



## **Global Water Partnership (GWP) Action Pledge to the Nairobi Work Programme on impacts, vulnerability and adaptation to climate change**

---

*The Global Water Partnership vision is for a water secure world. GWP's mission is to support the sustainable development and management of water resources at all levels.*

### **1.0 Background**

The Global Water Partnership (GWP) is an international network created in 1996 to foster the implementation of integrated water resources management (IWRM): the coordinated development and management of water, land and related resources in order to maximise economic and social welfare without compromising the sustainability of ecosystems and the environment.

GWP was founded in 1996 by the World Bank, the United Nations Development Programme (UNDP) and the Swedish International Development Cooperation Agency (Sida). In 2002 the Global Water Partnership Organization was established as an intergovernmental organization, hosted in Stockholm by the Government of Sweden.

The mission of GWP is to support the sustainable development and management of water resources at all levels, in line with UN resolutions to support integrated water resources management and development. GWP does this through Global Network partnerships which have been established over the past 12 years to promote and implement better water resources management. The Network currently present in 153 countries comprises 13 Regional Water Partnerships and 74 Country Water Partnerships, and includes over 2000 Partners located in 153 countries.

GWP's Network provides a rich resource of practical experience of the challenges of sustainably managing water resources in many different local, national and regional contexts.

The Network is open to all organisations which recognise the principles of integrated water resources management endorsed by the Network. It comprises partners from both developed and developing countries including states, government institutions (national, regional and local), intergovernmental organisations, international and national non-governmental organisations, academic and research institutions, professional associations companies and service providers in the public sector.

### **2.0 Context of GWP Pledge to the NWP**

Water is central to the world's development challenges. Goal 2 of GWP's strategy 2009-2013 addresses critical development challenges. This means contributing to solutions for critical challenges to water security, such as climate change, urbanisation, food production, resource related conflict and other challenges.

Whether it is food security, poverty reduction, economic growth, energy production or human health – water is the nexus. Climate change is the spoiler. No matter how successful mitigation efforts might be, people will experience the impacts of climate change through water.

Changes are predicted to occur as a result of floods and droughts and other extreme events. These impacts will have adverse impacts on human security, food security as well as fresh water supplies. Extreme events will compound the impact of more general changes in the pattern of rainfall and temperature which are expected to contribute to increased aridity and impact on both demand and availability of water for human livelihoods and development.

### **GWP Strategy 2009–2013**

GWP Strategy 2009–2013 builds on a decade of GWP successes and lessons learned in advocating an integrated approach to the management and development of land and water resources, and on the strategies of Regional Water Partnerships. The Global Strategy has four goals:

**Goal 1: Promote water as a key part of sustainable national development.** This means improving water resources management, putting IWRM into practice to help countries to grow and become water secure, encouraging good governance, and advocating for appropriate infrastructure and sustainable financing.

**Goal 2: Address critical development challenges.** This means contributing to solutions for critical challenges to water security, such as climate change, urbanisation, food production, resource related conflict and other challenges.

**Goal 3: Reinforce knowledge sharing and communications.** This means developing the capacity to share knowledge and promoting a dynamic communications culture, so as to support better water management.

**Goal 4: Build a more effective Network.** This means enhancing the Network's resilience and effectiveness through stronger partnerships, good governance, and measuring performance to help learning and ensure financial sustainability.

Water cuts across many sectors and reaching out to constituencies outside the 'traditional water sector' is critical to achieving the 'vision of a water secure world. Reaching out to the 'climate community' as well as bridging the divide between development practitioners and policy makers in environment, water, economic planning and finance and other key sectors such as agriculture, health, industry and others is an essential step to climate change adaptation.

Adapting to climate change is a serious long-term development problem that GWP is committed to. Improving the capacity of water management systems builds resilience and enhances the adaptive capacity of economies to climate change impacts.

