



URBAN RESILIENCE AND INTEGRATED EARLY WARNINGS

Monday, 22 May 2017, 13:15 -14:45

Expo Center Room 1, Moon Palace, Cancún, Mexico

The accelerating growth of urban populations, especially in developing countries, has become a driving force of human development. Well-planned high-density cities are centers of creativity and economic progress. However, rapid and unplanned urban development has exposed the entire urban systems to greater risks and environmental challenges associated with urban air pollution, impacts of sand and dust storms and vegetation fires, water shortage and flooding, and weather and climate extremes. Increasingly dense, complex and interdependent urban systems leave cities vulnerable to such hazards: through a domino effect, a single extreme event can lead to a broad breakdown of a city's infrastructure. WMO and its partner cities will discuss needs for, gaps, and a way forward to develop city-tailored guidelines for integrated urban services to improve resilience of urban communities to natural disasters and climate change and explore how the meteorological, public health, environmental, civil protection, urban planning and other communities can work together to create healthy, climate-smart and sustainable cities.

Main Goals

- Raise awareness about specific value and needs on weather and environmental information to specified purposes of urban management;
- Explore aspects of communication on such information that determine whether forecasts & warnings will be received, trusted, understood and acted on;
- Build a common strategy and directions toward sustainable and resilient cities among UN agencies and city stakeholders, and establish partnerships for action;
- Demonstrate research achievements and best practices for building urban multi-hazard early-warning systems;
- Gauge interest from cities for implementing urban integrated services.

Presentations (10 min for each speaker) (Moderator: Luisa Molina (WMO-GURME SAG))

Gregory Carmichael (Chair, WMO-GAW-SSC)

Overview of WMO Urban Multi-Hazard Early Warning Research and Systems

Brian Golding (Met Office, UK)

World Weather Research Program High Impact Weather project outcomes

Lauro Rossi (EWS Program Director, CIMA Research Foundation)

Quantitative impact-based multi-model Early Warning System in a multi-hazard perspective
- a contribution from the WMO Commission for Hydrology

Tanya Müller García (Head, Environment Secretariat, Government of Mexico City, Mexico)
CDMX: Building a more Resilient and Healthy City

Zhenlin Chen (Director-General, Shanghai Meteorological Service, China Meteorological Administration, China)

The practice of Shanghai Multi-Hazard Early Warning System (MHEWS)

Matthias Garschagen (United Nations University, Institute for Environment & Human Security)
Strengthening the links between vulnerability assessment and early warning designs

Discussions (Moderator: Gregory Carmichael (Chair, WMO-GAW-SSC))