

2017-10-13 at 19:00 UTC



**IAEA**

**International Atomic Energy Agency**

**Incident and Emergency Centre**

**FOR AUTHORITIES' USE ONLY**

**Technical Attachment**  
**Status of Measurements of Ru-106 in Europe**

## Measurement data

Table 1 is a compilation of all measurement data provided to the IAEA as of 2017-10-13 15:00 UTC.

### NOTE

All data provided here is for simple plotting purposes. All of the data provided by Member States has been taken with varying air sampling durations ranging from 1 to 7 days in length. For multi-day samples this table takes the midpoint of the sample range. Reference USIE for the full information regarding every sample.

**Table 1 - Measurement data provided to the IAEA as of 2017-10-13 15:00 UTC**

| Date Time           | Location Name | Latitude    | Longitude | Ru-106<br>mBq/m <sup>3</sup> | Uncertainty |
|---------------------|---------------|-------------|-----------|------------------------------|-------------|
| 2017-09-25 12:00:00 | Budapest *    | 47.501129   | 19.046467 | 2.74                         |             |
| 2017-09-25 12:00:00 | Sola          | 58.880000   | 5.640000  | 0.001                        |             |
| 2017-09-25 12:00:00 | Ukraine       | 47.820885   | 31.186263 | 3.90E+00                     |             |
| 2017-09-26 12:00:00 | Budapest *    | 47.501129   | 19.046467 | 1.72                         |             |
| 2017-09-27 06:24:00 | Ljungbyhed    | 56.080000   | 13.220000 | 4.00E-03                     |             |
| 2017-09-27 12:00:00 | Budapest *    | 47.501129   | 19.046467 | 1.99                         |             |
| 2017-09-27 12:00:00 | Harku         | 59.39694444 | 24.41     | 0                            |             |
| 2017-09-27 12:00:00 | Saraevo       | 43.863890   | 18.417500 | 4.76                         | 0.41        |
| 2017-09-27 18:00:00 | Visby         | 57.610000   | 18.320000 | 0.01                         |             |
| 2017-09-27 18:00:00 | Viksjofjell   | 69.620000   | 30.810000 | 0.002                        |             |
| 2017-09-27 23:03:00 | Gavle         | 60.670000   | 17.190000 | 1.00E-02                     |             |
| 2017-09-28 12:00:00 | Arkona        | 54.67812    | 13.43355  | 1.42E-02                     |             |
| 2017-09-28 12:00:00 | Görlitz       | 51.16234    | 14.95027  | 4.91                         |             |
| 2017-09-28 12:00:00 | Greifswald    | 54.09619    | 13.40509  | 8.96E-03                     |             |
| 2017-09-28 12:00:00 | Cottbus       | 51.77614    | 14.31669  | 6.78E-01                     |             |
| 2017-09-28 12:00:00 | Fürstenzell   | 48.54421    | 13.35245  | 1.95E-02                     |             |
| 2017-09-28 12:00:00 | Angermünde    | 53.03145    | 13.99079  | 1.60E-01                     |             |
| 2017-09-28 12:00:00 | Warszawa      | 52.225877   | 21.014472 | 4.09                         | 0.05        |
| 2017-09-28 12:00:00 | Bialystok     | 53.132961   | 23.167050 | 0.23                         | 0.01        |
| 2017-09-28 12:00:00 | Gdnyia        | 54.518892   | 18.547243 | 3.62                         | 0.07        |
| 2017-09-28 12:00:00 | Katowice      | 50.265410   | 19.025037 | 0.6                          | 0.03        |
| 2017-09-28 12:00:00 | Krakow        | 50.065197   | 19.945813 | 1.67                         | 0.12        |
| 2017-09-28 12:00:00 | Lubin         | 51.398746   | 16.208028 | 7.16                         | 0.17        |
| 2017-09-28 12:00:00 | Lodz          | 51.757736   | 19.459985 | 7.63                         | 0.22        |
| 2017-09-28 12:00:00 | Sanok         | 49.555275   | 22.207992 | 6.52                         | 0.37        |
| 2017-09-28 12:00:00 | Szczecin      | 53.427978   | 14.561445 | 0.36                         | 0.01        |
| 2017-09-28 12:00:00 | Wroclaw       | 51.108029   | 17.035548 | 3.03                         | 0.06        |

