**Download of air radioactivity data**

Concentration data of aerosol-bound radioactivity in outdoor air at 6 stations operated by the Environmental Radioactivity Section (URA) of the Federal Office of Public Health (FOPH) is available for download at data.geo.admin.ch (on the page in English search for 'Radioactivity in the atmosphere').
The filters of the high-volume aerosol collectors are changed weekly and then analyzed using gamma spectrometry (HPGe).
The results of the last four months are provided as a semicolon-separated CSV-file, which can be downloaded from the STAC browser as 'https://data.geo.admin.ch/ch.bag.radioaktivitaet-atmosphaere/radioaktivitaet-atmosphaere/radioaktivitaet-atmosphaere_2056.csv'. The file contains the latest available data, however, note that due to sample shipping and long measurement times there is a delay of several days. By default the file contains the concentrations of the isotopes Be-7, Co-60, I-131, Cs-134, and Cs-137. Other isotopes might be added occasionally.

A description of the file is given in the table below.

| Field name | Example | Comment |
|---|---|---|
| Originator | www.bag.admin.ch/ura-hvs-de | reference to the laboratory publishing the data |
| Organization | BAG/OFSP/SFOPH | Name of the organization publishing the data |
| Sending_date | 02-17-2021 08:26Z | date and time when data file was created (UTC) |
| Country | Switzerland | Country of measurement site |
| Location | CERN | Name of the location of the measurement site |
| Latitude | 46.24 | Latitude in of measurement site °N |
| Longitude | 6.08 | Longitude of measurement site in °E |
| Altitude_m_asl | 421 | Altitude of measurement site in meters |
| Fraction | Aerosol | Fraction sampled (aerosol or gas phase) |
| Start_date | 09.11.2020 | Date at the beginning of sampling (UTC) |
| Start_hour | 10:17 | Time at the beginning of sampling (UTC) |
| End_date | 16.11.2020 | Date at the end of sampling (UTC) |
| End_hour | 07:55 | Time at the end of sampling (UTC) |
| time_standard | UTC | time standard used |
| Volume_m3 | 87968 | Volume of air sampled |
| STP_corrected_volume | No | Is the reported volumes of air corrected to standard temperature and pressure? |
| Ref_temp | | Reference temperature used for the above correction |

| | | |
|---|---|---|
| Start_timestamp | 11-09-2020 10:17Z | Date and time at the beginning of sampling (UTC) |
| End_timestamp | 11-16-2020 07:55Z | Date and time at the end of sampling (UTC) |
| Nuclide | Be-7 | name of the nuclide reported |
| Activity_concentration | 3291 | measured activity concentration of the nuclide in units specified in field 'Unit' |
| Absolute_uncertainty | 330 | uncertainty (type see field 'Standard_Deviation_type) of the activity concentration in units specified in field 'Unit' |
| Unit | µBq/m3 | Unit of activity concentration and uncertainty reported |
| Relative_uncertainty_% | | relative uncertainty in percent |
| Limit_value | 3.094 | detection limit (or other limit as specified in field 'Limit_type') |
| Limit_unit | µBq/m3 | unit of the limit |
| Limit_type | Detection Limit (DL) | type of the limit given in field 'Limit_value' |
| Standard_Deviation_type | 2 sigma (k=2) | type of uncertainty given in field 'Absolute_uncertainty' and 'Relative_uncertainty_%' |
| Coincidence_Correction | Yes | Are true coincidence corrections performed for Gammaspectrometry analyses? |
| Parent_Daughter_Correction | | Information on any particular corrections for parent-daughter isotope equilibrium |
| Measurement_Standard | | |
| Reference_date_type | collection interval | 'collection interval' assumes constant concentration during the sampling interval. Decay during sampling for short-lived isotopes is corrected. |
| Explicit_ref_date | | Reference date to which the radioactive decay has been corrected. No date is given with option 'collection interval' in field 'Reference_date_type' |
| Comment | | any other comment |

# 03.10.2024