asitatie AN, Gebeyehu WZ. Assessment of hydrology and optimal water allocation under changing climate conditions: the case of Megech river sub basin reservoir, Upper Blue Nile Basin, Ethiopia. *MODELING EARTH SYSTEMS AND ENVIRONMENT*. 2021;7(4):2629-2642. doi:10.1007/s40808-020-01024-0
454. Elshamy ME, Seierstad IA, Sorteberg A. Impacts of climate change on Blue Nile flows using bias-corrected GCM scenarios. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2009;13(5):551-565. doi:10.5194/hess-13-551-2009
455. Awoke GW, Brees J, Vancampenhout K, et al. Factors controlling floodplain sediment storage in two tropical upland river catchments in the Lake Tana basin, Ethiopia. *CATENA*. 2022;219. doi:10.1016/j.catena.2022.106573
456. Williams M. RIVER RESPONSE TO CLIMATE CHANGE IN THE TROPICS: A THREE HUNDRED THOUSAND YEAR HISTORY OF THE NILE. In: Daniels JA, ed. *ADVANCES IN ENVIRONMENTAL RESEARCH, VOL 4*. Vol 4. Advances in Environmental Research-Nova. ; 2010:39-59.
457. Alemu AM, Seleshi Y, Meshesha TW. Modeling the spatial and temporal availability of water resources potential over Abbay river basin, Ethiopia. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2022;44. doi:10.1016/j.ejrh.2022.101280
458. Mahran T, Hassan AM. Controls on Late Miocene to Early Quaternary continental

sedimentation during the development of the Sohag basin, Nile Valley, Egypt. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2023;199. doi:10.1016/j.jafrearsci.2023.104829

459. Block P, Rajagopalan B. Interannual variability and ensemble forecast of upper Blue Nile basin Kiremt season precipitation. *JOURNAL OF HYDROMETEOROLOGY*. 2007;8(3):327-343. doi:10.1175/JHM580.1
460. Fan Z, Jinfang Y, Hailing L, Fang G. Harmony, Coincidence and Symbiosis-Primary Ideology on River's Ethical Value. In: Shang HQ, Luo XX, eds. *PROCEEDINGS OF THE 4TH INTERNATIONAL YELLOW RIVER FORUM ON ECOLOGICAL CIVILIZATION AND RIVER ETHICS, VOL III*. EU, China River Basin Management Program; World Wide Fund Nat; Australian Agcy Int Dev; Int Network Basin Org; Global Water Partnership; Int Water Resources Assoc; Dongying Municipal Govt Shandong Prov; Zhengzhou Municipal Govt Henan Prov; Int Econ Tech Cooperat & Exchange Ctr; Yellow River Res Assoc; Henan Multi; N China Univ Water Conversancy & Elect Power; China Inst Water Resources & Hydropower Res; Nanjing Hydraul Res Inst; Ctr Hydro, Informat River Basin; 2010:273+.
461. Krysanova V, Buiteveld H, Haase D, et al. Practices and Lessons Learned in Coping with Climatic Hazards at the River-Basin Scale: Floods and Droughts. *ECOLOGY AND SOCIETY*. 2008;13(2).
462. Issawi B, Sallam ES. Rejuvenation of dry paleochannels in arid regions in NE Africa: a geological and geomorphological study. *ARABIAN JOURNAL OF GEOSCIENCES*. 2017;10(1). doi:10.1007/s12517-016-2793-z
463. Ramadan EM, Shalash OS, Fahmy MR, Abdel-Aal GM. Integrated water resource management in Sharkia Governorate, East Nile Delta using numerical evaluation of water management strategies. *ALEXANDRIA ENGINEERING JOURNAL*. 2019;58(2):757-771. doi:10.1016/j.aej.2019.06.006
464. Krysanova V, Vetter T, Eisner S, et al. Intercomparison of regional-scale hydrological models and climate change impacts projected for 12 large river basins worldwide-a synthesis. *ENVIRONMENTAL RESEARCH LETTERS*. 2017;12(10). doi:10.1088/1748-9326/aa8359
465. Degefu DM, He W. Allocating Water under Bankruptcy Scenario. *WATER RESOURCES MANAGEMENT*. 2016;30(11):3949-3964. doi:10.1007/s11269-016-1403-x
466. Singh A, Dieye A, Finco M. Assessing environmental conditions of major river basins in Africa as surrogates for watershed health. *ECOSYSTEM HEALTH*. 1999;5(4):265-274. doi:10.1046/j.1526-0992.1999.09945.x
467. Gvirtzman Z, Reshef M, Buch-Leviatan O, et al. Bathymetry of the Levant basin: interaction of salt-tectonics and surficial mass movements. *MARINE GEOLOGY*. 2015;360:25-39. doi:10.1016/j.margeo.2014.12.001
468. Omer HMAM. Evaluation of groundwater quality in Dongula basin: the Northern state of Sudan. In: Brebbia CA, ed. *WATER POLLUTION XI*. Vol 164. WIT Transactions on Ecology and the Environment. WIT Transact Ecol & Environm; Int Journal Sustainable Dev & Planning; Int Journal Computat Methods & Expt Measurements; 2012:67-78. doi:10.2495/WP120061
469. Haile AT, Rientjes T, Gieske A, Gebremichael M. Rainfall Variability over Mountainous and



Adjacent Lake Areas: The Case of Lake Tana Basin at the Source of the Blue Nile River. *JOURNAL OF APPLIED METEOROLOGY AND CLIMATOLOGY*. 2009;48(8):1696-1717. doi:10.1175/2009JAMC2092.1

470. Gebremicael TG, Deitch MJ, Gancel HN, et al. Satellite-based rainfall estimates evaluation using a parsimonious hydrological model in the complex climate and topography of the Nile River Catchments. *ATMOSPHERIC RESEARCH*. 2022;266. doi:10.1016/j.atmosres.2021.105939
471. Elsayed H, Djordjevic S, Savic D, Tsoukalas I, Makropoulos C. Water-food-energy nexus for transboundary cooperation in Eastern Africa. *WATER SUPPLY*. 2022;22(4):3567-3587. doi:10.2166/ws.2022.001
472. Robi MA, Abebe A, Pingale SM. Flood hazard mapping under a climate change scenario in a Ribb catchment of Blue Nile River basin, Ethiopia. *APPLIED GEOMATICS*. 2019;11(2):147-160. doi:10.1007/s12518-018-0249-8
473. Abdelsalam NM, Aziz MS, Agrama AA. Quantitative and Financial Impacts of Nile River Inflow Reduction on Hydropower and Irrigation in Egypt. In: Salame C, Aillerie M, Papageorgas P, eds. *TECHNOLOGIES AND MATERIALS FOR RENEWABLE ENERGY, ENVIRONMENT AND SUSTAINABILITY (TMREES14 - EUMISD)*. Vol 50. Energy Procedia. Euro Mediterranean Inst Sustainable Dev; 2014:652-661. doi:10.1016/j.egypro.2014.06.080
474. Morrissey A, Scholz CA. Paleohydrology of Lake Turkana and its influence on the Nile River system. *PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY*. 2014;403:88-100. doi:10.1016/j.palaeo.2014.03.029
475. Awotwi A, Anornu GK, Quaye-Ballard JA, et al. Water balance responses to land-use/land-cover changes in the Pra River Basin of Ghana, 1986-2025. *CATENA*. 2019;182. doi:10.1016/j.catena.2019.104129
476. Vijverberg J, Sibbing FA, Dejen E. Lake Tana: Source of the Blue Nile. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:163-192.
477. Basheer M, Nechifor V, Calzadilla A, et al. Cooperative adaptive management of the Nile River with climate and socio-economic uncertainties. *NATURE CLIMATE CHANGE*. 2023;13(1):48+. doi:10.1038/s41558-022-01556-6
478. Alemayehu T, Kebede S, Liu L, Kebede T. Basin hydrogeological characterization using remote sensing, hydrogeochemical and isotope methods (the case of Baro-Akobo, Eastern Nile, Ethiopia). *ENVIRONMENTAL EARTH SCIENCES*. 2017;76(13). doi:10.1007/s12665-017-6773-8
479. Tola SY, Shetty A. Quantification of change in land cover and rainfall variability impact on flood hydrology using a hydrological model in the Ethiopian river basin. *ENVIRONMENTAL EARTH SCIENCES*. 2023;82(10). doi:10.1007/s12665-023-10929-9
480. Negatu TA, Zimale FA, Steenhuis TS. Establishing Stage-Discharge Rating Curves in Developing Countries: Lake Tana Basin, Ethiopia. *HYDROLOGY*. 2022;9(1). doi:10.3390/hydrology9010013

481. Kemp GP, Day JW, Rogers JD, Giosan L, Peyronnin N. Enhancing mud supply from the Lower Missouri River to the Mississippi River Delta USA: Dam bypassing and coastal restoration. *ESTUARINE COASTAL AND SHELF SCIENCE*. 2016;183(B, SI):304-313. doi:10.1016/j.ecss.2016.07.008
482. Gebrehiwot SG, Bewket W, Bishop K. Community perceptions of forest-water relationships in the Blue Nile Basin of Ethiopia. *GEOJOURNAL*. 2014;79(5):605-618. doi:10.1007/s10708-013-9519-5
483. Khairy WM. Distributive analysis of soil loss in the Abbay River Basin in Ethiopia after watershed management interventions. *MODELING EARTH SYSTEMS AND ENVIRONMENT*. 2022;8(3):3231-3246. doi:10.1007/s40808-021-01278-2
484. Todd MC, Barrett EC, Beaumont MJ, Bellerby TJ. Estimation of daily rainfall over the upper Nile river basin using a continuously calibrated satellite infrared technique. *METEOROLOGICAL APPLICATIONS*. 1999;6(3):201-210. doi:10.1017/S1350482799001206
485. Abiye TA, Mmayi P. GROUNDWATER AS A VIABLE RESOURCE UNDER CLIMATE CHANGE IN THE NILE BASIN:A RAPID HYDRO GEOLOGICAL ASSESSMENT. *SOUTH AFRICAN JOURNAL OF GEOLOGY*. 2014;117(1):97-108. doi:10.2113/gssajg.117.1.97
486. Asres RS, Tilahun SA, Ayele GT, Melesse AM. Analyses of Land Use/Land Cover Change Dynamics in the Upland Watersheds of Upper Blue Nile Basin. In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:73-91. doi:10.1007/978-3-319-18787-7\_5
487. Lakshmi V, Fayne J, Bolten J. A comparative study of available water in the major river basins of the world. *JOURNAL OF HYDROLOGY*. 2018;567:510-532. doi:10.1016/j.jhydrol.2018.10.038
488. Abdelkareem M, El-Baz F. Mode of formation of the Nile Gorge in northern Egypt: a study by DEM-SRTM data and GIS analysis. *GEOLOGICAL JOURNAL*. SEP-OCT 2016;51(5):760-778. doi:10.1002/gj.2687
489. Zeitoun M, Goulden M, Tickner D. Current and future challenges facing transboundary river basin management. *WILEY INTERDISCIPLINARY REVIEWS-CLIMATE CHANGE*. 2013;4(5):331-349. doi:10.1002/wcc.228
490. Abbas MM, Salih AMA, Elkhider AM, Hamid SH. Using satellite rainfall data to estimate direct flow. *DESALINATION AND WATER TREATMENT*. 2020;176:139-147. doi:10.5004/dwt.2020.25510
491. Melesse MA, Bagyaraj M, Fentahun TM, Alamiraw YG. Aquifer characterization and groundwater flow dynamics in the upper left bank of Jemma River catchment, Blue Nile Basin, Ethiopia. *ARABIAN JOURNAL OF GEOSCIENCES*. 2020;13(13). doi:10.1007/s12517-020-05542-0
492. Mohammed J, Mengiste Y, Singh VP. Improving spatio-temporal precipitation estimates in data scarce river basins: an application of machine learning-based multi-source data merging.

493. Haile AT, Habib E, Rientjes T. Evaluation of the climate prediction center (CPC) morphing technique (CMORPH) rainfall product on hourly time scales over the source of the Blue Nile River. *HYDROLOGICAL PROCESSES*. 2013;27(12):1829-1839. doi:10.1002/hyp.9330
494. Entahabu HH, Minale AS, Birhane E. Modeling and Predicting Land Use/Land Cover Change Using the Land Change Modeler in the Suluh River Basin, Northern Highlands of Ethiopia. *SUSTAINABILITY*. 2023;15(10). doi:10.3390/su15108202
495. Day J, Goodman R, Chen Z, Hunter R, Giosan L, Wang Y. Deltas in Arid Environments. *WATER*. 2021;13(12). doi:10.3390/w13121677
496. Tomojiri D, Musikasinthorn P, Iwata A. Food habits of three non-native cichlid fishes in the lowermost Chao Phraya River basin, Thailand. *JOURNAL OF FRESHWATER ECOLOGY*. 2019;34(1):419-432. doi:10.1080/02705060.2019.1585392
497. Mumbi AW, Fengting L. Exploring changes in water use patterns, demand and stress along the Nile River Basin through the lens of Kenya and Egypt. *MARINE AND FRESHWATER RESEARCH*. 2020;71(11):1478-1487. doi:10.1071/MF19396
498. Steenhuis TS, Collick AS, Easton ZM, et al. Predicting discharge and sediment for the Abay (Blue Nile) with a simple model. *HYDROLOGICAL PROCESSES*. 2009;23(26, SI):3728-3737. doi:10.1002/hyp.7513
499. Demelash A, Atlabachew A, Jothimani M, Abebe A. Hydrogeochemical Characterization and Appraisal of Groundwater Quality in Yisr River Catchment, Blue Nile River Basin, Ethiopia, by Using the GIS, WQI, and Statistical Techniques. *JOURNAL OF CHEMISTRY*. 2023;2023. doi:10.1155/2023/8199000
500. Ramadan EM, Abdelwahab HF, Vranayova Z, Zelenakova M, Negm AM. Optimization-Based Proposed Solution for Water Shortage Problems: A Case Study in the Ismailia Canal, East Nile Delta, Egypt. *WATER*. 2021;13(18). doi:10.3390/w13182481
501. Taye M, Simane B, Zaitchik BF, Selassie YG, Setegn S. Land Use Evaluation over the Jema Watershed, in the Upper Blue Nile River Basin, Northwestern Highlands of Ethiopia. *LAND*. 2019;8(3). doi:10.3390/land8030050
502. Sanchez N, Gupta J. RECENT CHANGES IN THE NILE REGION MAY CREATE AN OPPORTUNITY FOR A MORE EQUITABLE SHARING OF THE NILE RIVER WATERS. *NETHERLANDS INTERNATIONAL LAW REVIEW*. 2011;58(3):363-385. doi:10.1017/S0165070X11300034
503. Uhlenbrook S, Mohamed Y, Gagne AS. Analyzing catchment behavior through catchment modeling in the Gilgel Abay, Upper Blue Nile River Basin, Ethiopia. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2010;14(10):2153-2165. doi:10.5194/hess-14-2153-2010
504. Wu DD, Anagnostou EN, Wang G, Moges S, Zampieri M. Improving the surface-ground water interactions in the Community Land Model: Case study in the Blue Nile Basin. *WATER*

505. Cherinet AA, Yan D, Wang H, et al. Impacts of Recent Climate Trends and Human Activity on the Land Cover Change of the Abbay River Basin in Ethiopia. *ADVANCES IN METEOROLOGY*. 2019;2019. doi:10.1155/2019/5250870
506. Savage HM, Kothera L. THE CULEX PIPIENS COMPLEX IN THE MISSISSIPPI RIVER BASIN: IDENTIFICATION, DISTRIBUTION, AND BLOODMEAL HOSTS. *JOURNAL OF THE AMERICAN MOSQUITO CONTROL ASSOCIATION*. 2012;28(4, S):93-99. doi:10.2987/8756-971X-28.4.93
507. Molle F, Gaafar I, El-Agha DE, Rap E. The Nile delta's water and salt balances and implications for management. *AGRICULTURAL WATER MANAGEMENT*. 2018;197:110-121. doi:10.1016/j.agwat.2017.11.016
508. Woldetsadik TK. International Watercourses Law in the Nile River Basin: Three States at a Crossroads. In: *INTERNATIONAL WATERCOURSES LAW IN THE NILE RIVER BASIN: THREE STATES AT A CROSSROADS*. ; 2013:1-301.
509. Stanley DJ, Chen ZY. DISTINGUISHING SAND FACIES IN THE NILE DELTA, EGYPT, BY STAINED GRAIN AND COMPOSITIONAL COMPONENT ANALYSES. *JOURNAL OF COASTAL RESEARCH*. SUM 1991;7(3):863-877.
510. Abera W, Brocca L, Rigon R. Comparative evaluation of different satellite rainfall estimation products and bias correction in the Upper Blue Nile (UBN) basin. *ATMOSPHERIC RESEARCH*. 2016;178:471-483. doi:10.1016/j.atmosres.2016.04.017
511. Kingston DG, Taylor RG. Sources of uncertainty in climate change impacts on river discharge and groundwater in a headwater catchment of the Upper Nile Basin, Uganda. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2010;14(7):1297-1308. doi:10.5194/hess-14-1297-2010
512. Todd MC, Barrett EC, Beaumont MJ, Green JL. SATELLITE IDENTIFICATION OF RAIN DAYS OVER THE UPPER NILE RIVER BASIN USING AN OPTIMUM INFRARED RAIN NO-RAIN THRESHOLD TEMPERATURE MODEL. *JOURNAL OF APPLIED METEOROLOGY*. 1995;34(12):2600-2611. doi:10.1175/1520-0450(1995)034<2600:SIORDO>2.0.CO;2
513. Woube M. ENVIRONMENTAL DEGRADATION ALONG THE BLUE-NILE RIVER BASIN. *AMBIO*. 1994;23(8):519-520.
514. Marriner N, Flaux C, Kaniewski D, et al. ITCZ and ENSO-like pacing of Nile delta hydro-geomorphology during the Holocene. *QUATERNARY SCIENCE REVIEWS*. 2012;45:73-84. doi:10.1016/j.quascirev.2012.04.022
515. Goshu G, Aynalem S, Damtie B, Stave K. Research Needs in the Lake Tana Basin Social-Ecological System. In: Stave K, Goshu G, Aynalem S, eds. *SOCIAL AND ECOLOGICAL SYSTEM DYNAMICS: CHARACTERISTICS, TRENDS, AND INTEGRATION IN THE LAKE TANA BASIN, ETHIOPIA*. AESS Interdisciplinary Environmental Studies and Sciences Series. ; 2017:631-646. doi:10.1007/978-3-319-45755-0\_35

516. Setegn SG, Srinivasan R, Dargahi B, Melesse AM. Spatial delineation of soil erosion vulnerability in the Lake Tana Basin, Ethiopia. *HYDROLOGICAL PROCESSES*. 2009;23(26, SI):3738-3750. doi:10.1002/hyp.7476
517. Yue H, Gebremichael M, Nourani V. Evaluation of Global Forecast System (GFS) Medium-Range Precipitation Forecasts in the Nile River Basin. *JOURNAL OF HYDROMETEOROLOGY*. 2022;23(1):101-116. doi:10.1175/JHM-D-21-0110.1
518. Teferi E, Uhlenbrook S, Bewket W, Wenninger J, Simane B. The use of remote sensing to quantify wetland loss in the Choke Mountain range, Upper Blue Nile basin, Ethiopia. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2010;14(12):2415-2428. doi:10.5194/hess-14-2415-2010
519. Geressu RT, Harou JJ. Screening reservoir systems by considering the efficient trade-offs-informing infrastructure investment decisions on the Blue Nile. *ENVIRONMENTAL RESEARCH LETTERS*. 2015;10(12). doi:10.1088/1748-9326/10/12/125008
520. Elbeltagi A, Kumari N, Dharpure JK, et al. Prediction of Combined Terrestrial Evapotranspiration Index (CTEI) over Large River Basin Based on Machine Learning Approaches. *WATER*. 2021;13(4). doi:10.3390/w13040547
521. Saleh EA, Nassar AMK, Amer HH. Organochlorine pesticide residues in raw and grilled freshwater fish (*Oreochromis niloticus*) collected from various locations along the Nile basin in Egypt. *ENVIRONMENTAL MONITORING AND ASSESSMENT*. 2021;193(10). doi:10.1007/s10661-021-09455-7
522. Leta MK, Demissie TA, Traenckner J. Optimal Operation of Nashe Hydropower Reservoir under Land Use Land Cover Change in Blue Nile River Basin. *WATER*. 2022;14(10). doi:10.3390/w14101606
523. Bukhari H, Brown CA. A comparative review of decision support tools routinely used by selected transboundary River Basin Organisations. *AFRICAN JOURNAL OF AQUATIC SCIENCE*. 2022;47(3, SI):318-337. doi:10.2989/16085914.2021.1976610
524. Yactayo W, Ramirez DA, German T, et al. Improving potato cultivation using siphons for partial root-zone drying irrigation: A case study in the Blue Nile river basin, Ethiopia. *OPEN AGRICULTURE*. 2017;2(1):255-259. doi:10.1515/opag-2017-0028
525. Bookman R, Mor-Federman T, Herut B, et al. Development of the Nile Littoral Cell during the past 8.2 kyr. *QUATERNARY SCIENCE REVIEWS*. 2021;274. doi:10.1016/j.quascirev.2021.107262
526. Ayana EK, Steenhuis TS. Can Watershed Models Aid in Determining Historic Lake Sediment Concentrations in Data-Scarce Areas? In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:819-833. doi:10.1007/978-3-319-18787-7\_36
527. Walker BL, Naugle DE, Doherty KE, Cornish TE. From the field: Outbreak of West Nile virus in greater sage-grouse and guidelines for monitoring, handling, and submitting dead birds. *WILDLIFE SOCIETY BULLETIN*. FALL 2004;32(3):1000-1006. doi:10.2193/0091-7648(2004)032[1000:FTFOOW]2.0.CO;2

