

# Radioxenon concentration data collected at Japan Chemical Analysis Center (Chiba, Japan)

Data period:2025/4/1~2025/4/30

| Sample collection start time (JST) | Sample collection stop time (JST) | <sup>131m</sup> Xe concentration (mBq/m <sup>3</sup> ) | <sup>133</sup> Xe concentration (mBq/m <sup>3</sup> ) | <sup>133m</sup> Xe concentration (mBq/m <sup>3</sup> ) | <sup>135</sup> Xe concentration (mBq/m <sup>3</sup> ) | Xenon isotopic activity ratio           |                                       |  |
|------------------------------------|-----------------------------------|--|---|--|---|---|---------------------------------------|--|
|                                    |                                   |  |   |  |   | <sup>133m</sup> Xe / <sup>131m</sup> Xe | <sup>135</sup> Xe / <sup>133</sup> Xe | <sup>133m</sup> Xe / <sup>133</sup> Xe |
| 2025/03/31 23:59                   | 2025/04/01 11:59                  | < 0.18   | 0.39±0.06   | < 0.16   | < 0.70  | -                                       | -                                     | -                                      |
| 2025/04/01 11:59                   | 2025/04/01 23:59                  | < 0.18   | 0.62±0.06   | < 0.15   | < 0.70  | -                                       | -                                     | -                                      |
| 2025/04/01 23:59                   | 2025/04/02 11:59                  | < 0.18   | 0.61±0.06   | < 0.17   | < 0.64  | -                                       | -                                     | -                                      |
| 2025/04/02 11:59                   | 2025/04/02 23:59                  | < 0.19   | 0.59±0.06   | < 0.15   | < 0.69  | -                                       | -                                     | -                                      |
| 2025/04/02 23:59                   | 2025/04/03 11:59                  | < 0.18   | 0.46±0.06   | < 0.17   | < 0.62  | -                                       | -                                     | -                                      |
| 2025/04/03 11:59                   | 2025/04/03 23:59                  | < 0.16   | 0.36±0.05   | < 0.14   | < 0.62  | -                                       | -                                     | -                                      |
| 2025/04/03 23:59                   | 2025/04/04 11:59                  | < 0.17   | 0.40±0.06   | < 0.15   | < 0.71  | -                                       | -                                     | -                                      |
| 2025/04/04 11:59                   | 2025/04/04 23:59                  | < 0.20   | 0.91±0.07   | < 0.20   | < 0.68  | -                                       | -                                     | -                                      |
| 2025/04/04 23:59                   | 2025/04/05 11:59                  | < 0.37   | 3.93±0.15   | < 0.36   | < 0.62  | -                                       | -                                     | -                                      |
| 2025/04/05 11:59                   | 2025/04/05 23:59                  | < 0.25   | 1.54±0.10   | < 0.24   | < 0.71  | -                                       | -                                     | -                                      |
| 2025/04/05 23:59                   | 2025/04/06 12:00                  | < 0.22   | 1.01±0.09   | < 0.21   | < 0.71  | -                                       | -                                     | -                                      |
| 2025/04/06 12:00                   | 2025/04/07 00:00                  | < 0.18   | 0.43±0.06   | < 0.17   | < 0.69  | -                                       | -                                     | -                                      |
| 2025/04/07 00:00                   | 2025/04/07 12:00                  | < 0.15   | 0.40±0.06   | < 0.14   | < 0.69  | -                                       | -                                     | -                                      |
| 2025/04/07 12:00                   | 2025/04/08 00:00                  | < 0.17   | 0.55±0.06   | < 0.16   | < 0.61  | -                                       | -                                     | -                                      |
| 2025/04/08 00:00                   | 2025/04/08 12:00                  | < 0.67   | 13.43±0.23  | < 0.63   | < 0.68  | -                                       | -                                     | -                                      |
| 2025/04/08 12:00                   | 2025/04/09 00:00                  | < 0.36   | 4.08±0.15   | < 0.35   | < 0.61  | -                                       | -                                     | -                                      |
| 2025/04/09 00:00                   | 2025/04/09 12:00                  | < 0.56   | 9.14±0.22   | < 0.53   | < 0.72  | -                                       | -                                     | -                                      |
| 2025/04/09 12:00                   | 2025/04/10 00:00                  | < 0.54   | 9.66±0.22   | < 0.52   | < 0.71  | -                                       | -                                     | -                                      |
