



2025 ANNUAL REPORT ON GHANA COMMITTEE FOR UNESCO-IHP ACTIVITIES

GHANA COMMITTEE FOR UNESCO-IHP ACTIVITIES

March 2026

ACRONYMS AND ABBREVIATIONS

BPA	Bui Power Authority
CREMA	Community Resource Management Area
CONIWAS	Coalition of NGOs in Water and Sanitation
CSIR-WRI	Council for Scientific and Industrial Research - Water Research Institute
CWSA	Community Water and Sanitation Agency
EPA	Environmental Protection Agency
Ghana Hydro	Ghana Hydrological Authority
GIDA	Ghana Irrigation Development Authority
GMet	Ghana Meteorological Agency
GWCL	Ghana Water Company Limited
IFRC	International Federation of Red Cross and Red Crescent Societies
IHP	International Hydrological Programme
ITU	International Telecommunication Union
MOGCSP	Ministry of Gender, Children and Social Protection
MSWR	Ministry of Sanitation and Water Resources
SWAT	Soil and Water Assessment Tool
UESD	University of Environmental and Sustainable Development
UNDRR	United Nations Office for Disaster Risk Reduction
UNESCO	United Nations Educational, Scientific and Cultural Organization
UNECE	United Nations Economic Commission for Europe
VRA	Volta River Authority
WASH	Water Sanitation and Hygiene
WMO	World Meteorological Organization
WRC	Water Resources Commission
WWD	World Water Day

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1. Introduction

The Ghana Committee for UNESCO–International Hydrological Programme (IHP) continues to play a central role in advancing hydrological science, water governance, and climate-resilient water resource management in the country. Established in 1976 through administrative approval of the Government of Ghana, the Committee serves as the national platform for coordinating Ghana’s participation in UNESCO-IHP activities, fostering scientific collaboration, and promoting the development and application of water-related research, education, and innovation.

The Committee’s work is guided by the IHP-IX Strategic Plan (2022–2029), which emphasizes science-based solutions for water security, climate resilience, and sustainable development. In line with this mandate, the present report provides a comprehensive account of activities carried out in 2025 across the thematic priority areas: Scientific Research and Innovation; Water Education and Capacity Development; Integrated Water Resources Management; and Water Governance for Resilience and Adaptation. These activities were undertaken through strong partnerships with government agencies, academic and research institutions, civil society, development partners, and UNESCO Water Family institutions.

The report highlights key achievements, including progress in ecohydrology research, hydrological data generation, climate risk assessments, capacity-building programmes, community outreach, policy engagement, and participation in regional and international scientific forums. It also reflects the Committee’s commitment to strengthening institutional collaboration and integrating hydrological science into national decision-making processes.

As Ghana continues to face growing pressures from climate variability, pollution, land-use change, and increasing water demand, the work of the Committee remains more critical than ever. This report demonstrates not only the substantial progress made in 2025 but also the dedication, expertise, and collective action of all partners working to ensure sustainable water management for the benefit of current and future generations.

2. Priority Area 1: Scientific research and innovation

2.1 Sub-priority Area 1.2: Ecohydrology research and innovation at UNESCO-designated sites conducted and shared by the scientific community and UNESCO Water Family, communicated to assess the impact of ecohydrological and nature-based solutions on water cycles and include such solutions in Integrated Water Resource Management (IWRM) and services at all scales and in Sites' management.

Activity No	Title of Activity	Institution (Support)	Objective(s)	Activities / Outcome
2	Strengthening the Community Resource Management Area (CREMA) System of the Lake Bosomtwe Biosphere Reserve in Ghana' project (2024 – 2025)	WRC (UNESCO)	To introduce and initiate ecohydrology principles to all stakeholders and communities around the LBBR.	Activities: In 2025, the project implemented two major interventions: • School Outreach Program The project conducted environmental education in four schools across the Bosomtwe and Bosome Freho Districts, targeting JHS 1–2 pupils. Training combined classroom presentations with practical outdoor sessions on ecohydrology, ecosystems, the water cycle, pollution, and water quality testing. A total of 200 pupils and 16 teachers participated. • Stakeholder Engagement with Traditional Leaders High-level meetings were held in both districts with Traditional Authorities, CREMA Executives, and key state agencies. Discussions centred on buffer zone encroachment, illegal land sales, and related land-use pressures, emphasizing the need for urgent action to protect the LBBR ecosystem and community livelihoods.

Activity No	Title of Activity	Institution (Support)	Objective(s)	Activities / Outcome
				  School outreach programme  Engagement with Chiefs