***Against this backdrop, GWP wishes to submit this action pledge in response to the call by the UNFCCC Secretariat for organizations outside the UNFCCC to submit action pledges to the Nairobi Work Programme. The Action Pledge relates to the thematic area "Adaptation practices and planning" under the Nairobi Work Programme and includes the following GWP Initiatives:***

- Water, Climate and Development Programme
- Associated Programme on Flood Management
- Integrated drought management Programme
- Partnership for Africa's Water Development Programme (PAWD)
- Integration of climate variability and change into national strategies and development plans
- Support to preparation of Regional Climate Change strategies
- Support to development of National Climate Change Adaptation Strategies
- Assessment of impacts of climate change at river basin level
- Socio-economic impacts of climate change
- Advocate stakeholder interests on climate change, disasters, water supply and water quality management at the community level
- Dialogues on water, climate change and development at national, transboundary and regional level
- Climate change adaptation/disaster reduction and adaptation best practices
- Develop knowledge products<sup>i</sup> to promote knowledge accumulation and dissemination addressing development challenges

### **3.0 Overall objectives:**

The Action Pledge relates to the thematic area "Adaptation practices and planning" under the Nairobi Work Programme. *The overall objective is to support integration of water security and climate change in development planning and decision making processes through enhanced technical, and institutional capacity and predictable financing for water security and climate change adaptation.*

The pledge promotes the development of national development strategies and plans that take into account the threats posed by climate change and recognise water security as a key ingredient for adaptation in support of national development priorities. The pledge promotes the development of knowledge products to inform high level decision and policy makers to make informed decisions on investments and priorities for national development at local, national and regional level.

The pledge further undertakes to bridge the divide between the providers of climate information and science including academia and research institutions with the users of climate information and practitioners and decision makers in key sectors beyond the 'climate community' such as economies development and finance, practitioners and policy makers in water, agriculture, health and other key developments sectors. GWP will use its global platform at sub-regional, national and sub national level to convene dialogues and disseminate the lessons, results and experience of the work of partners in the Nairobi Work Programme with a key objective of promoting the uptake and application of information into decision making to advance adaptation to climate change.

Through this pledge, GWP will engage with other partners of the Nairobi Work Programme to develop and undertake capacity building programmes to support institutional development and build resilience and adaptive capacity to climate change impacts. Finally, GWP undertakes to support parties to the UNFCCC to enhance their understanding and capacity to access a range of financing options and sources for financing climate change adaptation such as the adaptation fund, the LDCF, the SCCF, GEF funds, the World Bank Strategic Climate Fund (SCF) and others.

## 4.0 Project purpose

The GWP initiatives under the Action Pledge contributes to all expected outcomes of the NWP and have the following objectives:

1. Promoting water security as a key part of sustainable regional and national development and contribute to climate change adaptation for economic growth and human security. In particular, this implies:
  - Supporting parties to the UNFCCC to integrate water security and climate change in development planning and decision making processes at regional, transboundary, national and sub-national level
  - Supporting parties to the UNFCCC to develop partnerships and capacity of institutions and stakeholders to integrate water security and climate change in development processes and strengthen resilience to climate change through better water management
  - Supporting parties to the UNFCCC in development of financing strategies for enhancing water security to support climate change adaptation
  - Supporting GWP partner organizations and others to carry out adaptation projects and programmes at all levels from community-based to sub-national, national, transboundary and regional levels
2. Promoting the dissemination of the lessons, results and experiences of the partners of the Nairobi Work Programme on climate change adaptation to other key audiences beyond the climate community and enhance the uptake and use of the results of the NWP by decision makers and practitioners at national and sub national level

## 5.0 Activities

This section outlines the broad activities to be undertaken as part of the pledge. More information on geographical distribution and activities is in Annex 1.

### **a. Support to integration of water security and climate change in development planning and decision is making processes.**

This aims at ensuring that water resources management and climate change risks are integrated in development planning and decision making processes at local, national, Basin and Regional level.