| Date Time           | Location Name    | Latitude    | Longitude   | Ru-106<br>mBq/m <sup>3</sup> | Uncertainty |
|---------------------|------------------|-------------|-------------|------------------------------|-------------|
| 2017-09-28 12:00:00 | Zielona Gora     | 51.935611   | 15.502848   | 3.99                         | 0.1         |
| 2017-09-28 12:00:00 | Torun            | 53.012484   | 18.602914   | 9.93                         | 0.35        |
| 2017-09-28 12:00:00 | Budapest         | 47.496904   | 19.041031   | 11.95                        |             |
| 2017-09-28 12:00:00 | Budapest         | 47.496904   | 19.041031   | 10.56                        |             |
| 2017-09-28 12:00:00 | Budapest         | 47.496904   | 19.041031   | 14.67                        |             |
| 2017-09-28 12:00:00 | Paks             | 46.606324   | 18.857377   | 13.5                         |             |
| 2017-09-28 12:00:00 | Budapest *       | 47.501129   | 19.046467   | 1.94                         |             |
| 2017-09-28 12:00:00 | Osteras          | 59.940000   | 10.600000   | 0.186                        |             |
| 2017-09-28 12:00:00 | Orland           | 63.690000   | 9.610000    | 0.074                        |             |
| 2017-09-28 12:00:00 | Skibotn          | 69.370000   | 20.300000   | 0.003                        |             |
| 2017-09-28 12:00:00 | Toravere         | 58.26444444 | 26.44083333 | 0                            |             |
| 2017-09-28 12:00:00 | Ukraine          | 47.499780   | 34.57049    | 2.30E+01                     |             |
| 2017-09-28 12:00:00 | Ukraine          | 47.486322   | 34.416862   | 3.00E+01                     |             |
| 2017-09-28 12:00:00 | Ukraine          | 47.434942   | 34.382228   | 3.60E+01                     |             |
| 2017-09-28 12:00:00 | Milano           | 45.473056   | 9.222500    | 1.09                         |             |
| 2017-09-28 12:00:00 | Milano           | 45.473056   | 9.222500    | 1.09                         |             |
| 2017-09-28 18:00:00 | Ostrava          | 49.833000   | 18.283000   | 3.8                          |             |
| 2017-09-28 18:09:00 | Alt-Prerau       | 48.796440   | 16.475253   | 0.011                        |             |
| 2017-09-28 19:20:00 | Holesov          | 49.317000   | 15.670000   | 7.9                          |             |
| 2017-09-28 19:50:00 | Innsbruck        | 47.259963   | 11.356563   | 1.40E-05                     |             |
| 2017-09-28 20:22:00 | Kiruna           | 67.840000   | 20.420000   | 3.00E-03                     |             |
| 2017-09-28 20:30:00 | Salzberg         | 47.790951   | 13.052626   | 9.60E-06                     |             |
| 2017-09-28 21:04:00 | Klagenfurt       | 46.648407   | 14.318416   | 0.0048                       |             |
| 2017-09-28 21:20:00 | Umea             | 63.850000   | 20.340000   | 5.00E-03                     |             |
| 2017-09-28 21:25:00 | Strass-Spielfeld | 47.725903   | 15.624754   | 0.0094                       |             |
| 2017-09-28 21:51:00 | Linz             | 48.267505   | 14.280038   | 0.0007                       |             |
| 2017-09-28 22:00:00 | Monaco           | 43.732600   | 7.424200    | 0.0018                       |             |
| 2017-09-28 23:00:00 | Lombardia        | 45.473056   | 9.222500    | 1.09                         | 0.3         |
| 2017-09-29 00:00:00 | Not Provided     | 47.820885   | 31.186263   | 3.90E-03                     |             |
| 2017-09-29 00:00:00 | Slovakia         | 48.148600   | 17.107700   | 15                           |             |
| 2017-09-29 00:00:00 | Bratislava       | 48.148570   | 17.130530   | 15                           |             |
| 2017-09-29 00:00:00 | Roskilde         | 55.690000   | 12.100000   | 0.0008                       |             |
| 2017-09-29 00:17:00 | Leopolschlag     | 48.618200   | 14.501800   | 0.0049                       |             |
| 2017-09-29 04:30:00 | Graz             | 47.075488   | 15.450536   | 0.009                        |             |
| 2017-09-29 05:15:00 | Laa A/D Thaya    | 48.731700   | 16.391700   | 0.0046                       |             |
| 2017-09-29 12:00:00 | Cernavoda        | 44.317696   | 28.052258   | 81.28                        |             |
| 2017-09-29 12:00:00 | Bucuresti        | 44.429895   | 26.102868   | 37.9                         |             |
| 2017-09-29 12:00:00 | Craiova          | 44.323632   | 23.791556   | 59.81                        |             |
| 2017-09-29 12:00:00 | Bechet           | 43.784082   | 23.959615   | 66.6                         |             |
| 2017-09-29 12:00:00 | Győr             | 47.687838   | 17.649064   | 14.3                         |             |
| 2017-09-29 12:00:00 | Narva-Joesuu     | 59.4625     | 28.46722222 | 0.01                         |             |
| 2017-09-29 12:00:00 | Ukraine          | 47.804651   | 31.259567   | 2.30E+01                     |             |
| 2017-09-29 12:00:00 | Ukraine          | 47.907871   | 31.31512    | 2.90E+01                     |             |