528. Ward MP, Wittich CA, Fosgate G, Srinivasan R. Environmental risk factors for equine West Nile virus disease cases in Texas. *VETERINARY RESEARCH COMMUNICATIONS*. 2009;33(5):461-471. doi:10.1007/s11259-008-9192-1
529. Abdelmoneim H, Eldardiry H, Moghazy HM, Eladawy A. Inferring the joint operation of high Aswan dam and Toshka depression using multi-sensor satellite approach. *GEOCARTO INTERNATIONAL*. 2022;37(26):14088-14104. doi:10.1080/10106049.2022.2086632
530. Golubtsov AS, Berendzen PB. Morphological evidence for the occurrence of two electric catfish (*Malapterurus*) species in the White Nile and Omo-Turkana systems (East Africa). *JOURNAL OF FISH BIOLOGY*. 1999;55(3):492-505. doi:10.1006/jfbi.1999.1016
531. Lind CE, Agyakwah SK, Attipoe FY, Nugent C, Crooijmans RPMA, Toguyeni A. Genetic diversity of Nile tilapia (*Oreochromis niloticus*) throughout West Africa. *SCIENTIFIC REPORTS*. 2019;9. doi:10.1038/s41598-019-53295-y
532. Badawy WM, Dului OG, Frontasyeva MV, El Samman H, Faanhof A. Environmental radioactivity of soils and sediments: Egyptian sector of the Nile valley. *ISOTOPES IN ENVIRONMENTAL AND HEALTH STUDIES*. 2018;54(5):535-547. doi:10.1080/10256016.2018.1482292
533. Hemachandra CK, Pathiratne A. Bioassessment of the Effluents Discharged from Two Export Oriented Industrial Zones Located in Kelani River Basin, Sri Lanka Using Erythrocytic Responses of the Fish, Nile Tilapia (*Oreochromis niloticus*). *BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY*. 2017;99(4):481-487. doi:10.1007/s00128-017-2156-9
534. Susnik J, Vamvakeridou-Lyroudia LS, Gebert N, et al. INTERDISCIPLINARY ASSESSMENT OF WATER-RELATED CLIMATE CHANGE IMPACTS ON THE LOWER NILE RIVER, EGYPT: LESSONS FROM THREE COMPLEMENTARY PROJECTS. In: Lekkas TD, ed. *PROCEEDINGS OF THE 13TH INTERNATIONAL CONFERENCE ON ENVIRONMENTAL SCIENCE AND TECHNOLOGY*. Proceedings of the International Conference on Environmental Science and Technology. Univ Aegean; Global Network Environm Sci & Technol; 2013.
535. Zhao Y, Colin C, Liu Z, Paterne M, Siani G, Xie X. Reconstructing precipitation changes in northeastern Africa during the Quaternary by clay mineralogical and geochemical investigations of Nile deep-sea fan sediments. *QUATERNARY SCIENCE REVIEWS*. 2012;57:58-70. doi:10.1016/j.quascirev.2012.10.009
536. Mekonnen S, Dessie M, Tadesse A, Nega H, Zewdu A. Predicting the daily flow in ungauged catchments of the eastern part of the upper Blue Nile basin, Ethiopia. *SUSTAINABLE WATER RESOURCES MANAGEMENT*. 2023;9(3). doi:10.1007/s40899-023-00856-9
537. Kappelman J, Tewabe D, Todd L, et al. Another unique river: A consideration of some of the characteristics of the trunk tributaries of the Nile River in northwestern Ethiopia in relationship to their aquatic food resources. *JOURNAL OF HUMAN EVOLUTION*. 2014;77(S1):117-131. doi:10.1016/j.jhevol.2014.03.008
538. Habib E, Elsaadani M, Haile AT. Climatology-Focused Evaluation of CMORPH and TMPA Satellite Rainfall Products over the Nile Basin. *JOURNAL OF APPLIED METEOROLOGY*

AND CLIMATOLOGY. 2012;51(12):2105-2121. doi:10.1175/JAMC-D-11-0252.1

539. Schattner U, Lazar M. Hierarchy of source-to-sink systems - Example from the Nile distribution across the eastern Mediterranean. *SEDIMENTARY GEOLOGY*. 2016;343:119-131. doi:10.1016/j.sedgeo.2016.08.006
540. Yuan L, Wu X, He W, et al. Utilizing the strategic concession behavior in a bargaining game for optimal allocation of water in a transboundary river basin during water bankruptcy. *ENVIRONMENTAL IMPACT ASSESSMENT REVIEW*. 2023;102. doi:10.1016/j.eiar.2023.107162
541. Talbot MR, Williams MAJ, Adamson DA. Strontium isotope evidence for late Pleistocene reestablishment of an integrated Nile drainage network. *GEOLOGY*. 2000;28(4):343-346. doi:10.1130/0091-7613(2000)28<343:SIEFLP>2.0.CO;2
542. Diallo M, Nabeth P, Ba K, et al. Mosquito vectors of the 1998-1999 outbreak of Rift Valley Fever and other arboviruses (Bagaza, Sanar, Wesselsbron and West Nile) in Mauritania and Senegal. *MEDICAL AND VETERINARY ENTOMOLOGY*. 2005;19(2):119-126. doi:10.1111/j.0269-283X.2005.00564.x
543. Jimenez-Sanchez A, Sanchez-Nava P, De Jesus Rodriguez-Romero F, Flores-Nava B. Monogeneans of *Astyanax aeneus* (Characidae) and *Oreochromis niloticus* (Cichlidae) from Ixtapan River basin, Mexico. *REVISTA MEXICANA DE BIODIVERSIDAD*. JUL-SEP 2019;90. doi:10.22201/ib.20078706e.2019.90.2750
544. Alemu MGG, Wubneh MAA, Worku TAA. Impact of climate change on hydrological response of Mojo river catchment, Awash river basin, Ethiopia. *GEOCARTO INTERNATIONAL*. Published online 2022. doi:10.1080/10106049.2022.2152497
545. Salman MAS. The Nile River Basin and its changing legal contours. In: McCaffrey SC, Leb C, Denoon RT, eds. *RESEARCH HANDBOOK ON INTERNATIONAL WATER LAW*. Research Handbooks in International Law. ; 2019:379-396.
546. Fernando Cuervo P, Artigas P, Mas-Coma S, Dolores Bargues M. West Nile virus in Spain: Forecasting the geographical distribution of risky areas with an ecological niche modelling approach. *TRANSBOUNDARY AND EMERGING DISEASES*. 2022;69(4):E1113-E1129. doi:10.1111/tbed.14398
547. Gargani J, Rigollet C, Scarselli S. Isostatic response and geomorphological evolution of the Nile valley during the Messinian salinity crisis. *BULLETIN DE LA SOCIETE GEOLOGIQUE DE FRANCE*. 2010;181(1):19-26. doi:10.2113/gssgfbull.181.1.19
548. Haregeweyn N, Tsunekawa A, Tsubo M, et al. Analyzing the hydrologic effects of region-wide land and water development interventions: a case study of the Upper Blue Nile basin. *REGIONAL ENVIRONMENTAL CHANGE*. 2016;16(4):951-966. doi:10.1007/s10113-015-0813-2
549. Sagy Y, Dror O, Gardosh M, Reshef M. The origin of the Pliocene to recent succession in the Levant basin and its depositional pattern, new insight on source to sink system. *MARINE AND PETROLEUM GEOLOGY*. 2020;120. doi:10.1016/j.marpetgeo.2020.104540

550. Desalegn DT, Awulachew SB, Moges SA. Blue Nile (Abbay) Hydropower Potential, Prioritization, and Trade-Offs on Priority Investments. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY, CLIMATE AND WATER USE*. ; 2011:321-334. doi:10.1007/978-94-007-0689-7\_16
551. O'Loughlin F, Trigg MA, Schumann GJP, Bates PD. Hydraulic characterization of the middle reach of the Congo River. *WATER RESOURCES RESEARCH*. 2013;49(8):5059-5070. doi:10.1002/wrcr.20398
552. Mwebaze CE, Majaliwa JGM, Wanyama J, Gabiri G. Assessing the Impact of Management Options on Water Allocation in River Mubuku-Sebwe Sub-Catchments of Lake Edward-George Basin, Western Uganda. *WATER*. 2021;13(15). doi:10.3390/w13152009
553. Block P, Rajagopalan B. Statistical-Dynamical Approach for Streamflow Modeling at Malakal, Sudan, on the White Nile River. *JOURNAL OF HYDROLOGIC ENGINEERING*. 2009;14(2):185-196. doi:10.1061/(ASCE)1084-0699(2009)14:2(185)
554. Setegn SG, Rayner D, Melesse AM, Dargahi B, Srinivasan R. Impact of climate change on the hydroclimatology of Lake Tana Basin, Ethiopia. *WATER RESOURCES RESEARCH*. 2011;47. doi:10.1029/2010WR009248
555. Steinberg J, Roberts AM, Kusznir NJ, Schafer K, Karcz Z. Crustal structure and post-rift evolution of the Levant Basin. *MARINE AND PETROLEUM GEOLOGY*. 2018;96:522-543. doi:10.1016/j.marpetgeo.2018.05.006
556. Reda A, Eissa M, El Shamy I, Dotsika E, Saied M, Mosaad S. Using Geochemical and Environmental Isotopic Tracers to Evaluate Groundwater Recharge and Mineralization Processes in Qena Basin, Eastern Nile Valley, Egypt. *APPLIED SCIENCES-BASEL*. 2022;12(17). doi:10.3390/app12178391
557. Masson E. The Nile River Basin: Water, Agriculture, Governance and Livelihoods. *INTERNATIONAL JOURNAL OF WATER GOVERNANCE*. 2014;2(2-3, SI):171-172.
558. Johnson TC, Malala JO. Lake Turkana and Its Link to the Nile. In: Dumont HJ, ed. *NILE: ORIGIN, ENVIRONMENTS, LIMNOLOGY AND HUMAN USE*. Vol 89. Monographiae Biologicae. ; 2009:287-304.
559. Gebrehiwot SG, Seibert J, Gardenas AI, Mellander PE, Bishop K. Hydrological change detection using modeling: Half a century of runoff from four rivers in the Blue Nile Basin. *WATER RESOURCES RESEARCH*. 2013;49(6):3842-3851. doi:10.1002/wrcr.20319
560. Ayehu GT, Tadesse T, Gessesse B, Dinku T. Validation of new satellite rainfall products over the Upper Blue Nile Basin, Ethiopia. *ATMOSPHERIC MEASUREMENT TECHNIQUES*. 2018;11(4):1921-1936. doi:10.5194/amt-11-1921-2018
561. Elagib NA, Gayoum Saad SA, Basheer M, Rahma AE, Gore EDL. Exploring the urban water-energy-food nexus under environmental hazards within the Nile. *STOCHASTIC ENVIRONMENTAL RESEARCH AND RISK ASSESSMENT*. 2021;35(1, SI):21-41. doi:10.1007/s00477-019-01706-x



562. Koren VI, Barrett CB. Application of a gis based distributed hydrological system to the large river basin. In: Maxwell WHC, Preul HC, Stout GE, eds. *RIVERTECH '96 - 1ST INTERNATIONAL CONFERENCE ON NEW/EMERGING CONCEPTS FOR RIVERS, PROCEEDINGS, VOLS 1 AND 2: CELEBRATING THE TWENTY-FIFTH ANNIVERSARY OF IWRA*. Int Water Resources Assoc; Univ Illinois Urbana Champaign; Univ Illinois Chicago; Univ Cincinnati; Marquette Univ; Metropolitan Reclamat Dist Greater Chicago; Water Dept Chicago; Illinois Dept Nat Resources; US Geol Survey; Harza Engn, Chicago, Ill; 1996:389-396.
563. van Griensven A, Popescu L, Abdelhamid MR, Ndomba PM, Beevers L, Betrie GD. Comparison of sediment transport computations using hydrodynamic versus hydrologic models in the Simiyu River in Tanzania. *PHYSICS AND CHEMISTRY OF THE EARTH*. 2013;61-62:12-21. doi:10.1016/j.pce.2013.02.003
564. Jaweso D, Abate B, Bauwe A, Lennartz B. Hydro-Meteorological Trends in the Upper Omo-Ghibe River Basin, Ethiopia. *WATER*. 2019;11(9). doi:10.3390/w11091951
565. Dessu SB, Seid AH, Abiy AZ, Melesse AM. Flood Forecasting and Stream Flow Simulation of the Upper Awash River Basin, Ethiopia Using Geospatial Stream Flow Model (GeoSFM). In: Melesse AM, Abtew W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:367-384. doi:10.1007/978-3-319-18787-7\_18
566. Truong NCQ, Nguyen HQ, Kondoh A. Land Use and Land Cover Changes and Their Effect on the Flow Regime in the Upstream Dong Nai River Basin, Vietnam. *WATER*. 2018;10(9). doi:10.3390/w10091206
567. Krysanov EY, Golubtsov AS. Karyotypes of some Ethiopian Barbus and Varicorhinus from the Nile Basin including Lake Tana morphotypes. *FOLIA ZOOLOGICA*. 1996;45(1):67-75.
568. Issawi B, Youssef ESAA, Maxwell T. Cenozoic rivers of northeast Africa: Evidence of trans-Saharan drainage. *STRATIGRAPHY*. 2016;13(1):49-66.
569. Hassan FA, Hamdan MA, Flower RJ, Shallaly NA, Ebrahim E. Holocene alluvial history and archaeological significance of the Nile floodplain in the Saqqara-Memphis region, Egypt. *QUATERNARY SCIENCE REVIEWS*. 2017;176:51-70. doi:10.1016/j.quascirev.2017.09.016
570. Kassahun HT, Jacobsen JB. Economic and institutional incentives for managing the Ethiopian highlands of the Upper Blue Nile Basin: A latent class analysis. *LAND USE POLICY*. 2015;44:76-89. doi:10.1016/j.landusepol.2014.11.017
571. Abotalib AZ, Mohamed RSA. Surface evidences supporting a probable new concept for the river systems evolution in Egypt: a remote sensing overview. *ENVIRONMENTAL EARTH SCIENCES*. 2013;69(5):1621-1635. doi:10.1007/s12665-012-1998-z
572. Yin L, Wang X, Feng X, Fu B, Chen Y. A Comparison of SSEBop-Model-Based Evapotranspiration with Eight Evapotranspiration Products in the Yellow River Basin, China. *REMOTE SENSING*. 2020;12(16). doi:10.3390/rs12162528
573. Cai X, Molden D, Mainuddin M, Sharma B, Ahmad MUD, Karimi P. Producing more food with less water in a changing world: assessment of water productivity in 10 major river basins.

574. Pik R, Marty B, Carignan J, Lave J. Stability of the Upper Nile drainage network (Ethiopia) deduced from (U-Th)/He thermochronometry: implications for uplift and erosion of the Afar plume dome. *EARTH AND PLANETARY SCIENCE LETTERS*. 2003;215(1-2):73-88. doi:10.1016/S0012-821X(03)00457-6
575. Shenouda W. Role of reservoirs in the development of Nile basin. In: Santbergen L, VanWesten CJ, eds. *RESERVOIRS IN RIVER BASIN DEVELOPMENT, VOL 1*. ICOLD; 1995:107-118.
576. Hu S, Mo X. Diversified evapotranspiration responses to climatic change and vegetation greening in eight global great river basins. *JOURNAL OF HYDROLOGY*. 2022;613(A). doi:10.1016/j.jhydrol.2022.128411
577. Hussien K, Kebede A, Mekuriaw A, Beza SA, Erena SH. Modelling spatiotemporal trends of land use land cover dynamics in the Abbay River Basin, Ethiopia. *MODELING EARTH SYSTEMS AND ENVIRONMENT*. 2023;9(1):347-376. doi:10.1007/s40808-022-01487-3
578. Haile AT, Rientjes THM, Habib E, Jetten V, Gebremichael M. Rain event properties at the source of the Blue Nile River. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2011;15(3):1023-1034. doi:10.5194/hess-15-1023-2011
579. Bayon G, Delvigne C, Ponzevera E, et al. The silicon isotopic composition of fine-grained river sediments and its relation to climate and lithology. *GEOCHIMICA ET COSMOCHIMICA ACTA*. 2018;229:147-161. doi:10.1016/j.gca.2018.03.015
580. Bawoke GT, Anteneh ZL, Kehali AT, Mohammedyasir MS, Wudie G. Hydrogeochemical and isotopic signatures of groundwater in the Andasa watershed, Upper Blue Nile basin, Northwestern Ethiopia. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2019;160. doi:10.1016/j.jafrearsci.2019.103617
581. Kusak M, Vilimek V, Minar J. Influence of neotectonics on land surface evolution in the upper part of the Blue Nile Basin (Ethiopia): findings from a DEM. *AUC GEOGRAPHICA*. 2019;54(2):129-151. doi:10.14712/23361980.2019.13
582. Duguma TA, Duguma GA. Assessment of Groundwater Potential Zones of Upper Blue Nile River Basin Using Multi-Influencing Factors under GIS and RS Environment: A Case Study on Guder Watersheds, Abay Basin, Oromia Region, Ethiopia. *GEOFLUIDS*. 2022;2022. doi:10.1155/2022/1172039
583. Zenebe A, Vanmaercke M, Poesen J, et al. Spatial and temporal variability of river flows in the degraded semi-arid tropical mountains of northern Ethiopia. *ZEITSCHRIFT FUR GEOMORPHOLOGIE*. 2013;57(2):143-169. doi:10.1127/0372-8854/2012/0080
584. Mohieldeen YE. More water flows from Western Sudan as virtual water than the flow of the River Nile in former Sudan. *WATER POLICY*. 2016;18(3):533-544. doi:10.2166/wp.2015.130
585. Abate M, Nyssen J, Moges MM, et al. LONG-TERM LANDSCAPE CHANGES IN THE LAKE TANA BASIN AS EVIDENCED BY DELTA DEVELOPMENT AND FLOODPLAIN