2.2 Sub-priority Area 1.3: Research on uncertainty in climatic scenarios, hydrological projections and water use scenarios conducted and recommendations communicated to decision makers and the general public to elaborate adaptive water management strategies.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
1.3.1 & 1.6.1	Publications on uncertainty in climatic scenarios, hydrological projections and water use scenarios and intersectoral consultations among research teams	CSIR-WRI	To enhance understanding and address uncertainties related to climatic scenarios, hydrological projections, and water use scenarios	Outcome: • Biney, E.E., Gyamfi, C., Karikari, A.Y., and Darko, D. (2025). Reservoir ecological health assessment methods: A systematic review. <i>Ecological Indicators</i>, 171, 113130. • Obuobie, E., Osei, M.A., Addi, M., Agyekum, J., Akurugu, B.A., Bazaanah, P., Gaisie-Essilfie, F.A. and Appiah, G. (2025). Analysis of Spatio-temporal Trends in Climate Extremes in the Lower Volta Basin, Ghana. <i>Journal of Theoretical and Applied Climatology</i>, 156 (120), https://doi.org/10.1007/s00704-024-05316-8. • Obuobie, E., Agyekum, J., Osei, M.A. and Addi, M. (2025). Changes in Extreme Precipitation Events in the Volta River Basin under 1.5°C, 2°C and 3°C Global Warming Levels. <i>Journal of Theoretical and Applied Climatology</i> 156 (411). https://doi.org/10.1007/s00704-025-05639-0. • Obuobie, E., Osei, M.A., Agyekum, J., Addi, M., Gyasi-Agyei, Y., Boadi, S.A. and Oblim, F.T. (2025). Spatiotemporal analysis of past and future precipitation and temperature extremes over Pra River Basin, Ghana. <i>Modeling Earth Systems and Environment</i> 11 (293). https://doi.org/10.1007/s40808-025-02474-0.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				• Obuobie, E., Akurugu, B.A. and Granaham, P. (2025). A review of the Groundwater characteristics of the crystalline basement rocks in the Pra River Basin, Ghana. Environmental Earth Sciences (2025) 84:427. https://doi.org/10.1007/s12665-025-12426-7 • Akurugu, B.A., Yidana, S.M., Obuobie, E., Seidenfaden, I.K., Stisen, S. and Chegbeleh, L.P. (2025). Groundwater Recharge Estimation from Multiple Independent Methods in the Fractured Hard Rock Aquifers in the Densu River. Sustainable Water Resources Management 11(10), https://doi.org/10.1007/s40899-024-01178-0. • Adjei, F. O., Adjei, K. A. and Obuobie, E. (2025). Calibration of the Hargreaves and Priestley-Taylor equations for estimating reference evapotranspiration in the Densu River Basin in Ghana. African Journal of Environmental Science and Technology, 19(3), 131-142. https://academicjournals.org/journal/AJEST/article-full-text-pdf/02463D273092 • Kyei-Manuh, S., Osei, M.A., Aryee, J.N.A., Quansah, E., Obuobie, E., Amekudzi, L.K. (2025). Lightning and thunderstorms, the source of severe weather over Ghana, West Africa. PLoS Clim 4(9): e0000703. https://doi.org/10.1371/journal.pclm.0000703 • Ashraf, A., Basheer, M., Gonzalez, J.M., Ceseña, E.A.M., Etichia, M., Obuobie, E., Bottacin-Busolin, A., Adamowski, J., Panteli, M. and Harou, J.J.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				(2025). Delivering equity in low-carbon multisector infrastructure planning. <i>Nature Communication</i> (2025) 16:5320. https://doi.org/10.1038/s41467-025-59738-7. - Logah F.Y., E. Adams, F.X. Logah (2025). Flood Vulnerability Assessment of Waste Treatment Sites: A Case Study of the Asafo Sewerage Treatment Plant in Kumasi, Ghana. <i>Ghana Journal of Science</i>, Vol. 66(1) 46-64 https://www.ajol.info/index.php/gjs/article/view/307424 - Boadi, S. A., Owusu, K. & Obour, P.B. (2025). Impact of cashew cultivation on food security, sovereignty, and income diversification in Jaman North District, Ghana. <i>GeoJournal</i>, 90, 36 (2025). https://doi.org/10.1007/s10708-025-11283-y. C.2 Peer Reviewed Conference Papers/Abstracts - Bazaanah, P., Obuobie, E, Boadi, S.A., Oblim, F.T. Granaham, P. and Danban, M.K. (2025). <i>Citizens' perceptions of water and sanitation governance in Bilsikura of the Central Gonja District, Ghana</i>. A paper presented at the Climate Change Conference hosted by Durban University of Technology, South Africa, held on 24-27 February 2025.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				- Manu, E., Majumdar, S., De Lucia, M., Obuobie, E., Lutz, A. and Kühn, M. (2025). <i>Groundwater Level Prediction in the Pra Basin, Ghana: Evaluating the Temporal Generalization of Ensemble and Deep Learning Models</i>. Abstract of paper presented at the American Geophysical Union – AGU, December 2025, https://agu.confex.com/agu/agu25/meetingapp.cgi/Paper/1925475 - Ashraf, A., Basheer, M., Gonzalez, J.M., Martinez, E.A., Etichia, M., Obuobie, E., Bottacin-Busolin, A., Adamowski, J.F., Panteli, M. and Harou, J.J. (2025). <i>Equitable Low-Carbon Transition via Multisector Infrastructure Planning</i>. Abstract of paper presented at the American Geophysical Union – AGU, December 2025, https://agu.confex.com/agu/agu25/meetingapp.cgi/Paper/1991375 - Bazaanah, P. Butalazi, J. and Appia, D. (2025). <i>Qualitative study of drinking water, sanitation, and hygiene access: perspectives from the Central Gonja District, Ghana, and Mtubatuba Municipality, South Africa: A paper presented at the Climate Change Conference (virtual) hosted by Durban University of Technology, South Africa, held on 24-27 February 2025.</i>

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
2	Urgent Call to Action Against Illegal Mining (Galamsey) to Protect Water Resources and Public Health	CONIWAS	To mobilize government, traditional authorities, civil society, and local communities to take coordinated action to stop illegal mining (Galamsey), protect water bodies, safeguard public health, and promote sustainable development.	CONIWAS issued a public call highlighting the severe environmental and health impacts of illegal mining (Galamsey). Although small-scale mining contributes to jobs and national gold production, illegal operations have caused significant river pollution and increased water treatment costs, especially affecting poor communities. Rivers such as the Pra, Ankobra, Birim, and Offin are contaminated with mercury and cyanide, posing long-term health risks including neurological damage and developmental issues in children. CONIWAS urged stronger enforcement of mining and environmental laws, investment in alternative livelihoods, protection of water treatment infrastructure, public education on water safety, and large-scale restoration of degraded lands. The coalition reaffirmed its commitment to equitable WASH services and emphasized that ending Galamsey is critical to safeguarding both public health and Ghana's water security.
3	Climate Risk Informed Decision Analysis (CRIDA) Workshop, 16–20 June 2025, Regional Training Centre for Water Resources and Irrigation (PACWA), Cairo, Egypt	CSIR-WRI, WRC (UNESCO)	To strengthen the capacity of African and MENA countries in climate-resilient water management by training professionals on the CRIDA framework and supporting the development of concept notes and workplans for	Activities: The five-day workshop focused on building technical capacity for applying the Climate Risk Informed Decision Analysis (CRIDA) methodology. The training comprised three main components: CRIDA Methodology Training – introducing tools and steps for assessing climate risks and designing climate-resilient water management strategies.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
			national CRIDA case studies.	GCF Water Project Design Guidelines – equipping participants with skills to prepare climate-resilient project proposals aligned with Green Climate Fund (GCF) requirements. Country-Level Water Resilience Project Presentations – participants developed and presented draft concept notes and reflected on potential CRIDA case studies for implementation. The workshop enhanced participants’ ability to apply CRIDA in planning and evaluating water-related interventions. It also identified promising case study opportunities across Sub-Saharan Africa and the MENA region, with potential for developing bankable climate-resilient water projects for international funding.  Participants at the training workshop

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				 Participants from Ghana giving presentations
3	Ghana Climate Atlas	GMet (Danish Meteorological Institute's)	To develop user-friendly climate information tools that support evidence-based planning, climate risk assessment, and long-term socio-economic resilience in Ghana.	Activities: GMet carried out technical development missions using tools such as the KAPy processing engine to refine localized climate datasets. A strategic partnership with ESRI in October 2025 enabled integration of climate products into ArcGIS and the Africa GeoPortal, improving accessibility and visualization. Stakeholder validation sessions including one with the Volta River Authority (VRA) in November 2025 ensured the Atlas meets national planning needs, especially for hydropower management. Outcome: The Ghana Climate Atlas was completed and brought to operational readiness.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				 GMet technical visit to the Danish Meteorological Institute  Stakeholder validation session with VRA
4	Climate Change Resilience Assessment (CCRA), for the Akosombo and Kpong Dams	Volta River Authority (VRA)	Carry out a Climate Change Resilience Assessment (CCRA) for the 1,020 MW Akosombo and the 160 MW Kpong Hydroelectric Dams, in accordance with the processes and recommendations of the Climate Resilience Guide (CRG) of the Hydropower Sector of the International	Activities: The assessment followed a five-phase process: 1. Climate Risk Screening 2. Initial Analysis 3. Climate Stress Testing 4. Climate Risk Management Planning 5. Monitoring, Evaluation, and Reporting Outcome: A comprehensive report outlining key findings and recommended adaptation measures was developed for

