Table 2. Hydrological and meteorological data and activity concentrations of $^{90}Sr$ and $^{137}Cs$ in the Input cross section during the ice jam event in January-February 1991.

| Date | Water level[a] m BS | | Discharge[b] $m^3 s^{-1}$ | Suspended sediment[b] $g L^{-1}$ | T[c] °C | Precipitation[c] mm | $^{137}Cs$ $pCi L^{-1}$ | | $^{90}Sr$ $pCi L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 1 Jan 91 | | 105.12 | 494 | 0.0097 | -0.6 | | 2.4 | 4.9 | 18.0 |
| 2 Jan 91 | | 105.15 | 493 | 0.0095 | 0.0 | 1.5 | 2.4 | 4.8 | 18.0 |
| 3 Jan 91 | | 105.15 | 493 | 0.0093 | -1.0 | 5.4 | 2.4 | 4.7 | 19.0 |
| 4 Jan 91 | | 105.15 | 492 | 0.0092 | 1.2 | | 2.4 | 4.6 | 19.0 |
| 5 Jan 91 | | 105.15 | 491 | 0.009 | 3.3 | 3.6 | 2.4 | 4.5 | 20.0 |
| 6 Jan 91 | | 105.23 | 490 | 0.0088 | 0.6 | 0.0 | 2.3 | 4.3 | 20.0 |
| 7 Jan 91 | | 105.30 | 489 | 0.0107 | 1.9 | | 2.3 | 4.2 | 19.2 |
| 8 Jan 91 | | 105.30 | 488 | 0.0125 | 2.4 | 0.4 | 2.3 | 4.1 | 18.4 |
| 9 Jan 91 | | 105.36 | 487 | 0.0144 | 1.8 | | 2.3 | 4.0 | 17.6 |
| 10 Jan 91 | | 105.44 | 487 | 0.0163 | 3.1 | | 2.3 | 4.0 | 17.7 |
| 11 Jan 91 | | 105.60 | 486 | 0.0182 | 8.1 | | 2.3 | 4.0 | 17.7 |
| 12 Jan 91 | | 105.75 | 486 | 0.0201 | 5.4 | 0.6 | 2.3 | 4.1 | 17.8 |
| 13 Jan 91 | | 105.65 | 486 | 0.0219 | 2.2 | | 2.3 | 4.1 | 17.8 |
| 14 Jan 91 | 105.96 | 105.68 | 486 | 0.0238 | -3.1 | 0.2 | 2.3 | 4.1 | 17.9 |
| 15 Jan 91 | 105.96 | 105.70 | 485 | 0.0257 | -3.4 | | 2.3 | 4.1 | 17.9 |
| 16 Jan 91 | 105.96 | 105.66 | 485 | 0.0276 | -6.5 | | 2.3 | 4.1 | 18.0 |
| 17 Jan 91 | 105.97 | 105.66 | 485 | 0.0295 | -2.6 | | 2.3 | 4.1 | 18.0 |
| 18 Jan 91 | 105.97 | 105.60 | 484 | 0.0313 | -3.9 | | 2.3 | 4.2 | 18.1 |
| 19 Jan 91 | 105.97 | 105.70 | 484 | 0.0332 | -4.5 | | 2.3 | 4.2 | 18.1 |
| 20 Jan 91 | 106.10 | 105.78 | 484 | 0.0351 | -5.1 | | 2.3 | 4.2 | 18.2 |
| 21 Jan 91 | 106.31 | 106.21 | 484 | 0.0370 | -6.4 | | 2.2 | 4.2 | 18.2 |
| 22 Jan 91 | 106.66 | 106.50 | 483 | 0.0389 | -4.4 | 0.5 | 2.2 | 4.2 | 18.3 |
| 23 Jan 91 | 106.95 | 106.49 | 483 | 0.0407 | -0.3 | | 2.2 | 4.3 | 18.3 |
| 24 Jan 91 | 106.98 | 106.42 | 483 | 0.0426 | 0.5 | 0.3 | 2.2 | 4.3 | 19.0 |
| 25 Jan 91 | 107.00 | 106.49 | 482 | 0.0445 | -1.3 | | 2.2 | 4.3 | 19.0 |

Table 2 (continued)