AGGRADATION IN ETHIOPIA. *LAND DEGRADATION & DEVELOPMENT*. 2017;28(6, SI):1820-1830. doi:10.1002/ldr.2648

586. Teferi E, Bewket W, Uhlenbrook S, Wenninger J. Understanding recent land use and land cover dynamics in the source region of the Upper Blue Nile, Ethiopia: Spatially explicit statistical modeling of systematic transitions. *AGRICULTURE ECOSYSTEMS & ENVIRONMENT*. 2013;165:98-117. doi:10.1016/j.agee.2012.11.007
587. Xu Y, Yu L, Zhao Y, et al. Monitoring cropland changes along the Nile River in Egypt over past three decades (1984-2015) using remote sensing. *INTERNATIONAL JOURNAL OF REMOTE SENSING*. 2017;38(15):4459-4480. doi:10.1080/01431161.2017.1323285
588. de Sousa LF, Santos CAS, Gomes RL, Rocha FA, de Jesus RM. Modeling land use change impacts on a tropical river basin in Brazil. *INTERNATIONAL JOURNAL OF ENVIRONMENTAL SCIENCE AND TECHNOLOGY*. 2021;18(8):2405-2424. doi:10.1007/s13762-020-02997-2
589. Onyutha C, Willems P. Spatial and temporal variability of rainfall in the Nile Basin. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2015;19(5):2227-2246. doi:10.5194/hess-19-2227-2015
590. Nassif EN. The merit of GPS surveying technique for hydrographic projects and studying river sedimentation. In: Hu C, Tan Y, Zhou Z, Shao X, Liu C, eds. *PROCEEDINGS OF THE NINTH INTERNATIONAL SYMPOSIUM ON RIVER SEDIMENTATION, VOLS 1-4*. UNESCO; Int Res & Training Ctr Erosion & Sedimentat; 2004:2543-2548.
591. Mumbi AW, Li F, Bavumiragira JP, Fangninou FF. Forecasting water consumption on transboundary water resources for water resource management using the feed-forward neural network: a case study of the Nile River in Egypt and Kenya. *MARINE AND FRESHWATER RESEARCH*. 2022;73(3):292-306. doi:10.1071/MF21118
592. Sene KJ. Theoretical estimates for the influence of Lake Victoria on flows in the upper White Nile. *HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES*. 2000;45(1):125-145. doi:10.1080/02626660009492310
593. Keith B, Ford DN, Horton R. Considerations in managing the fill rate of the Grand Ethiopian Renaissance Dam Reservoir using a system dynamics approach. *JOURNAL OF DEFENSE MODELING AND SIMULATION-APPLICATIONS METHODOLOGY TECHNOLOGY-JDMS*. 2017;14(1):33-43. doi:10.1177/1548512916680780
594. Link PM, Scheffran J, Ide T. Conflict and cooperation in the water-security nexus: a global comparative analysis of river basins under climate change. *WILEY INTERDISCIPLINARY REVIEWS-WATER*. JUL-AUG 2016;3(4):495-515. doi:10.1002/wat2.1151
595. Aich V, Liersch S, Vetter T, et al. Comparing impacts of climate change on streamflow in four large African river basins. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2014;18(4):1305-1321. doi:10.5194/hess-18-1305-2014
596. Kusak M. Application of fractal and multifractal analysis on Blue Nile drainage patterns in the morphostructural analysis of the Ethiopian highlands, Ethiopia. *PROGRESS IN PHYSICAL*

597. Gebremichael M, Bitew MM, Hirpa FA, Tesfay GN. Accuracy of satellite rainfall estimates in the Blue Nile Basin: Lowland plain versus highland mountain. *WATER RESOURCES RESEARCH*. 2014;50(11):8775-8790. doi:10.1002/2013WR014500
598. Ghilardi M, Boraik M. Reconstructing the holocene depositional environments in the western part of Ancient Karnak temples complex (Egypt): a geoarchaeological approach. *JOURNAL OF ARCHAEOLOGICAL SCIENCE*. 2011;38(12):3204-3216. doi:10.1016/j.jas.2011.06.007
599. Howa HL, Stanley DJ. PLANT-RICH HOLOCENE SEQUENCES IN THE NORTHERN NILE DELTA PLAIN, EGYPT - PETROLOGY, DISTRIBUTION AND DEPOSITIONAL-ENVIRONMENTS. *JOURNAL OF COASTAL RESEARCH*. FAL 1991;7(4):1077-1096.
600. Cockerton HE, Street-Perrott FA, Barker PA, Leng MJ, Sloane HJ, Ficken KJ. Orbital forcing of glacial/interglacial variations in chemical weathering and silicon cycling within the upper White Nile basin, East Africa: Stable-isotope and biomarker evidence from Lakes Victoria and Edward. *QUATERNARY SCIENCE REVIEWS*. 2015;130(SI):57-71. doi:10.1016/j.quascirev.2015.07.028
601. Mahmoud SH, Gan TY, Allan RP, Li J, Funk C. Worsening drought of Nile basin under shift in atmospheric circulation, stronger ENSO and Indian Ocean dipole. *SCIENTIFIC REPORTS*. 2022;12(1). doi:10.1038/s41598-022-12008-8
602. Wolela A. Diagenetic contrast of sandstones in hydrocarbon prospective Mesozoic rift basins (Ethiopia, UK, USA). *JOURNAL OF AFRICAN EARTH SCIENCES*. 2014;99(2, SI):529-553. doi:10.1016/j.jafrearsci.2014.05.007
603. Kagwanja P. Calming the waters: The East African Community and conflict over the Nile resources. *JOURNAL OF EASTERN AFRICAN STUDIES*. 2007;1(3):321-337. doi:10.1080/17531050701625565
604. del Castillo L. The La Plata Basin System against the Background of Other Basin Organizations. *INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT*. 2011;27(3, SI):511-537. doi:10.1080/07900627.2011.595364
605. Wang K, Niu J, Chen J. Simulation of Terrestrial Hydrological Processes of Five Major Rivers in the World Using Variable Infiltration Capacity Model. In: Zhaoyin W, Lee JHW, Jizhang G, Shuyou C, eds. *PROCEEDINGS OF THE 35TH IAHR WORLD CONGRESS, VOLS III AND IV*. Minist Water Resources; China Inst Water Resources & Hydropower Res; Sichuan Univ; Tsinghua Univ; Univ Hong Kong; Chengdu Municipal Peoples Govt; 2013:9530-9539.
606. Mason SA. Are we scorpions? The role of upstream-downstream dialogue in fostering cooperation in the Nile Basin. *MOUNTAIN RESEARCH AND DEVELOPMENT*. 2005;25(2):115-120. doi:10.1659/0276-4741(2005)025[0115:AWS]2.0.CO;2
607. Tesfay YY. The best coordination to Egypt and Ethiopia on the Blue Nile from supply chain performance perspective: an application to Kraljic-Tesfay portfolio model. *SUSTAINABLE WATER RESOURCES MANAGEMENT*. 2020;6(4). doi:10.1007/s40899-020-00428-1

608. Mohamed YA, van den Hurk B, Savenije HHG, Bastiaanssen WGM. Hydroclimatology of the Nile: results from a regional climate model. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2005;9(3):263-278. doi:10.5194/hess-9-263-2005
609. Getachew B, Manjunatha BR, Bhat GH. Assessing current and projected soil loss under changing land use and climate using RUSLE with Remote sensing and GIS in the Lake Tana Basin, Upper Blue Nile River Basin, Ethiopia. *EGYPTIAN JOURNAL OF REMOTE SENSING AND SPACE SCIENCES*. 2021;24(3, 2):907-918. doi:10.1016/j.ejrs.2021.10.0011110-9823
610. Wu C, Ji C, Shi B, et al. The impact of climate change and human activities on streamflow and sediment load in the Pearl River basin. *INTERNATIONAL JOURNAL OF SEDIMENT RESEARCH*. 2019;34(4):307-321. doi:10.1016/j.ijsrc.2019.01.002
611. Tessema N, Kebede A, Yadeta D. Modelling the effects of climate change on streamflow using climate and hydrological models: the case of the Kesem sub-basin of the Awash River basin, Ethiopia. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2021;19(4):469-480. doi:10.1080/15715124.2020.1755301
612. Movik S. The River Nile in the Post-Colonial Age: Conflict and Cooperation in the Nile Basin. *FORUM FOR DEVELOPMENT STUDIES*. 2011;38(1):117-119. doi:10.1080/08039410.2011.530387
613. Tekleab S, Wenninger J, Uhlenbrook S. Characterisation of stable isotopes to identify residence times and runoff components in two meso-scale catchments in the Abay/Upper Blue Nile basin, Ethiopia. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2014;18(6):2415-2431. doi:10.5194/hess-18-2415-2014
614. Onema JMK, Taigbenu AE, Ndiritu J. Classification and flow prediction in a data-scarce watershed of the equatorial Nile region. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2012;16(5):1435-1443. doi:10.5194/hess-16-1435-2012
615. Rientjes THM, Haile AT, Gieske ASM, Maathuis BHP, Habib E. Satellite Based Cloud Detection and Rainfall Estimation in the Upper Blue Nile Basin. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY, CLIMATE AND WATER USE*. ; 2011:93-107. doi:10.1007/978-94-007-0689-7\_4
616. Garzanti E, Vermeesch P, Rittner M, Simmons M. The zircon story of the Nile: Time-structure maps of source rocks and discontinuous propagation of detrital signals. *BASIN RESEARCH*. 2018;30(6):1098-1117. doi:10.1111/bre.12293
617. Adly E, Ahmed T. Water and Food Security in the River Nile Basin: Perspectives of the Government and NGOs in Egypt. In: Brauch HG, Behera NC, Chourou B, et al., eds. *FACING GLOBAL ENVIRONMENTAL CHANGE: ENVIRONMENTAL, HUMAN, ENERGY, FOOD, HEALTH AND WATER SECURITY CONCEPTS*. Vol 4. Hexagon Series on Human and Environmental Security and Peace. ; 2009:641-649.
618. Worqlul AW, Ayana EK, Maathuis BHP, et al. Performance of bias corrected MPEG rainfall estimate for rainfall-runoff simulation in the upper Blue Nile Basin, Ethiopia. *JOURNAL OF HYDROLOGY*. 2018;556:1182-1191. doi:10.1016/j.jhydrol.2017.01.058
619. Nigussie Y, van der Werf E, Zhu X, Simane B, van Ierland EC. Evaluation of Climate Change

Adaptation Alternatives for Smallholder Farmers in the Upper Blue-Nile Basin. *ECOLOGICAL ECONOMICS*. 2018;151:142-150. doi:10.1016/j.ecolecon.2018.05.006

620. Gebremicael TG, Mohamed YA, Van Zaag P, Hagos EY. Temporal and spatial changes of rainfall and streamflow in the Upper Tekeze-Atbara river basin, Ethiopia. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2017;21(4):2127-2142. doi:10.5194/hess-21-2127-2017
621. Reda KW, Liu X, Tang Q. Intra-Annual Variation of High and Low-Flow Extremes Associated With Land Use and Climate Change in the Upper Tekeze of the Nile River Basin. *JOURNAL OF GEOPHYSICAL RESEARCH-ATMOSPHERES*. 2022;127(8). doi:10.1029/2021JD036325
622. Wouters P. The Nile Basin Development patterns and projections. In: *INTERNATIONAL WATERCOURSES LAW IN THE NILE RIVER BASIN: THREE STATES AT A CROSSROADS*. ; 2013:36-49.
623. Botha H, van Hoven W, Guillette LJ Jr. The decline of the Nile crocodile population in Loskop Dam, Olifants River, South Africa. *WATER SA*. 2011;37(1):103-108.
624. Heggy E, Sharkawy Z, Abotalib AZ. Egypt's water budget deficit and suggested mitigation policies for the Grand Ethiopian Renaissance Dam filling scenarios. *ENVIRONMENTAL RESEARCH LETTERS*. 2021;16(7). doi:10.1088/1748-9326/ac0ac9
625. Conway D. A water balance model of the Upper Blue Nile in Ethiopia. *HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES*. 1997;42(2):265-286. doi:10.1080/02626669709492024
626. Woldemariam A, Getachew T, Chanie T. Long-term trends of river flow, sediment yield and crop productivity of Andit tid watershed, central highland of Ethiopia. *ALL EARTH*. 2023;35(1):3-15. doi:10.1080/27669645.2022.2154461
627. Levin B, Simonov E, Franchini P, Mugue N, Golubtsov A, Meyer A. Rapid adaptive radiation in a hillstream cyprinid fish in the East African White Nile River basin. *MOLECULAR ECOLOGY*. 2021;30(21):5530-5550. doi:10.1111/mec.16130
628. Block P, Strzepek K. Economic Analysis of Large-Scale Upstream River Basin Development on the Blue Nile in Ethiopia Considering Transient Conditions, Climate Variability, and Climate Change. *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT*. MAR-APR 2010;136(2):156-166. doi:10.1061/(ASCE)WR.1943-5452.0000022
629. Chen ZY, Stanley DJ. ALLUVIAL STIFF MUDS (LATE PLEISTOCENE) UNDERLYING THE LOWER NILE DELTA PLAIN, EGYPT - PETROLOGY, STRATIGRAPHY AND ORIGIN. *JOURNAL OF COASTAL RESEARCH*. SPR 1993;9(2):539-576.
630. Abteu W, Dessu SB. Grand Ethiopian Renaissance Dam Site Importance. In: *GRAND ETHIOPIAN RENAISSANCE DAM ON THE BLUE NILE*. Springer Geography. ; 2019:63-77. doi:10.1007/978-3-319-97094-3\_5
631. Yang Y, Li Y, Zhu L, Sun Z. Study on the Relationship between Water and Sediment Discharge and the Deltaic Evolution of Changjiang River Estuary. In: Zhaoyin W, Lee JHW, Jizhang G, Shuyou C, eds. *PROCEEDINGS OF THE 35TH IAHR WORLD CONGRESS, VOLS III AND IV*.

Minist Water Resources; China Inst Water Resources & Hydropower Res; Sichuan Univ; Tsinghua Univ; Univ Hong Kong; Chengdu Municipal Peoples Govt; 2013.

632. Garcia-Carrasco JM, Munoz AR, Olivero J, Segura M, Real R. Predicting the spatio-temporal spread of West Nile virus in Europe. *PLOS NEGLECTED TROPICAL DISEASES*. 2021;15(1). doi:10.1371/journal.pntd.0009022
633. Mojtahid M, Manceau R, Schiebel R, Hennekam R, de Lange GJ. Thirteen thousand years of southeastern Mediterranean climate variability inferred from an integrative planktic foraminiferal-based approach. *PALEOCEANOGRAPHY*. 2015;30(4):402-422. doi:10.1002/2014PA002705
634. Khadim FK, Dokou Z, Lazin R, Moges S, Bagtzoglou AC, Anagnostou E. Groundwater modeling in data scarce aquifers: The case of Gilgel-Abay, Upper Blue Nile, Ethiopia. *JOURNAL OF HYDROLOGY*. 2020;590. doi:10.1016/j.jhydrol.2020.125214
635. Saliha AH, Awulachew SB, Cullmann J, Horlacher HB. Estimation of flow in ungauged catchments by coupling a hydrological model and neural networks: case study. *HYDROLOGY RESEARCH*. 2011;42(5):386-400. doi:10.2166/nh.2011.157
636. Khadim FK, Dokou Z, Lazin R, Bagtzoglou AC, Anagnostou E. Groundwater Modeling to Assess Climate Change Impacts and Sustainability in the Tana Basin, Upper Blue Nile, Ethiopia. *SUSTAINABILITY*. 2023;15(7). doi:10.3390/su15076284
637. King A, Block P. An assessment of reservoir filling policies for the Grand Ethiopian Renaissance Dam. *JOURNAL OF WATER AND CLIMATE CHANGE*. 2014;5(2):233-243. doi:10.2166/wcc.2014.043
638. El-Tantawi AM, Bao A, Chang C, Liu Y. Monitoring and predicting land use/cover changes in the Aksu-Tarim River Basin, Xinjiang-China (1990-2030). *ENVIRONMENTAL MONITORING AND ASSESSMENT*. 2019;191(8). doi:10.1007/s10661-019-7478-0
639. Box MR, Krom MD, Cliff RA, et al. Response of the Nile and its catchment to millennial-scale climatic change since the LGM from Sr isotopes and major elements of East Mediterranean sediments. *QUATERNARY SCIENCE REVIEWS*. 2011;30(3-4):431-442. doi:10.1016/j.quascirev.2010.12.005
640. Tekleab S, Uhlenbrook S, Mohamed Y, Savenije HHG, Temesgen M, Wenninger J. Water balance modeling of Upper Blue Nile catchments using a top-down approach. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2011;15(7):2179-2193. doi:10.5194/hess-15-2179-2011
641. Worqlul AW, Taddele YD, Ayana EK, Jeong J, Adem AA, Gerik T. Impact of Climate Change on Streamflow Hydrology in Headwater Catchments of the Upper Blue Nile Basin, Ethiopia. *WATER*. 2018;10(2). doi:10.3390/w10020120
642. Schattner U, Kanari M, Goodman-Tchernov BN, de Mahiques MM, Bernhardt A. Sedimentary response of the deep eastern Mediterranean basin to the north African desertification, sea level variation and regional tectonics. *BASIN RESEARCH*. 2022;34(2):662-687. doi:10.1111/bre.12635

643. Densaw DF, Ayana EK, Enku T. Koga Irrigation Scheme Water Quality Assessment, Relation to Streamflow and Implication on Crop Yield. In: Melesse AM, Abteu W, eds. *LANDSCAPE DYNAMICS, SOILS AND HYDROLOGICAL PROCESSES IN VARIED CLIMATES*. Springer Geography. ; 2016:727-740. doi:10.1007/978-3-319-18787-7\_32
644. Tawfik R. Reconsidering counter-hegemonic dam projects: the case of the Grand Ethiopian Renaissance Dam. *WATER POLICY*. 2016;18(5):1033-1052. doi:10.2166/wp.2016.162
645. Tigabu TB, Wagner PD, Hoermann G, Fohrer N. Modeling the spatio-temporal flow dynamics of groundwater-surface water interactions of the Lake Tana Basin, Upper Blue Nile, Ethiopia. *HYDROLOGY RESEARCH*. 2020;51(6):1537-1559. doi:10.2166/nh.2020.046
646. Basheer M, Sulieman R, Ribbe L. Exploring management approaches for water and energy in the data-scarce Tekeze-Atbara Basin under hydrologic uncertainty. *INTERNATIONAL JOURNAL OF WATER RESOURCES DEVELOPMENT*. 2021;37(2):182-207. doi:10.1080/07900627.2019.1591941
647. Kau AS, Gramlich R, Sewilam H. Modelling land suitability to evaluate the potential for irrigated agriculture in the Nile region in Sudan. *SUSTAINABLE WATER RESOURCES MANAGEMENT*. 2023;9(1). doi:10.1007/s40899-022-00773-3
648. Gvirtzman Z, Csato I, Granjeon D. Constraining sediment transport to deep marine basins through submarine channels: The Levant margin in the Late Cenozoic. *MARINE GEOLOGY*. 2014;347:12-26. doi:10.1016/j.margeo.2013.10.010
649. Folkman Y, Mart Y. Newly recognized eastern extension of the Nile deep-sea fan. *GEOLOGY*. 2008;36(12):939-942. doi:10.1130/G24995A.1
650. Stanley DJ, Wingerath JG. Nile sediment dispersal altered by the Aswan High Dam: The kaolinite trace. *MARINE GEOLOGY*. 1996;133(1-2):1-9. doi:10.1016/0025-3227(96)00019-9
651. Stanley DJ, Hamza FH. TERRIGENOUS-CARBONATE SEDIMENT INTERFACE (LATE QUATERNARY) ALONG THE NORTHWESTERN MARGIN OF THE NILE DELTA, EGYPT. *JOURNAL OF COASTAL RESEARCH*. WIN 1992;8(1):153-171.
652. Abera W, Formetta G, Brocca L, Rigon R. Modeling the water budget of the Upper Blue Nile basin using the JGrass-NewAge model system and satellite data. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2017;21(6):3145-3165. doi:10.5194/hess-21-3145-2017
653. Elmoattassem M, Nadar MK. SURPLUS STORAGE PROJECT FOR THE NILE RIVER. In: Mcneil RY, Windsor JE, eds. *INNOVATIONS IN RIVER BASIN MANAGEMENT*. CANADIAN WATER RESOURCES ASSOC; ENVIRONM CANADA, INLAND WATERS DIRECTORATE; 1990:107-116.
654. Sowers J. Governing the Nile River Basin: The Search for a New Legal Regime. *JOURNAL OF MODERN AFRICAN STUDIES*. 2016;54(1):180-181. doi:10.1017/S0022278X15000907
655. Abdelkareem M, El-Baz F. Regional view of a Trans-African Drainage System. *JOURNAL OF ADVANCED RESEARCH*. 2015;6(3):433-439. doi:10.1016/j.jare.2014.10.001