| Date Time           | Location Name    | Latitude  | Longitude | Ru-106<br>mBq/m <sup>3</sup> | Uncertainty |
|---------------------|------------------|-----------|-----------|------------------------------|-------------|
| 2017-09-29 12:00:00 | Ukraine          | 47.514744 | 34.594483 | 1.80E+01                     |             |
| 2017-09-29 12:00:00 | Ukraine          | 47.481350 | 34.57228  | 4.00E+01                     |             |
| 2017-09-29 12:00:00 | Riso             | 55.410000 | 12.050000 | 0                            |             |
| 2017-09-29 12:00:00 | Instanbul        | 41.005270 | 28.976960 | 0.017                        |             |
| 2017-09-29 17:35:00 | Retz             | 48.754863 | 15.950598 | 0.013                        |             |
| 2017-09-29 19:00:00 | Belgium          | 51.217100 | 5.090500  | 1.7                          |             |
| 2017-09-29 19:00:00 | České Budějovice | 48.967000 | 14.467000 | 1.9                          |             |
| 2017-09-29 19:43:00 | Hradec Králové   | 50.233000 | 15.870000 | 24.9                         |             |
| 2017-09-29 20:50:00 | Bregenz          | 47.504849 | 9.726419  | 1.70E-05                     |             |
| 2017-09-29 21:00:00 | Brno             | 49.200000 | 16.600000 | 21.1                         |             |
| 2017-09-29 21:00:00 | Plzeň            | 49.743007 | 13.374668 | 0.62                         |             |
| 2017-09-29 21:00:00 | Brno             | 49.200000 | 16.600000 | 21.1                         |             |
| 2017-09-30 00:00:00 | Slovenia         | 46.055800 | 14.508300 | 0.0015                       |             |
| 2017-09-30 00:00:00 | Ivrea            | 45.474167 | 7.874167  | 0.88                         |             |
| 2017-09-30 00:40:00 | Leopolschlag     | 48.618200 | 14.501800 | 0.0046                       |             |
| 2017-09-30 05:44:00 | Stockholm        | 59.390000 | 17.960000 | 3.40E-02                     |             |
| 2017-09-30 06:15:00 | Visby            | 57.610000 | 18.320000 | 5.16                         |             |
| 2017-09-30 07:24:00 | Laa A/D Thaya    | 48.731700 | 16.391700 | 0.0045                       |             |
| 2017-09-30 10:00:00 | Ústí Nad Labem   | 50.667000 | 14.033000 | 4.35                         |             |
| 2017-09-30 12:00:00 | Athens           | 37.983156 | 23.732872 | 4.07                         | 0.31        |
| 2017-09-30 12:00:00 | Cernavode        | 44.317696 | 28.052258 | 57.88                        |             |
| 2017-09-30 12:00:00 | Bucuresti        | 44.429895 | 26.102868 | 145                          |             |
| 2017-09-30 12:00:00 | Craiova          | 44.323632 | 23.791556 | 106.27                       |             |
| 2017-09-30 12:00:00 | Bechet           | 43.784082 | 23.959615 | 127.59                       |             |
| 2017-09-30 12:00:00 | Budapest *       | 47.501129 | 19.046467 | 33.76                        |             |
| 2017-09-30 12:00:00 | Bilthoven        | 52.136500 | 5.210400  | 0.0076                       |             |
| 2017-09-30 12:00:00 | Murmansk         | 68.964884 | 33.050067 | 0                            |             |
| 2017-09-30 12:00:00 | Arkhangelsu      | 64.552077 | 40.520266 | 0                            |             |
| 2017-09-30 12:00:00 | Ukraine          | 48.106339 | 31.283112 | 1.40E+01                     |             |
| 2017-09-30 12:00:00 | Ukraine          | 47.491910 | 34.63695  | 2.70E+01                     |             |
| 2017-09-30 12:00:00 | Ukraine          | 47.249982 | 35.710817 | 3.60E+01                     |             |
| 2017-09-30 12:00:00 | Perugia          | 43.081944 | 12.338056 | 0.91                         |             |
| 2017-09-30 12:00:00 | Udine            | 46.063333 | 13.235833 | 12.5                         |             |
| 2017-09-30 12:00:00 | Milano           | 45.473056 | 9.222500  | 2.49                         |             |
| 2017-09-30 12:00:00 | Verona           | 45.426667 | 10.991944 | 5.58                         |             |
| 2017-09-30 12:00:00 | Belluno          | 46.165278 | 12.246111 | 2.62                         |             |
| 2017-09-30 12:00:00 | Vicenza          | 45.545833 | 11.561667 | 8.4                          |             |
| 2017-09-30 12:00:00 | Udine            | 46.063333 | 13.235833 | 12.5                         |             |
| 2017-09-30 12:00:00 | Genova           | 44.405444 | 8.864593  | 0.5                          |             |
| 2017-09-30 12:00:00 | Bergamo          | 45.686667 | 9.679444  | 3.8                          |             |
| 2017-09-30 12:00:00 | Milano           | 45.473056 | 9.222500  | 2.49                         |             |
| 2017-09-30 12:00:00 | Trino            | 45.311944 | 8.296111  | 1.14                         |             |
| 2017-09-30 12:00:00 | Verona           | 45.426667 | 10.991944 | 5.58                         |             |

| Date Time           | Location Name               | Latitude  | Longitude | Ru-106<br>mBq/m <sup>3</sup> | Uncertainty |
|---------------------|-----------------------------|-----------|-----------|------------------------------|-------------|
| 2017-09-30 12:00:00 | Belluno                     | 46.165278 | 12.246111 | 2.62                         |             |
| 2017-09-30 12:00:00 | Vicenza                     | 45.545833 | 11.561667 | 8.4                          |             |
| 2017-09-30 12:00:00 | Haderslev                   | 55.230000 | 9.500000  | 0                            |             |
| 2017-09-30 13:00:00 | Friuli                      | 46.063333 | 13.235833 | 12.5                         | 3           |
| 2017-09-30 19:00:00 | Belgium                     | 51.217100 | 5.090500  | 1.4                          |             |
| 2017-09-30 20:42:00 | Stockholm                   | 59.390000 | 17.960000 | 0.032                        |             |
| 2017-09-30 23:00:00 | Umbria                      | 43.081944 | 12.338056 | 0.91                         | 0.2         |
| 2017-09-30 23:40:00 | Praha                       | 50.067000 | 14.450000 | 13.1                         |             |
| 2017-10-01 00:00:00 | Helsinki                    | 60.179770 | 24.993896 | 0.077                        |             |
| 2017-10-01 00:00:00 | Paks                        | 46.606324 | 18.857377 | 49.4                         |             |
| 2017-10-01 00:00:00 | Sola                        | 58.880000 | 5.640000  | 0.002                        |             |
| 2017-10-01 00:00:00 | Ekaterinburg                | 56.835368 | 60.575253 | 0                            |             |
| 2017-10-01 00:00:00 | Kyiv                        | 50.450100 | 30.523400 | 2.2                          |             |
| 2017-10-01 00:00:00 | Chernobyl                   | 51.276300 | 30.221900 | 2.5                          |             |
| 2017-10-01 00:00:00 | Baryshevka (Kyiv<br>Region) | 50.350700 | 31.318900 | 13.9                         |             |
| 2017-10-01 00:00:00 | Rivno NPP                   | 51.329400 | 25.893900 | 1.24                         |             |
| 2017-10-01 00:00:00 | Zaporizhzhya NPP            | 47.506700 | 34.585100 | 40                           |             |
| 2017-10-01 00:00:00 | Khmelnitsky NPP             | 50.302500 | 26.652200 | 1.4                          |             |
| 2017-10-01 00:00:00 | South-Ukraine Npp           | 47.816670 | 31.216670 | 29                           |             |
| 2017-10-01 00:00:00 | Firenze                     | 43.777222 | 11.248611 | 0.5                          |             |
| 2017-10-01 00:58:00 | Leopolschlag                | 48.618200 | 14.501800 | 0.0045                       |             |
| 2017-10-01 08:20:00 | Laa A/D Thaya               | 48.731700 | 16.391700 | 0.038                        |             |
| 2017-10-01 10:14:00 | Stockholm                   | 59.390000 | 17.960000 | 6.56                         |             |
| 2017-10-01 12:00:00 | Lombardia                   | 45.473056 | 9.222500  | 2.49                         | 0.4         |
| 2017-10-01 12:00:00 | Veneto                      | 45.426667 | 10.991944 | 7.07                         | 3           |
| 2017-10-01 12:00:00 | Veneto                      | 46.134444 | 12.221667 | 2.97                         | 1           |
| 2017-10-01 12:00:00 | Baia Mare                   | 47.652219 | 23.618243 | 47.47                        |             |
| 2017-10-01 12:00:00 | Arad                        | 46.186114 | 21.311849 | 64.42                        |             |
| 2017-10-01 12:00:00 | Bucuresti                   | 44.429895 | 26.102868 | 18.1                         |             |
| 2017-10-01 12:00:00 | Craiova                     | 44.323632 | 23.791556 | 23.8                         |             |
| 2017-10-01 12:00:00 | Bechet                      | 43.784082 | 23.959615 | 18.1                         |             |
| 2017-10-01 12:00:00 | Luxembourg                  | 49.595459 | 6.127692  | 0                            |             |
| 2017-10-01 12:00:00 | Kurchatov City              | 51.665182 | 35.648679 | 0                            |             |
| 2017-10-01 12:00:00 | Ukraine                     | 47.603631 | 31.20605  | 2.40E+01                     |             |
| 2017-10-01 12:00:00 | Ukraine                     | 47.819680 | 31.223832 | 2.40E+01                     |             |
| 2017-10-01 12:00:00 | Ukraine                     | 47.803507 | 30.888264 | 2.40E+01                     |             |
| 2017-10-01 12:00:00 | Ukraine                     | 47.522090 | 34.655161 | 3.00E+01                     |             |
| 2017-10-01 12:00:00 | Ukraine                     | 47.481892 | 34.504167 | 2.70E+01                     |             |
| 2017-10-01 18:24:00 | Gavle                       | 60.670000 | 17.190000 | 3.78                         |             |
| 2017-10-01 18:30:00 | Ljungbyhed                  | 56.080000 | 13.220000 | 0.86                         |             |
| 2017-10-01 19:00:00 | Belgium                     | 51.217100 | 5.090500  | 1.2                          |             |
| 2017-10-01 20:42:00 | Stockholm                   | 59.390000 | 17.960000 | 17                           |             |

