

UNFCCC Meeting on Nairobi Work Programme

WMO's Participation in the Nairobi Work Programme

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Articles of UNFCCC relevant to NMHSs

- **Article 5**
Research and Systematic Observation
- **Article 6**
Education, Training and Public Awareness
- **Article 9**
Subsidiary Body for Scientific and
Technological Advice (SBSTA)

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WMO's strategy for Climate Change

- **Science and monitoring;**
 - *Systematic observation*
 - *Adequate interpretation of climate projections*
 - *Understanding of the role of climate in various human activities*
 - *Climate modelling and prediction*
- **Awareness and capacity building;**
 - *Climate outlook forums*
 - *Technological and know-how packages, including training on data rescue and management*
- **Enhanced partnerships**

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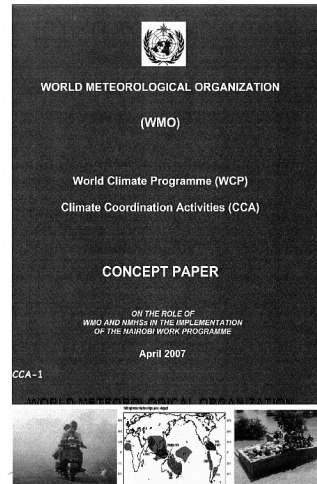
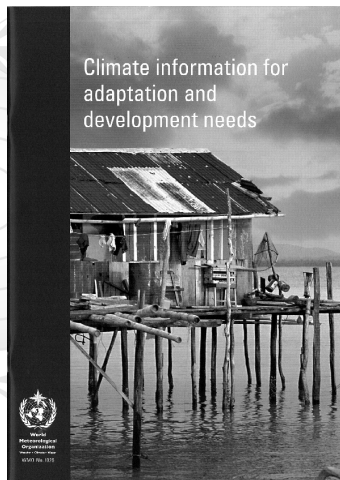
Overview of Engagement

Main areas relevant to WMO

- Methods and tools
- Climate data and observations
- Climate modelling, scenarios and downscaling
- Climate related risks and extreme events
- Adaptation planning and practices
- Research and delivery of improved climate products

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Reports and Publications




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WMO's Primary Modalities

- Provision of expert advice
- Guidelines & technical inputs to projects
- Organization of technical workshops and seminars
- Taking operational responsibilities for implementation
- Capacity building

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Overview of Engagement

 Action pledge to the Nairobi Work Programme	
Name of the project	Climate information, products and services for adaptation
Overall objectives	<ul style="list-style-type: none"> Contribution to NWP activities related to "Methods and tools"; "Adaptation practices and planning"; and "Research and technologies for adaptation" Contribution to calls for action: "Raise awareness on adaptation actions at international and regional levels in order to help facilitate coordination (R1)"; "Improve and Disseminate risk assessment tools and methods for addressing climate change-related health risks (R2)"; and "Development of user-targeted products and services for adaptation" (new, proposed)
Project purpose	<ul style="list-style-type: none"> To bring together climate and sectoral experts from international, regional and national institutions to identify and understand the needs of core socio-economic sectors for climate risk management and adaptation at various levels To develop and to optimize application of user-targeted climate information, products and services for climate risk management and adaptation To build technical capacity for development and application of climate services of national climate experts and user communities, particularly in developing and least developed countries
Activities	<ul style="list-style-type: none"> Organize and/or co-sponsor multisectoral expert meetings, conferences and workshops (climate and health, energy, tourism, urban planning, etc) including (for 2008): <ul style="list-style-type: none"> WMO CCI Expert Teams Climate and Tourism (Waterloo, Canada, 18-21 Nov. 2008) Urban and Building Climatology (Geneva, Switzerland, 28-29 July 2008) 18th International Congress of Biometeorology (Tokyo, Japan, 22-26 September 2008) Publish joint Guidance documents for capacity building and awareness of MHRs and sectoral user-groups including (2008, 09): <ul style="list-style-type: none"> WMO-WHO Guidance on Heat Health Warning Systems WMO Technical Note on Building Climatology WMO Technical Note on Socio-economic Benefits of Climate Services UNWTO UNEP WMO 'Climate Change and Tourism: responding to Global Challenges' WMO Best Practices for RCOF operations, verification and user liaison Coordinate and promote sessions of RCOF's including those for the Greater Horn of Africa (GHACOF), Southern Africa (SARCOF), Western Africa (PREGAC), Western Coast of South America (WCSACOF), Asia (FOCRAS), and initiate new RCOF's