656. Ayele HS, Li MH, Tung CP, Liu TM. Assessing Climate Change Impact on Gilgel Abbay and Gumara Watershed Hydrology, the Upper Blue Nile Basin, Ethiopia. *TERRESTRIAL ATMOSPHERIC AND OCEANIC SCIENCES*. 2016;27(6):1005-1018. doi:10.3319/TAO.2016.07.30.01
657. Dessie M, Verhoest NEC, Pauwels VRN, et al. Water balance of a lake with floodplain buffering: Lake Tana, Blue Nile Basin, Ethiopia. *JOURNAL OF HYDROLOGY*. 2015;522:174-186. doi:10.1016/j.jhydrol.2014.12.049
658. Fenta AA, Yasuda H, Shimizu K, et al. Evaluation of satellite rainfall estimates over the Lake Tana basin at the source region of the Blue Nile River. *ATMOSPHERIC RESEARCH*. 2018;212:43-53. doi:10.1016/j.atmosres.2018.05.009
659. Freydier R, Michard A, De Lange G, Thomson J. Nd isotopic compositions of Eastern Mediterranean sediments: tracers of the Nile influence during sapropel S1 formation? *MARINE GEOLOGY*. 2001;177(1-2, SI):45-62. doi:10.1016/S0025-3227(01)00123-2
660. Damtie B, Boersma E, Stave K. Introduction: Regional Challenges and Policy Questions. In: Stave K, Goshu G, Aynalem S, eds. *SOCIAL AND ECOLOGICAL SYSTEM DYNAMICS: CHARACTERISTICS, TRENDS, AND INTEGRATION IN THE LAKE TANA BASIN, ETHIOPIA*. AESS Interdisciplinary Environmental Studies and Sciences Series. ; 2017:3-8. doi:10.1007/978-3-319-45755-0\_1
661. Rientjes THM, Perera JBU, Haile AT, Gieske ASM, Booij MJ, Reggiani P. Hydrological Balance of Lake Tana, Upper Blue Nile Basin, Ethiopia. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:69-89. doi:10.1007/978-94-007-0689-7\_3
662. Tate EL, Sene KJ, Sutcliffe JV. A water balance study of the upper White Nile basin flows in the late nineteenth century. *HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES*. 2001;46(2):301-318. doi:10.1080/02626660109492823
663. Geressu RT, Harou JJ. Reservoir system expansion scheduling under conflicting interests. *ENVIRONMENTAL MODELLING & SOFTWARE*. 2019;118:201-210. doi:10.1016/j.envsoft.2019.04.002
664. Moelants T, Zebe VM, Snoeks J, Vreven E. A review of the *Distichodus antonii* assemblage (Characiformes: Distichodontidae) from the Congo basin. *JOURNAL OF NATURAL HISTORY*. 2014;48(27-28):1707-1735. doi:10.1080/00222933.2013.862312
665. Knobelsdorf V. The Nile Waters Agreements: Imposition and impacts of a transboundary legal system - Dorsey & Whitney student writing prize in comparative and international law best note award winner. *COLUMBIA JOURNAL OF TRANSNATIONAL LAW*. 2006;44(2):622-648.
666. Moura Nery GK, Nery JF, Lopes W da S. DIAGNOSIS OF ETHNOECOLOGICAL KNOWLEDGE OF FISHERMEN IN HYDROGRAPHIC BASINS IN THE SEMIARID OF PARAIBA. *GEOAMBIENTE ON-LINE*. JAN-APR 2021;(39):46-62.
667. Onencan AM, Enserink B, Van de Walle B. Influence of Personal Attributes and Demographic Diversity on Nzoia Basin Negotiation Outcomes. *WATER*. 2019;11(2). doi:10.3390/w11020227

668. Abd-Elziz S, Zelenakova M, Krsak B, Abd-Elhamid HF. Spatial and Temporal Effects of Irrigation Canals Rehabilitation on the Land and Crop Yields, a Case Study: The Nile Delta, Egypt. *WATER*. 2022;14(5). doi:10.3390/w14050808
669. Bitew MM, Gebremichael M. Are Satellite-Gauge Rainfall Products Better than Satellite-Only Products for Nile Hydrology? In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY ,CLIMATE AND WATER USE*. ; 2011:129-141. doi:10.1007/978-94-007-0689-7\_6
670. Woldesenbet TA, Elagib NA. Analysis of climatic trends in the upper Blue Nile basin based on homogenized data. *THEORETICAL AND APPLIED CLIMATOLOGY*. 2021;146(1-2):767-780. doi:10.1007/s00704-021-03767-x
671. Bellaiche G, Mart Y. MORPHOSTRUCTURE, GROWTH-PATTERNS, AND TECTONIC CONTROL OF THE RHONE AND NILE DEEP-SEA FANS - A COMPARISON. *AAPG BULLETIN-AMERICAN ASSOCIATION OF PETROLEUM GEOLOGISTS*. 1995;79(2):259-284.
672. Weldeab S, Menke V, Schmiedl G. The pace of East African monsoon evolution during the Holocene. *GEOPHYSICAL RESEARCH LETTERS*. 2014;41(5):1724-1731. doi:10.1002/2014GL059361
673. Kholeif SEA, Mudie PJ. PALYNOLOGICAL RECORDS OF CLIMATE AND OCEANIC CONDITIONS IN THE LATE PLEISTOCENE AND HOLOCENE OF THE NILE CONE, SOUTHEASTERN MEDITERRANEAN, EGYPT. *PALYNOLOGY*. 2009;33(1):1-24. doi:10.2113/gspalynol.33.1.1
674. Zhou S, Lin G, Lin Q, Su S, Cheng M. Pollution of Microplastics in Coastal Plain of the Huangshui River Basin. In: *2020 6TH INTERNATIONAL CONFERENCE ON ADVANCES IN ENERGY, ENVIRONMENT AND CHEMICAL ENGINEERING, PTS 1-5*. Vol 546. IOP Conference Series-Earth and Environmental Science. ; 2020. doi:10.1088/1755-1315/546/3/032040
675. Muala E, Mohamed YA, Duan Z, van der Zaag P. Estimation of Reservoir Discharges from Lake Nasser and Roseires Reservoir in the Nile Basin Using Satellite Altimetry and Imagery Data. *REMOTE SENSING*. 2014;6(8):7522-7545. doi:10.3390/rs6087522
676. Sallam E, Issawi B, Osman R, Ruban D. Deposition in a changing paleogulf: evidence from the Pliocene-Quaternary sedimentary succession of the Nile Delta, Egypt. *ARABIAN JOURNAL OF GEOSCIENCES*. 2018;11(18). doi:10.1007/s12517-018-3919-2
677. Anand J, Devak M, Gosain AK, Khosa R, Dhanya CT. Spatio-temporal effect of climate and land-use change on water balance of the Ganga river basin. *JOURNAL OF HYDRO-ENVIRONMENT RESEARCH*. 2021;36:50-66. doi:10.1016/j.jher.2021.03.004
678. Stanley JD, Wedl SE. Significant depositional changes offshore the Nile Delta in late third millennium BCE: relevance for Egyptology. *E&G QUATERNARY SCIENCE JOURNAL*. 2021;70(1):83-92. doi:10.5194/egqsj-70-83-2021
679. Bernard A. IWRM Performance Indicators - Pilot Experience in Africa. In: Shang HQ, Luo XX, eds. *PROCEEDINGS OF THE 4TH INTERNATIONAL YELLOW RIVER FORUM ON ECOLOGICAL CIVILIZATION AND RIVER ETHICS, VOL I*. EU, China River Basin

Management Program; World Wide Fund Nat; Australian Agcy Int Dev; Int Network Basin Org; Global Water Partnership; Int Water Resources Assoc; Dongying Municipal Govt Shandong Prov; Zhengzhou Municipal Govt Henan Prov; Int Econ Tech Cooperat & Exchange Ctr; Yellow River Res Assoc; Henan Multi; N China Univ Water Conversancy & Elect power; China Inst Water Resources & Hydropower Res; Nanjing Hydraul Res Inst; Ctr Hydro, Informat River Basin; 2010:283-286.

680. Aynalem S. Birds of Lake Tana Sub-basin. In: Stave K, Goshu G, Aynalem S, eds. *SOCIAL AND ECOLOGICAL SYSTEM DYNAMICS: CHARACTERISTICS, TRENDS, AND INTEGRATION IN THE LAKE TANA BASIN, ETHIOPIA*. AESS Interdisciplinary Environmental Studies and Sciences Series. ; 2017:179-205. doi:10.1007/978-3-319-45755-0\_13
681. Yuhi M. Impact of Anthropogenic Modifications of a River Basin on Neighboring Coasts: Case Study. *JOURNAL OF WATERWAY PORT COASTAL AND OCEAN ENGINEERING*. NOV-DEC 2008;134(6):336-344. doi:10.1061/(ASCE)0733-950X(2008)134:6(336)
682. Griffin DL. The late Neogene Sahabi rivers of the Sahara and the hamadas of the eastern Libya-Chad border area. *PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY*. 2011;309(3-4):176-185. doi:10.1016/j.palaeo.2011.05.007
683. Zelelew SA, Abebe WB, Amsalu T. Land-use cover change impact on Cranes nesting space in the Lake Tana Biosphere Reserve area, Blue Nile Basin. *WETLANDS ECOLOGY AND MANAGEMENT*. 2021;29(4):495-505. doi:10.1007/s11273-021-09796-7
684. Haile AT, Asfaw W, Rientjes T, Worako AW. Deterioration of streamflow monitoring in Omo-Gibe basin in Ethiopia. *HYDROLOGICAL SCIENCES JOURNAL*. 2022;67(7):1040-1053. doi:10.1080/02626667.2022.2060110
685. Tiwari S, Kar SC, Bhatla R, Bansal R. Temperature index based snowmelt runoff modelling for the Satluj River basin in the western Himalayas. *METEOROLOGICAL APPLICATIONS*. 2018;25(2):302-313. doi:10.1002/met.1692
686. Guariso G, Sangiorgio M. Performance of Implicit Stochastic Approaches to the Synthesis of Multireservoir Operating Rules. *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT*. 2020;146(6). doi:10.1061/(ASCE)WR.1943-5452.0001200
687. Marriner N, Flaux C, Morhange C, Stanley JD. Tracking Nile Delta Vulnerability to Holocene Change. *PLOS ONE*. 2013;8(7). doi:10.1371/journal.pone.0069195
688. Ahmad I, Dar MA, Andualem TG, Teka AH. Groundwater development using geographic information system. *APPLIED GEOMATICS*. 2020;12(1):73-82. doi:10.1007/s12518-019-00283-6
689. Elsanabary MH, Gan TY. Wavelet Analysis of Seasonal Rainfall Variability of the Upper Blue Nile Basin, Its Teleconnection to Global Sea Surface Temperature, and Its Forecasting by an Artificial Neural Network. *MONTHLY WEATHER REVIEW*. 2014;142(5):1771-1791. doi:10.1175/MWR-D-13-00085.1
690. Le Bars Y, Vallaes V, Deleersnijder E, Hanert E, Carrere L, Channeliere C. Unstructured-mesh modeling of the Congo river-to-sea continuum. *OCEAN DYNAMICS*. 2016;66(4):589-603.

691. Linseele V, Zerboni A. Done with fish? A diachronic study of fishing in the Holocene Nile basin of Sudan. *QUATERNARY INTERNATIONAL*. 2018;471(A):229-240. doi:10.1016/j.quaint.2017.04.024
692. Serur AB, Sarma AK. Climate change impacts analysis on hydrological processes in the Weyib River basin in Ethiopia. *THEORETICAL AND APPLIED CLIMATOLOGY*. 2018;134(3-4):1301-1314. doi:10.1007/s00704-017-2348-6
693. Collick AS, Easton ZM, Ashagrie T, et al. A simple semi-distributed water balance model for the Ethiopian highlands. *HYDROLOGICAL PROCESSES*. 2009;23(26, SI):3718-3727. doi:10.1002/hyp.7517
694. Simanovsky SA, Medvedev DA, Tefera F, Golubtsov AS. Similarity of Karyotype Structure in Three Mormyrus Species (Mormyridae) from the White Nile and Omo River Tributaries (Ethiopia). *JOURNAL OF ICHTHYOLOGY*. 2021;61(2):323-326. doi:10.1134/S003294522102017X
695. Nigatu ZM, Fan D, You W, et al. Crop production response to soil moisture and groundwater depletion in the Nile Basin based on multi-source data. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2022;825. doi:10.1016/j.scitotenv.2022.154007
696. Fenta AA, Tsunekawa A, Haregeweyn N, et al. Agroecology-based soil erosion assessment for better conservation planning in Ethiopian river basins. *ENVIRONMENTAL RESEARCH*. 2021;195. doi:10.1016/j.envres.2021.110786
697. Baggio RA, Orelis-Ribeiro R, Boeger WA. Identifying Nile tilapia strains and their hybrids farmed in Brazil using microsatellite markers. *PESQUISA AGROPECUARIA BRASILEIRA*. 2016;51(10):1744-1750. doi:10.1590/S0100-204X2016001000006
698. Abteu W, Dessu SB. Grand Ethiopian Renaissance Dam Analysis. In: *GRAND ETHIOPIAN RENAISSANCE DAM ON THE BLUE NILE*. Springer Geography. ; 2019:79-96. doi:10.1007/978-3-319-97094-3\_6
699. Melesse AM, Loukas AG, Senay G, Yitayew M. Climate change, land-cover dynamics and ecohydrology of the Nile River Basin Preface. *HYDROLOGICAL PROCESSES*. 2009;23(26):3651-3652. doi:10.1002/hyp.7522
700. Mantovano T, Bailly D, Ferreira JHD, et al. A global analysis of the susceptibility of river basins to invasion of a freshwater zooplankton (*Daphnia lumholtzi*). *FRESHWATER BIOLOGY*. 2021;66(4):683-698. doi:10.1111/fwb.13670
701. Ibrahim AH, Molla DD, Lohani TK. Performance evaluation of satellite-based rainfall estimates for hydrological modeling over Bilate river basin, Ethiopia. *WORLD JOURNAL OF ENGINEERING*. Published online 2022. doi:10.1108/WJE-03-2022-0106
702. Abdellatif ME, Osman YZ, Elkhidir AM. Comparison of artificial neural networks and autoregressive model for inflows forecasting of Roseires Reservoir for better prediction of

irrigation water supply in Sudan. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2015;13(2):203-214. doi:10.1080/15715124.2014.1003381

703. Boes X, Prat S, Arrighi V, et al. Lake-level changes and hominin occupations in the arid Turkana basin during volcanic closure of the Omo River outflows to the Indian Ocean. *QUATERNARY RESEARCH*. 2019;91(2):892-909. doi:10.1017/qua.2018.118
704. Wu Y, Chen J. Modeling of soil erosion and sediment transport in the East River Basin in southern China. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2012;441:159-168. doi:10.1016/j.scitotenv.2012.09.057
705. Cockerton HE, Street-Perrott FA, Leng MJ, Barker PA, Horstwood MSA, Pashley V. Stable-isotope (H, O, and Si) evidence for seasonal variations in hydrology and Si cycling from modern waters in the Nile Basin: implications for interpreting the Quaternary record. *QUATERNARY SCIENCE REVIEWS*. 2013;66(SI):4-21. doi:10.1016/j.quascirev.2012.12.005
706. Susnik J, Vamvakeridou-Lyroudia LS, Baumert N, et al. Interdisciplinary assessment of sea-level rise and climate change impacts on the lower Nile delta, Egypt. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2015;503(SI):279-288. doi:10.1016/j.scitotenv.2014.06.111
707. Bajirao TS, Kumar P, Kumar M, Elbeltagi A, Kuriqi A. Potential of hybrid wavelet-coupled data-driven-based algorithms for daily runoff prediction in complex river basins. *THEORETICAL AND APPLIED CLIMATOLOGY*. 2021;145(3-4):1207-1231. doi:10.1007/s00704-021-03681-2
708. Abdallah C, Jaafar H. Data set on current and future crop suitability under the Representative Concentration Pathway (RCP) 8.5 emission scenario for the major crops in the Levant, Tigris-Euphrates, and Nile Basins. *DATA IN BRIEF*. 2019;22:992-997. doi:10.1016/j.dib.2019.01.033
709. Engida AN, Esteves M. Characterization and disaggregation of daily rainfall in the Upper Blue Nile Basin in Ethiopia. *JOURNAL OF HYDROLOGY*. 2011;399(3-4):226-234. doi:10.1016/j.jhydrol.2011.01.001
710. McManus J. Deltaic responses to changes in river regimes. *MARINE CHEMISTRY*. 2002;79(3-4):155-170. doi:10.1016/S0304-4203(02)00061-0
711. Aerts JCJH, Renssen H, Ward PJ, et al. Sensitivity of global river discharges under Holocene and future climate conditions. *GEOPHYSICAL RESEARCH LETTERS*. 2006;33(19). doi:10.1029/2006GL027493
712. Abd-Elhamid HF, Abd-Elkader BS, Wahed O, Zelenakova M, Abd-Elaty I. Assessment of Changing the Abstraction and Recharge Rates on the Land Subsidence in the Nile Delta, Egypt. *WATER*. 2022;14(7). doi:10.3390/w14071096
713. O'Connell E, O'Donnell G, Koutsoyiannis D. On the Spatial Scale Dependence of Long-Term Persistence in Global Annual Precipitation Data and the Hurst Phenomenon. *WATER RESOURCES RESEARCH*. 2023;59(4). doi:10.1029/2022WR033133
714. Jing W, Di L, Zhao X, et al. A data-driven approach to generate past GRACE-like terrestrial water storage solution by calibrating the land surface model simulations. *ADVANCES IN*

715. Zucker E, Gvirtzman Z, Granjeon D, Garcia-Castellanos D, Enzel Y. The accretion of the Levant continental shelf alongside the Nile Delta by immense margin-parallel sediment transport. *MARINE AND PETROLEUM GEOLOGY*. 2021;126. doi:10.1016/j.marpetgeo.2020.104876
716. Wedajo GK, Muleta MK, Awoke BG. Performance evaluation of multiple satellite rainfall products for Dhidhessa River Basin (DRB), Ethiopia. *ATMOSPHERIC MEASUREMENT TECHNIQUES*. 2021;14(3):2299-2316. doi:10.5194/amt-14-2299-2021
717. Abd Ellah RG. Water resources in Egypt and their challenges, Lake Nasser case study. *EGYPTIAN JOURNAL OF AQUATIC RESEARCH*. 2020;46(1):1-12. doi:10.1016/j.ejar.2020.03.001
718. Malede DA, Alamirew T, Kosgie JR, Andualem TG. Analysis of land use/land cover change trends over Birr River Watershed, Abbay Basin, Ethiopia. *ENVIRONMENTAL AND SUSTAINABILITY INDICATORS*. 2023;17. doi:10.1016/j.indic.2022.100222
719. Awoke A, Beyene A, Kloos H, Goethals PLM, Triest L. River Water Pollution Status and Water Policy Scenario in Ethiopia: Raising Awareness for Better Implementation in Developing Countries. *ENVIRONMENTAL MANAGEMENT*. 2016;58(4):694-706. doi:10.1007/s00267-016-0734-y
720. Wondimagegnehu D, Tadele K. Evaluation of climate change impact on Blue Nile Basin Cascade Reservoir operation - case study of proposed reservoirs in the Main Blue Nile River Basin, Ethiopia. In: Cudennec C, Demuth S, Mishra A, Young G, eds. *HYDROLOGICAL SCIENCES AND WATER SECURITY: PAST, PRESENT AND FUTURE*. Vol 366. IAHS Publication. UNESCO Int Hydrolog Programme; Int Assoc Hydrolog Sci; Int Union Geodesy & Geophys; UNESCO Div Water Sci; 2015:133.
721. Stanley DJ, Warne AG. SEA-LEVEL AND INITIATION OF PREDYNASTIC CULTURE IN THE NILE DELTA. *NATURE*. 1993;363(6428):435-438. doi:10.1038/363435a0
722. Rientjes THM, Haile AT, Kebede E, Mannaerts CMM, Habib E, Steenhuis TS. Changes in land cover, rainfall and stream flow in Upper Gilgel Abbay catchment, Blue Nile basin-Ethiopia. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2011;15(6):1979-1989. doi:10.5194/hess-15-1979-2011
723. Degefu DM, He W, Yuan L. Monotonic Bargaining Solution for Allocating Critically Scarce Transboundary Water. *WATER RESOURCES MANAGEMENT*. 2017;31(9):2627-2644. doi:10.1007/s11269-017-1648-z
724. Fantaye SM, Wolde BB, Haile AT, Taye MT. Estimation of shallow groundwater abstraction for irrigation and its impact on groundwater availability in the Lake Tana sub-basin, Ethiopia. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2023;46. doi:10.1016/j.ejrh.2023.101365
725. Farquharson FAK, Sutcliffe JV. Regional variations of African river flows. In: Servat E, Hughes D, Fritsch JM, Hulme M, eds. *WATER RESOURCES VARIABILITY IN AFRICA DURING THE XXTH CENTURY*. IAHS PUBLICATION. ORSTOM, Paris; Swiss Acad Sci, Bern; Tropenbos Fdn, Wageningen; African Assoc Hydrol; Int Assoc Hydrol Sci; French Cooperat; World

Meteorol Org; French Inst Sci Res Dev Cooperat; European Union; UNESCO, Int Hydrol Programme; 1998:161-169.