| Date | Water level[a] m BS | | Discharge[b] $m^3 s^{-1}$ | Suspended sediment[b] $g L^{-1}$ | T[c] °C | Precipitation[c] mm | $^{137}Cs$ pCi $L^{-1}$ | | $^{90}Sr$ pCi $L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 26 Jan 91 | 106.98 | 106.46 | 482 | 0.0464 | 1.9 | 0.4 | 2.2 | 4.3 | 21.0 |
| 27 Jan 91 | 106.95 | 106.42 | 482 | 0.0483 | -6.4 | | 2.2 | 4.3 | 23.0 |
| 28 Jan 91 | 106.80 | 106.35 | 481 | 0.0502 | -10.7 | | 2.2 | 4.3 | 25.0 |
| 29 Jan 91 | 106.61 | 106.15 | 481 | 0.0520 | -3.1 | 1.8 | 2.2 | 4.4 | 27.0 |
| 30 Jan 91 | 106.48 | 106.00 | 481 | 0.0539 | -13.2 | 1.5 | 2.2 | 4.4 | 20.0 |
| 31 Jan 91 | 106.37 | 105.85 | 481 | 0.0558 | -19.6 | | 2.2 | 4.4 | 14.2 |
| 1 Feb 91 | 106.21 | 105.75 | 480 | 0.0577 | -17.1 | | 1.8 | 3.7 | 14.0 |
| 2 Feb 91 | 106.19 | 105.68 | 480 | 0.0596 | -10.8 | 0.4 | 1.5 | 3.1 | 15.0 |
| 3 Feb 91 | 106.17 | 105.65 | 480 | 0.0614 | -11.2 | 0.5 | 1.1 | 2.4 | 16.0 |
| 4 Feb 91 | 106.15 | 105.60 | 465 | 0.0633 | -14.1 | 1.1 | 1.9 | 4.0 | 21.0 |
| 5 Feb 91 | 106.13 | 105.60 | 449 | 0.0652 | -15.7 | | 1.6 | 3.3 | 14.0 |
| 6 Feb 91 | 106.09 | 105.54 | 434 | 0.0671 | -13.9 | | 1.4 | 2.7 | 13.0 |
| 7 Feb 91 | 106.06 | 105.50 | 418 | 0.0690 | -11.7 | 0.4 | 1.1 | 2.0 | 11.0 |
| 8 Feb 91 | 106.05 | 105.50 | 403 | 0.0708 | -8.5 | 0.0 | 1.9 | 3.5 | 14.0 |
| 9 Feb 91 | 106.00 | 105.45 | 388 | 0.0727 | -9.8 | | 2.6 | 5.0 | 28.0 |
| 10 Feb 91 | 105.98 | 105.40 | 372 | 0.0746 | -8.4 | 3.5 | 2.1 | 5.4 | 15.0 |
| 11 Feb 91 | 105.96 | 105.40 | 357 | 0.0765 | -5.0 | 2.7 | 1.7 | 5.7 | 7.5 |
| 12 Feb 91 | 105.94 | 105.30 | 356 | 0.0784 | -2.4 | | 1.2 | 6.1 | 14.0 |
| 13 Feb 91 | 105.91 | 105.25 | 355 | 0.0802 | -1.0 | 2.7 | 1.5 | 6.3 | 16.4 |
| 14 Feb 91 | 105.92 | 105.25 | 354 | 0.0821 | -3.8 | 0.8 | 1.7 | 6.6 | 18.7 |
| 15 Feb 91 | 105.93 | 105.25 | 353 | 0.0840 | -6.6 | | 2.4 | 6.8 | 18.0 |
| 16 Feb 91 | 105.86 | 105.25 | 352 | 0.0859 | -5.9 | 10.2 | 3.0 | 7.0 | 17.0 |
| 17 Feb 91 | 105.84 | 105.25 | 351 | 0.0878 | -6.5 | 8.3 | 2.0 | 2.7 | 11.5 |
| 18 Feb 91 | 105.81 | 105.20 | 350 | 0.0896 | -3.2 | 1.9 | 2.1 | 2.7 | 11.4 |
| 19 Feb 91 | 105.80 | 105.20 | 349 | 0.0915 | -7.3 | 0.0 | 2.0 | 4.7 | 11.3 |

Table 2 (continued)

| Date | Water level[a] m BS | | Discharge[b] $m^3 s^{-1}$ | Suspended sediment[b] $g L^{-1}$ | T[c] °C | Precipitation[c] mm | $^{137}Cs$ pCi $L^{-1}$ | | $^{90}Sr$ pCi $L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 20 Feb 91 | 105.65 | 105.15 | 347 | 0.0934 | -5.3 | | 1.9 | 4.9 | 11.2 |
| 21 Feb 91 | 105.50 | 105.12 | 346 | 0.0953 | -5.3 | | 1.7 | 5.1 | 11.2 |
| 22 Feb 91 | 105.46 | 105.10 | 345 | 0.0972 | -1.5 | | 1.6 | 5.4 | 11.1 |
| 23 Feb 91 | 105.44 | 105.05 | 344 | 0.0991 | -3.8 | | 1.5 | 5.6 | 11.0 |
| 24 Feb 91 | 105.41 | 105.03 | 343 | 0.1009 | -3.8 | | 1.3 | 5.8 | 11.5 |
| 25 Feb 91 | 105.38 | 105.03 | 342 | 0.1028 | 2.5 | | 1.2 | 6.0 | 12.0 |
| 26 Feb 91 | 105.39 | 105.02 | 341 | 0.1047 | 2.1 | 1.2 | 1.1 | 5.6 | 12.5 |
| 27 Feb 91 | 105.39 | 105.02 | 340 | 0.1066 | 0.6 | 0.9 | 1.0 | 5.2 | 13.0 |
| 28 Feb 91 | 105.40 | 105.02 | 346 | 0.1085 | -0.3 | 3.1 | 1.1 | 5.6 | 11.0 |

[a] Water levels were measured at the gauge stations D3 and BNS, located upstream and downstream, respectively, of the Output cross section (Fig. 1).

[b] Water discharges and suspended sediment load are given for the Output cross section.

[c] Temperature and precipitation were registered at the Chernobyl meteostation.

Table 3. Hydrological and meteorological data and activity concentrations of $^{90}Sr$ and $^{137}Cs$ in the Input cross section in January-April 1994.

