

Global Atmosphere Watch Program Secretariat update for the GWA/GCOS- CH Symposium

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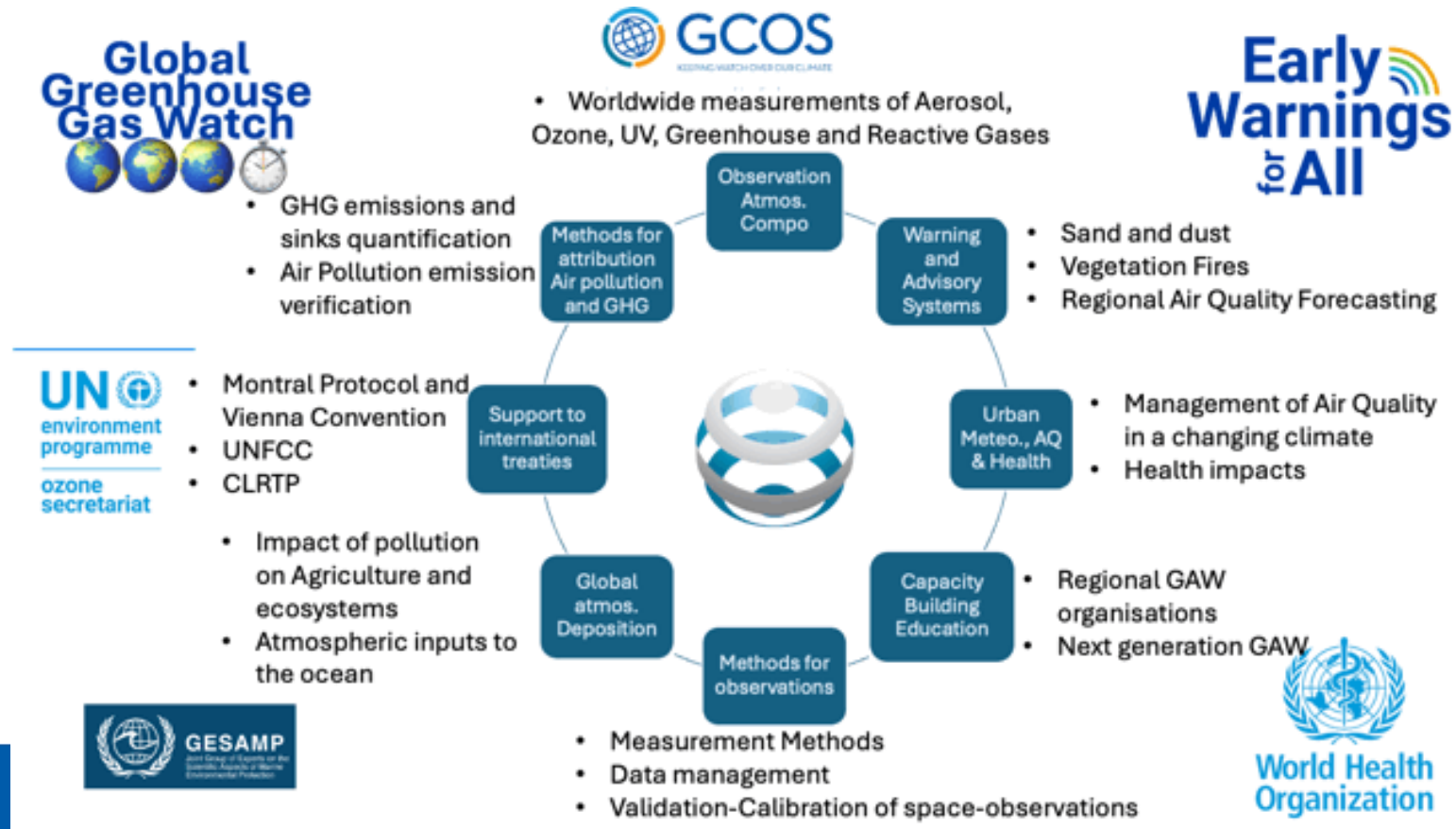
WORLD
METEOROLOGICAL
ORGANIZATION

GAW, more than what you think...