726. Bastian L, Vigier N, Revel M, Yirgu G, Ayalew D, Pik R. Chemical erosion rates in the upper Blue Nile Basin and related atmospheric CO<sub>2</sub> consumption. *CHEMICAL GEOLOGY*. 2019;518:19-31. doi:10.1016/j.chemgeo.2019.03.033
727. Kibret KS, Hailelassie A, Mekuria Bori W, Schmitter P. Multicriteria decision-support system to assess the potential of enclosure-based conservation in Ethiopia. *RENEWABLE AGRICULTURE AND FOOD SYSTEMS*. 2022;37(1, SI):S88-S102. doi:10.1017/S1742170520000034
728. Kassem AM, Shady AM. Toward integrated management of the Nile water in Egypt. In: Delisle CE, Bouchard MA, eds. *RATIONAL AND SUSTAINABLE DEVELOPMENT OF WATER RESOURCES, VOLS I AND II*. COLLECTION ENVIRONNEMENT DE L'UNIVERSITE DE MONTREAL. Assoc Canadienne Resources Hydr; 1996:415-426.
729. Adar KG. Kenya's Foreign Policy and Geopolitical Interests: The Case of the Nile River Basin. *AFRICAN SOCIOLOGICAL REVIEW*. 2007;11(1):63-80.
730. Garzanti E, Ando S, Padoan M, Vezzoli G, El Kammar A. The modern Nile sediment system: Processes and products. *QUATERNARY SCIENCE REVIEWS*. 2015;130(SI):9-56. doi:10.1016/j.quascirev.2015.07.011
731. Dinar S. The Geographical Dimensions of Hydro-politics: International Freshwater in the Middle East, North Africa, and Central Asia. *EURASIAN GEOGRAPHY AND ECONOMICS*. JAN-FEB 2012;53(1):115-142. doi:10.2747/1539-7216.53.1.115
732. Ewunetu A, Simane B, Abebe G. Effect of integrated sustainable land management technologies on households' food security in the North Gojjam sub-basin, Blue Nile River. *DISCOVER SUSTAINABILITY*. 2023;4(1). doi:10.1007/s43621-023-00133-x
733. Tessema I, Simane B. Vulnerability analysis of smallholder farmers to climate variability and change: an agro-ecological system-based approach in the Fincha'a sub-basin of the upper Blue Nile Basin of Ethiopia. *ECOLOGICAL PROCESSES*. 2019;8. doi:10.1186/s13717-019-0159-7
734. Stanley JD. Growth faults, a distinct carbonate-siliciclastic interface and recent coastal evolution, NW Nile delta, Egypt. *JOURNAL OF COASTAL RESEARCH*. SPR 2005;(42):309-318.
735. Macneill IB, Tang SM, Jandhyala VK. A SEARCH FOR THE SOURCE OF THE NILES CHANGE-POINTS. *ENVIRONMETRICS*. 1991;2(3):341-375. doi:10.1002/env.3770020309
736. Gvirtzman Z, Heida H, Garcia-Castellanos D, Bar O, Zucker E, Enzel Y. Limited Mediterranean sea-level drop during the Messinian salinity crisis inferred from the buried Nile canyon. *COMMUNICATIONS EARTH & ENVIRONMENT*. 2022;3(1). doi:10.1038/s43247-022-00540-4
737. Dufour E, Van Neer W, Vermeersch PM, Patterson WP. Hydroclimatic conditions and fishing practices at Late Paleolithic Makhadma 4 (Egypt) inferred from stable isotope analysis of

otoliths. *QUATERNARY INTERNATIONAL*. 2018;471(A):190-202.  
doi:10.1016/j.quaint.2017.09.026

738. Tessema I, Simane B, Angassa K. Soil erosion estimation and risk assessment at watershed level: a case study of Neshe Dam Watershed in Blue Nile River basin, Ethiopia. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. Published online 2023. doi:10.1080/15715124.2023.2209324
739. Stanley JD, Ullmann T, Lange-Athinodorou E. Holocene Aridity-Induced Interruptions of Human Activity along a Fluvial Channel in Egypt's Northern Delta. *QUATERNARY*. 2021;4(4). doi:10.3390/quat4040039
740. Stanley JD, Krom MD, Cliff RA, Woodward JC. Short contribution: Nile flow failure at the end of the old kingdom, Egypt: Strontium isotopic and petrologic evidence. *GEOARCHAEOLOGY-AN INTERNATIONAL JOURNAL*. 2003;18(3):395-402. doi:10.1002/gea.10065
741. Morag N, Avigad D, Gerdes A, Abbo A. Detrital zircon and rutile U-Pb, Hf isotopes and heavy mineral assemblages of Israeli Miocene sands: Fingerprinting the Arabian provenance of the Levant. *BASIN RESEARCH*. 2021;33(3):1967-1984. doi:10.1111/bre.12544
742. Stanley JD. Egypt's Nile Delta in Late 4000 Years BP: Altered Flood Levels and Sedimentation, with Archaeological Implications. *JOURNAL OF COASTAL RESEARCH*. 2019;35(5):1036-1050. doi:10.2112/JCOASTRES-D-19-00027.1
743. Birck T, Message HJ, Baumgartner G, Sebastien NY, Baumgartner D. Foraging behavior interactions between the invasive Nile Tilapia (Cichliformes: Cichlidae) and three large native predators. *NEOTROPICAL ICHTHYOLOGY*. 2019;17(3). doi:10.1590/1982-0224-20180116
744. Tadesse KE, Melesse AM, Abebe A, Lakew HB, Paron P. Evaluation of Global Precipitation Products over Wabi Shebelle River Basin, Ethiopia. *HYDROLOGY*. 2022;9(5). doi:10.3390/hydrology9050066
745. Ebode VB. Impact of climate and anthropogenic changes on current and future variability in flows in the Nyong River Basin (equatorial Central Africa). *JOURNAL OF HYDROINFORMATICS*. 2023;25(2):369-395. doi:10.2166/hydro.2023.116
746. Belay T, Mengistu DA. Land use and land cover dynamics and drivers in the Muga watershed, Upper Blue Nile basin, Ethiopia. *REMOTE SENSING APPLICATIONS-SOCIETY AND ENVIRONMENT*. 2019;15. doi:10.1016/j.rsase.2019.100249
747. Zewdie MM, Asmare D. Investigation and mapping of geological construction materials in parts of chemoga river sub basin, debre markos, Ethiopia. *HELIYON*. 2023;9(3). doi:10.1016/j.heliyon.2023.e13784
748. Mulligan M, Cruz LLS, Pena-Arancibia J, Pandey B, Mahe G, Fisher M. Water availability and use across the Challenge Program on Water and Food (CPWF) basins. *WATER INTERNATIONAL*. 2011;36(1, SI):17-41. doi:10.1080/02508060.2011.543801
749. David GS, Genova de Castro Campanha PM, Maruyama LS, Carvalho ED. FISHING GEARS IN BARRA BONITA AND BARIRI RESERVOIRS: FISHERIES MONITORING IN THE



MIDDLE TIETE RIVER BASIN. *BOLETIM DO INSTITUTO DE PESCA*. 2016;42(1):29-49. doi:10.5007/1678-2305.2016v42n1p29

750. Mellander PE, Gebrehiwot SG, Gardenas AI, Bewket W, Bishop K. Summer Rains and Dry Seasons in the Upper Blue Nile Basin: The Predictability of Half a Century of Past and Future Spatiotemporal Patterns. *PLOS ONE*. 2013;8(7). doi:10.1371/journal.pone.0068461
751. Beyene AM, Abate M, Sinshaw BG, Belete AM, Chekole BZ. Anthropogenic amplification of geomorphic processes on fluvial channel morphology, case study in Gilgel Abay river mouth; lake Tana Sub Basin, Ethiopia. *HELIYON*. 2023;9(4). doi:10.1016/j.heliyon.2023.e14390
752. Chebud YA, Melesse AM. Modelling lake stage and water balance of Lake Tana, Ethiopia. *HYDROLOGICAL PROCESSES*. 2009;23(25):3534-3544. doi:10.1002/hyp.7416
753. Rzoska J. OBSERVATIONS ON ZOOPLANKTON DISTRIBUTION IN A TROPICAL RIVER DAM-BASIN (GEBEL AULIA WHITE NILE SUDAN). *JOURNAL OF ANIMAL ECOLOGY*. 1968;37(1):185-. doi:10.2307/2718
754. Elameen AM, Jin S, Olago D. Identification of Drought Events in Major Basins of Africa from GRACE Total Water Storage and Modeled Products. *PHOTOGRAMMETRIC ENGINEERING AND REMOTE SENSING*. 2023;89(4). doi:10.14358/PERS.22-00092R2
755. Gorini C, Montadert L, Rabineau M. New imaging of the salinity crisis: Dual Messinian lowstand megasequences recorded in the deep basin of both the eastern and western Mediterranean. *MARINE AND PETROLEUM GEOLOGY*. 2015;66(1):278-294. doi:10.1016/j.marpetgeo.2015.01.009
756. Balli N, Leghouchi E. Assessment of lead and cadmium in groundwater sources used for drinking purposes in Jijel (Northeastern Algeria). *GLOBAL NEST JOURNAL*. 2018;20(2):417-423. doi:10.30955/gnj.002747
757. Di Vittorio CA, Georgakakos AP. Hydrologic Modeling of the Sudd Wetland using Satellite-based Data. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2021;37. doi:10.1016/j.ejrh.2021.100922
758. Ebode VB, Dzana JG, Nkiaka E, Nnomo BN, Braun JJ, Riotte J. Effects of climate and anthropogenic changes on current and future variability in flows in the So'o River Basin (south of Cameroon). *HYDROLOGY RESEARCH*. Published online 2022. doi:10.2166/nh.2022.047
759. Mamo S, Birhanu B, Ayenew T, Taye G. Three-dimensional groundwater flow modeling to assess the impacts of the increase in abstraction and recharge reduction on the groundwater, groundwater availability and groundwater-surface waters interaction: A case of the rib catchment in the Lake Tana sub-basin of the Upper Blue Nile River, Ethiopia. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2021;35. doi:10.1016/j.ejrh.2021.100831
760. Sangiorgio M, Guariso G. NN-Based Implicit Stochastic Optimization of Multi-Reservoir Systems Management. *WATER*. 2018;10(3). doi:10.3390/w10030303
761. Ozturk ZE. Fair social orderings for the sharing of international rivers: A leximin based approach. *JOURNAL OF ENVIRONMENTAL ECONOMICS AND MANAGEMENT*. 2020;101.

762. Jiang C, Pan S, Chen S. Recent morphological changes of the Yellow River (Huanghe) submerged delta: Causes and environmental implications. *GEOMORPHOLOGY*. 2017;293(A):93-107. doi:10.1016/j.geomorph.2017.04.036
763. Vilas-Boas LA, Headley SA, Goncalves KB, Scarpassa JA, Pretto-Giordano LG. Complete Genome Sequence of *Streptococcus iniae* UEL-Si1, Isolated in Diseased Nile Tilapia (*Oreochromis niloticus*) from Northern Parana, Southern Brazil. *GENOME ANNOUNCEMENTS*. 2017;5(2). doi:10.1128/genomeA.01458-16
764. Esselman PC, Schmitter-Soto JJ, Allan JD. Spatiotemporal dynamics of the spread of African tilapias (*Pisces: Oreochromis* spp.) into rivers of northeastern Mesoamerica. *BIOLOGICAL INVASIONS*. 2013;15(7):1471-1491. doi:10.1007/s10530-012-0384-9
765. Subramanian A, Brown B, Wolf AT. Understanding and overcoming risks to cooperation along transboundary rivers. *Water Policy*. 2014;16(5):824-843. doi:10.2166/wp.2014.010
766. Shahbazbegian M, Nabavi E. How to Incorporate System Archetypes into Water Conflicts Analysis: Application in Euphrates, Nile, Zambezi, and Lake Kivu Transboundary Basins. *WATER*. 2023;15(7). doi:10.3390/w15071270
767. Walter I, Prikrylova I, Barson M, Luus-Powell WJ. Monogenean parasites of *Pseudocrenilabrus philander* (Weber, 1897) (Teleostei: Cichlidae) in the middle Limpopo River basin, southern Africa. *AFRICAN JOURNAL OF AQUATIC SCIENCE*. Published online 2023. doi:10.2989/16085914.2023.2218433
768. Barrows TT, Williams MAJ, Mills SC, et al. A White Nile megalake during the last interglacial period. *GEOLOGY*. 2014;42(2):163-166. doi:10.1130/G35238.1
769. Tateo F, Sabbadini R, Morandi N. Palygorskite and sepiolite occurrence in Pliocene lake deposits along the River Nile: evidence of an arid climate. *JOURNAL OF AFRICAN EARTH SCIENCES*. OCT-NOV 2000;31(3-4):633-645. doi:10.1016/S0899-5362(00)80011-1
770. Ali AM, Mohamed YA. Effect of stilling basin shape on the hydraulic characteristics of the flow downstream radial gates. *ALEXANDRIA ENGINEERING JOURNAL*. 2010;49(4):393-400. doi:10.1016/j.aej.2010.08.001
771. El Baroudy AA. Geomatics-Based Soil Mapping and Degradation Risk Assessment of Nile Delta Soils. *POLISH JOURNAL OF ENVIRONMENTAL STUDIES*. 2010;19(6):1123-1131.
772. Winsemius HC, Savenije HHG, Gerrits AMJ, Zapreeva EA, Klees R. Comparison of two model approaches in the Zambezi river basin with regard to model reliability and identifiability. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2006;10(3):339-352. doi:10.5194/hess-10-339-2006
773. Shrestha NK, Leta OT, De Fraine B, van Griensven A, Bauwens W. OpenMI-based integrated sediment transport modelling of the river Zenne, Belgium. *ENVIRONMENTAL MODELLING & SOFTWARE*. 2013;47:193-206. doi:10.1016/j.envsoft.2013.05.004

774. Jeuland M, Whittington D. Water resources planning under climate change: Assessing the robustness of real options for the Blue Nile. *WATER RESOURCES RESEARCH*. 2014;50(3):2086-2107. doi:10.1002/2013WR013705
775. Dinar A, Nigatu GS. Distributional considerations of international water resources under externality: The case of Ethiopia, Sudan and Egypt on the Blue Nile. *WATER RESOURCES AND ECONOMICS*. OCT-NOV 2013;2-3:1-16. doi:10.1016/j.wre.2013.07.001
776. Berihun ML, Tsunekawa A, Haregeweyn N, et al. Reduced runoff and sediment loss under alternative land capability-based land use and management options in a sub-humid watershed of Ethiopia. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2022;40. doi:10.1016/j.ejrh.2022.100998
777. Taye MT, Dyer E, Hirpa FA, Charles K. Climate Change Impact on Water Resources in the Awash Basin, Ethiopia. *WATER*. 2018;10(11). doi:10.3390/w10111560
778. Lamb HF, Bates CR, Coombes PV, et al. Late Pleistocene desiccation of Lake Tana, source of the Blue Nile. *QUATERNARY SCIENCE REVIEWS*. 2007;26(3-4):287-299. doi:10.1016/j.quascirev.2006.11.020
779. Olusegun DA, Lulu Q, Dong D, Guangxue L, Yanyan M, Linmiao W. Evolutionary trends of the Niger Delta shoreline during the last 100 years: Responses to rainfall and river discharge. *MARINE GEOLOGY*. 2015;367:202-211. doi:10.1016/j.margeo.2015.06.007
780. Goshu G, Strokal M, Kroeze C, Koelmans AA, de Klein JJM. Assessing seasonal nitrogen export to large tropical lakes. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2020;731. doi:10.1016/j.scitotenv.2020.139199
781. Yimer SM, Kumar N, Bouanani A, Tischbein B, Borgemeister C. Homogenization of daily time series climatological data in the Eastern Nile basin, Ethiopia. *THEORETICAL AND APPLIED CLIMATOLOGY*. 2021;143(1-2):737-760. doi:10.1007/s00704-020-03407-w
782. van Asch B, Versfeld WF, Hull KL, et al. Phylogeography, genetic diversity, and population structure of Nile crocodile populations at the fringes of the southern African distribution. *PLOS ONE*. 2019;14(12). doi:10.1371/journal.pone.0226505
783. Loucks DP. Developed river deltas: are they sustainable? *ENVIRONMENTAL RESEARCH LETTERS*. 2019;14(11). doi:10.1088/1748-9326/ab4165
784. Nannawo AS, Lohani TK, Eshete AA. Envisaging the actual evapotranspiration and elucidating its effects under climate change scenarios on agrarian lands of bilate river basin in Ethiopia. *HELIYON*. 2022;8(8). doi:10.1016/j.heliyon.2022.e10368
785. Hassaballah K, Jonoski A, Popescu I, Solomatine DP. Model-Based Optimization of Downstream Impact during Filling of a New Reservoir: Case Study of Mandaya/Roseires Reservoirs on the Blue Nile River. *WATER RESOURCES MANAGEMENT*. 2012;26(2):273-293. doi:10.1007/s11269-011-9917-8
786. Luo P, Takara K, He B, et al. Assessment of Paleo-hydrology and Paleo-inundation Conditions: the Process. In: Utama NA, McLellan B, Hamzah S, et al., eds. *4TH INTERNATIONAL*

*CONFERENCE ON SUSTAINABLE FUTURE FOR HUMAN SECURITY SUSTAIN 2013*. Vol 20. Procedia Environmental Sciences. Sustain Soc; Indonesian Students Assoc Kyoto; 2014:747-752. doi:10.1016/j.proenv.2014.03.089

787. Muhammad A. Managing River Basins with Thinking Machines Dedicated to the loving memory of Prof. Masood Ahmed (1959-2007), for showing me how to control chaos, both in machines and in life. In: *2016 IEEE CONFERENCE ON NORBERT WIENER IN THE 21ST CENTURY (21CW)*. IEEE; 2016:18-23.
788. Alemu ML, Worqlul AW, Zimale FA, Tilahun SA, Steenhuis TS. Water Balance for a Tropical Lake in the Volcanic Highlands: Lake Tana, Ethiopia. *WATER*. 2020;12(10). doi:10.3390/w12102737
789. Vu MT, Raghavan SV, Liong SY. SWAT use of gridded observations for simulating runoff - a Vietnam river basin study. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2012;16(8):2801-2811. doi:10.5194/hess-16-2801-2012
790. Shehata AA, El Fawal FM, Ito M, Aal MHA, Sarhan MA. Cenomanian-Turonian depositional history of a post-Gondwana rift succession in the West Beni Suef Basin, Egypt. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2019;150:783-798. doi:10.1016/j.jafrearsci.2018.10.006
791. Wouters P. International Watercourses Law in the Nile Basin Three states at a crossroads Conclusions. In: *INTERNATIONAL WATERCOURSES LAW IN THE NILE RIVER BASIN: THREE STATES AT A CROSSROADS*. ; 2013:261-282.
792. Wouters P. International Watercourses Law in the Nile Basin Three states at a crossroads Foreword. In: *INTERNATIONAL WATERCOURSES LAW IN THE NILE RIVER BASIN: THREE STATES AT A CROSSROADS*. ; 2013:XV-XVI.
793. Moges MA, Zemale FA, Alemu ML, et al. Sediment concentration rating curves for a monsoonal climate: upper Blue Nile. *SOIL*. 2016;2(3):337-349. doi:10.5194/soil-2-337-2016
794. Adham KG, Hamed SS, Ibrahim HM, Saleh RA. Impaired functions in Nile Tilapia, *Oreochromis niloticus* (Linnaeus, 1757), from polluted waters. *ACTA HYDROCHIMICA ET HYDROBIOLOGICA*. 2002;29(5):278+.
795. Rosenberger AE, Chapman LJ. Hypoxic wetland tributaries as faunal refugia from an introduced predator. *ECOLOGY OF FRESHWATER FISH*. 1999;8(1):22-34. doi:10.1111/j.1600-0633.1999.tb00049.x
796. Rigler G, Dokou Z, Khadim FK, et al. Citizen Science and the Sustainable Development Goals: Building Social and Technical Capacity through Data Collection in the Upper Blue Nile Basin, Ethiopia. *SUSTAINABILITY*. 2022;14(6). doi:10.3390/su14063647
797. Walker BL, Naugle DE, Doherty KE, Cornish TE. West Nile Virus and Greater Sage-Grouse: Estimating Infection Rate in a Wild Bird Population. *AVIAN DISEASES*. 2007;51(3):691-696. doi:10.1637/0005-2086(2007)51[691:WNVAGS]2.0.CO;2
798. Dagnachew M, Kebede A, Moges A, Abebe A. Land Use Land Cover Changes and Its drivers in Gojeb River Catchment, Omo Gibe Basin, Ethiopia. *JOURNAL OF AGRICULTURE AND*

