

CURRICULUM VITAE

Dr Elena MANAENKOVA

WMO Deputy Secretary-General

Nationality: Russian and Swiss

Date of birth: 3 September 1964

Family: Married, two children

Languages: Russian, English, French



EDUCATION

- 1986 MSc in hydrometeorology, BSc in geography from Lomonosov Moscow State University, Diploma *Summa Cum Laude*
- 1993 PhD in physics and mathematics from the Doctorate of the Hydrometeorological Centre of Russia, Roshydromet (specialization in meteorology, climatology, satellite meteorology and remote sensing)

WORK EXPERIENCE

- 2016–2023 Deputy Secretary-General at the World Meteorological Organization (WMO)
- 2010–2016 Assistant Secretary-General, WMO
- 2006–2010 Director, Cabinet and External Relations Department, WMO
- 2003–2006 Director, Atmospheric Research and Environment Programme Department, WMO
- 1993–2003 Scientific Secretary and Director, Scientific Programmes and International Cooperation Department, Scientific and Research Centre on Space Hydrometeorology "Planeta" of Roshydromet, Russia
- 1986–1993 Scientific Officer, Senior Scientific Officer, Hydrometeorological Centre of Russia, World Meteorological Centre of WMO, Roshydromet, Russia

KEY POSITIONS IN THE UN SYSTEM AND THE DIPLOMATIC COMMUNITY

- 2010-2023 Head of WMO Delegation (alternate to SG) at UNFCCC Climate Conferences and the Arctic Council, representative of Secretary-General at numerous international events
- 2011–2016 Chair, UN Working Group on Climate Change, High-level Committee on Programmes of the UN system Chief Executives Board for Coordination
- 2006–2015 Principal member of High-level Committee on Programmes of the UN system Chief Executives Board for Coordination
- 2007–2010 Member of United Nations Development Group
- 2005– 2010 Member of the UN system Environment Management Group
- 2006– 2015 Member of Bureau of the Diplomatic Club of Geneva

AWARDS

- 2016 Named one of 20 "Inspirational women working in Geneva"
- 1995 Medal of Honour "KOROLEV" of the Russian Academy of Cosmonautics awarded for outstanding contribution to the development of Russian meteorological satellite programmes and methods of remote sensing of the Earth

KEY RESPONSIBILITIES (❖) AND ACHIEVEMENTS (✓)

World Meteorological Organization (2003 – 2023)

1.09.2016 – current position Deputy Secretary-General

- ❖ Member of the WMO Executive Management.
- ❖ Responsible for strategic and operational planning.
- ❖ Secretary of Congress and the Executive Council.
- ❖ Leads WMO Governance Reform.
- ❖ Leads WMO climate portfolio and water agenda.
- ❖ Leads WMO engagement in UNFCCC Climate Conferences and other major international events.
- ❖ Supervises departments of services and science (including DRR, climate, hydrology, water resources, and research programmes) and the IPCC Secretariat.
- ❖ Oversees WMO standard making (technical and general regulations).
- ❖ Responsible for WMO Accountability and Internal Control Frameworks.
- ❖ Chairs Secretariat boards and committees, leads task/project teams.
- ❖ Acts for the Secretary-General in his absence.
- ✓ Led the development of the new WMO Strategic Plan 2030 approved by Congress in 2019 (updated in 2023), a foundational basis for WMO constituent bodies, operating plan and budget.
- ✓ Organized and ensured efficient Secretariat support to sessions of Congress and the Executive Council (including virtual and hybrid sessions during COVID-19 pandemic).
- ✓ Led the WMO Governance Reform resulted in the reorganization of the Executive Council and the establishment by Congress in 2019 of two new technical commissions; played leading role in the development of mandates of the new commissions and their terms of reference, and related regulations, rules, and change management; led the transition to and launching of new technical commissions, the Research Board and other new bodies at a time of COVID-19 crisis (virtual joint inaugural session of two new commissions).
- ✓ Ensured active, systematic and effective WMO engagement and contribution to UNFCCC COPs and related mechanisms, resulting in increasingly strong reputation of WMO and uptake of its reports and products, facilitating Member's implementation of Paris Agreement and access to Green Climate fund and other related resources.
- ✓ Ensured production of flagship WMO climate and related science/services reports and products, such as State of Global Climate (and regional reports), State of Climate Services, State of Global Water Resources, Atlas of Mortality, Climate Science Information for Climate Action.
- ✓ Head of WMO Delegation (alternate to SG) at UNFCCC Climate Conferences and the Arctic Council, representative of Secretary-General at numerous international events.
- ✓ Led the development of the WMO Accountability and Controls Frameworks.