| Date Time           | Location Name     | Latitude  | Longitude | Ru-106<br>mBq/m <sup>3</sup> | Uncertainty |
|---------------------|-------------------|-----------|-----------|------------------------------|-------------|
| 2017-10-01 23:40:00 | Praha             | 50.067000 | 14.450000 | 15                           |             |
| 2017-10-02 00:00:00 | Slovenia          | 46.0558   | 14.508300 | 0.0031                       |             |
| 2017-10-02 00:00:00 | Switzerland       | 46.150000 | 8.950000  | 5.03E-02                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.499780 | 34.570490 | 2.30E-02                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.514744 | 34.594483 | 1.80E-02                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.481350 | 34.572280 | 4.00E-02                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.491910 | 34.636950 | 2.70E-02                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.249982 | 35.710817 | 3.60E-02                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.522090 | 34.655161 | 3.00E-02                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.481892 | 34.504167 | 2.70E-02                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.556679 | 34.401924 | 1.50E-02                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.480731 | 34.756507 | 1.30E-03                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.486322 | 34.416862 | 3.00E-02                     |             |
| 2017-10-02 00:00:00 | Not Provided      | 47.434942 | 34.382228 | 3.60E-02                     |             |
| 2017-10-02 00:00:00 | Miskolc           | 48.103745 | 20.774618 | 14.6                         |             |
| 2017-10-02 00:00:00 | Milano            | 45.473056 | 9.222500  | 6.3                          |             |
| 2017-10-02 00:00:00 | Milano            | 45.473056 | 9.222500  | 6.3                          |             |
| 2017-10-02 00:00:00 | Vercelli          | 45.310000 | 8.407778  | 1.25                         |             |
| 2017-10-02 00:00:00 | Lefkoisa - Cyprus | 35.183161 | 33.381377 | 0.0461                       |             |
| 2017-10-02 02:46:00 | Leopolschlag      | 48.618200 | 14.501800 | 0.0042                       |             |
| 2017-10-02 03:25:00 | Laa A/D Thaya     | 48.731700 | 16.391700 | 0.04                         |             |
| 2017-10-02 09:00:00 | Wien 23           | 48.256525 | 16.482973 | 0.008                        |             |
| 2017-10-02 09:16:00 | Wien 24           | 48.256525 | 16.482973 | 0.046                        |             |
| 2017-10-02 10:00:00 | Serbia            | 44.766790 | 20.600000 | 0.04                         |             |
| 2017-10-02 12:00:00 | Lombardia         | 45.686667 | 9.679444  | 12.2                         | 2.2         |
| 2017-10-02 12:00:00 | Umbria            | 43.081944 | 12.338056 | 6.2                          | 1.3         |
| 2017-10-02 12:00:00 | Friuli            | 46.063333 | 13.235833 | 49.1                         | 12          |
| 2017-10-02 12:00:00 | Friuli            | 46.063333 | 13.235833 | 30                           | 9           |
| 2017-10-02 12:00:00 | Lombardia         | 45.473056 | 9.222500  | 6.3                          | 1.6         |
| 2017-10-02 12:00:00 | Lombardia         | 45.473056 | 9.222500  | 3.6                          | 1.2         |
| 2017-10-02 12:00:00 | Veneto            | 45.426667 | 10.991944 | 5.58                         | 0.9         |
| 2017-10-02 12:00:00 | Veneto            | 46.165278 | 12.246111 | 2.62                         | 0.6         |
| 2017-10-02 12:00:00 | Veneto            | 45.545833 | 11.561667 | 8.4                          | 1.5         |
| 2017-10-02 12:00:00 | Baia Mare         | 47.652219 | 23.618243 | 38.12                        |             |
| 2017-10-02 12:00:00 | Arad              | 46.186114 | 21.311849 | 30.41                        |             |
| 2017-10-02 12:00:00 | Kozloduy          | 43.746110 | 23.770560 | 58.9                         |             |
| 2017-10-02 12:00:00 | Budapest *        | 47.501129 | 19.046467 | 27.58                        |             |
| 2017-10-02 12:00:00 | Osteras           | 59.940000 | 10.600000 | 0.033                        |             |
| 2017-10-02 12:00:00 | Orland            | 63.690000 | 9.610000  | 0.213                        |             |
| 2017-10-02 12:00:00 | Doldoprundy       | 55.949122 | 37.485696 | 0                            |             |
| 2017-10-02 12:00:00 | Ukraine           | 47.768059 | 31.311445 | 1.70E+01                     |             |
| 2017-10-02 12:00:00 | Ukraine           | 47.556679 | 34.401924 | 1.50E+01                     |             |