#### **Organisations, communities and experts to be engaged in the activity**

*UNDP; IWMI, Regional Economic Communities, AMCOW, AMCEN, UNEP, National and Regional Development planners, UNFCCC, ISDR, UNCCD, WMO, and others*

The following activities are envisaged:

- Raise awareness among policy and decision makers on importance of integration of water security in development planning processes for adaptation

- Determine key economic growth sectors and demographic drivers, assess their vulnerability to impacts of climate change and disseminate information to relevant stakeholders
- Align existing implementation plans (IWRM plans, NAPAs, plans for Disaster management, Desertification and others ) to address vulnerable economic growth sectors and determine potential synergies, opportunities and strengths for integration in development planning and decision making processes
- Advocate for integration of national climate change adaptation strategies into transboundary and regional development planning and decision making processes and input into Transboundary river basin plans as a tool for identifying climate change risks and adaptation strategies.
- Support implementation of pilot programmes on integration of water, agricultural management and trade in development planning linking local, national and transboundary scales

At the sub-national level, **pilot programmes** will be carried out and linked to national and basin level interventions to ensure holistic and integrated measures that recognize the transboundary nature of climate change impacts. Pilot programs at the local level will generate practical measures on how water security and climate change can be embedded in local development planning. Pilot activities at the sub-national level will be aimed at:

- Developing water related adaptation measures at the local level for priority economic development sectors at the sub-national level and integrating these in local development plans
- Support to water governance, specifically decentralisation of water resources management institutions and building capacity for stakeholders to make informed decisions on water allocation, sustainability of water management institutions (financing and cost recovery)
- Improving food security and livelihoods through improved resilience to climate change by adapting cropping patterns, land management practices based on sound decision support systems that take into account climate change impacts at the local level.
- Promoting people-centred early warning systems at local level that integrate four key elements; knowledge of the risks faced; technical monitoring and early warning service; dissemination of meaningful warnings to those at risk; and public awareness and preparedness to act.

#### **b. Support to development of partnerships and capacity of institutions and stakeholders to integrate water and climate change in development planning processes**

This aims at enhancing the capacity of stakeholders to integrate climate change risks, opportunities into national development and decision making processes.

This involves strengthening of the technical, analytical, and institutional capacity of national, regional and civic organisations. Promotion of partnerships for capacity building on adaptation will be key.. The gap between the providers of climate information and the intended users of such information needs to be narrowed through establishing linkages and partnerships and simplifying climate information into usable form by practitioners.

### **Organisations, communities and experts to be engaged in the activity**

Partnerships will be promoted with capacity building institutions, universities, research institutions and communities of practice (farmer organisations, industry, development planners and others). At the national level, partnerships will be established and strengthened among UNFCCC national focal points, water resources management agencies, ISDR platforms, UN agencies (UNDP, UNHCR, UNEP, UNHABITAT, WFP etc). Similar partnerships will be promoted at regional and global level. At the global, GWP already has on-going collaboration with WMO, UNDP's Cap-Net, and UNEP. These partnerships will be strengthened and others created with UNFCCC, UNCCD, ISDR, UNHABITAT, UNHCR and others

*The envisaged activities are as follows:*

- Support strengthening of governance and institutional frameworks for climate change adaptation as part of development planning processes at all levels (local, national, transboundary and regional)
- Support capacity building activities to develop skills for assessing the impacts and risks of climate change and how to integrate these into development planning and decision making processes
- Support dissemination of climate information to water managers, industry, farmers, environmentalists, and other stakeholders to inform decisions on water use, allocation and cropping patterns
- Support development of partnerships and platforms for dialogue and facilitate linkages between generators of climate information and users of climate information at all levels

### **c. Support the development of financing strategies for water security to enhance adaptation to climate change in support of National development priorities**

Predictable financing to adaptation is essential to ensure water security and ultimately climate change adaptation. This activity responds to one of the key gaps identified in developing countries, the lack of adequate and predictable funding to water resources management to enhance climate change adaptation for development. There is need for stronger collaboration between climate community, water, finance ministries and funding agencies for climate change adaptation to secure water for economic growth sectors and human well being

The activities to be prioritized include:

- Regional and national dialogues on financing water resources management and climate change adaptation
- Sharing knowledge on funding mechanisms and sources for financing adaptation and support to access climate finance
- Advocate for alignment of funding mechanisms for water and adaptation
- Support GWP partner organizations and others to carry out adaptation projects and programmes at all levels from community-based to sub-national, national, transboundary and regional levels
- Strengthening the coherence of adaptation together with other developmental initiatives including better water management, improved food security, sustainable energy including hydropower

systems, sustainable urban water management for fast-growing cities and other initiatives undertaken by GWP partner organizations and others at all levels.