2010 – 2016 Assistant Secretary-General

- ❖ Member of the WMO Executive Management.
- ❖ Responsible for the direction, supervision, and coordination of the work of Secretariat.
- ❖ Directly responsible for supporting WMO governance structures; serves as Secretary of Congress and Executive Council.
- ❖ Coordinates the development of the WMO Strategic Plan, Operating Plan and Budget; responsible for monitoring and evaluation, risk management, and gender mainstreaming.
- ❖ Directly responsible for the Development and Regional Activities Department, including regional offices, office for LDCs, capacity development, education and training, resource mobilization and development partnerships.
- ❖ Supervises the Language, Conference and Publishing Service Department.
- ❖ Responsible for high-level relationships with United Nations system. Coordinated WMO engagement and contribution to the preparation of post-2015 sustainable development

agenda, post-2015 framework for disaster risk reduction (HFA2), the UNFCCC process and other related global processes. Member of a number of high-level committees of the UN system.

- ❖ Serves as Chair of the WMO Publications Board, the Project Management Board, the Risk Management Committee, the Investment Committee, the Editorial Group on WMO Standards, as well as a number of task teams.
- ❖ Act for the Secretary-General in the absence of Secretary-General and Deputy Secretary-General.
- ✓ Chair (2011-2016) of the inter-agency group on climate change (38 member organizations, including UN funds, programmes, regional commissions, specialized agencies, UNFCCC, ISDR, the World Bank and IMF). Promoted and increased visibility of WMO in UN-wide climate action, at UNFCCC COPs; initiated development of UN system strategy on climate change and lead formulation of core principles and priorities; fosters collaboration between UN agencies, initiated and/or promoted GFCS and WMO role in other flagship inter-agency collaborative initiatives: Climate-Smart Agriculture, Climate-Smart Cities, UN Climate Change Learning, Climate Finance Platform, Climate and Air Coalition, and others.
- ✓ Led the development and negotiated the governance instrument for the Global Framework for Climate Services (GFCS) and facilitated the unanimous approval of the Intergovernmental Board on Climate Services by the Extraordinary Congress in 2012.
- ✓ Led the development of Integrated African Strategy for Meteorology, its adoption in 2012 by the African Ministerial Conference on Meteorology (AMCOMET) and subsequent endorsement by the Heads of States of the African Union. Supervises the implementation of the Strategy, sustaining the AMCOMET (extra budgetary resources) and strengthening partnerships with AUC and other African Ministerial conferences; supervised AMCOMET-2 and -3 sessions.
- ✓ Pursued and took active role in the establishment of Pacific Ministerial Meeting in charge of meteorology and Arab Ministerial Council for Meteorology and Climate. Lead gender mainstreaming at WMO, in Geneva and in UN system. Organized and raised funds for the WMO Gender Conference in 2014, first Gender Day at Cg-17, initiated leadership training for women (in collaboration with UNITAR and UN-Women), gender days at UNFCCC COPs Durban, Lima and Paris as well as in Sendai. Active advocate for gender-sensitive weather and climate services; achieved recognition of WMO as a UN system model in promoting gender equality.
- ✓ Led development of high-quality standard making (WMO Technical Regulations) and promoted culture of compliance across WMO.
- ✓ Supervised WMO preparation for major 2015 conferences: Sendai WCDRR-III, Samoa SIDS Summit, UNFCCC COPs and UN process on 2030 Agenda on sustainable development.
- ✓ Led resource mobilization activities, advocate for investment in weather-, climate- and hydrological capabilities and services: negotiated and signed agreement with the WB for investment in weather and climate in Sub-Sahara Africa, launched WB GFDRR at the WMO, acquired observer status for WMO and represented WMO at the Consultative Group of the WB GFDRR, chaired a number of development workshops and dialogues and advocated WMO expert role in the development (i.e. Green Climate Fund, UNDP, UNECA, GEF, WB).
- ✓ Established and lead the development of project management mechanism (focus on large and complex projects).
- ✓ Supervised and led integrated strategic planning, engaged Members and regional associations, catalysed regional/Member ownership of WMO strategic priorities.
- ✓ Led modernized Secretariat operations, achieved significant improvements in quality and efficiency of services to Members: implemented major reform of sessions (paperless electronic session management) for all WMO constituent bodies since 2012 (first organization in UN system), e-correspondence, video- and tele-conferencing and other measures. Achieved significant reduction of session cost due to good planning and session management.
- ✓ Organized Cg-16, Ext-Cg-2012 and Cg-17, all sessions of EC and RAs since 2010.

