

WMO Monitoring Breakout Participants



WMO Monitoring Breakout Participants



Monitoring Advances

- Development of new techniques for eruption detection of volcanoes (satellite, local infrasound, CTBTO infrasound, gps), in some cases using data for uses beyond their original intent.

Monitoring Advances

- Real-time, continuous multi-parametric data for monitoring subsurface magmatic/volcanic processes (e.g., Realtime seismic, Multigas, webcams, tilt/gps/deformation) and improved

Monitoring Advances

- Increased communication among VAAC meteorologists, observatory volcanologists, and research community, facilitated by meetings like this, that help inform the community on needs and capabilities.

Monitoring Advances

- Improved geological understanding and threat-ranking for volcanoes; more is needed; threats and eruptive scenarios; improving the source term databases

Monitoring Advances

- New ways of thinking about eruption monitoring parameters in eruption forecasting to include databases of previous eruptions and construction of event-trees to guide discussion on eruption scenarios (WOVO Dat, EFIS).

Monitoring Challenges

- Improvements in “forecasting” eruptions have been made (at least advance warning), but the specific time, duration and intensity is unknown.

Monitoring Challenges

- Interpreting and communicating processed products to the VAACs quickly. Quicker, better, multidisciplinary instruments exist, but challenge remains how to extract the relevant information and products for source terms quickly

Monitoring Challenges

- The level of monitoring and available resources for improvement is inconsistent around the world, and there is a need for the community to know about these differences
 - Map? Additional attention paid via satellite, infrasound, etc?

Monitoring Challenges

- Transfer of data and information products between all organizations involved, and development of new collaborations (satellite, radar, in-situ monitoring data). How to make the diverse datasets accessible globally, in near real time, Who organizes the database as a governing body?

Monitoring Challenges

- Integration of multi-parameter data streams within observatories and in conjunction with other groups outside of the observatory.