| Date | Water level[a] m BS | | Discharge[b] $m^3\ s^{-1}$ | Suspended sediment[b] $g\ L^{-1}$ | T[c] deg. C | Precipitation[c] mm | $^{137}Cs$ $pCi\ L^{-1}$ | | $^{90}Sr$ $pCi\ L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 1 Jan 94 | 104.50 | 104.05 | 370 | 0.0609 | 0.6 | | 0.6 | 3.9 | 4.1 |
| 2 Jan 94 | 104.51 | 104.05 | 380 | 0.0619 | 1.1 | | 0.6 | 4.0 | 4.1 |
| 3 Jan 94 | 104.53 | 104.08 | 391 | 0.0629 | -0.4 | 2.4 | 0.5 | 4.1 | 4.1 |
| 4 Jan 94 | 104.56 | 104.10 | 401 | 0.0638 | -0.3 | 0.6 | 0.5 | 4.2 | 4.1 |
| 5 Jan 94 | 104.57 | 104.10 | 411 | 0.0648 | 0.6 | 0.4 | 0.5 | 4.3 | 4.0 |
| 6 Jan 94 | 104.58 | 104.16 | 422 | 0.0658 | 2.3 | 4.6 | 0.5 | 4.4 | 4.0 |
| 7 Jan 94 | 104.59 | 104.15 | 432 | 0.0668 | 1.7 | | 0.4 | 4.5 | 4.0 |
| 8 Jan 94 | 104.60 | 104.14 | 440 | 0.0678 | -0.3 | | 0.4 | 4.6 | 4.0 |
| 9 Jan 94 | 104.60 | 104.14 | 457 | 0.0687 | -0.5 | | 0.4 | 4.7 | 4.2 |
| 10 Jan 94 | 104.61 | 104.17 | 475 | 0.0697 | -0.3 | | 0.4 | 4.8 | 4.4 |
| 11 Jan 94 | 104.62 | 104.12 | 488 | 0.0707 | 0.6 | | 0.4 | 4.9 | 4.6 |
| 12 Jan 94 | 104.57 | 104.16 | 500 | 0.0717 | -0.2 | | 0.4 | 5.0 | 4.8 |
| 13 Jan 94 | 104.57 | 104.16 | 513 | 0.0726 | 0.6 | 2.5 | 0.4 | 5.1 | 5.1 |
| 14 Jan 94 | 104.53 | 104.12 | 526 | 0.0736 | 4.0 | 4.7 | 0.4 | 5.2 | 5.3 |
| 15 Jan 94 | 104.65 | 104.20 | 538 | 0.0746 | 2.7 | 4.2 | 0.4 | 5.3 | 5.5 |
| 16 Jan 94 | 104.74 | 104.25 | 551 | 0.0756 | 0.9 | | 0.4 | 5.4 | 5.7 |
| 17 Jan 94 | 105.13 | 104.68 | 563 | 0.0766 | 0.2 | 0.3 | 0.4 | 5.5 | 5.9 |
| 18 Jan 94 | 105.16 | 104.70 | 576 | 0.0775 | -2.1 | 5.4 | 0.4 | 5.6 | 6.1 |
| 19 Jan 94 | 105.08 | 104.71 | 579 | 0.0785 | -3.1 | 2.8 | 0.5 | 5.4 | 6.0 |
| 20 Jan 94 | 105.20 | 104.75 | 582 | 0.0795 | -5.7 | | 0.6 | 5.2 | 5.9 |
| 21 Jan 94 | 105.24 | 104.85 | 585 | 0.0805 | -4.2 | | 0.7 | 5.1 | 5.8 |
| 22 Jan 94 | 105.26 | 105.00 | 587 | 0.0814 | 0.0 | | 0.8 | 4.9 | 5.7 |
| 23 Jan 94 | 105.29 | 105.07 | 590 | 0.0824 | 1.7 | | 0.9 | 4.7 | 5.6 |
| 24 Jan 94 | 105.43 | 105.15 | 593 | 0.0834 | 1.1 | 3.8 | 1.0 | 4.5 | 5.5 |
| 25 Jan 94 | 105.39 | 105.13 | 598 | 0.0844 | 0.4 | 0.6 | 1.1 | 4.4 | 5.4 |

Table 3 (continued)

| Date | Water level[a] m BS | | Discharge[b] $m^3\ s^{-1}$ | Suspended sediment[b] $g\ L^{-1}$ | T[c] deg. C | Precipitation[c] mm | $^{137}Cs$ pCi $L^{-1}$ | | $^{90}Sr$ pCi $L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 26 Jan 94 | 105.35 | 105.08 | 603 | 0.0854 | -1.3 | 0.8 | 1.1 | 4.2 | 5.3 |
| 27 Jan 94 | 105.38 | 105.08 | 607 | 0.0863 | 1.3 | 1.5 | 1.2 | 4.0 | 5.2 |
| 28 Jan 94 | 105.49 | 105.12 | 612 | 0.0873 | 2.8 | 3.4 | 1.3 | 3.8 | 5.1 |
| 29 Jan 94 | 105.51 | 105.12 | 617 | 0.0883 | 1.1 | | 1.4 | 3.6 | 5.0 |
| 30 Jan 94 | 105.50 | 105.09 | 615 | 0.0893 | -4.2 | 1.2 | 1.5 | 3.5 | 4.9 |
| 31 Jan 94 | 105.53 | 105.12 | 614 | 0.0902 | -2.0 | 3.9 | 1.6 | 3.3 | 4.8 |
| 1 Feb 94 | 105.59 | 105.29 | 612 | 0.0912 | -0.2 | 0.0 | 1.7 | 3.1 | 4.7 |
| 2 Feb 94 | 105.74 | 105.38 | 603 | 0.0922 | -0.7 | | 1.4 | 3.1 | 4.7 |
| 3 Feb 94 | 105.69 | 105.40 | 593 | 0.0932 | 0.2 | 3.1 | 1.3 | 2.9 | 4.7 |
| 4 Feb 94 | 105.70 | 105.39 | 584 | 0.0942 | 0.0 | 0.0 | 1.2 | 2.7 | 4.8 |
| 5 Feb 94 | 105.69 | 105.40 | 575 | 0.0951 | -5.7 | | 1.1 | 2.5 | 4.8 |
| 6 Feb 94 | 105.72 | 105.40 | 565 | 0.0961 | -10.2 | | 1.0 | 2.3 | 4.9 |
| 7 Feb 94 | 105.87 | 105.58 | 556 | 0.0971 | -6.7 | 7.8 | 0.9 | 2.1 | 4.9 |
| 8 Feb 94 | 106.08 | 105.75 | 549 | 0.0981 | -11.8 | | 0.8 | 1.9 | 5.0 |
| 9 Feb 94 | 106.59 | 106.30 | 542 | 0.0990 | -13.8 | | 0.7 | 1.7 | 5.0 |
| 10 Feb 94 | 107.08 | 106.65 | 530 | 0.1000 | -8.2 | 3.6 | 0.6 | 2.3 | 5.4 |
| 11 Feb 94 | 106.90 | 105.57 | 530 | 0.1010 | -8.4 | 0.5 | 0.6 | 2.9 | 5.8 |
| 12 Feb 94 | 106.83 | 106.53 | 525 | 0.1020 | -19.1 | | 1.4 | 3.0 | 5.1 |
| 13 Feb 94 | 106.56 | 106.30 | 521 | 0.1030 | -19.2 | | 2.1 | 3.1 | 4.4 |
| 14 Feb 94 | 106.43 | 105.95 | 518 | 0.1039 | -11.6 | 0.2 | 2.0 | 2.8 | 4.7 |
| 15 Feb 94 | 106.40 | 105.90 | 515 | 0.1049 | -12.8 | | 2.0 | 2.4 | 4.9 |
| 16 Feb 94 | 106.39 | 105.90 | 512 | 0.1059 | -12.3 | | 1.9 | 2.1 | 6.9 |
| 17 Feb 94 | 106.44 | 105.93 | 509 | 0.1069 | -7.0 | | 1.9 | 1.9 | 8.8 |
| 18 Feb 94 | 106.49 | 105.92 | 506 | 0.1078 | -7.8 | | 1.8 | 1.6 | 8.8 |
| 19 Feb 94 | 106.54 | 106.03 | 503 | 0.1088 | -2.8 | 0.7 | 1.8 | 1.4 | 8.8 |