2006 – 2010 Director, Cabinet of Secretary-General and External Relations Department

- ❖ Provided direct support to the Secretary-General in cabinet functions.

- ❖ Provided strategic direction in the development, integration and execution of strategic plans and policies related to all WMO external relations activities, including relations with government authorities and Permanent Missions in Geneva, UN system organizations, IGOs, NGOs and other international organizations.
- ❖ Directed and managed WMO representation in relevant international processes and contribution to global and regional strategies; ensured cooperation and coordination with the UN system and other international organisations, mobilised networks of strategic partnerships.
- ❖ Represented WMO at the sessions of UN General Assembly, ECOSOC, governing bodies of UN organizations and other high-level events.
- ❖ Supported sessions of constituent bodies of WMO in collaboration with technical departments.
- ❖ Directed WMO communication and public relations activities.
- ✓ Organized the WMO/ICSU International Polar Year 2007-2008 – large-scale multidisciplinary scientific research initiative in partnership with ICSU (60M US\$ extra budgetary resources overall).
- ✓ Played key role in the development of first WMO Strategic Plan and transition of WMO to results-based management and in the restructuring the WMO Secretariat in 2008.
- ✓ Organized the high-level segment of World Climate Conference – 3 in 2009 (Heads of States and Governments, Ministers, and with wide representation of UN system and other partners).
- ✓ Promoted and achieved recognition of the GFCS as a flagship initiative of UN system on climate change, mobilized the UN system partnership for GFCS.
- ✓ Initiated establishment in 2007 of the UN system working group on climate change; organised and convened inter-agency network on climate knowledge.
- ✓ Modernized Secretariat operations and services to Members, such as e-voting during sessions, public EC session documents, delegation of authority, on-line database of Composition of WMO (Pub5).
- ✓ Served as Secretary at Cg-XV and EC sessions (directly support to the President).