 Action pledge to the Nairobi Work Programme	
Name of the project	Regional Frameworks for Adaptation of Agriculture to Climate Change
Overall objectives	<ul style="list-style-type: none"> Contribution to NWP activities related to "Adaptation Planning and Practices" and "Technologies for Adaptation" Contribution to (new, proposed) call for actions: "Raise awareness on adaptation actions at international and regional levels in order to help facilitate coordination"; "Improve guidance for adaptation planning at the national level" and "Document, analyze and disseminate appropriate local adaptation knowledge and practices"
Project purpose	<ul style="list-style-type: none"> Bring together experts from national meteorological/hydrological and agricultural departments, international and regional organizations and institutions, and policy makers from national planning/financial departments to present state-of-the-art papers, real world applications and innovative techniques for coping with climate change and offer recommendations for planning and implementing an effective Regional Framework for Adaptation of Agriculture to Climate Change
Activities	<ul style="list-style-type: none"> Organize a Regional Symposium on Climate Change, Food Security, Sea Level Rise and Environment in South Asia in Dhaka, Bangladesh (25-29 August 2008) Organize an International Workshop on Adaptation to Climate Change in West African Agriculture in Ouagadougou, Burkina Faso (15-19 September 2008) Provide a central forum to develop an improved understanding and assessment of climate change impacts on agriculture and the associated vulnerability in South Asia and West Africa Discuss and develop informed decisions on practical adaptation strategies for the agricultural sector in different agroecosystems in South Asia and West Africa Discuss and propose a Regional Frameworks for Adaptation of Agriculture to Climate Change in South Asia and West Africa Discuss and recommend policy and financial innovations to enable smooth implementation of the regional frameworks and their integration into the sustainable development planning in different countries in South Asia and West Africa Discuss appropriate actions for strengthening information exchange on climate change impacts and adaptation amongst different countries in South Asia and West Africa
Expected results	<ul style="list-style-type: none"> Enhanced capacity to identify/understand impacts, vulnerability and adaptation; select and implement adaptation actions; enhance cooperation amongst South

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Overview of Engagement

WMO with 2 Action Pledges:

a) Climate information, products and services for adaptation- Methods and Tools

Objectives:

- optimize application of user-targeted climate information
- build technical capacity

Delivered:

- 4 meetings (climate & health, energy, tourism, urban planning)
- Publish 5 joint Guidance doc.s (WMO-WHO on Heat Health Warning, WMO Tech. Note on Building Climatology, Socio-eco benefits of climate services, UNWTO, WMO, UNEP 'Climate Change and Tourism', El Nino-La Nina updates)

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Overview of Engagement

Delivered (contd.):

- Organized Regional Climate Outlook Forums in all regions every 6 months
- Workshops with WCRP for Polar Regions
- Training courses on climate prediction
- Initiated WB-WMO GFDRR project on climate modelling for adaptation
- Established Open Panel of Experts on Climate Information for Adaptation and Risk Management (*Commission for Climatology-CCI*)
- Sponsored UNFCCC Expert Meeting in Mexico, 2008 (Methods/Tools/Data/Observations)

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Overview of Engagement

b) Regional Frameworks for Adaptation of Agriculture to Climate Change- Planning and Practices

Objectives:

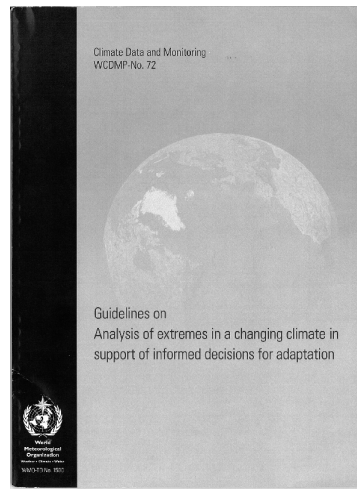
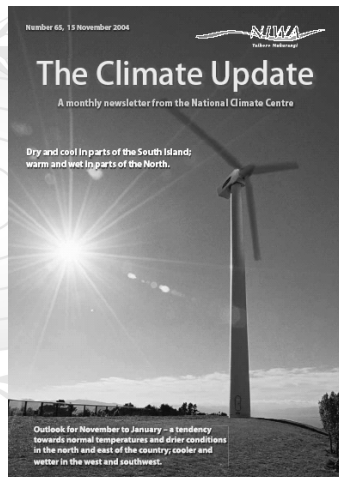
- Improve guidance for adaptation
- Document and disseminate local knowledge