## **6.0 Expected Outcomes**

- Water security and climate change risks integrated in development planning and decision making processes at regional, transboundary, national and sub-national level
- Capacities of partnerships, institutions, and stakeholders enhanced to integrate water and climate change in development processes and strengthen resilience to climate change through better water management
- Financing strategies for water security and climate change adaptation developed and governments begin to implement them

## **7.0 Indicators of achievement**

- Number of UNFCCC parties incorporating water security and climate change risks in national development planning and decision making processes
- Number of UNFCCC parties cooperating at regional and transboundary level in climate change adaptation interventions
- Number of countries with enhanced financing capability for carrying out adaptation projects that are part of broader national development agenda
- Number of financing strategies for water security and climate change adaptation developed and being implemented to enhance resilience to climate change risks

**GWP Work on Climate Change Adaptation**

GWP Project Title	Country	Geographical Scale	Thematic focus	Type of activity	Target group
Water, Climate and Development Programme <sup>ii</sup>	Selected Basins and countries in Africa region	Regional/Transboundary, national and sub-national level	Water, climate change and variability and development	Support to integration of water security and climate change into development planning and decision making processes	Govt policy level, economic development policy and planners, operational managers, farmers
Associated Programme on Flood Management	Global (28 specific countries supported to date)	Global	Integrated flood management, flash floods, climate change	Produce guidelines and tools (policies and institutions, legal aspects, environmental aspects, social and economic aspects of flood management), Establish a demand-driven help desk to respond to requests for assistance	National level policy makers, regional and urban planners, flood managers
Integrated drought management Programme	Global	Global	Water, disaster and risk reduction	Produce guidelines and tools, establish a help desk for drought management	Operational managers for drought management
Develop knowledge products <sup>iii</sup> and key messages on water security and climate change	Global	Global	Water, climate change and variability, disaster and risk reduction	Develop technical papers and policy briefs to enhance understanding of water security and climate change Disseminate materials and key messages through advocacy and via the GWP ToolBox	Govt policy level, operational managers,

GWP Project Title	Country	Geographical Scale	Thematic focus	Type of activity	Target group
Advocate public interests in matters related to climate change, disasters, water supply and water quality management at the community level	Several countries in region	Caribbean Region	Water, climate change and variability, disaster and risk reduction	<ul style="list-style-type: none"> <li>• Forum on climate change adaptation,</li> <li>• Workshop on Hydro-climate Disasters in</li> <li>• Workshop on IWRM and climate change</li> <li>• Launch Flood Help Desk</li> </ul>	Govt policy level, operational managers
Dialogues on water and climate change	China	China	Water, climate change and development	Organize high level roundtable on water and climate change. Encourage the establishment of cooperative management mechanism across sectors, regions and agencies to adapt to the climate change, and to prepare for coping with risks and disasters.	National Development Reform Council, other sector ministries including agriculture, energy and environment, government policy makers, bilateral agencies, multilateral agencies
	China	China	Climate Change adaptation Strategy	Organize a High Level Roundtable on Extreme Climate Adaptation Strategy	Government Policy makers
Partnership for Africa's Water Development Programme II (PAWD II)	Southern, Eastern, Central and West Africa  Southern and Eastern Africa – 2 regions	Cape Verde, Benin, Eritrea, Cameroon, Swaziland and Mozambique	Preparation of National Integrated Water Management Plans	Dialogues on water and climate change and development at national , sub-regional & regional level. Combined sub-regional 'beyond COP 15' dialogue – focusing on water and adaptation, climate finance and developing a stakeholder position submission for UNFCCC adaptation fund	Govt policy level, operational managers, stakeholders, finance and economic development planners
Dialogues on water and climate change	Mali	Country	Water and climate change	Assessing linkages between National Adaptation Programme of Action (NAPA) and IWRM Plan for Mali	Govt policy makers, water and environmental teams and finance and national planning teams