Table 3 (continued)

| Date | Water level[a] m BS | | Discharge[b] $m^3\ s^{-1}$ | Suspended sediment[b] $g\ L^{-1}$ | T[c] deg. C | Precipitation[c] mm | $^{137}Cs$ pCi $L^{-1}$ | | $^{90}Sr$ pCi $L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 20 Feb 94 | 106.58 | 106.07 | 500 | 0.1098 | -4.5 | | 1.7 | 1.1 | 8.8 |
| 21 Feb 94 | 106.62 | 106.13 | 498 | 0.1108 | -4.1 | | 1.7 | 1.5 | 8.8 |
| 22 Feb 94 | 106.62 | 106.14 | 497 | 0.1118 | -4.2 | | 1.7 | 1.9 | 8.6 |
| 23 Feb 94 | 106.63 | 106.15 | 496 | 0.1127 | -3.7 | 0.8 | 1.8 | 2.3 | 8.6 |
| 24 Feb 94 | 106.63 | 106.16 | 495 | 0.1137 | -0.4 | 1.9 | 1.8 | 2.6 | 9.4 |
| 25 Feb 94 | 106.58 | 106.15 | 495 | 0.1147 | -0.1 | 2.3 | 1.8 | 3.0 | 10.2 |
| 26 Feb 94 | 106.55 | 106.13 | 495 | 0.1157 | -1.5 | 0.7 | 1.8 | 3.4 | 11.0 |
| 27 Feb 94 | 106.54 | 106.10 | 495 | 0.1166 | -5.2 | 0.0 | 1.9 | 3.7 | 10.6 |
| 28 Feb 94 | 106.53 | 106.08 | 495 | 0.1176 | -0.6 | | 2.1 | 4.0 | 10.3 |
| 1 Mar 94 | 106.45 | 106.02 | 496 | 0.1186 | 1.7 | | 2.2 | 4.3 | 9.9 |
| 2 Mar 94 | 106.42 | 106.00 | 497 | 0.1196 | -3.8 | 4.4 | 2.2 | 4.1 | 9.1 |
| 3 Mar 94 | 106.41 | 105.97 | 498 | 0.1206 | -3.7 | 13.0 | 2.3 | 4.0 | 8.3 |
| 4 Mar 94 | 106.38 | 105.93 | 499 | 0.1215 | -4.0 | 8.8 | 2.3 | 3.8 | 7.6 |
| 5 Mar 94 | 106.35 | 105.90 | 501 | 0.1225 | -5.2 | 1.5 | 2.4 | 3.7 | 6.8 |
| 6 Mar 94 | 106.31 | 105.85 | 502 | 0.1235 | -7.1 | | 2.4 | 3.5 | 6.0 |
| 7 Mar 94 | 106.23 | 105.85 | 505 | 0.1245 | -3.6 | | 2.5 | 3.4 | 5.7 |
| 8 Mar 94 | 106.27 | 105.83 | 507 | 0.1254 | 1.1 | | 2.5 | 3.2 | 5.4 |
| 9 Mar 94 | 106.26 | 105.83 | 515 | 0.1264 | 2.8 | | 2.6 | 3.1 | 5.1 |
| 10 Mar 94 | 106.27 | 105.80 | 524 | 0.1274 | 4.4 | | 2.6 | 2.9 | 4.7 |
| 11 Mar 94 | 106.24 | 105.81 | 532 | 0.1284 | 3.7 | 3.6 | 2.7 | 2.8 | 4.4 |
| 12 Mar 94 | 106.27 | 105.83 | 540 | 0.1294 | 1.2 | | 2.7 | 2.6 | 4.1 |
| 13 Mar 94 | 106.26 | 105.79 | 550 | 0.1303 | 1.1 | | 2.2 | 3.0 | 5.1 |
| 14 Mar 94 | 106.22 | 105.70 | 560 | 0.1313 | 1.1 | 12.0 | 1.7 | 3.4 | 6.0 |
| 15 Mar 94 | 106.20 | 105.75 | 570 | 0.1323 | 2.8 | 3.2 | 1.2 | 3.7 | 7.0 |
| 16 Mar 94 | 106.20. | 105.74 | 580 | 0.1333 | -0.2 | 5.6 | 0.7 | 4.1 | 7.9 |

Table 3 (continued)