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
			Hydropower Association (2019). Develop adaptation and monitoring strategies through iterative risk assessment and risk management methodologies consistent with the potential sensitivity of the project to climate and other risks.	VRA's consideration. The results were also presented to relevant sector stakeholders for feedback and alignment with national hydropower resilience efforts.  <i>Stakeholder engagement and validation sessions</i>
5	Groundwater monitoring in Adentan and Ga West Municipalities	WRC, WRI and the Adentan and Ga West Municipal Assemblies (Blue Deal)	To evaluate the physical, chemical, and microbiological quality of groundwater in selected communities within Ga West Municipality. To identify potential sources of contamination that may affect water quality, with a focus on waste management practices and sanitation facilities.	This activity involved the collaboration of WRC, WRI and the Municipal Assemblies where; • Geo-referenced data on groundwater wells and boreholes in the Adentan and Ga West Municipalities were collected. • A total of 107 water samples from Adentan and 169 water samples from Ga West Municipalities were collected for testing. Outcome: • A comprehensive technical report for both municipal assemblies was prepared. In summary, most of the samples did not pass the microbiology test for drinking water according to GS 175-201

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				Both communities were sensitised on the need to clean storage tanks at least twice a year and basic hygiene around the well and boreholes.   State of a well in a household An official sampling a well

2.3 Sub-priority Area 1.6: Scientific knowledge, methodologies and tools in addressing water-related disasters, such as flood and drought elaborated and/or enhanced towards timely forecasting.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
1	Using Science Engagement to Capacitate Stakeholders for Climate-Resilient Water Management	CSIR-WRI (Danish Ministry of Foreign Affairs /DANIDA)	To build capacity and enhance awareness on climate change and water management among students, teachers, and school management in five selected senior high schools.	Output: As part of the project’s outreach and stakeholder engagement activities, two blogs were published to document lessons, highlight project outcomes, and promote awareness on climate-resilient water management: Bismark Awimbire Akurugu, Prosper Bazaanah, Sylvester Afram Boadi, Mark Osei-Owusu, Simeon Odametey, Samuel Kyei-Manuh, Salisu Mustapha, Barnabas A. Amisigo and Emmanuel Obuobie. (2025). <i>Using Science Engagement to Empower Stakeholders’ Decision-Making Processes Towards Building Climate-</i>

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				Resilient Water Management in Ghana's Pra and Densu River Basins. Can be accessed from [https://csir-water.com/using-science-engagement-to-empower-stakeholders-decision-making-processes-towards-building-climate-resilient-water-management-in-ghanas-pra-and-densu-river-basins/] ii. Sylvester Afram Boadi, Bismark Awimbire Akurugu, Jacob Agyekum, Martin Addi, Prosper Bazaanah, and Emmanuel Obuobie. (2025). <i>Empowering Students for Climate-Resilient Water Management in Ghana</i>. A blog of the Science Engagement Project, CSIR-Water Research Institute. Can be accessed from [https://csir-water.com/empowering-students-for-climate-resilient-water-management-in-ghana/]
2	Meteorological Virtual Seminar Series	GMet	To enhance knowledge sharing and foster collaboration among stakeholders within Ghana and internationally on atmospheric sciences.	Outcome: The GMet organised virtual seminar series to enhance knowledge sharing on atmospheric sciences and foster collaboration among stakeholders.  <i>Samples of the flyers used in advertising the seminar series</i>

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
3&4	Training Workshop on Integrated Flood and Drought Early Warning System – 26 to 28 November 2025, Accra (MJ Grand Hotel)	WRC, GMET, GH Hydro, MWHWR, CSIR-WRI, University of Ghana etc (Government of Japan)	To equip key stakeholders from government agencies, academia, and local communities with the skills to effectively apply an integrated early warning system for flood and drought risk reduction in Ghana.	Activities: UNESCO Accra organised a three-day technical workshop under the project “Strengthening Resilience to Water-Related Disasters under Climate Change.” The training introduced participants to the Integrated Early Warning System (IEWS), developed by ICHARM and the University of Tokyo, which includes: • A seamless hydro-meteorological modelling system for real-time monitoring • Data integration and forecasting through the DIAS platform • Training on IEWS use and recommendations for community-level support The Volta River Basin, especially its lower reaches in Ghana, served as the focal area for system development and application.
3&4	Using Science Engagement to Capacitate Stakeholders for Climate-Resilient Water Management	CSIR-WRI (Danish Ministry of Foreign Affairs /DANIDA)	To enhance the capacity of government agencies, private sector organisations, CBOs, and selected senior high schools to use climate and water management tools developed under the CREAM project.	Activities: • Stakeholder Engagements Three engagement workshops were held in Kumasi, Koforidua, and Accra. CSIR-WRI presented CREAM project outputs, including climate data, SWAT and MODFLOW model results, ecosystem services valuation, and a water-allocation dashboard. The sessions enhanced understanding of basin governance and strengthened collaboration among stakeholders.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				  Figure 1: Participants of the Pra Basin engagement workshop Figure 2: Participants of the Densu Basin engagement workshop Science Engagement Outreach in Schools Outreach activities in five senior high schools reached nearly 2,000 students. The sessions introduced climate adaptation, climate monitoring, and water management concepts, encouraging student interest especially among girls in environmental careers and promoting stronger stewardship of water resources.   Figure 3: Students at T.I. Ahmadiyya Girls SHS Figure 4: Students at Adeiso Presbyterian SHS
6	Strengthening Resilience to Water-Related Disasters under Climate Change. February 10 2025 – February 9 2026	UNESCO, WRC, GMET, Ghana Hydro (Support from Government of Japan)	To enhance Ghana's resilience to water-related disasters through science-based, innovative, and inclusive interventions.	This UNESCO-led, Japan-funded project aims to improve Ghana's preparedness for flood and drought risks. The initiative focuses on three key areas: - Development of a national Early Warning System (EWS) - Comprehensive climate risk assessments

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				Capacity building across relevant national institutions These efforts contribute to strengthening national systems and enhancing community-level resilience to climate-related hazards.  Signing of the project between the Government of Japan and UNESCO  Inception workshop with the Sector Minister, Ambassador of Japan, and dignitaries