2003 – 2006 Director, Atmospheric Research and Environment Programme Department

- ❖ Directed and managed implementation of key WMO research programmes:
 - World Weather Research Programme (WWRP) - THORPEX, global and mesoscale numerical weather prediction, data assimilation, tropical meteorology, nowcasting, model verification and intercomparison, physics and chemistry of clouds, weather modification research, forecast demonstration and R&D projects; and
 - Global Atmosphere Watch Programme (GAW) – networks for measurement of chemical composition of the atmosphere including ozone, greenhouse gases, aerosols, reactive gases, atmospheric deposition chemistry, UV solar radiation as well as urban air quality.
- ❖ Provided institutional and programmatic support to the WMO Commission for Atmospheric Sciences.
- ✓ Organized, set in motion and mobilized resources for THORPEX - the 10-year internationally highly esteemed global research programme that was successfully completed in 2013 with 3 legacy projects current priorities of WMO.
- ✓ Streamlined and expanded research areas of the WWRP; introduced multi-disciplinary studies and groups, such as on socio-economic benefits, observing system experiments; initiated linkages and joint projects between WWRP and GAW (e.g. sand and dust storms project) and between WWRP and World Climate Research Programme (e.g. Year of Tropical Convection conducted in 2008). Brought together all global NWP centres for the Global Integrated Ensemble Prediction System and near real-time global NWP model intercomparison. Initiated Polar Predictability Project, Sand and Dust Storm EWS.
- ✓ Launched the first WMO Bulletin on Greenhouse Gases (currently top product of WMO widely recognized and appreciated). Led the establishment of the on-line GAW Station Information System (prototype of WIGOS Oscar and Monitoring System currently under development).

- ✓ Reorganized and restructured the Commission for Atmospheric Sciences in 2005 (structure is still in place). Strengthened transition of research to operations through institutional linkages with the Commission for Basic Systems as well as with all Regional Associations.
- ✓ Organizes and raised funds for several global symposia and conferences.

Russian Federal Service for Hydrometeorology and Environmental Monitoring

1997 – 2003 Scientific Secretary and Director, Scientific Programmes and International Cooperation Department at the Scientific and Research Centre on Space Hydrometeorology "Planeta"

- ❖ Planned and supervised implementation of research and operational programs and projects (national and international).
- ❖ Served as Secretary of Scientific Council of Roshydromet on Hydrometeorological Forecasts and Prediction; coordinated planning and monitoring of scientific research programmes carried out by all institutions and organizations of Roshydromet.
- ✓ For the first time in Roshydromet history organized the all-Russia tender for selection of more than hundred of projects for the implementation of large federal scientific program for the development of a unified information system on the World Ocean.
- ✓ Managed the international project of the European Open Partially Agreement on Risks (EUROPA-Risks) on the use of space techniques for the major risks management (1995-1997); as well as a number of research and development projects in a framework of the European GMES initiative (1998-2002) and other international projects.
- ✓ Played a key role the development of the WMO Space Programme.
- ✓ Represented Russia in the Coordination Group for Meteorological Satellites (CGMS) and the Committee for Earth Observation Satellites (CEOS). Actively worked in several WMO technical commissions.

1993 – 1997 Chief, Division of Satellite Data Processing Methods and Technologies at Research and Production Association "Planeta"

- ❖ Developed and implemented methods and technologies for satellite data processing, product generation and application (GOMS-Electro, METEOR, NOAA, METEOSAT, GMS, SPOT, Radarsat, Okean), most of which were in operation for a decade.
- ❖ Developed a range of remote sensing products for operational meteorology and hydrology, natural hazards monitoring, ecological and environmental monitoring and climate applications.
- ✓ Played a key role in restoring working capacity of the first Russian geostationary meteorological satellite GOMS-Electro in 1995 which otherwise would be lost after having been damaged during the launch to the orbit. Developed methods and software for satellite orbital stabilization, high-speed data processing, geometrical rectification and calibration of IR and VIS data (using atmospheric transfer functions and inter calibration with METEOSAT and GMS).
- ✓ Developed methods of direct assimilation of satellite data in NWP.
- ✓ Took part in the development of the first Russian Infrared Fourier Spectrometer for remote sensing and methods of spectrum analysis and retrieval of atmospheric parameters.

1986 – 1993 Scientific Officer, Senior Scientific Officer at the Hydrometeorological Centre of Russia - World Meteorological Centre of WMO

- ❖ Meteorological research, objective analysis and numerical modeling.
- ✓ Took part in the development of data assimilation schemes and objective analysis.
- ✓ Developed mesoscale model for numerical weather prediction (winter convection).
- ✓ Developed methods and technologies for numerical satellite data processing based on first microprocessors (personal computers). Developed numerous products based on remote sensing data.