| Date | Water level[a] m BS | | Discharge[b] $m^3\ s^{-1}$ | Suspended sediment[b] $g\ L^{-1}$ | T[c] deg. C | Precipitation[c] mm | $^{137}Cs$ pCi $L^{-1}$ | | $^{90}Sr$ pCi $L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 17 Mar 94 | 106.28 | 105.79 | 610 | 0.1342 | 1.1 | 2.6 | 0.7 | 5.0 | 10.7 |
| 18 Mar 94 | 106.38 | 105.85 | 640 | 0.1352 | 1.9 | 2.9 | 0.8 | 5.9 | 13.6 |
| 19 Mar 94 | 106.46 | 105.93 | 670 | 0.1362 | 2.3 | 3.1 | 0.8 | 6.8 | 16.4 |
| 20 Mar 94 | 106.50 | 106.02 | 700 | 0.1372 | 4.7 | 0.5 | 0.9 | 7.7 | 19.3 |
| 21 Mar 94 | 106.55 | 106.19 | 750 | 0.1382 | 2.0 | 0.3 | 0.9 | 8.6 | 22.1 |
| 22 Mar 94 | 106.39 | 106.08 | 790 | 0.1391 | -1.3 | | 1.0 | 9.6 | 25.0 |
| 23 Mar 94 | 106.28 | 105.96 | 860 | 0.1401 | 0.2 | 7.2 | 1.0 | 10.5 | 27.8 |
| 24 Mar 94 | 106.29 | 105.93 | 950 | 0.1391 | 5.5 | 0.0 | 1.0 | 11.4 | 30.6 |
| 25 Mar 94 | 106.36 | 106.00 | 1070 | 0.1381 | 4.8 | 3.1 | 1.1 | 12.3 | 33.5 |
| 26 Mar 94 | 106.50 | 106.12 | 1218 | 0.1371 | 6.4 | | 1.1 | 13.2 | 36.3 |
| 27 Mar 94 | 106.78 | 106.35 | 1365 | 0.1361 | 2.7 | | 1.2 | 14.1 | 39.2 |
| 28 Mar 94 | 106.99 | 106.55 | 1500 | 0.1351 | 0.0 | 1.0 | 1.2 | 15.0 | 42.0 |
| 29 Mar 94 | 107.14 | 106.65 | 1544 | 0.1341 | 0.0 | | 1.8 | 14.0 | 37.5 |
| 30 Mar 94 | 107.14 | 106.72 | 1660 | 0.1331 | 0.0 | 0.5 | 2.3 | 14.0 | 33.0 |
| 31 Mar 94 | 107.17 | 106.72 | 1638 | 0.1321 | 5.5 | 0.1 | 2.2 | 14.0 | 32.0 |
| 1 Apr 94 | 107.15 | 106.71 | 1660 | 0.1311 | 7.4 | 9.8 | 2.0 | 13.0 | 31.0 |
| 2 Apr 94 | 107.15 | 106.70 | 1650 | 0.1301 | 8.3 | 0.6 | 1.9 | 13.0 | 30.0 |
| 3 Apr 94 | 107.15 | 106.69 | 1630 | 0.1291 | 8.0 | | 1.5 | 10.3 | 24.6 |
| 4 Apr 94 | 107.12 | 106.66 | 1600 | 0.1281 | 7.4 | | 1.2 | 7.6 | 19.3 |
| 5 Apr 94 | 107.03 | 106.64 | 1580 | 0.1271 | 2.8 | | 0.8 | 4.9 | 13.9 |
| 6 Apr 94 | 107.06 | 106.60 | 1560 | 0.1261 | 8.3 | 0.6 | 0.4 | 2.2 | 8.5 |
| 7 Apr 94 | 107.03 | 106.59 | 1540 | 0.1251 | 7.5 | 0.3 | 0.4 | 4.7 | 10.9 |
| 8 Apr 94 | 107.02 | 106.56 | 1510 | 0.1241 | 10.6 | | 0.4 | 7.1 | 13.3 |
| 9 Apr 94 | 107.00 | 106.55 | 1490 | 0.1212 | 5.6 | | 0.5 | 9.6 | 15.6 |
| 10 Apr 94 | 106.95 | 106.50 | 1470 | 0.1183 | 6.7 | | 0.5 | 12.0 | 18.0 |

Table 3 (continued)

| Date | Water level[a] m BS | | Discharge[b] $m^3 s^{-1}$ | Suspended sediment[b] $g L^{-1}$ | T[c] deg. C | Precipitation[c] mm | $^{137}Cs$ pCi $L^{-1}$ | | $^{90}Sr$ pCi $L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 11 Apr 94 | 106.91 | 106.47 | 1440 | 0.1153 | 9.7 | | 1.0 | 10.2 | 18.0 |
| 12 Apr 94 | 106.88 | 106.43 | 1410 | 0.1124 | 11.4 | | 1.4 | 8.3 | 19.0 |
| 13 Apr 94 | 106.83 | 106.40 | 1380 | 0.1095 | 15.6 | | 1.9 | 6.5 | 20.0 |
| 14 Apr 94 | 106.80 | 106.36 | 1350 | 0.1066 | 14.3 | 9.4 | 1.9 | 5.2 | 20.0 |
| 15 Apr 94 | 106.77 | 106.32 | 1330 | 0.1036 | 12.3 | | 1.8 | 4.0 | 21.0 |
| 16 Apr 94 | 106.70 | 106.26 | 1300 | 0.1007 | 12.1 | | 1.8 | 2.7 | 21.0 |
| 17 Apr 94 | 106.65 | 106.23 | 1270 | 0.0978 | 14.8 | | 1.4 | 3.3 | 21.0 |
| 18 Apr 94 | 106.63 | 106.19 | 1240 | 0.0949 | 15.7 | 3.0 | 0.9 | 4.0 | 21.0 |
| 19 Apr 94 | 106.59 | 106.15 | 1210 | 0.0919 | 4.7 | 2.4 | 0.5 | 4.6 | 21.0 |
| 20 Apr 94 | 106.53 | 106.07 | 1180 | 0.0890 | 5.3 | | 0.7 | 3.7 | 18.5 |
| 21 Apr 94 | 106.48 | 106.02 | 1150 | 0.0861 | 9.2 | | 0.9 | 2.7 | 16.0 |
| 22 Apr 94 | 106.45 | 106.00 | 1120 | 0.0832 | 9.3 | | 1.1 | 1.8 | 13.5 |
| 23 Apr 94 | 106.39 | 105.90 | 1090 | 0.0802 | 6.9 | 1.3 | 1.3 | 0.8 | 11.0 |
| 24 Apr 94 | 106.29 | 105.84 | 1060 | 0.0773 | 8.3 | | 1.3 | 1.1 | 10.6 |
| 25 Apr 94 | 106.23 | 105.77 | 1034 | 0.0744 | 10.9 | 8.0 | 1.2 | 1.3 | 10.1 |
| 26 Apr 94 | 106.18 | 105.74 | 1008 | 0.0714 | 12.2 | 0.8 | 1.1 | 1.6 | 9.7 |
| 27 Apr 94 | 106.10 | 105.69 | 982 | 0.0685 | 13.7 | | 1.0 | 1.8 | 9.2 |
| 28 Apr 94 | 106.04 | 105.60 | 962 | 0.0656 | 14.4 | | 1.1 | 2.5 | 9.0 |
| 29 Apr 94 | 105.93 | 105.53 | 942 | 0.0627 | 16.1 | | 1.1 | 3.3 | 8.9 |
| 30 Apr 94 | 105.94 | 105.49 | 923 | 0.0597 | 15.4 | | 1.2 | 4.0 | 8.7 |

[a] Water levels were measured at the gauge stations D3 and BNS, located upstream and downstream, respectively, of the Output cross section (Fig. 1).