2.4 Sub-priority Area 1.9: Development and sharing of new technologies using, earth observation, Artificial Intelligence and Internet of Things by the scientific community and service providers are communicated to and/or used for capacity strengthening of water stakeholders to increase their use in hydrological planning and assessment as well as monitoring and distribution networks.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
2	Workshop on the Digital Tools for Water Resilience, Accra 17-21 November 2025	WRC, GMET, GH Hydro, MWHWR, CSIR-WRI, University of Ghana etc (Government of Japan)	To train stakeholders on deploying, maintaining, and integrating IoT technologies into the IHP-WINS platform, and to strengthen national capacity in managing, analyzing, and sharing water-related datasets for disaster risk reduction.	Activities: Under the Japan-funded project “Strengthening Resilience on Water-Related Disasters under Climate Change,” UNESCO organized a 4.5-day hands-on workshop in Accra. The training introduced participants to IoT-based monitoring tools—such as gateways, water-level sensors, and weather stations—and demonstrated their integration into the IHP-WINS platform for real-time flood and drought monitoring. A field demonstration in Afiemyia showcased the installation and operation of IoT equipment at a critical monitoring site. Outcome: • Stakeholders trained on IHP-WINS, IoT systems, and citizen-science tools • Successful installation of IoT hardware (gateway, water-level sensor, weather station) in Afiemyia, with live data streamed to a ThingsBoard dashboard • Integration of national datasets into IHP-WINS and alignment of metadata standards • Strengthened institutional collaboration for disaster risk reduction and climate resilience

3. Priority Area 2: Water Education in the Fourth Industrial Revolution including Sustainability

3.1 Sub-priority Area 2.1: Public's awareness at all levels raised towards better understanding their contribution to the important multi-functions of water in domestic life, ecosystems and productive development.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
1	2025 Global Handwashing Day (GHD)	MLGCRA in collaboration with MWHWR	To highlight the importance of hand hygiene and encourage all citizens to champion clean hand practices in schools, homes, workplaces, and communities.	Activities: • Keynote messages underscored handwashing as a national development priority. • A National Handwashing Hero Pledge was signed by stakeholders to reinforce daily hand hygiene. • MMDAs were directed to: ○ Install handwashing stations at market stalls and for food vendors ○ Integrate hand hygiene into school routines and community health programmes ○ Enforce hygiene by-laws
1	2025 World Water Day Celebrations theme: “Water Conservation: Let’s Make It Our Way of Life”	MWHWR, WRC, GWL, WRI, CWSA, CONIWAS, UNICEF, UNESCO, Rural Water Development Programme (Church of Christ)	To inspire nationwide action to protect water resources and respond to Ghana’s growing water crisis.	The National Planning Committee in Ghana selected "Water Conservation" as the national theme, considering the nation’s lack of glaciers and the pressing need for sustainable water management practices. Activities: Media Engagements: Over 20 radio and TV interviews—including GTV and community stations—were held to discuss the importance of water conservation and raise awareness ahead of the national event. Social Media Campaign: E-flyers and a short awareness video were shared across

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				WhatsApp, Facebook, LinkedIn, and the WRC’s platforms, significantly expanding public reach. Visibility Materials: CONIWAS distributed 200 branded T-shirts to partners and participants. National Climax Event (GWL Head Office, Accra): The event featured cultural performances, poetry, speeches, and stakeholder interactions. The keynote address, delivered on behalf of the Minister by Hon. Gizella Tetteh Agbotui, emphasized water conservation as critical to Ghana’s sustainable development. Outcomes: i. Increased public awareness and knowledge on water conservation. ii. Strengthened collaboration among stakeholders, including government agencies, educational institutions, and private sector players. iii. Expanded the reach of World Water Day messages through media engagements and social media campaigns.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				 Participants at climax event
1	Climax Event - 50th Anniversary Celebration of the UNESCO Intergovernmental Hydrological Programme (IHP), July 23, 2025.	Ghana Committee for UNESCO IHP	To commemorate 50 years of UNESCO-IHP by highlighting Ghana's contributions to hydrological science and promoting collaboration for science-based water management.	Activities: Ghana marked the 50th Anniversary of UNESCO-IHP at the Ghana Academy of Arts and Sciences, bringing together about 230 participants, including policymakers, scientists, students, and development partners. Under the theme “Science for a Secure Water World in a Changing Environment,” the event highlighted Ghana's contributions to hydrological science since 1976. The programme featured messages from government and UNESCO officials, presentations on Ghana's achievements in research, early warning systems, education, and climate resilience, as well as insights on transboundary water governance. The keynote address emphasized major national water challenges—pollution, scarcity, flooding, and ageing infrastructure—and reaffirmed the government's commitment to science-based IWRM. Individuals and institutions, including VRA, BPA, HYDRO, CSIR-WRI, WRC, and the Ghana Commission for UNESCO, were

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				recognised for their contributions. The event concluded with closing remarks and a symbolic anniversary cake-cutting.  Event flyer     Participants at the climax event

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1	2025 World Rivers Day -30th September, 2025 Theme: “Our Rivers, Our Future”	WRC in collaboration with GWL, EPA, FC, Ghana Hydro, CONIWAS and MWHWR (Liaison Group, VRA and BPA)	To raise public awareness on the importance of protecting Ghana’s rivers and to encourage collective action toward river conservation and pollution reduction.	Activities: The maiden World Rivers Day celebration was launched on 10 September 2025 in Accra, officiated by the Minister for Works, Housing and Water Resources. Solidarity messages were delivered by key sector agencies including CONIWAS, Ghana Water Limited, EPA, Ghana Hydro, and the Forestry Commission. The climax event at the Ghana Academy of Arts and Sciences featured a keynote address by Nana Amponsah Kwaah IV, who emphasized that protecting rivers and fighting pollution is a collective national responsibility. Sector agencies also mounted an exhibition showcasing their contributions to river protection. Key activities included: 1. Maiden Launch and Media Engagement, Accra 2. Schools Quiz Competition – basin level 3. River Tracing – basin level 4. River Signage Erection - basin level 5. River Buffer Restoration - basin level 6. Climax (Commemoration), Accra  <i>Participants at the climax event</i>

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
2	2025 Ghana WASH Conference (November 26 - 27, 2025)	MWHWR (Praxis Africa)	To raise awareness and stimulate action on water, sanitation, and hygiene (WASH) issues in Ghana.	Activities: The Ministry of Works, Housing and Water Resources, in partnership with Praxis Africa, organized the 2025 Ghana WASH Conference to discuss key sector challenges and emerging priorities. The Water Resources Commission participated and delivered presentations on water quality, permitting, and licensing. Participants included Metropolitan, Municipal and District Assemblies (MMDAs), Ghana Water Limited, the School of Hygiene, private sector actors, and sanitation-focused NGOs, creating a strong platform for dialogue and knowledge exchange.  Group photo after the opening session of the 2025 Ghana WASH Conference
2	Marine safety outreach programmes	GMet	2	Activities: GMet conducted marine safety outreach in Keta, Cape Coast, and Axim to promote a flag-based alert system for communicating sea conditions to artisanal fishers. Working with the Fisheries Commission, Canoe and Fishing Gear Owners Association of Ghana (CaFGOAG), local assemblies, and