| 2025/04/10 00:00                   | 2025/04/10 12:00                  | 0.60±0.18  | 10.00±0.25  | < 0.54   | < 0.70  | -                                       | -                                     | -                                      |
| 2025/04/10 12:00                   | 2025/04/11 00:00                  | < 0.35   | 3.59±0.12   | < 0.33   | < 0.67  | -                                       | -                                     | -                                      |
| 2025/04/11 00:00                   | 2025/04/11 12:00                  | < 0.34   | 2.96±0.11   | < 0.33   | < 0.72  | -                                       | -                                     | -                                      |
| 2025/04/11 12:00                   | 2025/04/12 00:00                  | < 0.21   | 1.13±0.08   | < 0.21   | < 0.69  | -                                       | -                                     | -                                      |
| 2025/04/12 00:00                   | 2025/04/12 12:00                  | < 0.38   | 4.07±0.15   | < 0.36   | < 0.70  | -                                       | -                                     | -                                      |
| 2025/04/12 12:00                   | 2025/04/13 00:00                  | < 0.40   | 4.94±0.14   | < 0.38   | < 0.67  | -                                       | -                                     | -                                      |
| 2025/04/13 00:00                   | 2025/04/13 12:00                  | < 0.42   | 4.99±0.14   | < 0.39   | < 0.63  | -                                       | -                                     | -                                      |
| 2025/04/13 12:00                   | 2025/04/14 00:00                  | < 0.32   | 2.93±0.11   | < 0.31   | < 0.60  | -                                       | -                                     | -                                      |
| 2025/04/14 00:00                   | 2025/04/14 12:00                  | < 0.19   | 0.65±0.07   | < 0.18   | < 0.70  | -                                       | -                                     | -                                      |
| 2025/04/14 12:00                   | 2025/04/15 00:00                  | < 0.15   | 0.36±0.05   | < 0.14   | < 0.61  | -                                       | -                                     | -                                      |
| 2025/04/15 00:00                   | 2025/04/15 12:00                  | < 0.44   | 5.68±0.17   | < 0.41   | < 0.69  | -                                       | -                                     | -                                      |
| 2025/04/15 12:00                   | 2025/04/16 00:00                  | < 0.34   | 3.36±0.12   | < 0.32   | < 0.61  | -                                       | -                                     | -                                      |
| 2025/04/16 00:00                   | 2025/04/16 12:00                  | < 0.26   | 1.56±0.09   | < 0.24   | < 0.72  | -                                       | -                                     | -                                      |
| 2025/04/16 12:00                   | 2025/04/17 00:00                  | < 1.22   | 51.25±0.50  | < 1.19   | < 0.68  | -                                       | -                                     | -                                      |
| 2025/04/17 00:00                   | 2025/04/17 12:00                  | 1.30±0.39  | 52.29±0.51  | < 1.20   | < 0.68  | -                                       | -                                     | -                                      |
| 2025/04/17 12:00                   | 2025/04/18 00:00                  | < 0.71   | 16.93±0.25  | < 0.69   | < 0.58  | -                                       | -                                     | -                                      |
| 2025/04/18 00:00                   | 2025/04/18 12:00                  | < 0.53   | 8.10±0.18   | < 0.50   | < 0.69  | -                                       | -                                     | -                                      |
| 2025/04/18 12:00                   | 2025/04/19 00:00                  | < 0.29   | 2.53±0.10   | < 0.28   | < 0.67  | -                                       | -                                     | -                                      |
| 2025/04/19 00:00                   | 2025/04/19 12:00                  | < 0.29   | 2.21±0.13   | < 0.27   | < 0.61  | -                                       | -                                     | -                                      |
| 2025/04/19 12:00                   | 2025/04/20 00:00                  | < 0.27   | 2.20±0.10   | < 0.27   | < 0.58  | -                                       | -                                     | -                                      |
| 2025/04/20 00:00                   | 2025/04/20 12:00                  | < 0.23   | 1.07±0.08   | < 0.22   | < 0.62  | -                                       | -                                     | -                                      |
