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## 's Role in Nuclear Emergency Response and Cooperation with CTBTO

The World Meteorological Organization (WMO) supports its Members and related international organizations such as the IAEA and the CTBTO regarding nuclear incidents and accidents and the determination of possible source regions related to anomalous, treaty-relevant radionuclide measurements. To respond to nuclear emergencies 24/7, Ten WMO Members WMO Integrated Processing and Prediction System Designated Centres (WIPPS-DCs) to cover the entire globe.

Within the framework of the cooperation agreement between the Preparatory Commission for the CTBTO and the WMO, the Provisional Technical Secretariat (PTS) notifies both the WIPPS-DCs for the provision of atmospheric backward transport and dispersion products and the WMO Secretariat in the event that anomalous radionuclide measurements occur in the International Monitoring System. The notification message contains a list of radionuclide station locations for which products are requested. The products are uploaded to a secured FTP server, as defined in the request form, within 24 hours of reception and according to the pre-agreed format and conditions. This working arrangement is outlined in the Manual on WIPPS (WMO No. 485).

WMO emergency response activities are coordinated by an expert team. In 2024, the team agreed to provide higher-resolution products in both time and space and to include noble gases for tracing.

### E-mail

[elim@wmo.int](mailto:elim@wmo.int)

### In-person or online preference

**Primary authors:** Ms LIM, Eunha (World Meteorological Organization (WMO)); WOTAWA, Gerhard (Geosphere Austria); HONDA, Yuki (World Meteorological Organization (WMO))

**Co-authors:** MALO, Alain (Environment and Climate Change Canada); Ms OSORES, María Soledad (Servicio Meteorológico Nacional)

**Presenter:** Ms LIM, Eunha (World Meteorological Organization (WMO))

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