[b] Water discharges and suspended sediment load are given for the Output cross section.

[c] Temperature and precipitation were registered at the Chernobyl meteostation.

Table 4. Hydrological and meteorological data and activity concentrations of $^{90}Sr$ and $^{137}Cs$ in the Input cross section in January-April 1999.

| Date | Water level[a] m BS | | Discharge[b] $m^3 s^{-1}$ | Suspended sediment[b] $g L^{-1}$ | T[c] deg. C | Precipitation[c] mm | $^{137}Cs$ $pCi L^{-1}$ | | $^{90}Sr$ $pCi L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 1 Jan 99 | 105.91 | 105.52 | 591 | 0.020 | -4.3 | | 1.0 | 1.5 | 3.7 |
| 2 Jan 99 | 105.90 | 105.52 | 599 | 0.020 | -2.8 | 0.2 | 1.1 | 1.4 | 3.9 |
| 3 Jan 99 | 105.91 | 105.52 | 607 | 0.020 | -1.8 | | 1.1 | 1.4 | 4.0 |
| 4 Jan 99 | 105.92 | 105.55 | 610 | 0.020 | -0.3 | | 1.2 | 1.3 | 4.2 |
| 5 Jan 99 | 105.91 | 105.55 | 614 | 0.020 | 1.5 | 0.0 | 1.3 | 1.2 | 4.4 |
| 6 Jan 99 | 105.89 | 105.54 | 617 | 0.020 | 3.3 | 2.7 | 1.3 | 1.1 | 4.5 |
| 7 Jan 99 | 105.90 | 105.54 | 620 | 0.020 | 4.7 | | 1.4 | 1.1 | 4.7 |
| 8 Jan 99 | 105.88 | 105.52 | 623 | 0.020 | 1.4 | 0.8 | 1.4 | 1.0 | 4.9 |
| 9 Jan 99 | 105.86 | 105.51 | 627 | 0.020 | -2.1 | 1.6 | 1.3 | 1.1 | 4.6 |
| 10 Jan 99 | 105.86 | 105.50 | 630 | 0.020 | -1.5 | 3.6 | 1.2 | 1.3 | 4.3 |
| 11 Jan 99 | 105.85 | 105.49 | 633 | 0.020 | -8.9 | | 1.1 | 1.4 | 4.1 |
| 12 Jan 99 | 105.85 | 105.49 | 637 | 0.021 | -7.1 | 5.1 | 0.9 | 1.6 | 3.8 |
| 13 Jan 99 | 105.80 | 105.49 | 640 | 0.021 | -0.2 | 3.7 | 0.8 | 1.7 | 3.6 |
| 14 Jan 99 | 105.80 | 105.50 | 643 | 0.021 | -1.0 | 0.3 | 0.7 | 1.8 | 3.3 |
| 15 Jan 99 | 105.80 | 105.48 | 647 | 0.021 | -2.2 | 0.0 | 0.6 | 2.0 | 3.0 |
| 16 Jan 99 | 105.79 | 105.48 | 650 | 0.021 | -0.1 | 0.9 | 0.4 | 2.1 | 2.8 |
| 17 Jan 99 | 105.79 | 105.49 | 653 | 0.021 | -4.3 | | 0.3 | 2.3 | 2.5 |
| 18 Jan 99 | 105.78 | 105.47 | 656 | 0.021 | -3.6 | | 0.2 | 2.4 | 2.2 |
| 19 Jan 99 | 105.78 | 105.47 | 660 | 0.021 | -5.0 | | 0.2 | 2.6 | 2.2 |
| 20 Jan 99 | 105.78 | 105.47 | 663 | 0.021 | -5.6 | | 0.2 | 2.8 | 2.2 |
| 21 Jan 99 | 105.78 | 105.46 | 665 | 0.022 | -5.8 | | 0.2 | 3.0 | 2.2 |
| 22 Jan 99 | 105.77 | 105.46 | 667 | 0.022 | -5.6 | | 0.2 | 3.2 | 2.2 |
| 23 Jan 99 | 105.76 | 105.46 | 669 | 0.023 | -0.5 | | 0.2 | 3.4 | 2.2 |
| 24 Jan 99 | 105.74 | 105.44 | 672 | 0.024 | -0.5 | | 0.2 | 3.6 | 2.2 |
| 25 Jan 99 | 105.73 | 105.43 | 674 | 0.024 | 0.1 | 0.4 | 0.2 | 3.8 | 2.1 |

Table 4 (continued)