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				information centres, the programme improved early-warning dissemination and enhanced marine safety awareness, helping fishing communities make safer livelihood decisions.  <i>Coastal stakeholder engagement sessions promoting marine safety</i>
4	Knowledge Management and Learning	CONIWAS	to disseminate key documents with sector stakeholders	Activity: To promote learning, the National-level Learning Alliance (NLLAP) platform was used as a platform to disseminate key documents with sector stakeholders. CONIWAS also developed WASH articles and briefing papers during this period and shared with the media and sector stakeholders. Policy briefs and articles - Brief on MOLE Conference communique https://www.ircwash.org/sites/default/files/mole-xxxvi-wash-conference-communique-final_1_1.pdf - Strengthening WASH systems through collaboration https://coniwassghana.com/strengthening-wash-systems-through-collaboration/

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				• CONIWAS-IRC call for stronger systems through collaboration to accelerate safely managed water services in rural Ghana https://coniwasghana.com/coniwas-and-irc-call-for-stronger-collaboration-to-accelerate-safely-managed-water-services-in-rural-ghana/ • CONIWAS validates study on Ghana water sub sector regulatory framework https://coniwasghana.com/coniwas-validates-study-on-ghanas-water-sub-sector-regulatory-framework/ • Accra citizens suffering lack of services due to poor coordination and no overall strategy https://washghana.org/wp-content/uploads/2025/05/1pager-2NLLAP.pdf • Driving access and equity in water the enabling environment for reaching the last mile communities https://washghana.org/driving-access-and-equity-in-water-the-enabling-environment-for-reaching-last-mile-communities-in-ghana/
1	Meteorological Awareness Month (MAM)	GMet	To raise national awareness and improve understanding of meteorology and climate services in Ghana.	Activities: GMet used MAM to intensify public education on weather and climate risks through sensitization campaigns and media outreach. Over 100 media professionals in Accra, Koforidua, and Elmina were trained on impact-based forecasting and accurate dissemination of seasonal outlooks. The Month also expanded early-warning communication to persons with disabilities, traditional authorities, and local

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				communities, strengthening trust and improving response to weather hazards.  Media sensitization workshops  MAM 2025 celebration Engagement with Ga Mantse
1	36th MOLE WASH Conference, Marlin Beach Resort in Gomoah - Feteh (2–7 November 2025)	CONIWAS and IHP Committee Members (with support from WRC and UNESCO)	To review progress, discuss challenges, and promote innovative, evidence-based partnerships toward achieving universal access to safe water, sanitation, and hygiene in Ghana. To promote awareness of Ghana’s UNESCO-IHP activities and strengthen	The 36th MOLE Conference, themed “Advancing Innovation, Partnership and Evidence for a Harmonized and Regulated WASH Service Delivery,” brought together 197 participants from government, NGOs, academia, the private sector, and development partners. The opening session featured senior government officials, including the Ministers of Works, Housing and Water Resources; and Local Government, Chieftaincy and Religious Affairs. Discussions focused on WASH sector challenges, regulatory gaps, financing, and the need for stronger coordination.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
			collaboration across the WASH sector.	Key recommendations included passing the Environmental Sanitation Bill, allocating 20% of MMDAs’ budgets to WASH, and promoting innovative financing models. The Ghana IHP Committee hosted an exhibition featuring educational materials and groundwater publications, enhancing the Committee’s visibility.  Participants at the opening of the conference  IHP exhibition booth

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				 IHP committee members with secretariat
5	Piloting of Water Safety Campaign	MWHWR, WRC and CWSA (UNICEF)	To address emerging water security challenges by promoting a risk-based approach to managing drinking water and safeguarding public health.	Activities: In November 2025, key sector agencies, CWSA and WRC began piloting a national water safety campaign aimed at increasing public awareness on ensuring safe drinking water at the point of use. Supported by UNICEF, the agencies developed and tested campaign messages in selected communities. After a three-month pilot phase, findings will be reported to the Ministry to inform nationwide rollout.

3.2 Sub-priority Area 2.3: Teaching and learning materials on water-related matters for formal, non-formal and informal education at all levels elaborated towards a better understanding of the importance of water in lives and communities.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
3	Development of Water, Sanitation and Hygiene (WASH) implementation Guidelines for Early Childhood Development Centres (ECDs) which focus on children aged 0-3 years.	MWHWR in collaboration with the Ministry of Gender, Children and Social Protection (Dept. of Social Welfare)	To develop concise, age-appropriate WASH guidelines for ECDs serving children below 4 years.	Activities: Data collection on WASH conditions in ECDs across the Northern and Southern zones was completed. The findings will guide the development of practical, age-appropriate WASH implementation guidelines to improve hygiene, sanitation, and safe water practices for children below four years.
3	Green Climate Club	GMet	To strengthen climate literacy and inspire youth participation in climate action.	Building on earlier pilots, GMet strengthened the Green Climate Club initiative in the existing ten senior high schools, deepening climate change awareness and empowering students to understand their role in climate action. Additional clubs were established during the year, providing students with practical exposure to meteorology, climate science, and community outreach activities. The initiative continues to promote long-term climate literacy and active youth participation in national climate resilience efforts.  <i>Green Climate clubs launched in Akim Oda</i>

4 Priority Area 4: Integrated water resources management under conditions of global change

4.1 Sub-priority Area 4.2: Research on upstream-downstream river uses for hydropower, navigation, irrigation, fishery, leisure activities, water supply, drought risk management and flood risk management conducted and shared by the scientific community and UNESCO Water Family to minimize socioeconomic and ecological consequences.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
3	Integrated Land and Water Management of the Greater Amanzule Wetland System (ILWGAWS)	CSIR-WRI (UK Department of Environment, Food and Rural Affairs via DAI Global UK)	To improve household livelihoods and strengthen ecosystem services within the Greater Amanzule Wetland System (GAWS) under increasing human and climate pressures, while supporting Ghana's wetland conservation goals and its carbon-related Nationally Determined Contributions (NDCs).	Key Activities: Hydrological Profiling: Secondary and in-situ hydrometeorological data were collected and analyzed (14–21 July 2025) to characterize surface water resources in the GAWS area. IDF curves, hydrographs, and peak discharge computations were completed, with all datasets, maps, and reports submitted on 30 September 2025. Hydrological Modelling & Climate Change Evaluation: SWAT and LSTM models were set up and calibrated for five GAWS sub-basins. Streamflow simulations were generated for the present (1991–2020) and two future periods (2026–2055 and 2056–2085) under IPCC RCP4.5 and RCP8.5 scenarios. A technical report is under internal review. Climate Data Analysis: ERA5 temperature data and MSWEP rainfall datasets were bias-corrected and used to produce spatial and temporal analyses of historical and projected climate trends and extreme indices. The full report and associated maps have been submitted to the funder.