GWP Project Title	Country	Geographical Scale	Thematic focus	Type of activity	Target group
Dialogues on water and climate change		South Asia	Flooding and climate change	Participate to regional workshop defining a regional strategy on climate change and flooding	Govt policy level, operational managers, stakeholders
Dialogues on water and climate change	Nepal	South Asia	Flooding and climate change adaptation	Conduct a <b>dialogue</b> discussing how flood disaster risks could be reduced in the region along with other benefits constructing reservoirs in the potential hill sides of Nepal.	Govt policy level, operational managers, stakeholders
Regional integrated drought programme	India, Bangladesh, Pakistan, Sri Lanka, Nepal	South Asia	Integrated drought management	Develop an integrated drought management system including monitoring and forecasting tools, drought assessment and risk analysis procedures	Research Policy makers Climate services
Adaptation best practices	Bangladesh	May be extended to other countries in GWP South Asia Region if funding allows	Adaptation, knowledge sharing	Form a network among the organizations working in climate change sector and discuss how this network can jointly work for dissemination of information on climate change and various best practices on adaptation to climate change as an action to be followed up based on Dhaka Workshop on Climate Change.	Diverse
Climate change awareness	Pakistan	National	Climate change adaptation	A campaign to sensitize the general public and industries to understand the phenomenon of Climate Change and formulate adaptation plan under a core group of three climate change experts, one each from Government, civil society and think tanks. The Campaign will be followed by a national level dialogue on climate change adaptation and planning for the future.	General public Industry
Climate change adaptation/disaster reduction	Sri Lanka	Southern Province	Building resilience to climate change among agrarian communities	A programme on climate change adaptation/disaster coping by agrarian communities with focus on gender and children through promotion of community awareness, resource mobilization and access to state relief mechanisms.	Communities Women Children
River basin impacts of climate change	Several countries in South East Asia (Malaysia, Philippines, Thailand, Vietnam, Cambodia)	River basin	Water allocation and flood management	Detailed study on river basin level impact of climate change and the required adaptation strategies and measures, having regards to water allocation and flood management systems in Southeast Asia with focus on 4 -5 river basins.	Policy makers, river basin organizations

GWP Project Title	Country	Geographical Scale	Thematic focus	Type of activity	Target group
Socio-economic impacts of climate change	Cambodia	National	Building resilience to projected socio-economic impacts in various sectors	Organizing Workshop on awareness building on the increasing risks of climate change to Government efforts on poverty reduction. Objectives: (1) to provide awareness on Climate Change impact; (2) to discuss resilience building for CC; (3) identify major impact on socio-economic development in different sectors; (4) to find out proposed solution.	Government policy makers Technical experts Economists
Climate change and water <sup>iv</sup>	South Asia and South East Asia	South Asia and South East Asia	Water and climate change	Work with ADB in designing joint activities on climate, food, water operators partnership, urbanization. Asia-Pacific Forum.Regional workshop on climate change in Bangladesh disseminate climate change information.Foster inclusion of climate change, in national development plans.Campaign in Pakistan on Climate Change, formulate adaptation plan.Programme on climate change adaptation by agrarian communities.	Govt policy level, operational managers, stakeholders
Preparation of Regional Climate Change strategy  Dialogues on water and climate change		Central America	Water, climate change and risk reduction	Dialogue with legislators on climate change and adaptation. Fieldtrips and workshops with journalists Workshops at national and municipal level on IWRM and adaptation. Support FOCARD to the establishment of a task force at regional and national level on climate change and risk management.	Govt policy level, operational managers, journalists, water and sanitation sector
Dialogues on water and climate change		Central and Eastern Europe		Participate in national dialogues as a follow up Climate Change meeting in Barcelona and COP15	Govt policy level, operational managers, stakeholders
Integrated drought management Programme	Poland (other countries envisaged as well)	Central and Eastern Europe	Drought management	Develop an integrated drought management system including monitoring and forecasting tools, drought assessment and risk analysis procedures	Research Policy makers
Regional Dialogue in Southeastern Europe and Mediterranean on transboundary water resources management	Mediterranean Region	Sub-regional and shared basin levels in: North Africa, Near East and South-eastern Europe	Transboundary Surface and Ground Water Resources Management and Climate Change	Assessment and dialogue and capacity building workshops at sub-regional and shared basin levels	Govt policy level, operational managers, stakeholders