- Strengthen and sustain **global atmospheric composition observations**.
- Provide members with **up-to-date assessments** of atmospheric composition and its impacts on climate, health, and other sectors.
- Identify and promote the **best tools and strategies** for observing,

- Ensure all countries have access to **training** to operate monitoring and forecasting systems

Supporting the WMO strategies – a voice of science in the UN System



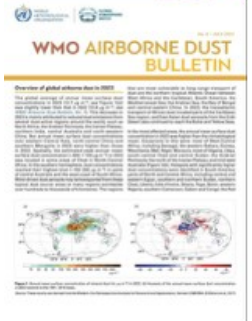
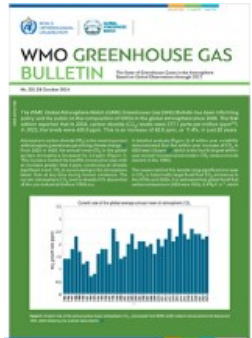
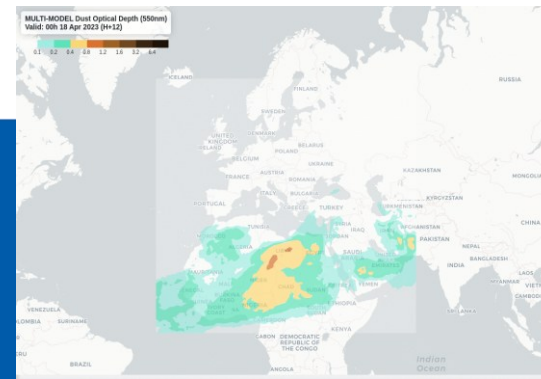
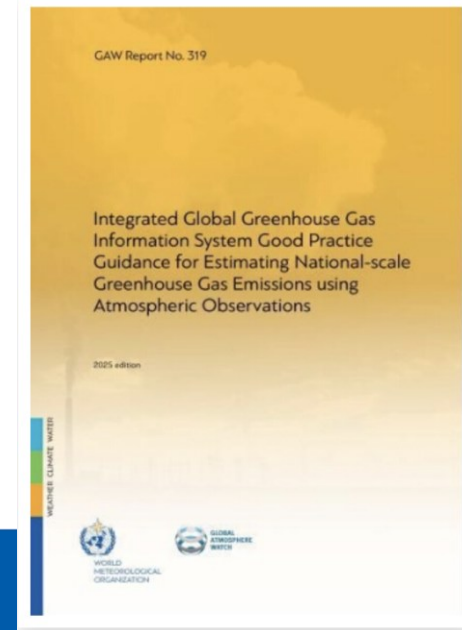
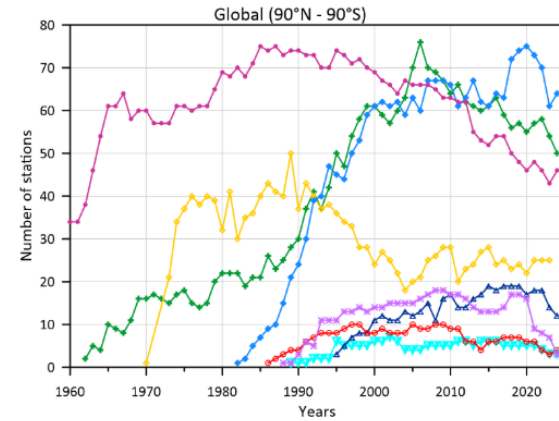
Translated into questions...

- What is the **status of the current ground-based observing system** ?
- Where are the **best-suited sites** for implementing new observations for GHG and ODS ?
- Can we **detect and quantify impacts** of emission reduction at Global scale ?
- How can we implement **air quality forecasting** systems in areas where they are missing ?
- How can we mitigate impacts of **dust storms and extreme heat** on Human health ?
- How can we **raise awareness** on critical issues regarding atmospheric composition and its impacts ?
- And more



...and into practical implementation (examples)

- Status of the ground-based monitoring system in 2025 (with GCOS);
- Annual WMO GAW bulletins 2026 and the quadriennial ozone assessment;
- Guidance for estimating emissions from atmospheric observations
- Enhancing the Sand and Dust storm forecasting service
- Supporting Calibration of Brewer and Dobson instruments and training (currently in Japan)



GAW-CH



- **Essential** participation in several GAW expert groups from Meteoswiss and Research organizations / Universities
- Coordination of GAW **training** components, coordination of GAW **data** management
- Operating **key stations** within and **outside** Switzerland;
- Operating (and expanding) **Central Facilities** and key actor in auditing Global Stations
- Operating **GAWSIS**
- **Scientific Assessments** for trends and variability
- **GAW / GCOS CH** symposium and White Paper
- **CATCOS Heritage**



GAW Next 2028-2031

(Business as usual...)