799. Geraerts M, Vangestel C, Artois T, et al. Population genomics of introduced Nile tilapia *Oreochromis niloticus* (Linnaeus, 1758) in the Democratic Republic of the Congo: Repeated introductions since colonial times with multiple sources. *MOLECULAR ECOLOGY*. 2022;31(12):3304-3322. doi:10.1111/mec.16479
800. Assefa WW, Eneyew BG, Wondie A. Development of a multi-metric index based on macroinvertebrates for wetland ecosystem health assessment in predominantly agricultural landscapes, Upper Blue Nile basin, northwestern Ethiopia. *FRONTIERS IN ENVIRONMENTAL SCIENCE*. 2023;11. doi:10.3389/fenvs.2023.1117190
801. Niyazi Y, Eruteya OE, Omosanya KO, Harishidayat D, Johansen SE, Waldmann N. Seismic geomorphology of submarine channel-belt complexes in the Pliocene of the Levant Basin, offshore central Israel. *MARINE GEOLOGY*. 2018;403:123-138. doi:10.1016/j.margeo.2018.05.007
802. Sadaoui M, Ludwig W, Bourrin F, Romero E. The impact of reservoir construction on riverine sediment and carbon fluxes to the Mediterranean Sea. *PROGRESS IN OCEANOGRAPHY*. 2018;163(SI):94-111. doi:10.1016/j.pocean.2017.08.003
803. Blum AG, Zaitchik B, Alexander S, et al. A Grand Prediction: Communicating and Evaluating 2018 Summertime Upper Blue Nile Rainfall and Streamflow Forecasts in Preparation for Ethiopia's New Dam. *FRONTIERS IN WATER*. 2019;1. doi:10.3389/frwa.2019.00003
804. Wei C, Dong X, Yu D, et al. An alternative to the Grain for Green Program for soil and water conservation in the upper Huaihe River basin, China. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2022;43. doi:10.1016/j.ejrh.2022.101180
805. Brunnee J, Toope SJ. The changing Nile Basin regime: Does law matter? *HARVARD INTERNATIONAL LAW JOURNAL*. WIN 2002;43(1):105-159.
806. Abu Seif ESS. Geological evolution of Nile Valley, west Sohag, Upper Egypt: a geotechnical perception. *ARABIAN JOURNAL OF GEOSCIENCES*. 2015;8(12):11049-11072. doi:10.1007/s12517-015-1966-5
807. Malede DA, Alamirew T, Andualem TG. Integrated and Individual Impacts of Land Use Land Cover and Climate Changes on Hydrological Flows over Birr River Watershed, Abbay Basin, Ethiopia. *WATER*. 2023;15(1). doi:10.3390/w15010166
808. Worqlul AW, Yen H, Collick AS, Tilahun SA, Langan S, Steenhuis TS. Evaluation of CFSR, TMPA 3B42 and ground-based rainfall data as input for hydrological models, in data-scarce regions: The upper Blue Nile Basin, Ethiopia. *CATENA*. 2017;152:242-251. doi:10.1016/j.catena.2017.01.019
809. Barreto-Martin C, Sierra-Parada R, Calderon-Rivera D, Jaramillo-Londono A, Mesa-Fernandez D. Spatio-temporal analysis of the hydrological response to land cover changes in the sub-basin of the Chicu river, Colombia. *HELIYON*. 2021;7(7). doi:10.1016/j.heliyon.2021.e07358

810. Gashaw T, Tulu T, Argaw M, Worqlul AW, Tolessa T, Kindu M. Estimating the impacts of land use/land cover changes on Ecosystem Service Values: The case of the Andassa watershed in the Upper Blue Nile basin of Ethiopia. *ECOSYSTEM SERVICES*. 2018;31(A):219-228. doi:10.1016/j.ecoser.2018.05.001
811. Notter B, Hurni H, Wiesmann U, Abbaspour KC. Modelling water provision as an ecosystem service in a large East African river basin. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2012;16(1):69-86. doi:10.5194/hess-16-69-2012
812. Wouters P. Analysis of factors and circumstances affecting the equitability of uses in the Nile Basin. In: *INTERNATIONAL WATERCOURSES LAW IN THE NILE RIVER BASIN: THREE STATES AT A CROSSROADS*. ; 2013:208-260.
813. Stewart KM, Kovalchuk OM, Goskova OA, Pogodina N V. Late Pleistocene fish remains from the Rurubu River, Tanzania. *JOURNAL OF VERTEBRATE PALEONTOLOGY*. 2019;39(3). doi:10.1080/02724634.2019.1639055
814. Shehata AA, El Fawal FM, Ito M, Aal MHA, Sarhan MA. Sequence stratigraphic evolution of the syn-rift Early Cretaceous sediments, West Beni Suef Basin, the Western Desert of Egypt with remarks on its hydrocarbon accumulations. *ARABIAN JOURNAL OF GEOSCIENCES*. 2018;11(12). doi:10.1007/s12517-018-3688-y
815. Haile AT, Yan F, Habib E. Accuracy of the CMORPH satellite-rainfall product over Lake Tana Basin in Eastern Africa. *ATMOSPHERIC RESEARCH*. 2015;163(SI):177-187. doi:10.1016/j.atmosres.2014.11.011
816. Abebe WB, Tilahun SA, Moges MM, et al. Ecological Status as the Basis for the Holistic Environmental Flow Assessment of a Tropical Highland River in Ethiopia. *WATER*. 2021;13(14). doi:10.3390/w13141913
817. Ebabu K, Tsunekawa A, Haregeweyn N, et al. Analyzing the variability of sediment yield: A case study from paired watersheds in the Upper Blue Nile basin, Ethiopia. *GEOMORPHOLOGY*. 2018;303:446-455. doi:10.1016/j.geomorph.2017.12.020
818. Kameri-Mbote P, Kindiki K. Water and Food Security in the Nile River Basin: Perspectives of Governments and NGOs of Upstream Countries. In: Brauch HG, Behera NC, Chourou B, et al., eds. *FACING GLOBAL ENVIRONMENTAL CHANGE: ENVIRONMENTAL, HUMAN, ENERGY, FOOD, HEALTH AND WATER SECURITY CONCEPTS*. Vol 4. Hexagon Series on Human and Environmental Security and Peace. ; 2009:651-659.
819. Bbole I, Zhao JL, Tang SJ, Katongo C. Genetic diversity of two Southern African cichlids (*Oreochromis andersonii* and *O. macrochir*) in the Zambezi and Congo River basins. *JOURNAL OF APPLIED ICHTHYOLOGY*. 2020;36(1):62-74. doi:10.1111/jai.13993
820. Sotomayor-Bonilla J, Garcia-Suarez O, Cigarroa-Toledo N, et al. Survey of mosquito-borne flaviviruses in the Cuitzmala River Basin, Mexico: do they circulate in rodents and bats? *TROPICAL MEDICINE AND HEALTH*. 2018;46. doi:10.1186/s41182-018-0117-6
821. El-Sayed MK, Mansour RS. Water Scarcity as a Non-traditional Threat to Security in the Middle East. *INDIA QUARTERLY-A JOURNAL OF INTERNATIONAL AFFAIRS*. 2017;73(2, SI):227-240. doi:10.1177/0974928417699916

822. El-Sayed SA, Morsy SM, Zakaria KM. Recharge sources and geochemical evolution of groundwater in the Quaternary aquifer at Atfih area, the northeastern Nile Valley, Egypt. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2018;142:82-92. doi:10.1016/j.jafrearsci.2018.03.001
823. Shayeghi A, Azizian A, Brocca L. Reliability of reanalysis and remotely sensed precipitation products for hydrological simulation over the Sefidrood River Basin, Iran. *HYDROLOGICAL SCIENCES JOURNAL*. 2020;65(2):296-310. doi:10.1080/02626667.2019.1691217
824. Chen Y, Ahmed M, Tangdamrongsub N, Murgulet D. Reservoir-Induced Land Deformation: Case Study from the Grand Ethiopian Renaissance Dam. *REMOTE SENSING*. 2021;13(5). doi:10.3390/rs13050874
825. Ferraz M, Bauer AL, Valiati VH, Schulz UH. Microplastic Concentrations in Raw and Drinking Water in the Sinos River, Southern Brazil. *WATER*. 2020;12(11). doi:10.3390/w12113115
826. Saber M, Hamaguchi T, Kojiri T, Tanaka K, Sumi T. A physically based distributed hydrological model of wadi system to simulate flash floods in arid regions. *ARABIAN JOURNAL OF GEOSCIENCES*. 2015;8(1):143-160. doi:10.1007/s12517-013-1190-0
827. Sebesta O, Gelbic I, Minar J. Mosquitoes (Diptera: Culicidae) of the Lower Dyje River Basin (Podyji) at the Czech-Austrian border. *CENTRAL EUROPEAN JOURNAL OF BIOLOGY*. 2012;7(2):288-298. doi:10.2478/s11535-012-0013-8
828. Lawson FH. Egypt, Ethiopia, and the Nile River: The Continuing Dispute. *MEDITERRANEAN QUARTERLY-A JOURNAL OF GLOBAL ISSUES*. 2016;27(1):97-121. doi:10.1215/10474552-3488082
829. Elbasiouny H, Elbehiry F. Geology. In: ElRamady H, Alshaal T, Bakr N, Elbana T, Mohamed E, Belal AA, eds. *SOILS OF EGYPT*. World Soils Book Series. ; 2019:93-109. doi:10.1007/978-3-319-95516-2\_6
830. Cartes JE, Maynou F, Fanelli E. Nile damming as plausible cause of extinction and drop in abundance of deep-sea shrimp in the western Mediterranean over broad spatial scales. *PROGRESS IN OCEANOGRAPHY*. 2011;91(3):286-294. doi:10.1016/j.pocean.2011.01.004
831. Havn K, Sorensen HR. General Decision Support System for Water Resources Management. In: Hongqi S, Xiangxin L, eds. *PROCEEDING OF THE 5TH INTERNATIONAL YELLOW RIVER FORUM ON ENSURING WATER RIGHT OF THE RIVER'S DEMAND AND HEALTHY RIVER BASIN MAINTENANCE, VOL I*. China Yellow River Fdn; 2015:106-113.
832. Tesfaye A, Brouwer R. Exploring the scope for transboundary collaboration in the Blue Nile river basin: downstream willingness to pay for upstream land use changes to improve irrigation water supply. *ENVIRONMENT AND DEVELOPMENT ECONOMICS*. 2016;21(2):180-204. doi:10.1017/S1355770X15000182
833. Abdel-Fattah M I, Sen S, Abuzied SM, Abioui M, Radwan AE, Benssaou M. Facies analysis and petrophysical investigation of the Late Miocene Abu Madi sandstones gas reservoirs from offshore Baltim East field (Nile Delta, Egypt). *MARINE AND PETROLEUM GEOLOGY*. 2022;137. doi:10.1016/j.marpetgeo.2021.105501

834. Oviedo P M, Bru C S, Atencio G V, Pardo C S. Potential of the Cordoba coastal region Colombia for the culture of Nile tilapia. *REVISTA MVZ CORDOBA*. SEP-DEC 2013;18(3):3781-3789. doi:10.21897/rmvz.148
835. Getirana A, Kumar S, Girotto M, Rodell M. Rivers and Floodplains as Key Components of Global Terrestrial Water Storage Variability. *GEOPHYSICAL RESEARCH LETTERS*. 2017;44(20):10359-10368. doi:10.1002/2017GL074684
836. Leta MK, Demissie TA, Waseem M. Analysis of Hydrological Characteristics of Blue Nile Basin, Nashe Watershed. *APPLIED SCIENCES-BASEL*. 2021;11(24). doi:10.3390/app112411791
837. Be'eri-Shlevin Y, Avigad D, Gerdes A, Zlatkin O. Detrital zircon U-Pb-Hf systematics of Israeli coastal sands: new perspectives on the provenance of Nile sediments. *JOURNAL OF THE GEOLOGICAL SOCIETY*. 2014;171(1):107-116. doi:10.1144/jgs2012-151
838. Padoan M, Garzanti E, Harlavan Y, Villa IM. Tracing Nile sediment sources by Sr and Nd isotope signatures (Uganda, Ethiopia, Sudan). *GEOCHIMICA ET COSMOCHIMICA ACTA*. 2011;75(12):3627-3644. doi:10.1016/j.gca.2011.03.042
839. Malone JB, AbdelRahman MS, ElBahy MM, Huh OK, Shafik M, Bavia M. Geographic information systems and the distribution of *Schistosoma mansoni* in the Nile delta. *PARASITOLOGY TODAY*. 1997;13(3):112-119. doi:10.1016/S0169-4758(97)01009-0
840. Tigabu MT, Wood DH, Admasu BT. Resource assessment for hydro-kinetic turbines in Ethiopian rivers and irrigation canals. *ENERGY FOR SUSTAINABLE DEVELOPMENT*. 2020;58:209-224. doi:10.1016/j.esd.2020.08.005
841. Alrajoula MT, Al Zayed IS, Elagib NA, Hamdi MR. Hydrological, socio-economic and reservoir alterations of Er Roseires Dam in Sudan. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2016;566:938-948. doi:10.1016/j.scitotenv.2016.05.029
842. Dgebuadze YY, Golubtsov AS, Mikheev VN, Mina MV. 4 FISH SPECIES NEW TO THE OMO-TURKANA BASIN, WITH COMMENTS ON THE DISTRIBUTION OF NEMACHEILUS-ABYSSINICUS (CYPRINIFORMES, BALITORIDAE) IN ETHIOPIA. *HYDROBIOLOGIA*. 1994;286(2):125-128. doi:10.1007/BF00008502
843. Gashaw T, Dile YT, Worqlul AW, et al. Evaluating the Effectiveness of Best Management Practices On Soil Erosion Reduction Using the SWAT Model: for the Case of Gumara Watershed, Abbay (Upper Blue Nile) Basin. *ENVIRONMENTAL MANAGEMENT*. 2021;68(2):240-261. doi:10.1007/s00267-021-01492-9
844. Wilusz DC, Zaitchik BF, Anderson MC, Hain CR, Yilmaz MT, Mladenova IE. Monthly flooded area classification using low resolution SAR imagery in the Sudd wetland from 2007 to 2011. *REMOTE SENSING OF ENVIRONMENT*. 2017;194:205-218. doi:10.1016/j.rse.2017.03.005
845. Hussein H, Conker A, Grandi M. Small is beautiful but not trendy: Understanding the allure of big hydraulic works in the Euphrates-Tigris and Nile waterscapes. *MEDITERRANEAN POLITICS*. 2022;27(3):297-320. doi:10.1080/13629395.2020.1799167



846. Hecht A. ABRUPT CHANGES IN THE CHARACTERISTICS OF ATLANTIC AND LEVANTINE INTERMEDIATE WATERS IN THE SOUTHEASTERN LEVANTINE BASIN. *OCEANOLOGICA ACTA*. 1992;15(1):25-42.
847. Rizk R, Juzsakova T, Ben Ali M, et al. Comprehensive environmental assessment of heavy metal contamination of surface water, sediments and Nile Tilapia in Lake Nasser, Egypt. *JOURNAL OF KING SAUD UNIVERSITY SCIENCE*. 2022;34(1). doi:10.1016/j.jksus.2021.101748
848. Mengistu AG, Woldeesenbet TA, Dile YT, Bayabil HK, Tefera GW. Modeling impacts of projected land use and climate changes on the water balance in the Baro basin, Ethiopia. *HELIYON*. 2023;9(3). doi:10.1016/j.heliyon.2023.e13965
849. Almogi-Labin A, Bar-Matthews M, Shriki D, et al. Climatic variability during the last similar to 90 ka of the southern and northern Levantine Basin as evident from marine records and speleothems. *QUATERNARY SCIENCE REVIEWS*. 2009;28(25-26):2882-2896. doi:10.1016/j.quascirev.2009.07.017
850. Drews C, Han W. Dynamics of Wind Setdown at Suez and the Eastern Nile Delta. *PLOS ONE*. 2010;5(8). doi:10.1371/journal.pone.0012481
851. Zelelew DG, Melesse AM. Applicability of a Spatially Semi-Distributed Hydrological Model for Watershed Scale Runoff Estimation in Northwest Ethiopia. *WATER*. 2018;10(7). doi:10.3390/w10070923
852. Costa Novaes JL, Carvalho ED. Analysis of artisanal fisheries in two reservoirs of the upper Parana River basin (Southeastern Brazil). *NEOTROPICAL ICHTHYOLOGY*. 2013;11(2):403-412. doi:10.1590/S1679-62252013005000002
853. Krom MD, Michard A, Cliff RA, Strohle K. Sources of sediment to the Ionian Sea and western Levantine basin of the Eastern Mediterranean during S-1 sapropel times. *MARINE GEOLOGY*. 1999;160(1-2):45-61. doi:10.1016/S0025-3227(99)00015-8
854. Macgregor DS. The development of the Nile drainage system: integration of onshore and offshore evidence. *PETROLEUM GEOSCIENCE*. 2012;18(4):417-431. doi:10.1144/petgeo2011-074
855. Jilo NB, Gurara MA, Tolche AD, Harka AE. Impacts of Management Scenarios on Sediment Yield Simulation in Upper and Middle Awash River Basin, Ethiopia. *ECOHYDROLOGY & HYDROBIOLOGY*. 2022;22(2):269-282. doi:10.1016/j.ecohyd.2021.11.003
856. Ramillien G, Seoane L, Darrozes J. An Innovative Slepian Approach to Invert GRACE KBRR for Localized Hydrological Information at the Sub-Basin Scale. *REMOTE SENSING*. 2021;13(9). doi:10.3390/rs13091824
857. Satti S, Zaitchik B, Siddiqui S. The question of Sudan: a hydro-economic optimization model for the Sudanese Blue Nile. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2015;19(5):2275-2293. doi:10.5194/hess-19-2275-2015

858. Wu J, Filippidi A, Davies GR, De lange GJ. Riverine supply to the eastern Mediterranean during last interglacial sapropel S5 formation: A basin-wide perspective. *CHEMICAL GEOLOGY*. 2018;485:74-89. doi:10.1016/j.chemgeo.2018.03.037
859. Kebede A, Diekkrueger B, Edossa DC. Dry spell, onset and cessation of the wet season rainfall in the Upper Baro-Akobo Basin, Ethiopia. *THEORETICAL AND APPLIED CLIMATOLOGY*. 2017;129(3-4):849-858. doi:10.1007/s00704-016-1813-y
860. Allinson G, Salzman SA, Turoczy N, et al. Trace Metal Concentrations in Nile Tilapia (*Oreochromis niloticus*) in Three Catchments, Sri Lanka. *BULLETIN OF ENVIRONMENTAL CONTAMINATION AND TOXICOLOGY*. 2009;82(3):389-394. doi:10.1007/s00128-008-9580-9
861. Ondhoro CC, Masembe C, Maes GE, et al. Condition factor, Length - Weight relationship, and the fishery of *Barbus altianalis* (Boulenger 1900) in Lakes Victoria and Edward basins of Uganda. *ENVIRONMENTAL BIOLOGY OF FISHES*. 2017;100(2):99-110. doi:10.1007/s10641-016-0540-7
862. Artan G, Gadain H, Smith JL, Asante K, Bandaragoda CJ, Verdin JP. Adequacy of satellite derived rainfall data for stream flow modeling. *NATURAL HAZARDS*. 2007;43(2):167-185. doi:10.1007/s11069-007-9121-6
863. Liu Y, Du T, Huang H, Liu Y, Zhang Y. Estimation of sediment compaction and its relationship with river channel distributions in the Yellow River delta, China. *CATENA*. 2019;182. doi:10.1016/j.catena.2019.104113
864. Botteron A. Creating flexibility in freshwater availability for the Eastern Nile Basin. In: Islam S, Smith KM, eds. *INTERDISCIPLINARY COLLABORATION FOR WATER DIPLOMACY: A PRINCIPLED AND PRAGMATIC APPROACH*. Earthscan Studies in Water Resource Management. ; 2020:166-186.
865. Gebreslassie HG, Melesse AM, Bishop K, Gebremariam AG. Linear spectral unmixing algorithm for modelling suspended sediment concentration of flash floods, upper Tekeze River, Ethiopia. *INTERNATIONAL JOURNAL OF SEDIMENT RESEARCH*. 2020;35(1):79-90. doi:10.1016/j.ijsrc.2019.07.007
866. Ehrmann W, Schmiedl G, Seidel M, Krueger S, Schulz H. A distal 140 kyr sediment record of Nile discharge and East African monsoon variability. *CLIMATE OF THE PAST*. 2016;12(3):713-727. doi:10.5194/cp-12-713-2016
867. Elagib NA, Basheer M. Would Africa's largest hydropower dam have profound environmental impacts? *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. 2021;28(7):8936-8944. doi:10.1007/s11356-020-11746-4
868. Zeng H, Elnashar A, Wu B, et al. A framework for separating natural and anthropogenic contributions to evapotranspiration of human-managed land covers in watersheds based on machine learning. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2022;823. doi:10.1016/j.scitotenv.2022.153726
869. Kawo NS, Karuppanan S. Groundwater quality assessment using water quality index and GIS technique in Modjo River Basin, central Ethiopia. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2018;147:300-311. doi:10.1016/j.jafrearsci.2018.06.034