| Date Time           | Location Name | Latitude  | Longitude | Ru-106<br>mBq/m <sup>3</sup> | Uncertainty |
|---------------------|---------------|-----------|-----------|------------------------------|-------------|
| 2017-10-02 12:00:00 | Ukraine       | 47.480731 | 34.756507 | 1.30E+00                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.438100 | 25.8161   | 1.02E+00                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.310600 | 26.0929   | 1.05E+00                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.322800 | 25.9179   | 9.14E-01                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.375500 | 26.0282   | 1.20E+00                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.258100 | 26.0643   | 1.14E+00                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.341800 | 25.9675   | 1.26E+00                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.411900 | 25.8908   | 9.53E-01                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.336300 | 25.8548   | 1.23E+00                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.325100 | 25.8897   | 1.19E+00                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.317600 | 25.8768   | 1.13E+00                     |             |
| 2017-10-02 12:00:00 | Ukraine       | 51.360000 | 25.9199   | 1.39E+00                     |             |
| 2017-10-02 12:00:00 | Bergamo       | 45.686667 | 9.679444  | 12.2                         |             |
| 2017-10-02 12:00:00 | Perugia       | 43.081944 | 12.338056 | 6.2                          |             |
| 2017-10-02 12:00:00 | Udine         | 46.063333 | 13.235833 | 49.1                         |             |
| 2017-10-02 12:00:00 | Milano        | 45.473056 | 9.222500  | 3.6                          |             |
| 2017-10-02 12:00:00 | Verona        | 45.426667 | 10.991944 | 19.1                         |             |
| 2017-10-02 12:00:00 | Belluno       | 46.165278 | 12.246111 | 18.6                         |             |
| 2017-10-02 12:00:00 | Vicenza       | 45.545833 | 11.561667 | 25.2                         |             |
| 2017-10-02 12:00:00 | Udine         | 46.063333 | 13.235833 | 49.1                         |             |
| 2017-10-02 12:00:00 | Bergamo       | 45.686667 | 9.679444  | 12.2                         |             |
| 2017-10-02 12:00:00 | Milano        | 45.473056 | 9.222500  | 3.6                          |             |
| 2017-10-02 12:00:00 | Firenze       | 43.777222 | 11.248611 | 1.4                          |             |
| 2017-10-02 12:00:00 | Perugia       | 43.081944 | 12.338056 | 6.2                          |             |
| 2017-10-02 12:00:00 | Verona        | 45.426667 | 10.991944 | 19.1                         |             |
| 2017-10-02 12:00:00 | Belluno       | 46.165278 | 12.246111 | 18.6                         |             |
| 2017-10-02 12:00:00 | Vicenza       | 45.545833 | 11.561667 | 25.2                         |             |
| 2017-10-02 13:44:00 | Stockholm     | 59.390000 | 17.960000 | 14.75                        |             |
| 2017-10-02 18:28:00 | Praha         | 50.067000 | 14.450000 | 1.6                          |             |
| 2017-10-02 18:32:30 | Praha         | 50.067000 | 14.450000 | 1.4                          |             |
| 2017-10-02 19:00:00 | Belgium       | 51.217100 | 5.090500  | 0.5                          |             |
| 2017-10-02 19:30:00 | Ostrava       | 49.833000 | 18.283000 | 40                           |             |
| 2017-10-02 20:42:00 | Stockholm     | 59.390000 | 17.960000 | 9.8                          |             |
| 2017-10-02 22:13:00 | Linz          | 48.267505 | 14.280038 | 0.008                        |             |
| 2017-10-02 22:30:00 | Ostrava       | 49.833000 | 18.283000 | 40                           |             |
| 2017-10-03 00:00:00 | Switzerland   | 46.150000 | 8.950000  | 1.915                        |             |
| 2017-10-03 00:00:00 | Görlitz       | 51.162340 | 14.950270 | 4.57                         |             |
| 2017-10-03 00:00:00 | Not Provided  | 47.804651 | 31.259567 | 2.30E-02                     |             |
| 2017-10-03 00:00:00 | Not Provided  | 47.907871 | 31.315120 | 2.90E-02                     |             |
| 2017-10-03 00:00:00 | Not Provided  | 48.106339 | 31.283112 | 1.40E-02                     |             |
| 2017-10-03 00:00:00 | Bergamo       | 45.686667 | 9.679444  | 6.9                          |             |
| 2017-10-03 00:00:00 | Udine         | 46.063333 | 13.235833 | 54.3                         |             |
| 2017-10-03 00:00:00 | Udine         | 46.063333 | 13.235833 | 54.3                         |             |