| Date | Water level[a] m BS | | Discharge[b] $m^3\ s^{-1}$ | Suspended sediment[b] $g\ L^{-1}$ | T[c] deg. C | Precipitation[c] mm | $^{137}Cs$ pCi $L^{-1}$ | | $^{90}Sr$ pCi $L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 26 Jan 99 | 105.71 | 105.39 | 676 | 0.025 | 3.2 | | 0.2 | 4.0 | 2.1 |
| 27 Jan 99 | 105.70 | 105.39 | 678 | 0.025 | 1.3 | 5.4 | 0.3 | 4.2 | 2.1 |
| 28 Jan 99 | 105.69 | 105.39 | 680 | 0.026 | 0.4 | 1.8 | 0.3 | 4.4 | 2.1 |
| 29 Jan 99 | 105.67 | 105.40 | 682 | 0.027 | -1.6 | 1.2 | 0.3 | 4.6 | 2.1 |
| 30 Jan 99 | 105.65 | 105.36 | 685 | 0.027 | -10.2 | 0.0 | 0.3 | 4.4 | 2.1 |
| 31 Jan 99 | 105.63 | 105.39 | 687 | 0.028 | -10.3 | 7.6 | 0.3 | 4.2 | 2.1 |
| 1 Feb 99 | 105.72 | 105.44 | 689 | 0.028 | -7.3 | 2.9 | 0.3 | 4.1 | 2.1 |
| 2 Feb 99 | 105.74 | 105.46 | 691 | 0.029 | -1.8 | 0.8 | 0.3 | 3.9 | 2.2 |
| 3 Feb 99 | 105.76 | 105.48 | 690 | 0.032 | -11.0 | | 0.3 | 3.7 | 2.2 |
| 4 Feb 99 | 105.78 | 105.48 | 690 | 0.035 | -6.6 | 0.3 | 0.3 | 3.5 | 2.2 |
| 5 Feb 99 | 105.79 | 105.50 | 689 | 0.038 | 2.5 | 3.6 | 0.4 | 3.3 | 2.2 |
| 6 Feb 99 | 105.80 | 105.50 | 688 | 0.042 | 0.5 | 1.4 | 0.4 | 3.2 | 2.2 |
| 7 Feb 99 | 105.80 | 105.50 | 688 | 0.045 | -3.4 | 4.2 | 0.4 | 3.0 | 2.3 |
| 8 Feb 99 | 105.79 | 105.45 | 687 | 0.048 | -6.1 | | 0.4 | 2.8 | 2.3 |
| 9 Feb 99 | 105.79 | 105.47 | 687 | 0.051 | -2.2 | 6.0 | 0.4 | 2.6 | 2.3 |
| 10 Feb 99 | 105.79 | 105.47 | 686 | 0.054 | -7.3 | 1.3 | 0.4 | 2.4 | 2.3 |
| 11 Feb 99 | 105.78 | 105.46 | 685 | 0.057 | -2.9 | 5.3 | 0.4 | 2.3 | 2.3 |
| 12 Feb 99 | 105.78 | 105.46 | 685 | 0.061 | -1.9 | 1.6 | 0.4 | 2.1 | 2.4 |
| 13 Feb 99 | 105.77 | 105.46 | 684 | 0.064 | -0.4 | 1.1 | 0.4 | 2.1 | 2.4 |
| 14 Feb 99 | 105.78 | 105.46 | 683 | 0.067 | -0.7 | | 0.4 | 2.1 | 2.4 |
| 15 Feb 99 | 105.78 | 105.46 | 683 | 0.070 | -0.6 | 4.0 | 0.5 | 2.0 | 2.5 |
| 16 Feb 99 | 105.78 | 105.39 | 682 | 0.073 | -1.9 | 2.4 | 0.5 | 2.0 | 2.5 |
| 17 Feb 99 | 105.78 | 105.40 | 692 | 0.078 | -1.7 | 1.7 | 0.5 | 2.0 | 2.5 |
| 18 Feb 99 | 105.78 | 105.42 | 702 | 0.083 | -2.6 | | 0.5 | 2.0 | 2.6 |
| 19 Feb 99 | 105.78 | 105.42 | 712 | 0.088 | -4.3 | | 0.5 | 2.0 | 2.6 |

Table 4 (continued)

| Date | Water level[a] m BS | | Discharge[b] $m^3\ s^{-1}$ | Suspended sediment[b] $g\ L^{-1}$ | T[c] deg. C | Precipitation[c] mm | $^{137}Cs$ $pCi\ L^{-1}$ | | $^{90}Sr$ $pCi\ L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 20 Feb 99 | 105.77 | 105.40 | 723 | 0.092 | -4.5 | 0.2 | 0.5 | 2.0 | 2.6 |
| 21 Feb 99 | 105.78 | 105.40 | 733 | 0.097 | -2.1 | 1.4 | 0.5 | 2.0 | 2.7 |
| 22 Feb 99 | 105.78 | 105.39 | 743 | 0.101 | -0.4 | 0.2 | 0.5 | 2.0 | 2.7 |
| 23 Feb 99 | 105.78 | 105.35 | 753 | 0.105 | 1.4 | 8.0 | 0.5 | 2.0 | 2.7 |
| 24 Feb 99 | 105.77 | 105.36 | 763 | 0.109 | 0.1 | 1.1 | 0.5 | 1.9 | 2.8 |
| 25 Feb 99 | 105.76 | 105.32 | 773 | 0.113 | -1.2 | 0.9 | 0.5 | 1.9 | 2.8 |
| 26 Feb 99 | 105.72 | 105.30 | 783 | 0.117 | -2.0 | 1.8 | 0.5 | 1.9 | 2.8 |
| 27 Feb 99 | 105.71 | 105.32 | 793 | 0.121 | 0.1 | 1.8 | 0.6 | 1.9 | 2.9 |
| 28 Feb 99 | 105.70 | 105.25 | 804 | 0.124 | 2.7 | | 0.6 | 1.9 | 2.9 |
| 1 Mar 99 | 105.69 | 105.24 | 814 | 0.135 | 2.7 | | 0.6 | 1.9 | 2.9 |
| 2 Mar 99 | 105.69 | 105.24 | 824 | 0.146 | 3.2 | 2.7 | 0.6 | 2.0 | 3.1 |
| 3 Mar 99 | 105.71 | 105.28 | 834 | 0.156 | 1.9 | | 0.7 | 2.2 | 3.2 |
| 4 Mar 99 | 105.72 | 105.30 | 844 | 0.166 | 6.3 | | 0.7 | 2.4 | 3.4 |
| 5 Mar 99 | 105.78 | 105.30 | 854 | 0.176 | 6.0 | | 0.7 | 2.5 | 3.6 |
| 6 Mar 99 | 105.84 | 105.31 | 864 | 0.182 | 7.5 | 0.9 | 0.8 | 2.7 | 3.7 |
| 7 Mar 99 | 105.90 | 105.35 | 874 | 0.188 | 4.5 | | 0.8 | 2.8 | 3.9 |
| 8 Mar 99 | 105.90 | 105.48 | 885 | 0.194 | 3.1 | 1.1 | 0.9 | 3.0 | 4.0 |
| 9 Mar 99 | 105.91 | 105.55 | 895 | 0.200 | 0.1 | 1.6 | 0.9 | 3.2 | 4.2 |
| 10 Mar 99 | 105.72 | 105.35 | 905 | 0.205 | -1.3 | 1.7 | 1.0 | 3.3 | 4.4 |
| 11 Mar 99 | 105.66 | 105.35 | 915 | 0.211 | 1.8 | 6.3 | 1.0 | 3.5 | 4.5 |
| 12 Mar 99 | 105.72 | 105.36 | 925 | 0.216 | 0.9 | 4.2 | 1.1 | 3.6 | 4.7 |
| 13 Mar 99 | 105.79 | 105.46 | 1013 | 0.228 | -1.1 | 2.2 | 1.1 | 3.8 | 4.8 |
| 14 Mar 99 | 105.84 | 105.46 | 1100 | 0.238 | -1.2 | 0.8 | 1.1 | 3.9 | 5.0 |
| 15 Mar 99 | 105.92 | 105.55 | 1139 | 0.257 | -2.6 | 0.4 | 1.2 | 4.1 | 5.1 |
| 16 Mar 99 | 105.95 | 105.62 | 1178 | 0.274 | -2.8 | 3.0 | 1.2 | 4.3 | 5.3 |