870. Gashaw T, Tulu T, Argaw M, Worqlul AW. Modeling the impacts of land use-land cover changes on soil erosion and sediment yield in the Andassa watershed, upper Blue Nile basin, Ethiopia. *ENVIRONMENTAL EARTH SCIENCES*. 2019;78(24). doi:10.1007/s12665-019-8726-x
871. Ayehu G, Tadesse T, Gessesse B, Yigrem Y. Soil Moisture Monitoring Using Remote Sensing Data and a Stepwise-Cluster Prediction Model: The Case of Upper Blue Nile Basin, Ethiopia. *REMOTE SENSING*. 2019;11(2). doi:10.3390/rs11020125
872. Aragaw HM, Goel MK, Mishra SK. Hydrological responses to human-induced land use/land cover changes in the Gidabo River basin, Ethiopia. *HYDROLOGICAL SCIENCES JOURNAL-JOURNAL DES SCIENCES HYDROLOGIQUES*. 2021;66(4):640-655. doi:10.1080/02626667.2021.1890328
873. ShengQiang Y, BuQing S, WeiLi K, et al. The depositional characteristics and formation mechanism of Lower Cretaceous AG Formation in Sufyan sag, Muglad Basin, Sudan. *ACTA PETROLOGICA SINICA*. 2019;35(4):1213-1224. doi:10.18654/1000-0569/2019.04.15
874. Todd MC, Barrett EC, Beaumont MJ. Estimation of daily rainfall at the pixel scale over the upper Nile River basin using meteosat infrared satellite images. In: *EIGHTH CONFERENCE ON SATELLITE METEOROLOGY AND OCEANOGRAPHY*. Amer Meteorol Soc; 1996:282-286.
875. Zaki AS, Giegengack R. Inverted topography in the southeastern part of the Western Desert of Egypt. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2016;121:56-61. doi:10.1016/j.jafrearsci.2016.05.020
876. Aitta A, El-Ramady H, Alshaal T, et al. Seasonal and Spatial Distribution of Soil Trace Elements around Kitchener Drain in the Northern Nile Delta, Egypt. *AGRICULTURE-BASEL*. 2019;9(7). doi:10.3390/agriculture9070152
877. Chatterjee J, Singh SK. Impact of Dissolution of Saline-Alkaline Soils on the Hydrochemistry and Erosion Rates of the Ganga River System. *GEOCHEMISTRY GEOPHYSICS GEOSYSTEMS*. 2022;23(2). doi:10.1029/2021GC009914
878. Wheeler KG, Basheer M, Mekonnen ZT, et al. Cooperative filling approaches for the Grand Ethiopian Renaissance Dam. *WATER INTERNATIONAL*. 2016;41(4, SI):611-634. doi:10.1080/02508060.2016.1177698
879. Wouters P. Customary rules of international watercourses law Overview of riparian positions and new perspectives in the Nile Basin. In: *INTERNATIONAL WATERCOURSES LAW IN THE NILE RIVER BASIN: THREE STATES AT A CROSSROADS*. ; 2013:148-170.
880. Abteu W, Dessu SB. Grand Ethiopian Renaissance Dam Operation and Upstream-Downstream Water Rights. In: *GRAND ETHIOPIAN RENAISSANCE DAM ON THE BLUE NILE*. Springer Geography. ; 2019:115-129. doi:10.1007/978-3-319-97094-3\_8
881. Anand J, Gosain AK, Khosa R. Prediction of land use changes based on Land Change Modeler and attribution of changes in the water balance of Ganga basin to land use change using the

SWAT model. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2018;644:503-519.  
doi:10.1016/j.scitotenv.2018.07.017

882. Francova K, Seifertova M, Blazek R, Gelnar M, Mahmoud ZN, Rehulkova E. Quadriacanthus species (Monogenea: Dactylogyridae) from catfishes (Teleostei: Siluriformes) in eastern Africa: new species, new records and first insights into interspecific genetic relationships. *PARASITES & VECTORS*. 2017;10. doi:10.1186/s13071-017-2223-4
883. Xia F, Yao Q, Zhang J, Wang D. Effects of seasonal variation and resuspension on microplastics in river sediments. *ENVIRONMENTAL POLLUTION*. 2021;286.  
doi:10.1016/j.envpol.2021.117403
884. Samaniego L, Kumar R, Breuer L, et al. Propagation of forcing and model uncertainties on to hydrological drought characteristics in a multi-model century-long experiment in large river basins. *CLIMATIC CHANGE*. 2017;141(3):435-449. doi:10.1007/s10584-016-1778-y
885. Swallow BM, Sang JK, Nyabenge M, Bundotich DK, Duraiappah AK, Yatich TB. Tradeoffs, synergies and traps among ecosystem services in the Lake Victoria basin of East Africa. *ENVIRONMENTAL SCIENCE & POLICY*. 2009;12(4, SI):504-519.  
doi:10.1016/j.envsci.2008.11.003
886. Molina JL, Rodriguez-Gonzalvez P, Molina MC, et al. River Morphodynamics Modelling through Suitability Analysis of Geomatic Methods. In: Zhaoyin W, Lee JHW, Jizhang G, Shuyou C, eds. *PROCEEDINGS OF THE 35TH IAHR WORLD CONGRESS, VOLS I AND II*. Minist Water Resources; China Inst Water Resources & Hydropower Res; Sichuan Univ; Tsinghua Univ; Univ Hong Kong; Chengdu Municipal Peoples Govt; 2013:4436-4448.
887. Abiy AZ, Melesse AM. Evaluation of watershed scale changes in groundwater and soil moisture storage with the application of GRACE satellite imagery data. *CATENA*. 2017;153:50-60.  
doi:10.1016/j.catena.2017.01.036
888. Berihun ML, Tsunekawa A, Haregeweyn N, et al. Hydrological responses to land use/land cover change and climate variability in contrasting agro-ecological environments of the Upper Blue Nile basin, Ethiopia. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2019;689:347-365.  
doi:10.1016/j.scitotenv.2019.06.338
889. Bekele D, Alamirew T, Kebede A, Zeleke G, Melesse AM. Modeling Climate Change Impact on the Hydrology of Keleta Watershed in the Awash River Basin, Ethiopia. *ENVIRONMENTAL MODELING & ASSESSMENT*. 2019;24(1):95-107. doi:10.1007/s10666-018-9619-1
890. Beuning KRM, Kelts K, Russell J, Wolfe BB. Reassessment of Lake Victoria - Upper Nile River paleohydrology from oxygen isotope records of lake-sediment cellulose. *GEOLOGY*. 2002;30(6):559-562. doi:10.1130/0091-7613(2002)030<0559:ROLVUN>2.0.CO;2
891. Alhamsry A, Fenta AA, Yasuda H, Shimizu K, Kawai T. Prediction of summer rainfall over the source region of the Blue Nile by using teleconnections based on sea surface temperatures. *THEORETICAL AND APPLIED CLIMATOLOGY*. 2019;137(3-4):3077-3087.  
doi:10.1007/s00704-019-02796-x
892. Akale AT, Dagnew DC, Moges MA, Tilahun SA, Steenhuis TS. The Effect of Landscape Interventions on Groundwater Flow and Surface Runoff in a Watershed in the Upper Reaches of

the Blue Nile. *WATER*. 2019;11(10). doi:10.3390/w11102188

893. Wei Y, Wei J, Li G, et al. A socio-hydrological framework for understanding conflict and cooperation with respect to transboundary rivers. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2022;26(8):2131-2146. doi:10.5194/hess-26-2131-2022
894. Dodds PS, Rothman DH. Geometry of river networks. II. Distributions of component size and number. *PHYSICAL REVIEW E*. 2001;63(1, 2). doi:10.1103/PhysRevE.63.016116
895. Yang SL, Shi Z, Zhao HY, Li P, Dai SB, Gao A. Effects of human activities on the Yangtze River suspended sediment flux into the estuary in the last century. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2004;8(6):1210-1216. doi:10.5194/hess-8-1210-2004
896. Nagy B. *Nothobranchius taiti*, a new species of annual killifish from the upper Nile drainage in Uganda (Teleostei: Nothobranchiidae). *ICHTHYOLOGICAL EXPLORATION OF FRESHWATERS*. 2019;29(1):19-31. doi:10.23788/IEF-1091
897. Okidi C. The Doctrines of Sovereignty and Equitable Utilization of International Waters Under the Agreement on the Nile River Basin Cooperative Framework. In: Tvedt T, McIntyre O, Woldetsadik TK, eds. *HISTORY OF WATER, SERIES III, VOL 2: SOVEREIGNTY AND INTERNATIONAL WATER LAW*. Vol 2. History of Water Series III. ; 2015:666-686.
898. Zou L, Miller SN, Schmidtman ET. Mosquito larval habitat mapping using remote sensing and GIS: Implications of coalbed methane development and West Nile virus. *JOURNAL OF MEDICAL ENTOMOLOGY*. 2006;43(5):1034-1041. doi:10.1603/0022-2585(2006)43[1034:MLHMUR]2.0.CO;2
899. Abou Samra RM, Ali RR. Detection of the filling phases of the Grand Ethiopian Renaissance dam using sentinel-1 SAR data. *EGYPTIAN JOURNAL OF REMOTE SENSING AND SPACE SCIENCES*. 2021;24(3, 2):991-997. doi:10.1016/j.ejrs.2021.11.006
900. Vorosmarty CJ, Meybeck M, Fekete B, Sharma K, Green P, Syvitski JPM. Anthropogenic sediment retention: major global impact from registered river impoundments. *GLOBAL AND PLANETARY CHANGE*. 2003;39(1-2):169-190. doi:10.1016/S0921-8181(03)00023-7
901. Goor Q, Kelman R, Tilmant A. Optimal Multipurpose-Multireservoir Operation Model with Variable Productivity of Hydropower Plants. *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT*. MAY-JUN 2011;137(3):258-267. doi:10.1061/(ASCE)WR.1943-5452.0000117
902. Dommain R, Riedl S, Olaka LA, et al. Holocene bidirectional river system along the Kenya Rift and its influence on East African faunal exchange and diversity gradients. *PROCEEDINGS OF THE NATIONAL ACADEMY OF SCIENCES OF THE UNITED STATES OF AMERICA*. 2022;119(28). doi:10.1073/pnas.2121388119
903. Nigate F, Van Camp M, Yenehun A, Belay AS, Walraevens K. Recharge-Discharge Relations of Groundwater in Volcanic Terrain of Semi-Humid Tropical Highlands of Ethiopia: The Case of Infranz Springs, in the Upper Blue Nile. *WATER*. 2020;12(3). doi:10.3390/w12030853
904. Ward FA, Booker JF, Michelsen AM. Integrated economic, hydrologic, and institutional analysis

of policy responses to mitigate drought impacts in Rio Grande Basin. *JOURNAL OF WATER RESOURCES PLANNING AND MANAGEMENT-ASCE*. NOV-DEC 2006;132(6):488-502. doi:10.1061/(ASCE)0733-9496(2006)132:6(488)

905. Chauhan N, Kumar V, Paliwal R. Quantifying the impacts of decadal landuse change on the water balance components using soil and water assessment tool in Ghaggar river basin. *SN APPLIED SCIENCES*. 2020;2(11). doi:10.1007/s42452-020-03606-0
906. Lemmela R, Helenius N, eds. The Second International Conference on Climate and Water - ESPOO, Finland 17-20 Aug 1998. In: *PROCEEDINGS OF THE SECOND INTERNATIONAL CONFERENCE ON CLIMATE AND WATER, VOLS 1-3*. Helsinki Univ Technol; World Meteorol Org; UNESCO; European Commiss; Int Atom Energy Agcy; European Themat Network Educ & Training Environm Water; Technol Water Resources; Int Assoc Hydrol Sci; Int Commiss Hydrol Rhine Basin; Austrian Natl Comm IHP; Acad Finland, Natl Comm Int Hydrol Programme; Finnish Minist Agr & Forestry; Finnish Minist Environm; Finnish UNESCO Commiss; Finnish Geophys Soc; Interamer Inst Climate Change Res; Keski Uusimaa Joint Municipal Board Water Pollut Control; Kemijoki Oy; City Espoo; Finnair; 1998:961-967.
907. Assefa WW, Eneyew BG, Wondie A. Macroinvertebrate assemblages along a gradient of physicochemical characteristics in four riverine wetlands, Upper Blue Nile basin, Northwestern Ethiopia. *ENVIRONMENTAL MONITORING AND ASSESSMENT*. 2023;195(6). doi:10.1007/s10661-023-11243-4
908. Winker H, Weyl OLF, Booth AJ, Ellender BR. Life history strategy and population characteristics of an unexploited riverine cyprinid, *Labeo capensis*, in the largest impoundment in the Orange River Basin. *AFRICAN ZOOLOGY*. 2012;47(1):85-99. doi:10.3377/004.047.0124
909. Tiping D, Jianfei G, Shihong T, et al. Chemical and Isotopic Characters of the Water and Suspended Particulate Materials in the Yellow River and Their Geological and Environmental Implications. *ACTA GEOLOGICA SINICA-ENGLISH EDITION*. 2016;90(1):285-351. doi:10.1111/1755-6724.12658
910. Ibrahim HA, Ewida HF, Senosy AH, Ebraheem MO. 3D Subsurface Modeling for Studying Structural Features and Identifying Potential Hydrocarbon Zones Using Well Logging and Seismic Reflection Data in the Al Baraka Oil Field, Komombo Basin, Upper Egypt. *PURE AND APPLIED GEOPHYSICS*. Published online 2022. doi:10.1007/s00024-022-03175-w
911. Hussien K, Kebede A, Mekuriaw A, Beza SA, Erena SH. Spatiotemporal trends of NDVI and its response to climate variability in the Abbay River Basin, Ethiopia. *HELIYON*. 2023;9(3). doi:10.1016/j.heliyon.2023.e14113
912. Paillou P, Schuster M, Tooth S, et al. Mapping of a major paleodrainage system in eastern Libya using orbital imaging radar: The Kufrah River. *EARTH AND PLANETARY SCIENCE LETTERS*. 2009;277(3-4):327-333. doi:10.1016/j.epsl.2008.10.029
913. El Baroudy AA, Moghanm FS. Combined use of remote sensing and GIS for degradation risk assessment in some soils of the Northern Nile Delta, Egypt. *EGYPTIAN JOURNAL OF REMOTE SENSING AND SPACE SCIENCES*. 2014;17(1):77-85. doi:10.1016/j.ejrs.2014.01.001
914. Bitew MM, Gebremichael M, Hirpa FA, Gebrewubet YM, Seleshi Y, Girma Y. On the local-

scale spatial variability of daily summer rainfall in the humid and complex terrain of the Blue Nile: observational evidence. *HYDROLOGICAL PROCESSES*. 2009;23(26, SI):3670-3674. doi:10.1002/hyp.7468

915. Drake C. Water resource conflicts in the Middle East. *JOURNAL OF GEOGRAPHY*. JAN-FEB 1997;96(1):4-12. doi:10.1080/00221349708978749
916. Dutton CL, Subalusky AL, Hill TD, et al. A 2000-year sediment record reveals rapidly changing sedimentation and land use since the 1960s in the Upper Mara-Serengeti Ecosystem. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2019;664:148-160. doi:10.1016/j.scitotenv.2019.01.421
917. Elsheikh S, Kaikai A, Andah K. INTENSIVE SEDIMENT TRANSPORT FROM THE UPPER NILE BASIN AND WATER-RESOURCES MANAGEMENT IN SUDAN. In: Vandeven F, Gutknecht D, Loucke DP, Salewicz KA, eds. *HYDROLOGY FOR THE WATER MANAGEMENT OF LARGE RIVER BASINS*. Vol 201. IAHS PUBLICATION. INT UNION GEODESY & GEOPHYS; INT ASSOC HYDROL SCI, INT COMMISS SURFACE WATER; WORLD METEOROL ORG; 1991:291-300.
918. Gebremicael TG. Understanding the Impact of Human Interventions on the Hydrology of Nile Basin Headwaters, the Case of Upper Tekeze Catchments. In: *UNDERSTANDING THE IMPACT OF HUMAN INTERVENTIONS ON THE HYDROLOGY OF NILE BASIN HEADWATERS, THE CASE OF UPPER TEKEZE CATCHMENTS*. ; 2019:1-179. doi:10.1201/9780367853167
919. Sebesta O, Gelbic I, Pesko J. Seasonal dynamics of mosquito occurrence in the Lower Dyje River Basin at the Czech-Slovak-Austrian border. *ITALIAN JOURNAL OF ZOOLOGY*. 2013;80(1):125-138. doi:10.1080/11250003.2012.753119
920. Zewudu A, Beneberu G, Minigst M, Mezgebu A. Development of a multimetric index for assessing the ecological integrity of some selected rivers and streams in the north-eastern part of Lake Tana sub-basin, Ethiopia. *AFRICAN JOURNAL OF AQUATIC SCIENCE*. 2022;47(1):1-10. doi:10.2989/16085914.2021.1933375
921. Cheddadi R, Rossignolstrick M. EASTERN MEDITERRANEAN QUATERNARY PALEOCLIMATES FROM POLLEN AND ISOTOPE RECORDS OF MARINE CORES IN THE NILE CONE AREA. *PALEOCEANOGRAPHY*. 1995;10(2):291-300. doi:10.1029/94PA02672
922. Ammar NR, Elgohary MM, Zeid A, Elkafas AG. Prediction of Shallow Water Resistance for a New Ship Model Using CFD Simulation: Case Study Container Barge. *JOURNAL OF SHIP PRODUCTION AND DESIGN*. 2019;35(2):198-206. doi:10.5957/JSPD.11170051
923. Adane GB, Hirpa BA, Lim CH, Lee WK. Evaluation and Comparison of Satellite-Derived Estimates of Rainfall in the Diverse Climate and Terrain of Central and Northeastern Ethiopia. *REMOTE SENSING*. 2021;13(7). doi:10.3390/rs13071275
924. Bayon G, Toucane S, Skonieczny C, et al. Rare earth elements and neodymium isotopes in world river sediments revisited. *GEOCHIMICA ET COSMOCHIMICA ACTA*. 2015;170:17-38. doi:10.1016/j.gca.2015.08.001
925. Sivanpillai R, Miller SN. Improvements in mapping water bodies using ASTER data.

