FINNISH METEOROLOGICAL INSTITUTE

Data request of Main Geophysical Observatory

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on behalf of E.Genikhovich

Background

- Russia has a wide and established system on observing and forecasting air quality: over 250 cities possess city-scale assessment and forecasting systems
  - the bulk of such installations replicate the statistical short-term forecasting model developed by Main Geophysical Observatory
  - legislated pollutants include O3, NO2, PM10 and others
  - no legislation for PM2.5
- Legislation also requires air quality impact assessment for all new installations or for update of existing ones
  - this includes scenario with and without the new installations
  - computation of scenarios require detailed knowledge on sources: high resolution in space and comparatively detailed chemical composition of the release
- High-resolution emission inventory in Russia is essentially non-existing or not available

User request from MGO

- Data: high-resolution emission estimates for the regulated pollutants in Russia and their precursors
- Coverage: whole Russia
- Temporal resolution: monthly or annual
- Additional information: emission variation with height, temporal discontinuities
- Special request: support of the IS4FIRES installation and provision of the near-real-time fire data