- Modernize, expand and sustain the **observing network** and the **interoperable global data-exchange** and information system;
- Maintain and expand **capacity** to operate the observing system;
- Providing **authoritative, science-driven**, support to policies

(...but not only)

- **Enhance predictive capabilities** for All (Vegetation fires, SDS, Air Quality), accounting for advancing technologies
- More regular **assessments of the State of the Atmospheric Composition**, perhaps extending to new pollutants, and **impacts**
- **Early Warning for All**: Accelerate Research to Operations through regional centres and fostering role of NMHS
- Expanding **Regional** capacity and Engaging countries



*with partner
organizations
and the
scientific
communities*

GAW-Next 2028-2031

- **Organization:** a more agile, cost-efficient organization (8 Expert Groups) with clear short-term / long-term deliverables
- **On-demand Working groups to address specific issues:** use of low-cost sensors, multi-hazard assessments, etc..
- **Inclusiveness / Renewed membership:** Early-career scientists, Women in Science, Regional diversity
- **Come and Discuss : the GAW Symposium (WMO, April 13-17, 2026)**

WEATHER CLIMATE WATER



GLOBAL
ATMOSPHERE
WATCH

2026 Symposium

2026
Global Atmosphere
Watch Symposium

13–17 April 2026
Geneva, Switzerland

أهلاً و سهلاً

Bienvenue

Welcome

欢迎

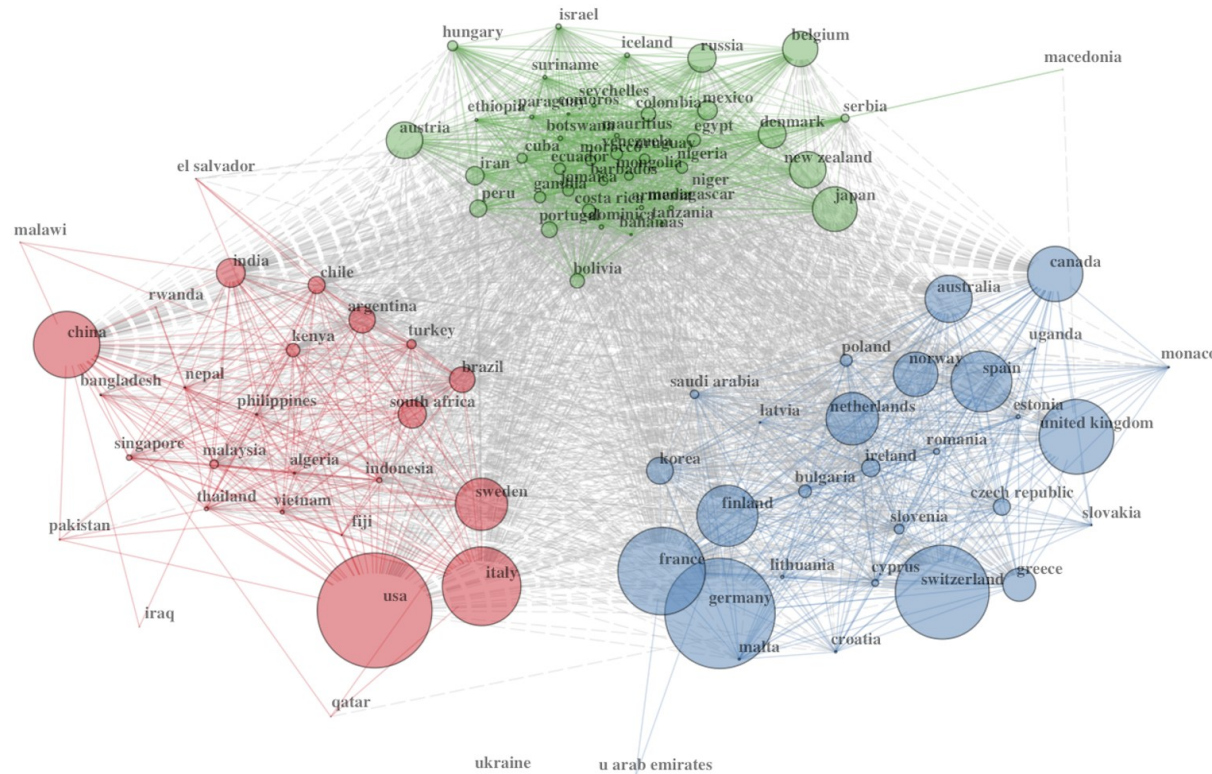
Добро пожаловать

Bienvenidos



GAW-Next and YOU

Global Challenges need Connected Scientists, find your place in the value chain



WMO-GAW Newsletter



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Meet the GAW Secretariat Team

Paolo Laj: overall coordination

Oksana Tarasova: Greenhouse gases

Lorenzo Labrador: Aerosol, Reactive gases, Deposition

Sara Basart: urban, modelling, SDS, Vegetation fires and air quality services

Sergio Moreno: Metrology, Infrastructure and data

Leilani Dulguerov: FOCI project, Ozone

Julie Bourdeu: MEDEWSA project, communication Newsletter

Lingaona Zhu: CAMS2-24 project

Jarin Tasneem Oyshi: IG3IS, communication

Haojie Lu: GAW information system

Ludivine Bosmean: ICA Project