| Date Time           | Location Name    | Latitude  | Longitude | Ru-106<br>mBq/m <sup>3</sup> | Uncertainty |
|---------------------|------------------|-----------|-----------|------------------------------|-------------|
| 2017-10-03 00:00:00 | Bergamo          | 45.686667 | 9.679444  | 6.9                          |             |
| 2017-10-03 01:45:00 | Laa A/D Thaya    | 48.731700 | 16.391700 | 0.023                        |             |
| 2017-10-03 02:00:00 | Praha            | 50.067000 | 14.450000 | 1.1                          |             |
| 2017-10-03 02:17:30 | Praha            | 50.067000 | 14.450000 | 0.96                         |             |
| 2017-10-03 07:05:00 | Innsbruck        | 47.259963 | 11.356563 | 0.0003                       |             |
| 2017-10-03 10:00:00 | Serbia           | 44.766790 | 20.600000 | 0.018                        |             |
| 2017-10-03 10:20:00 | Hradec Králové   | 50.233000 | 15.870000 | 4.19                         |             |
| 2017-10-03 10:20:00 | Hradec Králové   | 50.233000 | 15.870000 | 4.19                         |             |
| 2017-10-03 11:35:00 | Praha            | 50.067000 | 14.450000 | 0.04                         |             |
| 2017-10-03 11:40:00 | Praha            | 50.067000 | 14.450000 | 0.04                         |             |
| 2017-10-03 12:00:00 | Lombardia        | 45.686667 | 9.679444  | 6.9                          | 1.3         |
| 2017-10-03 12:00:00 | Friuli           | 46.063333 | 13.235833 | 54.3                         | 20          |
| 2017-10-03 12:00:00 | Veneto           | 45.426667 | 10.991944 | 19.1                         | 4.2         |
| 2017-10-03 12:00:00 | Veneto           | 46.165278 | 12.246111 | 18.6                         | 3.8         |
| 2017-10-03 12:00:00 | Veneto           | 45.545833 | 11.561667 | 25.2                         | 1.8         |
| 2017-10-03 12:00:00 | Veneto           | 45.545833 | 11.561667 | 23                           | 3.1         |
| 2017-10-03 12:00:00 | Helsinki         | 60.179770 | 24.993896 | 0.849                        |             |
| 2017-10-03 12:00:00 | Ivalo            | 68.652556 | 27.465820 | 0.156                        |             |
| 2017-10-03 12:00:00 | Kupio            | 62.855146 | 27.443848 | 0.219                        |             |
| 2017-10-03 12:00:00 | Baia Mare        | 47.652219 | 23.618243 | 24.6                         |             |
| 2017-10-03 12:00:00 | Budapest *       | 47.501129 | 19.046467 | 9.9                          |             |
| 2017-10-03 12:00:00 | Osteras          | 59.940000 | 10.600000 | 0.003                        |             |
| 2017-10-03 12:00:00 | Udine            | 46.063333 | 13.235833 | 30                           |             |
| 2017-10-03 12:00:00 | Milano           | 45.473056 | 9.222500  | 3.5                          |             |
| 2017-10-03 12:00:00 | Verona           | 45.426667 | 10.991944 | 17.4                         |             |
| 2017-10-03 12:00:00 | Belluno          | 46.165278 | 12.246111 | 9.3                          |             |
| 2017-10-03 12:00:00 | Vicenza          | 45.545833 | 11.561667 | 23                           |             |
| 2017-10-03 12:00:00 | Udine            | 46.063333 | 13.235833 | 30                           |             |
| 2017-10-03 12:00:00 | Milano           | 45.473056 | 9.222500  | 3.5                          |             |
| 2017-10-03 12:00:00 | Firenze          | 43.777500 | 11.248889 | 0.2                          |             |
| 2017-10-03 12:00:00 | Perugia          | 43.082222 | 12.338333 | 0.13                         |             |
| 2017-10-03 12:00:00 | Verona           | 45.426667 | 10.991944 | 17.4                         |             |
| 2017-10-03 12:00:00 | Belluno          | 46.165278 | 12.246111 | 9.3                          |             |
| 2017-10-03 12:00:00 | Vicenza          | 45.545833 | 11.561667 | 23                           |             |
| 2017-10-03 12:00:00 | Dublin           | 53.309000 | -6.224700 | 0.00257                      |             |
| 2017-10-03 12:00:00 | Allinge          | 55.270000 | 14.800000 | 1.8                          |             |
| 2017-10-03 12:20:00 | České Budějovice | 48.967000 | 14.467000 | 0.1                          |             |
| 2017-10-03 12:20:00 | České Budějovice | 48.967000 | 14.467000 | 0.1                          |             |
| 2017-10-03 15:00:00 | Belarus          | 55.633333 | 27.033333 | 2.7                          |             |
| 2017-10-03 17:44:00 | Stockholm        | 59.390000 | 17.960000 | 2.50E-02                     |             |
| 2017-10-03 19:00:00 | Cheb             | 50.080000 | 12.400000 | 0.05                         |             |
| 2017-10-03 19:20:00 | Visby            | 57.610000 | 18.320000 | 3.98                         |             |