926. Daba MH, Ayele GT, You S. Long-Term Homogeneity and Trends of Hydroclimatic Variables in Upper Awash River Basin, Ethiopia. *ADVANCES IN METEOROLOGY*. 2020;2020. doi:10.1155/2020/8861959
927. Cuenca-Apolo DX, Rosado HGD, Villar RA. West Nile virus encephalitis outbreak in the Guadalquivir river basin area: Experience and results in patients admitted in intensive care unit. *MEDICINA INTENSIVA*. 2022;46(9):530+. doi:10.1016/j.medin.2021.11.009
928. Fikadie FT, Wubneh MA, Kifelew MS, Sinshaw BG. Assessment of surface irrigation potential and crop water requirement: the case of Megech watershed, Upper Blue Nile Basin, Ethiopia. *SUSTAINABLE WATER RESOURCES MANAGEMENT*. 2022;8(4). doi:10.1007/s40899-022-00690-5
929. Roba NT, Kassa AK, Geleta DY, Harka AE. Streamflow and sediment yield estimation, and area prioritization for better conservation planning in the Dawe River watershed of the Wabi Shebelle River Basin, Ethiopia. *HELIYON*. 2021;7(12). doi:10.1016/j.heliyon.2021.e08509
930. Chenglong W, Yifei Z, Xinqing Z, Xinwanghao X, Chendong G. Recent changing patterns of the Changjiang (Yangtze River) Estuary caused by human activities. *ACTA OCEANOLOGICA SINICA*. 2017;36(4):87-96. doi:10.1007/s13131-017-1017-z
931. Nazir HM, Hussain I, Faisal M, et al. Dependence structure analysis of multisite river inflow data using vine copula-CEEMDAN based hybrid model. *PEERJ*. 2020;8. doi:10.7717/peerj.10285
932. Wouters P. Understanding the Nile. In: *INTERNATIONAL WATERCOURSES LAW IN THE NILE RIVER BASIN: THREE STATES AT A CROSSROADS*. ; 2013:20-35.
933. Steinberg J, Gvirtzman Z, Folkman Y, Garfunkel Z. Origin and nature of the rapid late Tertiary filling of the Levant Basin. *GEOLOGY*. 2011;39(4):355-358. doi:10.1130/G31615.1
934. Martinez-Durazo A, Rivera-Dominguez M, Garcia-Gasca SA, Betancourt-Lozano M, Cruz-Acevedo E, Jara-Marini ME. Assessing metal(loid)s concentrations and biomarkers in tilapia (*Oreochromis niloticus*) and largemouth bass (*Micropterus salmoides*) of three ecosystems of the Yaqui River Basin, Mexico. *ECOTOXICOLOGY*. 2023;32(2):166-187. doi:10.1007/s10646-023-02620-3
935. Duan Z, Gao H, Ke C. Estimation of Lake Outflow from the Poorly Gauged Lake Tana (Ethiopia) Using Satellite Remote Sensing Data. *REMOTE SENSING*. 2018;10(7). doi:10.3390/rs10071060
936. Carriquiry JD, Sanchez A, Camacho-Ibar VF. Sedimentation in the northern Gulf of California after cessation of the Colorado River discharge. *SEDIMENTARY GEOLOGY*. 2001;144(1-2, SI):37-62. doi:10.1016/S0037-0738(01)00134-8
937. Wheeler KG, Jeuland M, Hall JW, Zagona E, Whittington D. Understanding and managing new risks on the Nile with the Grand Ethiopian Renaissance Dam. *NATURE COMMUNICATIONS*. 2020;11(1). doi:10.1038/s41467-020-19089-x



938. Salem ZES, Osman OM. Use of major ions to evaluate the hydrogeochemistry of groundwater influenced by reclamation and seawater intrusion, West Nile Delta, Egypt. *ENVIRONMENTAL SCIENCE AND POLLUTION RESEARCH*. 2017;24(4):3675-3704. doi:10.1007/s11356-016-8056-4
939. Gohar AA, Ward FA. Mitigating impacts of water shortage on Egyptian agriculture: a catchment scale analysis. *WATER POLICY*. 2013;15(5):738-760. doi:10.2166/wp.2013.091
940. Franco JL, Trevisan R, Posser T, et al. Biochemical alterations in caged Nile tilapia *Oreochromis niloticus*. *ECOTOXICOLOGY AND ENVIRONMENTAL SAFETY*. 2010;73(5):864-872. doi:10.1016/j.ecoenv.2010.03.002
941. El-Rawy M, Abdalla F, El Alfy M. Water Resources in Egypt. In: Hamimi Z, ElBarkooky A, Frias JM, Fritz H, AbdElRahman Y, eds. *GEOLOGY OF EGYPT*. Regional Geology Reviews. ; 2020:687-711. doi:10.1007/978-3-030-15265-9\_18
942. Basheer M, Elagib NA. Sensitivity of Water-Energy Nexus to dam operation: A Water-Energy Productivity concept. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2018;616:918-926. doi:10.1016/j.scitotenv.2017.10.228
943. Gessesse AA, Melesse AM, Abiy AZ. Land use dynamics and base and peak flow responses in the Choke mountain range, Upper Blue Nile Basin, Ethiopia. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2021;19(1):109-121. doi:10.1080/15715124.2019.1672700
944. Kansara P, Li W, El-Askary H, et al. An Assessment of the Filling Process of the Grand Ethiopian Renaissance Dam and Its Impact on the Downstream Countries. *REMOTE SENSING*. 2021;13(4). doi:10.3390/rs13040711
945. Li P, Li H, Yang G, Zhang Q, Diao Y. Assessing the Hydrologic Impacts of Land Use Change in the Taihu Lake Basin of China from 1985 to 2010. *WATER*. 2018;10(11). doi:10.3390/w10111512
946. Fagbemi MNA, Pigneur LM, Andre A, et al. Genetic structure of wild and farmed Nile tilapia (*Oreochromis niloticus*) populations in Benin based on genome wide SNP technology. *AQUACULTURE*. 2021;535. doi:10.1016/j.aquaculture.2021.736432
947. Elbana M, Refaie KM, El-Shirbeny MA, et al. Indirect Estimation of Deep Percolation Using Soil Water Balance Equation and Nasa Land Simulation Model (LIS) for More Sustainable Water Management. *EGYPTIAN JOURNAL OF SOIL SCIENCE*. FAL 2019;59(4):363-383. doi:10.21608/ejss.2019.17427.1310
948. Haile AT, Tefera FT, Rientjes T. Flood forecasting in Niger-Benue basin using satellite and quantitative precipitation forecast data. *INTERNATIONAL JOURNAL OF APPLIED EARTH OBSERVATION AND GEOINFORMATION*. 2016;52:475-484. doi:10.1016/j.jag.2016.06.021
949. Gumindoga W, Rientjes THM, Haile AT, Dube T. Predicting streamflow for land cover changes in the Upper Gilgel Abay River Basin, Ethiopia: A TOPMODEL based approach. *PHYSICS AND CHEMISTRY OF THE EARTH*. 2014;76-78:3-15. doi:10.1016/j.pce.2014.11.012

950. Salem ZE, Atwia MG, El-Horiny MM. Hydrogeochemical analysis and evaluation of groundwater in the reclaimed small basin of Abu Mina, Egypt. *HYDROGEOLOGY JOURNAL*. 2015;23(8):1781-1797. doi:10.1007/s10040-015-1303-9
951. Basheer AK, Lu H, Omer A, Ali AB, Abdelgader AMS. Impacts of climate change under CMIP5 RCP scenarios on the streamflow in the Dinder River and ecosystem habitats in Dinder National Park, Sudan. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2016;20(4):1331-1353. doi:10.5194/hess-20-1331-2016
952. Ali M, Darwish M, Essa MA, Abdelhady A. Comparison of the Dakhla Formation source rock potential between Komombo Basin and Gebel Duwi, Upper Egypt. *ARABIAN JOURNAL OF GEOSCIENCES*. 2019;12(19). doi:10.1007/s12517-019-4833-y
953. Engda TA, Bayabil HK, Legesse ES, et al. Watershed Hydrology of the (Semi) Humid Ethiopian Highlands. In: Melesse AM, ed. *NILE RIVER BASIN: HYDROLOGY, CLIMATE AND WATER USE*. ; 2011:145-162. doi:10.1007/978-94-007-0689-7\_7
954. Abdel-Moneim AM, Essawy AE, El-Din NKB, El-Naggar NM. Biochemical and histopathological changes in liver of the Nile tilapia from Egyptian polluted lakes. *TOXICOLOGY AND INDUSTRIAL HEALTH*. 2016;32(3):457-467. doi:10.1177/0748233713503374
955. Gong C, Wang Y, Zhu W, Li W, Xu Q. Upper Miocene to Quaternary unidirectionally migrating deep-water channels in the Pearl River Mouth Basin, northern South China Sea. *AAPG BULLETIN*. 2013;97(2):285-308. doi:10.1306/07121211159
956. Liersch S, Tecklenburg J, Rust H, et al. Are we using the right fuel to drive hydrological models? A climate impact study in the Upper Blue Nile. *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2018;22(4):2163-2185. doi:10.5194/hess-22-2163-2018
957. Giaime M, Salem A, Wang Y, et al. Holocene evolution and signature of environmental change of the Burullus lagoon (Nile Delta) deciphered from a long sediment record. *PALAEOGEOGRAPHY PALAEOCLIMATOLOGY PALAEOECOLOGY*. 2022;590. doi:10.1016/j.palaeo.2022.110861
958. Kizza M, Westerberg I, Rodhe A, Ntale HK. Estimating areal rainfall over Lake Victoria and its basin using ground-based and satellite data. *JOURNAL OF HYDROLOGY*. 2012;464:401-411. doi:10.1016/j.jhydrol.2012.07.024
959. Teklay A, Dile YT, Asfaw DH, Bayabil HK, Sisay K, Ayalew A. Modeling the impact of climate change on hydrological responses in the Lake Tana basin, Ethiopia. *DYNAMICS OF ATMOSPHERES AND OCEANS*. 2022;97. doi:10.1016/j.dynatmoce.2021.101278
960. Masoud AA. Groundwater quality assessment of the shallow aquifers west of the Nile Delta (Egypt) using multivariate statistical and geostatistical techniques. *JOURNAL OF AFRICAN EARTH SCIENCES*. 2014;95:123-137. doi:10.1016/j.jafrearsci.2014.03.006
961. Summerfield MA, Hulton NJ. NATURAL CONTROLS OF FLUVIAL DENUDATION RATES IN MAJOR WORLD DRAINAGE BASINS. *JOURNAL OF GEOPHYSICAL RESEARCH-SOLID EARTH*. 1994;99(B7):13871-13883. doi:10.1029/94JB00715

962. Shawul AA, Chakma S, Melesse AM. The response of water balance components to land cover change based on hydrologic modeling and partial least squares regression (PLSR) analysis in the Upper Awash Basin. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2019;26. doi:10.1016/j.ejrh.2019.100640
963. Svoboda WK, Martins LC, Malanski L de S, et al. Serological evidence for Saint Louis encephalitis virus in free-ranging New World monkeys and horses within the upper Parana River basin region, Southern Brazil. *REVISTA DA SOCIEDADE BRASILEIRA DE MEDICINA TROPICAL*. MAY-JUN 2014;47(3):280-286. doi:10.1590/0037-8682-0083-2014
964. Liu Y, Wu G, Fan X, Gan G, Wang W, Liu Y. Hydrological impacts of land use/cover changes in the Lake Victoria basin. *ECOLOGICAL INDICATORS*. 2022;145. doi:10.1016/j.ecolind.2022.109580
965. Hassaballah K, Mohamed Y, Uhlenbrook S, Biro K. Analysis of streamflow response to land use and land cover changes using satellite data and hydrological modelling: case study of Dinder and Rahad tributaries of the Blue Nile (Ethiopia-Sudan). *HYDROLOGY AND EARTH SYSTEM SCIENCES*. 2017;21(10):5217-5242. doi:10.5194/hess-21-5217-2017
966. Adegun AO, Akinnifesi TA, Ololade IA, et al. Quantification of Neonicotinoid Pesticides in Six Cultivable Fish Species from the River Owena in Nigeria and a Template for Food Safety Assessment. *WATER*. 2020;12(9). doi:10.3390/w12092422
967. Onyekakeyah L. Transboundary Water Resources Management in Africa. In: Shang HQ, Luo XX, eds. *PROCEEDINGS OF THE 3RD INTERNATIONAL YELLOW RIVER FORUM ON SUSTAINABLE WATER RESOURCES MANAGEMENT AND DELTA ECOSYSTEM MAINTENANCE, VOL I*. Yellow River Conservancy Commiss; EU, China River Basin Management Program; Minist Environm; WWF; Dept Int Dev; World Bank; Asian Dev Bank; Global Water Partnership; Challenge Program Water & Food; Int Network Basin Org; World Conservat Union; Asia Sci Reg Off Global Water Syst Program; Natl Nat Sci Fdn China; Tsinghua Univ; CAS, Ctr Water Resources Res; China Inst Water Resources & Hydropower Res; Nanjing Hydraul Res Inst; Yellow River Water & Hydropower Dev Corp; Int Econ Tech Cooperat & Exchange Ctr; Yellow River Shangdong Bur; Dongying Municipal Govt Shandong Prov; Shengli Petr Adm Bur; 2007:221-228.
968. Taye M, Mengistu D, Sahlu D. Performance evaluation of multiple satellite rainfall data sets in central highlands of Abbay Basin, Ethiopia. *EUROPEAN JOURNAL OF REMOTE SENSING*. 2023;56(1). doi:10.1080/22797254.2023.2233686
969. Ali FS, Ismail M, Aly W. DNA barcoding to characterize biodiversity of freshwater fishes of Egypt. *MOLECULAR BIOLOGY REPORTS*. 2020;47(8):5865-5877. doi:10.1007/s11033-020-05657-3
970. Bezault E, Balaesque P, Toguyeni A, et al. Spatial and temporal variation in population genetic structure of wild Nile tilapia (*Oreochromis niloticus*) across Africa. *BMC GENETICS*. 2011;12. doi:10.1186/1471-2156-12-102
971. Gonzalez-Alvarez I, Kerrich R. Weathering intensity in the Mesoproterozoic and modern large-river systems: A comparative study in the Belt-Purcell Supergroup, Canada and USA. *PRECAMBRIAN RESEARCH*. 2012;208:174-196. doi:10.1016/j.precamres.2012.04.008

972. Brown FH, Haileab B, McDougall I. Sequence of tuffs between the KBS Tuff and the Chari Tuff in the Turkana Basin, Kenya and Ethiopia. *JOURNAL OF THE GEOLOGICAL SOCIETY*. 2006;163(1):185-204. doi:10.1144/0016-764904-165
973. Zaremba M, Trzcinski J, Welc F. HOLOCENE LAKE SEDIMENTS AS A SOURCE OF BUILDING MATERIAL IN ANCIENT EGYPT; ARCHEOMETRIC EVIDENCE FROM WADI TUMILAT (NILE DELTA). *STUDIA QUATERNARIA*. 2017;34(2):109-118. doi:10.1515/squa-2017-0009
974. Santoro MM, Hassan FA, Wahab MMA, Cervený RS, Balling RC. An aggregated climate teleconnection index linked to historical Egyptian famines of the last thousand years. *HOLOCENE*. 2015;25(5):872-879. doi:10.1177/0959683614567880
975. Green JL, Lin BZ, Koren V. HOW ESTIMATES FROM EXISTING INFRARED SATELLITE PRECIPITATION ALGORITHMS AFFECT A DISTRIBUTED HYDROLOGICAL MODEL USED TO SIMULATE STREAMFLOW IN THE BLUE NILE RIVER BASIN. In: *SEVENTH CONFERENCE ON SATELLITE METEOROLOGY AND OCEANOGRAPHY*. AMER METEOROL SOC; 1994:355-359.
976. Haliva-Cohen A, Stein M, Goldstein SL, Sandler A, Starinsky A. Sources and transport routes of fine detritus material to the Late Quaternary Dead Sea basin. *QUATERNARY SCIENCE REVIEWS*. 2012;50:55-70. doi:10.1016/j.quascirev.2012.06.014
977. Berihun ML, Tsunekawa A, Haregeweyn N, Tsubo M, Fenta AA. Changes in ecosystem service values strongly influenced by human activities in contrasting agro-ecological environments. *ECOLOGICAL PROCESSES*. 2021;10(1). doi:10.1186/s13717-021-00325-1
978. Alaminie AA, Tilahun SA, Legesse SA, Zimale FA, Tarkegn GB, Jury MR. Evaluation of Past and Future Climate Trends under CMIP6 Scenarios for the UBNB (Abay), Ethiopia. *WATER*. 2021;13(15). doi:10.3390/w13152110
979. Eshete DG, Rigler G, Shinshaw BG, Belete AM, Bayeh BA. Evaluation of streamflow response to climate change in the data-scarce region, Ethiopia. *SUSTAINABLE WATER RESOURCES MANAGEMENT*. 2022;8(6). doi:10.1007/s40899-022-00770-6
980. Alaminie AA, Amarnath G, Padhee SK, et al. Nested hydrological modeling for flood prediction using CMIP6 inputs around Lake Tana, Ethiopia. *JOURNAL OF HYDROLOGY-REGIONAL STUDIES*. 2023;46. doi:10.1016/j.ejrh.2023.101343
981. Wehausen R, Brumsack HJ. Cyclic variations in the chemical composition of eastern Mediterranean Pliocene sediments: a key for understanding sapropel formation. *MARINE GEOLOGY*. 1999;153(1-4):161-176. doi:10.1016/S0025-3227(98)00083-8
982. Skliris N, Sofianos S, Lascaratos A. Hydrological changes in the Mediterranean Sea in relation to changes in the freshwater budget: A numerical modelling study. *JOURNAL OF MARINE SYSTEMS*. 2007;65(1-4):400-416. doi:10.1016/j.jmarsys.2006.01.015
983. Teshome DS, Taddese H, Tolessa T, Kidane M, You S. Drivers and Implications of Land Cover Dynamics in Muger Sub-Basin, Abay Basin, Ethiopia. *SUSTAINABILITY*. 2022;14(18). doi:10.3390/su141811241

984. Brandimarte L, Di Baldassarre G, Bruni G, D'Odorico P, Montanari A. Relation Between the North-Atlantic Oscillation and Hydroclimatic Conditions in Mediterranean Areas. *WATER RESOURCES MANAGEMENT*. 2011;25(5):1269-1279. doi:10.1007/s11269-010-9742-5
985. Kebedew MG, Tilahun SA, Zimale FA, Steenhuis TS. Bottom Sediment Characteristics of a Tropical Lake: Lake Tana, Ethiopia. *HYDROLOGY*. 2020;7(1). doi:10.3390/hydrology7010018
986. Magna EK, Koranteng SS, Donkor A, Gordon C. Health Risk Assessment and Levels of Heavy Metals in Farmed Nile Tilapia (*Oreochromis niloticus*) from the Volta Basin of Ghana. *JOURNAL OF CHEMISTRY*. 2021;2021. doi:10.1155/2021/2273327
987. Dessu SB, Melesse AM, Bhat MG, et al. Development and application of a priority rated optimization model (PROM) for multi-sector water resource management systems. *ENVIRONMENTAL MODELLING & SOFTWARE*. 2019;113:84-97. doi:10.1016/j.envsoft.2018.11.014
988. Ronco P, Fasolato G, Nones M, Di Silvio G. Morphological effects of damming on lower Zambezi River. *GEOMORPHOLOGY*. 2010;115(1-2):43-55. doi:10.1016/j.geomorph.2009.09.029
989. Martinez-Durazo A, Cruz-Acevedo E, Betancourt-Lozano M, Jara-Marini ME. Comparative Assessment of Metal Bioaccumulation in Tilapia and Largemouth Bass from Three Dams of the Yaqui River. *BIOLOGICAL TRACE ELEMENT RESEARCH*. 2021;199(8):3112-3125. doi:10.1007/s12011-020-02425-z
990. Masria A, Esmail M, Tharwat Sarhan A, Eladawy A, Sharaan M. Management strategies for complex sedimentation process: a case study using remote sensing and morpho-dynamics simulation at Damietta Harbour, Nile Delta. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. Published online 2022. doi:10.1080/15715124.2022.2101463
991. Sampietro D, Mansi AH, Capponi M. Moho Depth and Crustal Architecture Beneath the Levant Basin from Global Gravity Field Model. *GEOSCIENCES*. 2018;8(6). doi:10.3390/geosciences8060200
992. Luke C, Meskell L. New deals for the past: the Cold War, American archaeology, and UNESCO in Egypt and Syria. *HISTORY AND ANTHROPOLOGY*. 2023;34(2):194-214. doi:10.1080/02757206.2020.1830769
993. Arnaud-Fassetta G, Provansal M. High frequency variations of water flux and sediment discharge during the Little Ice Age (1586-1725 AD) in the Rhone Delta (Mediterranean France). Relationship to the catchment basin. *HYDROBIOLOGIA*. 1999;410:241-250. doi:10.1023/A:1003865428112
994. Berhanu B, Seleshi Y, Demisse SS, Melesse AM. Flow Regime Classification and Hydrological Characterization: A Case Study of Ethiopian Rivers. *WATER*. 2015;7(6):3149-3165. doi:10.3390/w7063149
995. Ayana EK, Worqlul AW, Steenhuis TS. Evaluation of stream water quality data generated from MODIS images in modeling total suspended solid emission to a freshwater lake. *SCIENCE OF THE TOTAL ENVIRONMENT*. 2015;523:170-177. doi:10.1016/j.scitotenv.2015.03.132

996. Mbungu W, Ntegeka V, Kahimba FC, Taye M, Willems P. Temporal and spatial variations in hydro-climatic extremes in the Lake Victoria basin. *PHYSICS AND CHEMISTRY OF THE EARTH*. 2012;50-52(SI):24-33. doi:10.1016/j.pce.2012.09.002
997. Goldsmith SL, Krom MD, Sandler A, Herut B. Spatial trends in the chemical composition of sediments on the continental shelf and slope off the Mediterranean coast of Israel. *CONTINENTAL SHELF RESEARCH*. OCT-NOV 2001;21(16-17):1879-1900. doi:10.1016/S0278-4343(01)00027-9
998. Zeitoun M, Mirumachi N, Warner J. Transboundary water interaction II: the influence of 'soft' power. *INTERNATIONAL ENVIRONMENTAL AGREEMENTS-POLITICS LAW AND ECONOMICS*. 2011;11(2):159-178. doi:10.1007/s10784-010-9134-6
999. Asante KO, Artan GA, Pervez S, Rowland J. A linear geospatial streamflow modeling system for data sparse environments. *INTERNATIONAL JOURNAL OF RIVER BASIN MANAGEMENT*. 2008;6(3):233-241. doi:10.1080/15715124.2008.9635351
1000. Green JL, Koren V. Results using a simple weighting method to merge satellite and raingage data in the Blue Nile River basin for input into a distributed hydrological model. In: *CONFERENCE ON HYDROLOGY*. Amer Meteorol Soc; 1995:173-177.