				Water and Soil Quality Assessment: Protocols were established, and the first round of sampling was conducted (17–23 September 2025). Laboratory results were shared with the project team for integration into ongoing analyses.
5	Installation of Hydrological monitoring stations on some selected rivers in the Lower Volta River Basin	VRA in collaboration with the Ghana Hydro	To improve flood forecasting and support the development of a Flood Mitigation Plan for the Lower Volta Basin.	Outcome: Hydrological monitoring stations were successfully installed on the Dayi, Ahamarsu, Asukawkaw, Kpassa, Pru, Afram, and Sene Rivers, strengthening real-time data collection and enhancing VRA’s flood forecasting capabilities.  <i>Installation of hydrological instrument</i>
5	Strengthening Early Warning for All (EW4All)	GMET and Ghana Hydro (WMO, UNDRR, IFRC, ITU)	To ensure weather-sensitive sectors and communities receive reliable, timely information	GMet maintained continuous delivery of daily forecasts, outlooks, and sector-specific advisories, supporting aviation, marine operations, agriculture, and disaster management. Impact-based forecasting was strengthened, with warnings

			to guide operational and livelihood decisions, enhance public safety, and reduce exposure to weather-related risks.	focusing on expected effects and recommended actions. This improved public understanding of weather risks and enabled more timely, informed decision-making.  <i>Leadership sensitization forum on the Early Warning for All (EW4All) Roadmap held at the WFP in Accra</i>
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4.2 Sub-priority Area 4.6: Undertaking and sharing assessment of ecosystem services and environmental flows in ecohydrology pilot sites by the scientific community supported, to improve integrated water resources management

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
5	Participate in International Conference in partnership with UN-Water, IUCN, FAO, World Bank externally and UNESCO Water Family,	Ghana Committee for UNESCO IHP members	To strengthen technical capacity, enhance scientific collaboration, and promote Ghana's engagement in global and regional water-related dialogues and initiatives.	Throughout 2025, members of the Ghana Committee for UNESCO-IHP participated in numerous international, regional, and national conferences, trainings, and technical workshops organised in partnership with government agencies, UN-Water, IUCN, FAO, the World Bank, UNESCO Water Family institutions, MAB, and the World Heritage Centre. 1. Climate Risk Informed Decision Analysis (CRIDA); organised and funded by UNESCO Headquarters and Regional Training Centre for Water Resources and Irrigation (PACWA), Cairo, Egypt; 16 – 20 June 2025.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
	MAB and World Heritage Center internally; Special issue in a respected journal			2. Drought impact on agricultural yield in Ghana using Machine Learning approaches; organised and funded by UK Centre for Ecology and Hydrology, Wallingford; 24-28 June 2025. 3. Hydrological Forecasting; organised by UK Centre for Ecology and Hydrology (online); 2nd September 2025. 4. GMES & Africa Continental Forum “GMES & Africa: Shaping the Africa EO Roadmap as a Pillar of a Sustainable Space Economy”, Cairo, Egypt, 1-3 December 2025. 5. GMES & Africa and 9th AfriGEO Symposium 2025 under the theme “From Data to Impact”, Dakar, Senegal, 6-9 October 2025. 6. Ninth Regional IHP national committees conference, Lusaka, Zambia, 25-26 May 2025. 7. Science Engagement with National and river basin (Pra and Densu) stakeholders; 19th August 2025 (Pra Basin - Kimasi); 21st August 2025 (Densu Basin - Koforidua) and 9th September 2025 (National -Accra). 8. EPIC Africa – Second Transition Space Volta River Basin Meeting, organised by UNER and VITO, which was held from Wednesday, March 12 to Thursday, March 13, 2025. 9. DANIDA Forum on World Water Day, organized by the Denmark Embassy in Accra, March 20, 2025. 10. WaterTalk3 on “Rethinking Irrigation for Resilience in West Africa”, organized by IWMI Ghana, April 15, 2025. 11. World Water Week 2025 (online), held in Stockholm, Sweden, August 24-28, 2025. 12. World Rivers Day 2025 held in Ghana, Organized by the Water Resources Commission, Ghana Academy of Arts and Sciences, Accra, September 30, 2025 13. SISTARS Project Workshop, organized by IESS, University of Ghana, Airport View Hotel, October 8-9, 2025. 14. WaterTalk4 on “Circular Water Economy for Green Growth in West Africa”, organized by IWMI Ghana, April 15, 2025.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				15. Strengthening Ghana's Circular Economy Innovation Ecosystem for Climate-Resilient Agriculture, organized by IWMI-Ghana, Lancaster Hotel, Accra, 27 November 2025. 16. International Quality Management Training for Executives, organized by Ghana Institute of Engineering (GhIE; Online) for the period 1-3 December 2025 17. Training Course on Modelling Software for Transient Flows, organized by International Association for Hydro-Environment Engineering and Research (IAHR) for the period 24-28 March 2025 18. Sustainable Water Resource Management in Ghana. Theme: Leveraging Innovative Science to Strengthen Public-Private Partnerships for Sustainable Development in Ghana. 34th Ghana Science Association Biennial Conference at the Dr. Andani Andam Academic Board Chamber, UDS, Tamale, from 23rd to 25th September 2025. 19. AMR Surveillance in Sanitation Waste Treatment Systems in Ghana: Evaluating Escherichia coli and ESBL E. coli Profiles to Inform Infrastructure Expansion in the Greater Accra Region of Ghana, 2025 Ghana AMR Conference. Theme: Act Now for Ghana: Protect Our Health, Secure Our Future Through One Health Action on AMR. Alisa Hotel, Accra, Ghana. 19th - 20th November 2025. 20. Antimicrobial Resistance Monitoring; In Ghanaian Surface Waters: Evidence for Public Health Action Through the WHO Tricycle Approach. 2025 Ghana AMR Conference. Alisa Hotel, Accra, Ghana. 19th - 20th November 2025. 21. GSMA-TEMBO Flood Early Warning System Project- Training Workshop, True Vine Hotel, Ahodwo-Kumasi, Organized by TAHMO, 28-30 January 2025. 22. WMO webinar on the Deep-dive on satellite observations for hydrology, 13th-14th March 2025. 23. R for GIS & Remote Sensing starter 21st October to 14th December 2025.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				24. Training on Machine Learning Techniques, organized by University of Pretoria, 16-17 October 2025 25. Training on Hydrological Modeling and Discharge estimation using Coupled VegET-mizuRout Models” and “Introduction to Water Accounting Plus (WA+), organized by the International Water Management Institute, 3-7 November 2025. 26. Digital Solutions for Water Management: A Pan-African Symposium, a scientific conference held in Addis Ababa, Ethiopia, 21-23 October 2025. 27. Multi-Stakeholder Validation Workshop on the Validation of Remote Sensing and Field Observation Inputs for Water Accounting of Sustainable Water Management in the Bontanga Irrigation Scheme, organized by the International Water Management Institute, Ghana, 30 May 2025. 28. Use case workshop on the Coastal Erosion Intervention Monitoring Tool, organized by the International Water Management Institute, Ghana, 30 May 2025 29. Landslide Monitoring and Risk Assessment using NASA Earth system Data organised by NASA’s Applied Remote Sensing Training (ARSET), on 11th, 13th & 18 March, 2025, Online 30. Wetland and Agricultural Pathway Sustainability organised by Food and Agriculture Organisation of United Nations, on 26th March, 2025. Online 31. Spaceborne LiDAR for Monitoring vegetation structure and Biomass Using GEDI organised by NASA’s Applied Remote Sensing Training (ARSET), on 23rd, 30th October & 6th November, 2025, Online 32. Training Workshop on the Small Reservoirs Dashboard for Data-Driven Planning in Northern Ghana, organized by the International Water Management Institute (IWMI–West Africa), on Thursday, 14th August 2025, at Modern City Hotel, Tamale, Ghana (Access the dashboard:

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				https://workflow.ourmarketplaceonline.com/formfilling/67e46100-e264-425b-9fb9-dac62211eaa4) 33. Participated in “Research Ethics Training Workshop” (virtually), organized by the Management College of Southern Africa, on 31st July 2025 34. Project Launch Meeting on the Integrated Land and Water Management of the Greater Amanzule Wetland systems (ILWGAWS) at Tenack Beach Resort and Hotel, Beyin, Western Region, 17th to 19th February 2025. 35. A post-COP 29 Action Planning Event, at Ange Hill Hotel, East Legon, Accra. 4th March 2025. 36. Ghana National Landscape Forum at Marriott Hotel, Accra, 2nd to 4th April 2025. 37. Stakeholder Engagement on the Climate Change Resilience Assessment (CCRA) for the Akosombo and Kpong Dams, organized by the Volta River Authority at the Electro Volta Conference Room, Accra, 19th June 2025. 38. Presentation Session for the Projects Approved with Ghana in the First Call of the Interreg MAC Programme (2021 – 2027), at Labadi Beach Hotel, Accra, 24th June 2025. 39. First 2025 Meeting for the Intergovernmental Science-Policy Platform on Biodiversity and Ecosystem Services (IPBES) Ghana National Platform at the Millenium Conference Room of the Environmental Protection Authority, 2nd July 2025. 40. Validation and Dissemination Workshop on the Sustainable Agriculture Technologies on Livelihoods of Small-Scale Farmers in Northern Ghana (SATLiS) project, at CSIR-STEPRI Main Auditorium, 24th July 2025. 41. A Focus Group Discussion on AsKGovSRM-Ghana Project, at Dr. Frempong Conference Room, CSIR-STEPRI, Accra, 30th October 2025.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				42. Stakeholder Consultation Workshop on Cocoa Planetarius Metrics for Cocoa Production in Ghana, organized by the Nature and Development Foundation (NDF), and World Wildlife Fund (WWF) at Ange Hill Hotel, Accra, 4th December 2025. 43. National Workshop to Update the National Biodiversity Strategy and Action Plan (NBSAP) organized by Ministry of Environment, Science and Technology, at Sogakope Beach Resort, Volta Region, 7th to 9th December 2025. 44. Inaugural Workshop of the National Technical Working Group (NTWG) on Payment for Ecosystem Services (PES) organized by the World Resources Institute and EPA at the Peduase Valley Resort, Aburi, 14th to 18th December 2025. 45. Ecosystem Services: a method for sustainable development, University of Geneva (MOOC-COURSERA) (online), August 2024 - January 2025. 46. Stakeholder engagement workshop to review and update the management plan for the Densu Delta Ramsar Site, CBCR - University of Ghana, 4th December 2025. 47. UN Decade Workshop-Advancing Sustainable Solutions through Ecosystem Restoration (online), 10th December 2025.

5 Priority Area 5: Water Governance based on science for mitigation, adaptation, and resilience

5.1 Sub-priority Area 5.1: Awareness raising of decision makers at all levels on the importance of science- based water governance by the UNESCO Water Family supported, to enhance the overall resilience of communities to effects of global change.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
2	IHP Regional Meeting 25 th to 26 th May 2025, Lusaka - Zambia	IHP Committee members (UNESCO)	To update regional members on national IHP activities and strengthen collaboration toward achieving the IHP-IX Strategic Plan.	Activitiex: The Vice-Chair participated in the two-day regional meeting in Lusaka, which brought together African National Committees, IHP Focal Points, UNESCO Chairs, and Category 2 Centres. The meeting reviewed progress toward the IHP-IX Strategic Plan, discussed regional priorities, and enhanced cooperation on water-related issues across the continent. Ghana presented its 2022–2024 activity report and received commendation from other National Committees for its innovative approach to mobilizing resources and sustaining committee activities.  Participants present at the Regional Meeting

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
4	Engagement with Ministers of MWHWR and Minister for Local Government, Chieftaincy, and Religious Affairs (MLGCRA) on Critical Water and Sanitation Reforms	CONIWAS and Development Partners	To elevate WASH issues at the highest levels of government and advocate for key policy and institutional reforms.	Activities: CONIWAS and Development Partners (DPs) engaged the Minister for Works, Housing and Water Resources (MWHWR) and the Minister for Local Government, Chieftaincy and Religious Affairs (MLGCRA) to discuss priority reforms needed to strengthen Ghana’s WASH sector. Key proposals to MWHWR included: • Sustained political commitment and increased, equity-focused investments in water services. • Establishing a stronger regulatory framework for water service delivery. • Improving coordination across ministries through revitalizing the Water and Sanitation Sector Working Group. • Restoring CSO representation on key boards and ensuring regular CSO–Minister dialogue. Recommendations to MLGCRA focused on: • Rolling out the Presidential Compact on WASH. • Finalizing the revised National Sanitation Policy. • Establishing the National Sanitation Authority (NSA). • Implementing the Open Defecation Free (ODF) Roadmap. • Developing sustainable sanitation financing strategies. • Reintroducing National Sanitation Day and launching a National Sanitation League. • Elevating sanitation units within local assemblies to full departmental status.