GWP Project Title	Country	Geographical Scale	Thematic focus	Type of activity	Target group
Integration of climate variability and change into national strategies to implement the ICZM Protocol in the Mediterranean	Mediterranean Region	Regional	Interlinked challenges of ICZM, IWRM and Climate Change	Data collection and monitoring, assessment, policy development, dialogue and capacity building workshops, and pilot projects	Govt policy level, operational managers, stakeholders
Assistance to the development of the Strategy for Water in the Mediterranean	Mediterranean Region	Regional	Water and Climate Change Adaptation	Assistance to development and promotion of an Action Plan to operationalize the Chapter on Water and Climate Change Adaptation of the Strategy for Water in the Mediterranean	Govt policy level, regional organisations and stakeholders
Support to development of National Climate Change Adaptation Strategies	Mediterranean region	Selected countries North Africa and Near East	National Climate Change Adaptation Strategies	Assessment, policy development, dialogue and capacity building workshops	Govt policy level, operational managers, stakeholders
<p>Series of projects and core activities in Southern Africa Supported various initiatives in the region (GWPSA core funds, PAWD II funds, RCCP funds)</p> <p>Regional SADC multistakeholder dialogue 2008 - activity in the SADC-Danida Water Programme (2006-2010)</p> <p>PAWD II regional KM activity</p>	<p>SADC Region (includes 14 member states)</p> <p>Zambia</p>	SADC Region (southern Africa)	Water and climate change and variability	<p>- Support SADC develop a regional climate change strategy</p> <p>-Support identification of transboundary adaptation strategies, host climate finance workshops and inform regional position on CCA in global processes Through national and regional multi-stakeholder/multi-sectoral dialogues - continue awareness &amp; capacity development (institutions) for climate change and variability adaptation and IWRM including water-energy nexus etc)</p> <p>Integration of Climate change and water in Zambia's 6th National Development Plan</p>	<p>Relevant policy makers at national, basin and regional level</p> <p>National ministries (finance/economic planning, water, energy, agriculture, environment)</p> <p>Policy makers, practitioner/implementers at regional, basin, national or local level.</p>

GWP Project Title	Country	Geographical Scale	Thematic focus	Type of activity	Target group
Regional Dialogue on Climate, change and Capacity building for resilience in West Africa	West Africa region	West Africa region	Water and climate change and variability	Coordinate with CILSS and ECOWAS, a dialogue on CC, including a series of seminars for regional CC Focal points and pertinent institutions in the use of Climate Change adaptation mechanisms	National Focal Points for CC, and UNCCD, National officers in charge of MDG, Research Institutions. Both need Capacity building for project design and understanding the financial mechanisms for Adaptation funds
Climate Change: strengthen the ability of countries to integrate climate change responses into national development processes.	Eastern Africa	Nile Basin	Water and climate change and variability	Undertake capacity needs assessment for the respective institutions and organisations to help identify their activities, interests, institutional capacities and their representativeness within the Nile River Basin and identify capacity building and training needs.  Build the capacity of the relevant institutions. Develop a public awareness campaign to sensitise citizens on climate change adaptation.	
Promote knowledge accumulation and dissemination addressing development challenges	Central Asia and Caucasus		Water and climate change and variability	Facilitate regional survey on water management adaptation to climate change	

---

**i Knowledge Products developed by the GWP Technical Committee to date:**

**1. Better Water Resources Management - Greater Resilience Today, More Effective Adaptation Tomorrow**

Perspective Paper on Climate Change and Adaptation, CPWC/IWA/IUCN/WWC/GWP, 2009, [http://www.gwpforum.org/gwp/library/Planning\\_Better\\_WRM.pdf](http://www.gwpforum.org/gwp/library/Planning_Better_WRM.pdf)

This paper advocates for better water resources management if communities are to adapt to climate changes. Properly implemented, an IWRM approach is inherently adaptive as it should both inform water users about water challenges and provide a framework through which such challenges can be addressed.