| 2025/04/20 12:00                   | 2025/04/21 00:00                  | < 0.33   | 3.20±0.11   | < 0.31   | < 0.59  | -                                       | -                                     | -                                      |
| 2025/04/21 00:00                   | 2025/04/21 12:00                  | < 0.70   | 15.47±0.27  | < 0.66   | < 0.62  | -                                       | -                                     | -                                      |
| 2025/04/21 12:00                   | 2025/04/22 00:00                  | < 0.51   | 8.70±0.21   | < 0.50   | < 0.60  | -                                       | -                                     | -                                      |
| 2025/04/22 00:00                   | 2025/04/22 12:00                  | < 0.40   | 4.44±0.13   | < 0.38   | < 0.68  | -                                       | -                                     | -                                      |
| 2025/04/22 12:00                   | 2025/04/23 00:00                  | < 0.35   | 3.86±0.12   | < 0.34   | < 0.60  | -                                       | -                                     | -                                      |
| 2025/04/23 00:00                   | 2025/04/23 12:00                  | < 0.31   | 2.51±0.10   | < 0.30   | < 0.67  | -                                       | -                                     | -                                      |
| 2025/04/23 12:00                   | 2025/04/24 00:00                  | < 0.28   | 2.25±0.11   | < 0.27   | < 0.67  | -                                       | -                                     | -                                      |
| 2025/04/24 00:00                   | 2025/04/24 12:00                  | < 0.27   | 1.85±0.09   | < 0.25   | < 0.69  | -                                       | -                                     | -                                      |
| 2025/04/24 12:00                   | 2025/04/25 00:00                  | < 0.24   | 1.77±0.09   | < 0.23   | < 0.59  | -                                       | -                                     | -                                      |
| 2025/04/25 00:00                   | 2025/04/25 12:00                  | < 0.27   | 1.72±0.09   | < 0.25   | < 0.68  | -                                       | -                                     | -                                      |
| 2025/04/25 12:00                   | 2025/04/26 00:00                  | 0.63±0.19  | 12.75±0.28  | < 0.60   | < 0.66  | -                                       | -                                     | -                                      |
| 2025/04/26 00:00                   | 2025/04/26 12:00                  | 1.67±0.33  | 36.13±0.42  | < 0.99   | < 0.63  | -                                       | -                                     | -                                      |
| 2025/04/26 12:00                   | 2025/04/27 00:00                  | 0.66±0.20  | 14.54±0.27  | < 0.64   | < 0.59  | -                                       | -                                     | -                                      |
| 2025/04/27 00:00                   | 2025/04/27 12:00                  | 0.74±0.20  | 13.24±0.28  | < 0.62   | < 0.69  | -                                       | -                                     | -                                      |
| 2025/04/27 12:00                   | 2025/04/28 00:00                  | < 0.39   | 4.91±0.14   | < 0.38   | < 0.60  | -                                       | -                                     | -                                      |
| 2025/04/28 00:00                   | 2025/04/28 12:00                  | < 0.40   | 4.88±0.16   | < 0.37   | < 0.61  | -                                       | -                                     | -                                      |
| 2025/04/28 12:00                   | 2025/04/29 00:00                  | < 0.37   | 4.22±0.15   | < 0.36   | < 0.61  | -                                       | -                                     | -                                      |
| 2025/04/29 00:00                   | 2025/04/29 12:00                  | < 0.40   | 4.97±0.18   | < 0.39   | < 0.68  | -                                       | -                                     | -                                      |
| 2025/04/29 12:00                   | 2025/04/30 00:00                  | < 0.37   | 4.30±0.16   | < 0.36   | < 0.60  | -                                       | -                                     | -                                      |
| 2025/04/30 00:00                   | 2025/04/30 12:00                  | 0.47±0.14  | 5.57±0.17   | < 0.41   | < 0.63  | -                                       | -                                     | -                                      |

\*1 Radioxenon concentrations were expressed as radioactivity concentration ± combined standard uncertainty.

\*2 Radioxenon concentrations below the detection limit were reported as the detection limit. (e.g., "< 0.50" indicates a value less than 0.50 mBq/m<sup>3</sup>).

\*3 "-" indicates that calculation was not possible because the concentration of one or both xenon isotopes was below the detection limit.