Delivered:

- **Held:** 2 Regional Symposium and workshops (Bangladesh, Burkina Faso)
- **Established:** Central forum- CC impacts on Agriculture in South Asia and West Africa

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Reports and Publications



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WMO Questionnaire on NWP

Role of NMHSs in Adaptation to Climate Variability and Change- 2008

- **Part A: Policy Role of NMHS**

Documents, regular meetings, working directly, designated liaison

- **Part B: Role of NMHS in Adaptation**

Level of priority for adaptation, national strategy for adaptation, sector specific advising services, contribution to NWP, user feedback

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WMO Questionnaire on NWP

- **Part C: Gaps and Needs**

Is the NMHS a data/service provider on adaptation/mitigation?

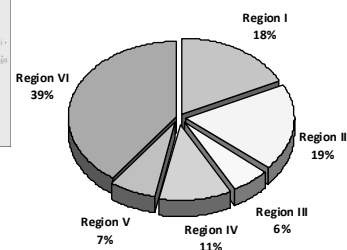
Is there lack of clear legislation/policies on the role of NMHS?

What are limiting factors? (Staff, hardware/software, financial resources)

What efforts enhance the role of NMHS? (Advocacy, wider participation, ETR, technical support, etc.)

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NHMSs Replied to Questionnaire



Percentage of Regional Association which Responded

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The way Forward

WMO & WCRP submitted 15 new Action Pledges

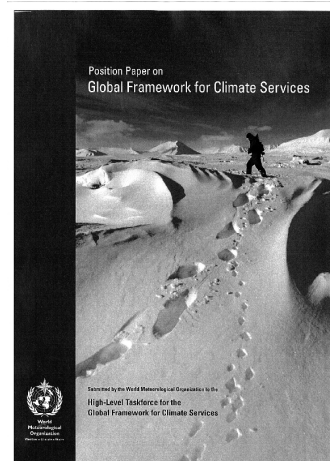
- a) Climate related risks and extreme events
(4 pledges)
- b) Adaptation Planning and Practices
(4 pledges)
- c) Data and observations (2 pledges)
- d) Methods and tools (3 pledges)
- e) Climate modelling, scenarios and downscaling
(2 pledges)