| Date Time           | Location Name            | Latitude  | Longitude | Ru-106<br>mBq/m <sup>3</sup> | Uncertainty |
|---------------------|--------------------------|-----------|-----------|------------------------------|-------------|
| 2017-10-03 20:42:00 | Stockholm                | 59.390000 | 17.960000 | 2.00E-03                     |             |
| 2017-10-03 21:00:00 | Graz                     | 47.075488 | 15.450536 | 0.036                        |             |
| 2017-10-03 21:15:00 | Wien 25                  | 48.256525 | 16.482973 | 0.011                        |             |
| 2017-10-03 21:55:00 | Linz                     | 48.267505 | 14.280038 | 0.0003                       |             |
| 2017-10-03 22:27:30 | Phe Glasgow <sup>1</sup> | 55.862472 | -4.345028 | 0                            |             |
| 2017-10-04 00:00:00 | Slovenia                 | 46.055800 | 14.508300 | 0.037                        |             |
| 2017-10-04 00:00:00 | Lombardia                | 45.473056 | 9.222500  | 3.5                          | 1.2         |
| 2017-10-04 00:00:00 | Switzerland              | 46.150000 | 8.950000  | 0.3182                       |             |
| 2017-10-04 00:00:00 | Not Provided             | 47.603631 | 31.206050 | 2.40E-02                     |             |
| 2017-10-04 00:00:00 | Not Provided             | 47.768059 | 31.311445 | 1.70E-02                     |             |
| 2017-10-04 00:00:00 | Bilthoven                | 52.136500 | 5.210400  | 0.0241                       |             |
| 2017-10-04 00:00:00 | St. Petersburg           | 59.939855 | 30.341510 | 0.1154                       |             |
| 2017-10-04 00:00:00 | Obninsk                  | 55.117392 | 36.594635 | 0                            |             |
| 2017-10-04 00:00:00 | Udine                    | 46.063333 | 13.235833 | 4.2                          |             |
| 2017-10-04 00:00:00 | Udine                    | 46.063333 | 13.235833 | 4.2                          |             |
| 2017-10-04 00:02:00 | Praha                    | 50.067000 | 14.450000 | 0.1                          |             |
| 2017-10-04 00:02:30 | Praha                    | 50.067000 | 14.450000 | 0.1                          |             |
| 2017-10-04 01:50:00 | Hradec Králové           | 50.233000 | 15.870000 | 0.3                          |             |
| 2017-10-04 02:00:00 | Hradec Králové           | 50.233000 | 15.870000 | 0.3                          |             |
| 2017-10-04 03:00:00 | Ostrava                  | 49.833000 | 18.283000 | 1.1                          |             |
| 2017-10-04 03:00:00 | Ostrava                  | 49.821429 | 18.262106 | 1.1                          |             |
| 2017-10-04 03:50:00 | Brno                     | 49.200000 | 16.600000 | 0.84                         |             |
| 2017-10-04 04:30:00 | České Budějovice         | 48.967000 | 14.467000 | 0.1                          |             |
| 2017-10-04 04:30:00 | České Budějovice         | 48.967000 | 14.467000 | 0.1                          |             |
| 2017-10-04 07:00:00 | Sevilla                  | 37.360000 | -5.980000 | 0                            |             |
| 2017-10-04 07:00:00 | Barcelona                | 41.380000 | 2.110000  | 0                            |             |
| 2017-10-04 07:00:00 | Madris                   | 40.450000 | -3.720000 | 0                            |             |
| 2017-10-04 08:40:00 | Umea                     | 63.850000 | 20.340000 | 6.00E-01                     |             |
| 2017-10-04 10:00:00 | Serbia                   | 44.766790 | 20.600000 | 0.005                        |             |
| 2017-10-04 12:00:00 | Friuli                   | 46.063333 | 13.235833 | 4.2                          | 1.5         |
| 2017-10-04 12:00:00 | Veneto                   | 45.426667 | 10.991944 | 17.4                         | 5.1         |
| 2017-10-04 12:00:00 | Veneto                   | 46.165278 | 12.246111 | 9.3                          | 2.2         |
| 2017-10-04 12:00:00 | Veneto                   | 45.545833 | 11.561667 | 6                            | 1.9         |
| 2017-10-04 12:00:00 | Athens                   | 37.983156 | 23.732872 | 2.85                         | 0.18        |
| 2017-10-04 12:00:00 | Budapest *               | 47.501129 | 19.046467 | 2.08                         |             |
| 2017-10-04 12:00:00 | Sola                     | 58.880000 | 5.640000  | 0.013                        |             |
| 2017-10-04 12:00:00 | Milano                   | 45.473056 | 9.222500  | 3.09                         |             |
| 2017-10-04 12:00:00 | Verona                   | 45.426667 | 10.991944 | 7.07                         |             |
| 2017-10-04 12:00:00 | Belluno                  | 46.134444 | 12.221667 | 2.97                         |             |
| 2017-10-04 12:00:00 | Vicenza                  | 45.545833 | 11.561667 | 6                            |             |

<sup>1</sup> Please note the original publication of this document stated the measurement was actually the limit of detection for the site (2.12E-02). This measurement has been corrected to be 0 in the current version of this publication.

| Date Time           | Location Name  | Latitude  | Longitude | Ru-106<br>mBq/m <sup>3</sup> | Uncertainty |
|---------------------|----------------|-----------|-----------|------------------------------|-------------|
| 2017-10-04 12:00:00 | Udine          | 46.063333 | 13.235833 | 5.2                          |             |
| 2017-10-04 12:00:00 | Milano         | 45.473056 | 9.222500  | 3.09                         |             |
| 2017-10-04 12:00:00 | Firenze        | 43.777778 | 11.249167 | 0.3                          |             |
| 2017-10-04 12:00:00 | Verona         | 45.426667 | 10.991944 | 7.07                         |             |
| 2017-10-04 12:00:00 | Belluno        | 46.134444 | 12.221667 | 2.97                         |             |
| 2017-10-04 12:00:00 | Vicenza        | 45.426667 | 10.991944 | 6                            |             |
| 2017-10-04 12:00:00 | Zagreb         | 45.815000 | 15.981900 | 13.3                         |             |
| 2017-10-04 12:00:00 | Utena SW       | 55.505900 | 25.608900 | 1.21                         |             |
| 2017-10-04 12:00:00 | Harku          | 59.396944 | 59.396944 | 0.18                         |             |
| 2017-10-04 13:00:00 | Praha          | 50.067000 | 14.450000 | 0.05                         |             |
| 2017-10-04 18:54:00 | Innsbruck      | 47.259963 | 11.356563 | 0.001                        |             |
| 2017-10-04 19:30:00 | Graz           | 47.075488 | 15.450536 | 0.013                        |             |
| 2017-10-04 19:30:00 | Graz           | 47.075488 | 15.450536 | 0.001                        |             |
| 2017-10-04 20:00:00 | Praha          | 50.067000 | 14.450000 | 0.05                         |             |
| 2017-10-04 20:59:00 | Wien 26        | 48.256525 | 16.482973 | 0.0001                       |             |
| 2017-10-04 21:33:00 | Linz           | 48.267505 | 14.280038 | 0.0002                       |             |
| 2017-10-04 21:44:00 | Stockholm      | 59.390000 | 17.960000 | 4.40E-02                     |             |
| 2017-10-04 22:45:00 | Ostrava        | 49.833000 | 18.283000 | 0.15                         |             |
| 2017-10-04 22:45:00 | Ostrava        | 49.821429 | 18.262106 | 0.15                         |             |
| 2017-10-05 00:00:00 | Slovenia       | 46.055800 | 14.508300 | 0.004                        |             |
| 2017-10-05 00:00:00 | Lombardia      | 45.473056 | 9.222500  | 3.09                         | 1           |
| 2017-10-05 00:00:00 | Switzerland    | 46.150000 | 8.950000  | 0.4979                       |             |
| 2017-10-05 00:00:00 | Not Provided   | 47.819680 | 31.223832 | 2.40E-02                     |             |
| 2017-10-05 00:00:00 | Not Provided   | 47.803507 | 30.888264 | 2.40E-02                     |             |
| 2017-10-05 00:00:00 | Not Provided   | 51.336300 | 25.854800 | 1.23E-03                     |             |
| 2017-10-05 00:00:00 | Osteras        | 59.940000 | 10.600000 | 0.05                         |             |
| 2017-10-05 00:00:00 | Sarajevo       | 43.863890 | 18.417500 | 3.17                         | 0.38        |
| 2017-10-05 01:40:00 | Hradec Králové | 50.233000 | 15.870000 | 0.3                          |             |
| 2017-10-05 01:40:00 | Hradec Králové | 50.233000 | 15.870000 | 0.3                          |             |
| 2017-10-05 06:30:00 | Gavle          | 60.670000 | 17.190000 | 0.12                         |             |
| 2017-10-05 07:00:00 | Cacerec        | 39.480000 | -6.340000 | 0                            |             |
| 2017-10-05 10:00:00 | Serbia         | 44.766790 | 20.600000 | 0                            |             |
| 2017-10-05 10:30:00 | Ostrava        | 49.833000 | 18.283000 | 0.5                          |             |
| 2017-10-05 10:30:00 | Ostrava        | 49.821429 | 18.262106 | 0.5                          |             |
| 2017-10-05 12:00:00 | Bilthoven      | 52.136500 | 5.210400  | 0.0215                       |             |
| 2017-10-05 12:00:00 | Udine          | 46.063333 | 13.235833 | 3.3                          |             |
| 2017-10-05 12:00:00 | Milano         | 45.473333 | 9.222778  | 1.7                          |             |
| 2017-10-05 12:00:00 | Ivrea          | 45.474167 | 7.874167  | 1.17                         |             |
| 2017-10-05 12:00:00 | Verona         | 45.426944 | 10.992222 | 1.93                         |             |
| 2017-10-05 12:00:00 | Belluno        | 46.134444 | 12.221667 | 2.17                         |             |
| 2017-10-05 12:00:00 | Vicenza        | 45.426944 | 10.992222 | 3.1                          |             |
| 2017-10-05 17:40:00 | Praha          | 50.067000 | 14.450000 | 0.012                        |             |
| 2017-10-05 19:10:00 | Graz           | 47.075488 | 15.450536 | 0.001                        |             |