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
				 Engagement with MLGCRA

5.2 Sub-priority Area 5.5: Capacities of the scientific community and decision makers strengthened on new frameworks and tools, to underpin water governance and build resilience

Activity No	Title of Activity	Institution (Support)	Objective	Activities / Outcome
1	Webinar – Safeguarding Ghana’s water and WASH Futures	Ghana Committee for UNESCO IHP	To engage the public and scientific community on innovative tools and frameworks that strengthen water governance and enhance WASH resilience.	Activities: As part of activities marking the 50th Anniversary of UNESCO-IHP, the Committee held the first in a two-part webinar series on 21 May 2025 under the theme “<i>Safeguarding Ghana’s Water and WASH Futures.</i>” A total of 87 participants joined the session, which featured two technical presentations: • Poor Raw Water Quality and Drinking Water Supply in Ghana: Effects and Solutions • Towards Resilient WASH Services and Infrastructure in Ghana

				The webinar helped raise awareness of emerging challenges in water quality and WASH service resilience, while promoting dialogue among sector actors on practical solutions.  Event flyers
1	Webinar Theme: Understanding and Mitigating Water-Related Disasters Report date: August 28, 2025	Ghana Committee for UNESCO IHP	To equip participants with essential knowledge on major water-related disasters and practical strategies for improving early warning, preparedness, and resilience.	Activities: As part of the 50th Anniversary of UNESCO-IHP, the Committee hosted its second webinar on 28 August 2025, themed “<i>Understanding and Mitigating Water-Related Disasters.</i>” A total of 82 participants attended. The session brought together experts and stakeholders to discuss key hydro-climatic challenges affecting Ghana and the Volta Basin. Three technical presentations were delivered: • Drought and Flood Dynamics in Ghana: Trends, Impacts, and Early Warning Strategies • ENSO Dynamics and Hydrological Impacts on Akosombo Reservoir Inflows • Flood and Drought Risk Reduction and Management in the Volta Basin The webinar helped strengthen knowledge on climate-induced hazards and promoted dialogue on strategies for improving disaster preparedness and resilience.

				 Event flyer
4	Building Climate Resilience into River Basin Management (CREAM)	CSIR-WRI (Danish Ministry of Foreign Affairs/DANIDA)	To build knowledge and capacity for integrating climate change, socioeconomic pathways, and land-use change into river basin management to enhance climate resilience, livelihoods, water-food-energy security, and environmental sustainability.	Activities: Hydrometeorological Data Collection: CSIR-WRI collected, processed, and archived daily and sub-daily climate, river discharge, and groundwater data from 58 climate stations, 18 river discharge stations, and 40 groundwater stations in the Pra and Densu Basins, marking the fifth year of basin monitoring. Capacity Building: Three technical training sessions were held to strengthen stakeholder capacity in climate and water resources management. Postgraduate Training: Four PhD students funded under the CREAM project were supervised and supported to complete their studies at KNUST.

				Scientific Publications: Three peer-reviewed journal articles were published in 2025, which includes: • Obuobie, E., Osei, M.A., Agyekum, J., Addi, M., Gyasi Agyei, Y., Boadi, S.A. and Oblim, F.T. (2025). Spatiotemporal analysis of past and future precipitation and temperature extremes over Pra River Basin, Ghana. <i>Modeling Earth Systems and Environment</i> 11 (293). https://doi.org/10.1007/s40808-025-02474-0. • Obuobie, E., Akurugu, B.A. and Granaham, P. (2025). A review of the Groundwater characteristics of the crystalline basement rocks in the Pra River Basin, Ghana. <i>Environmental Earth Sciences</i> (2025) 84:427. https://doi.org/10.1007/s12665-025-12426-7 • Kyei-Manuh, S., Osei, M.A., Aryee, J.N.A., Quansah, E., Obuobie, E., Amekudzi, L.K. (2025). Lightning and thunderstorms, the source of severe weather over Ghana, West Africa. <i>PLoS Clim</i> 4(9): e0000703. https://doi.org/10.1371/journal.pclm.0000703
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6. Conclusion

In 2025, the Ghana Committee for UNESCO-IHP demonstrated continued leadership in advancing hydrological science, water governance, climate resilience, and capacity development across the country. A total of 34 activities were implemented across the priority areas of the 2022–2028 Work Plan, reflecting strong commitment from member institutions and partners. While the Committee recorded significant progress under Priority Areas 1, 2, 4, and 5, activities under Priority Area 3: Bridging the Data–Knowledge Gap remain limited and require renewed attention in the coming years.

Collaboration among institutions strengthened during the reporting year, with several joint programmes successfully executed. This level of cooperation is commendable and underscores the value of coordinated action in addressing Ghana’s water-related challenges. To further enhance effectiveness, Committee members are encouraged to align their activities more closely with the established Key Performance Indicators (KPIs) to improve reporting quality, track progress accurately, and identify emerging gaps.

The Committee expresses sincere appreciation to all partner institutions for integrating IHP activities into their annual work plans, and to UNESCO and donor agencies whose technical and financial support made many of the year’s achievements possible. Their contributions continue to strengthen national capacity and advance hydrological research and water sector development.

Looking ahead, the Ghana Committee for UNESCO-IHP remains committed to promoting science-based water management, fostering innovation, and expanding cross-sectoral partnerships. As climate change, population growth, and environmental pressures intensify, the Committee will continue to champion knowledge generation, capacity building, and integrated approaches that safeguard Ghana’s water resources for present and future generations.

7. ANNEXES

Annex 1: MEMBERS OF THE GHANA COMMITTEE FOR UNESCO-IHP

	NAME	ORGANIZATION	DESIGNATION
1	Seidu M. Alidu	WRC	Chair
2	Emmanuel Obuobie	CSIR - WRI	Vice-Chair
3	Suzzy Abaidoo	MSWR	Secretary
4	Apollonius O.A Asare	Ghana Commission for UNESCO	Member
5	Philip Tetteh Padi	VRA	Member
6	Oduro Donkor	CONIWAS	Member
7	Samuel Owusu Ansah	GMet	Member
8	Jewel Kudjawu Sylvester Darko /	EPA	Member
9	Edmond Osei Barimah	HSD	Member
10	Philip Ato Ankoh	BPA	Member
11	Evans Akot-Adzei Abdul-Rauf M.	GWCL	Member
12	Alhassan	UESD	Member
13	James Ashaley	GIDA	Member
14	Joseph Tawiah Ayer Florence Ayisi	CWSA	Member
15	Quartey	MOGCSP	Member
SECRETARIAT			
	Adwoa O. A. Afran	WRC	Coordinator
	Priscilla Gyamfi	WRC	Asst. Coordinator
	Florence M. Dagbanu	WRC	Administrator