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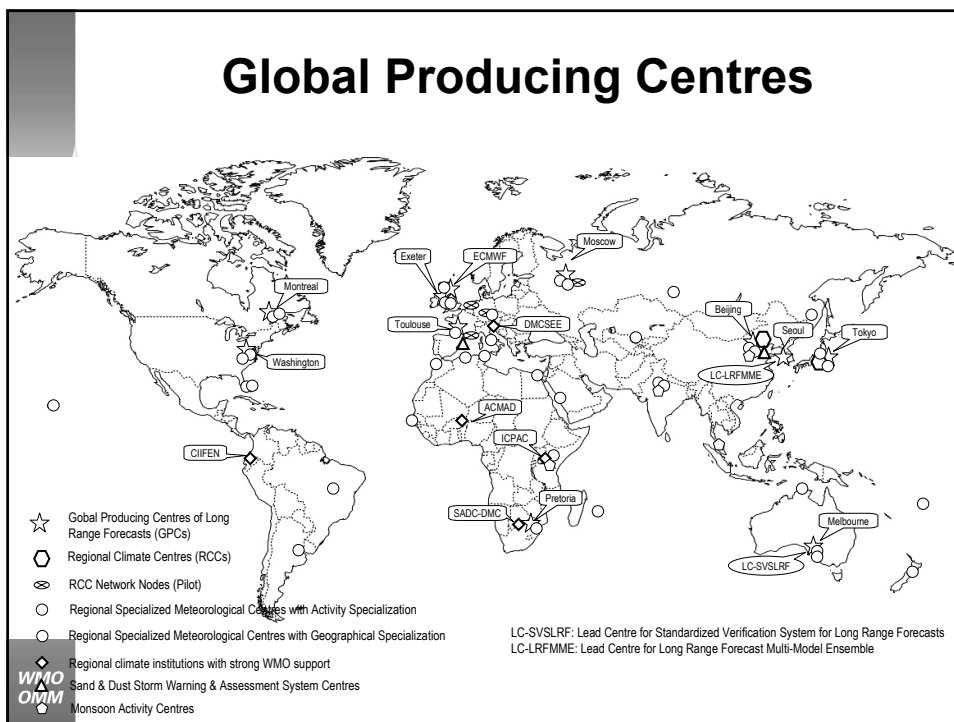
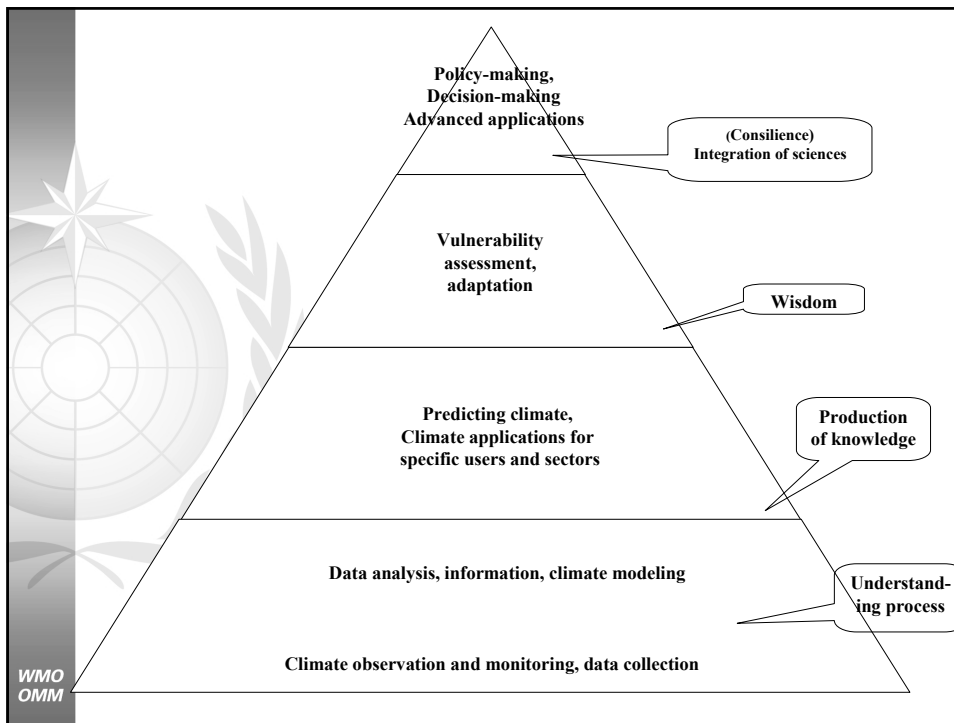
Global Framework for Climate Services (GFCS)