| Date Time           | Location Name            | Latitude  | Longitude | Ru-106<br>mBq/m <sup>3</sup> | Uncertainty |
|---------------------|--------------------------|-----------|-----------|------------------------------|-------------|
| 2017-10-05 19:22:30 | Praha                    | 50.071674 | 14.432633 | 0.012                        |             |
| 2017-10-05 19:33:00 | Innsbruck                | 47.259963 | 11.356563 | 0                            |             |
| 2017-10-05 20:53:00 | Wien 27                  | 48.256525 | 16.482973 | 0.0002                       |             |
| 2017-10-05 20:55:00 | Wien 22                  | 48.256525 | 16.482973 | 0.0132                       |             |
| 2017-10-05 21:35:00 | Linz                     | 48.267505 | 14.280038 | 0.0001                       |             |
| 2017-10-05 22:15:00 | Ostrava                  | 49.821429 | 18.262106 | 0.26                         |             |
| 2017-10-05 22:20:00 | Ostrava                  | 49.833000 | 18.283000 | 0.26                         |             |
| 2017-10-05 23:20:00 | Phe Chilton <sup>2</sup> | 51.574722 | -1.319056 | 0                            |             |
| 2017-10-06 00:00:00 | Not Provided             | 51.322800 | 25.917900 | 9.14E-04                     |             |
| 2017-10-06 00:00:00 | Not Provided             | 51.325100 | 25.889700 | 1.19E-03                     |             |
| 2017-10-06 00:00:00 | Not Provided             | 51.317600 | 25.876800 | 1.13E-03                     |             |
| 2017-10-06 00:00:00 | Roskilde                 | 55.690000 | 12.100000 | 0                            |             |
| 2017-10-06 12:00:00 | Udine                    | 46.063333 | 13.235833 | 1.1                          |             |
| 2017-10-06 12:00:00 | Narva-Joesuu             | 59.4625   | 28.467222 | 0.01                         |             |
| 2017-10-06 20:35:00 | Praha                    | 50.067000 | 14.450000 | 0.015                        |             |
| 2017-10-06 20:35:00 | Praha                    | 50.067000 | 14.450000 | 0.015                        |             |
| 2017-10-07 00:00:00 | Not Provided             | 51.438100 | 25.816100 | 1.02E-03                     |             |
| 2017-10-07 00:00:00 | Not Provided             | 51.310600 | 26.092900 | 1.05E-03                     |             |
| 2017-10-07 00:00:00 | Not Provided             | 51.258100 | 26.064300 | 1.14E-03                     |             |
| 2017-10-07 00:00:00 | Not Provided             | 51.411900 | 25.890800 | 9.53E-04                     |             |
| 2017-10-07 12:00:00 | Osteras                  | 59.940000 | 10.600000 | 0.067                        |             |
| 2017-10-07 12:00:00 | Milano                   | 45.473333 | 9.222778  | 0.62                         |             |
| 2017-10-07 12:00:00 | Ankara                   | 39.920770 | 32.854110 | 0.018                        |             |
| 2017-10-08 00:00:00 | Not Provided             | 51.375500 | 26.028200 | 1.20E-03                     |             |
| 2017-10-08 00:00:00 | Not Provided             | 51.341800 | 25.967500 | 1.26E-03                     |             |
| 2017-10-08 00:00:00 | Not Provided             | 51.360000 | 25.919900 | 1.39E-03                     |             |
| 2017-10-08 00:00:00 | Udine                    | 46.063333 | 13.235833 | 1.5                          |             |
| 2017-10-08 12:00:00 | Istanbul                 | 41.00527  | 28.97696  | 0.3                          |             |
| 2017-10-09 12:00:00 | France                   | 43.100000 | 5.883300  | 0.0074                       |             |
| 2017-10-09 12:00:00 | France                   | 43.703100 | 7.266100  | 0.0068                       |             |
| 2017-10-09 12:00:00 | Toravere                 | 58.264444 | 26.461667 | 0.21                         |             |

<sup>2</sup> Please note the original publication of this document stated the measurement was actually the limit of detection for the site (3.40E-02). This measurement has been corrected to be 0 in the current version of this publication.