**2. Water Management, Water Security and Climate Change Adaptation: Early Impacts and Essential Responses**

GWP Background Paper No. 14, 2009, [http://www.gwptoolbox.org/images/stories/Docs/tec\\_14\\_web.pdf](http://www.gwptoolbox.org/images/stories/Docs/tec_14_web.pdf)

This paper (3.95 MB) argues that water resources management should be a focus for climate change adaptation and that IWRM is the most suitable approach to adaptive action. It outlines the likely social, economic and environmental impacts of climate change; the challenges climate change poses for water resources management; the actions needed to address those challenges – investments in infrastructure, institutions and information; and approaches to financing IWRM for adaptation.

**3. Climate Change Adaptation and IWRM - An Initial Overview**

GWP Policy Brief No. 5, 2007,

<http://www.gwpforum.org/gwp/library/Policy%20Brief%205%20Climate%20Change%20Adaptation.pdf>

This brief suggests that the IWRM approach provides a framework for action, indeed that the best approach to manage the impact of climate change on water is that guided by the philosophy and methodology of Integrated Water Resources Management.

**4. Climate Change: How can we adapt?**

GWP Briefing Note, 2009 [http://www.gwpforum.org/gwp/library/GWP\\_Briefingnote\\_climatechange.pdf](http://www.gwpforum.org/gwp/library/GWP_Briefingnote_climatechange.pdf)

More information: <http://www.gwpforum.org/>

---

**ii Expected outcomes for the Water, Climate and Development Programme:**

- Water resources management and climate change risks integrated in development planning and decision making processes in selected number of countries and river basins
- Capacities of partnerships, institutions, and stakeholders enhanced to integrate water and climate change in development processes and strengthen resilience to climate change through better water management
- Financing strategies for water resources management and climate change adaptation developed and governments begin to implement them.

**iii Knowledge Products developed to date:**

**1. Better Water Resources Management - Greater Resilience Today, More Effective Adaptation Tomorrow**

Perspective Paper on Climate Change and Adaptation, CPWC/IWA/IUCN/WWC/GWP, 2009, [http://www.gwpforum.org/gwp/library/Planning\\_Better\\_WRM.pdf](http://www.gwpforum.org/gwp/library/Planning_Better_WRM.pdf)

This paper advocates for better water resources management if communities are to adapt to climate changes. Properly implemented, an IWRM approach is inherently adaptive as it should both inform water users about water challenges and provide a framework through which such challenges can be addressed.

**2. Water Management, Water Security and Climate Change Adaptation: Early Impacts and Essential Responses**

GWP Background Paper No. 14, 2009, [http://www.gwptoolbox.org/images/stories/Docs/tec\\_14\\_web.pdf](http://www.gwptoolbox.org/images/stories/Docs/tec_14_web.pdf)

This paper (3.95 MB) argues that water resources management should be a focus for climate change adaptation and that IWRM is the most suitable approach to adaptive action. It outlines the likely social, economic and environmental impacts of climate change; the challenges climate change poses for water resources management; the actions needed to address those challenges – investments in infrastructure, institutions and information; and approaches to financing IWRM for adaptation.

**3. Climate Change Adaptation and IWRM - An Initial Overview**

GWP Policy Brief No. 5, 2007, <http://www.gwpforum.org/gwp/library/Policy%20Brief%205%20Climate%20Change%20Adaptation.pdf>

This brief suggests that the IWRM approach provides a framework for action, indeed that the best approach to manage the impact of climate change on water is that guided by the philosophy and methodology of Integrated Water Resources Management.

**4. Climate Change: How can we adapt?**

GWP Briefing Note, 2009 [http://www.gwpforum.org/gwp/library/GWP\\_Briefingnote\\_climatechange.pdf](http://www.gwpforum.org/gwp/library/GWP_Briefingnote_climatechange.pdf)