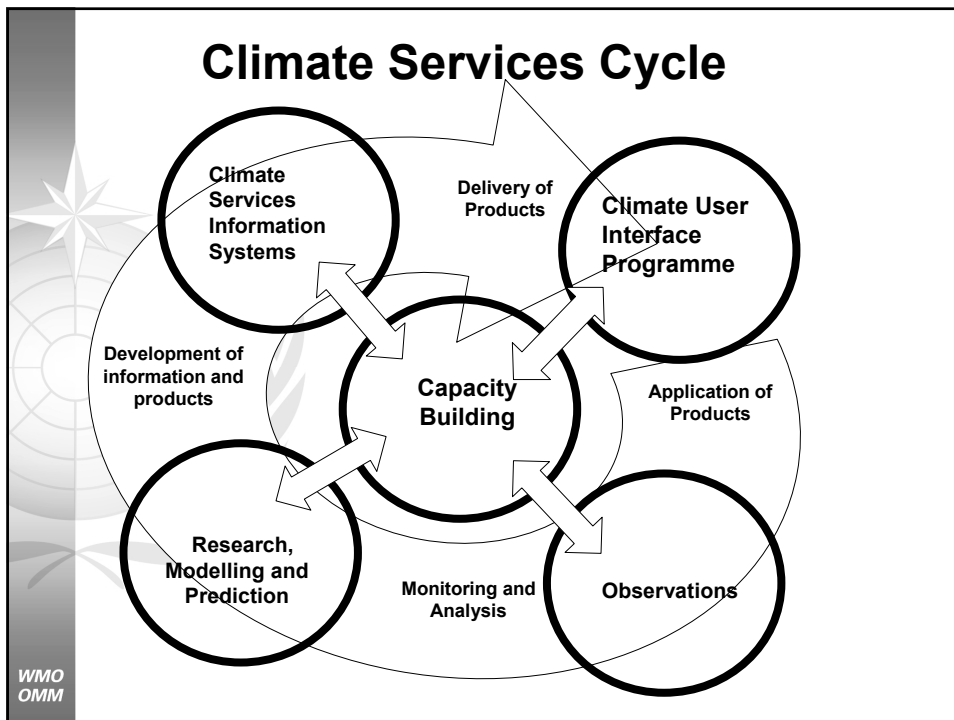
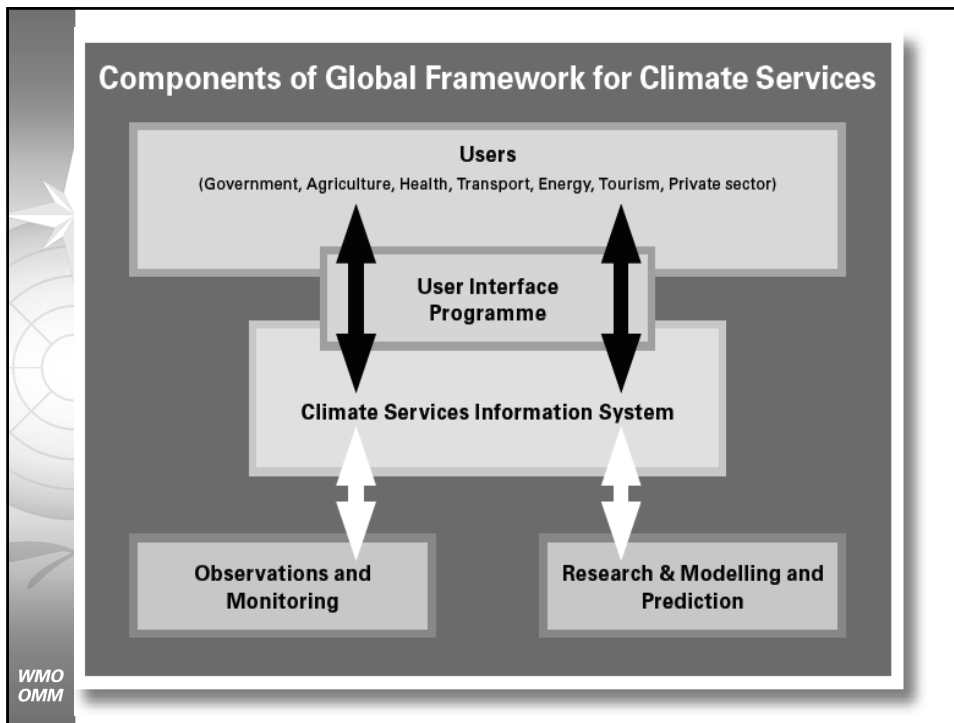
- Sets policy framework, technology and practices
- Mainstreams climate science into decision-making
- Provides better climate risk management

http://www.wmo.int/pages/gfcs/documents/GFCS_Position_Paper_DRAFT_REV_1_en_1.pdf



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Outcomes & Experiences

NWP has promoted:

- i) Internal communication among WCP, WCRP and GCOS
- ii) Development and dissemination of methodologies (*CC Detection Indices, Heat Health Warning, etc.*)
- ii) Collection, management, exchange, access and use of data
- iii) Research and access to and use of CC projection
- iv) Need for understanding of local impacts
- v) Development of joint publications & projects with UNEP, WHO and WB
- vi) Highlighted the gap between socio-economic data and climate data sets
- vii) Motivated WMO-UNESCO knowledge management project- *Web portal*
- viii) Contributes to UN Delivering as One

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Thank you !

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