Table 4 (continued)

| Date | Water level[a] m BS | | Discharge[b] $m^3 s^{-1}$ | Suspended sediment[b] $g L^{-1}$ | T[c] deg. C | Precipitation[c] mm | $^{137}Cs$ pCi $L^{-1}$ | | $^{90}Sr$ pCi $L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 17 Mar 99 | 106.02 | 105.63 | 1216 | 0.291 | -1.8 | | 1.3 | 4.4 | 5.5 |
| 18 Mar 99 | 106.09 | 105.72 | 1255 | 0.306 | -0.6 | | 1.3 | 4.6 | 5.6 |
| 19 Mar 99 | 106.22 | 105.80 | 1294 | 0.321 | 0.8 | | 1.4 | 4.7 | 5.8 |
| 20 Mar 99 | 106.31 | 105.93 | 1333 | 0.335 | 2.2 | | 1.4 | 4.9 | 5.9 |
| 21 Mar 99 | 106.50 | 106.10 | 1371 | 0.348 | 0.0 | 4.0 | 1.4 | 5.0 | 6.8 |
| 22 Mar 99 | 106.76 | 106.37 | 1410 | 0.360 | 0.1 | 0.6 | 1.5 | 5.2 | 7.7 |
| 23 Mar 99 | 107.09 | 106.70 | 1550 | 0.347 | 4.0 | | 1.5 | 5.4 | 8.6 |
| 24 Mar 99 | 107.39 | 107.00 | 1690 | 0.337 | 3.9 | 3.7 | 1.6 | 5.5 | 9.5 |
| 25 Mar 99 | 107.63 | 107.21 | 1970 | 0.305 | 4.0 | | 1.6 | 5.7 | 11.6 |
| 26 Mar 99 | 107.78 | 107.38 | 2147 | 0.335 | 5.8 | | 2.0 | 7.0 | 12.4 |
| 27 Mar 99 | 107.90 | 107.47 | 2323 | 0.362 | 8.1 | | 2.3 | 8.4 | 13.2 |
| 28 Mar 99 | 107.98 | 107.53 | 2320 | 0.414 | 9.3 | | 1.7 | 11.5 | 18.6 |
| 29 Mar 99 | 108.01 | 107.60 | 2355 | 0.446 | 9.8 | | 1.1 | 14.6 | 24.1 |
| 30 Mar 99 | 108.11 | 107.66 | 2390 | 0.460 | 10.1 | | 1.1 | 15.0 | 24.7 |
| 31 Mar 99 | 108.17 | 107.70 | 2570 | 0.445 | 10.8 | | 1.1 | 15.4 | 25.4 |
| 1 Apr 99 | 108.22 | 107.74 | 2600 | 0.457 | 9.5 | | 1.2 | 8.3 | 24.2 |
| 2 Apr 99 | 108.26 | 107.77 | 2690 | 0.477 | 10.3 | | 1.3 | 1.1 | 23.0 |
| 3 Apr 99 | 108.26 | 107.80 | 2780 | 0.468 | 9.6 | | 1.7 | 7.0 | 21.8 |
| 4 Apr 99 | 108.25 | 107.74 | 2755 | 0.465 | 7.5 | | 2.1 | 13.0 | 20.5 |
| 5 Apr 99 | 108.23 | 107.70 | 2730 | 0.390 | 2.2 | | 1.4 | 6.8 | 13.9 |
| 6 Apr 99 | 108.19 | 107.68 | 2630 | 0.382 | 5.9 | | 0.7 | 0.7 | 7.3 |
| 7 Apr 99 | 108.15 | 107.65 | 2530 | 0.374 | 11.5 | 5.4 | 0.1 | 3.0 | 3.2 |
| 8 Apr 99 | 108.12 | 107.63 | 2430 | 0.365 | 8.3 | 6.5 | 0.4 | 3.9 | 4.2 |
| 9 Apr 99 | 108.10 | 107.60 | 2330 | 0.355 | 9.2 | | 0.8 | 4.9 | 5.1 |
| 10 Apr 99 | 108.08 | 107.57 | 2253 | 0.341 | 10.1 | | 0.8 | 6.2 | 6.8 |

Table 4 (continued)

| Date | Water level[a] m BS | | Discharge[b] $m^3 s^{-1}$ | Suspended sediment[b] $g L^{-1}$ | T[c] deg. C | Precipitation[c] mm | $^{137}Cs$ pCi $L^{-1}$ | | $^{90}Sr$ pCi $L^{-1}$ |
|---|---|---|---|---|---|---|---|---|---|
| | D3 | BNS | | | | | Particulate | Dissolved | Dissolved |
| 11 Apr 99 | 108.00 | 107.53 | 2177 | 0.326 | 10.4 | 1.9 | 1.9 | 5.5 | 7.8 |
| 12 Apr 99 | 107.99 | 107.50 | 2100 | 0.309 | 9.2 | 4.3 | 3.0 | 4.9 | 8.9 |
| 13 Apr 99 | 107.94 | 107.43 | 2085 | 0.283 | 7.5 | | 2.1 | 4.0 | 7.1 |
| 14 Apr 99 | 107.88 | 107.38 | 2070 | 0.257 | 11.6 | 2.5 | 1.3 | 3.1 | 5.3 |
| 15 Apr 99 | 107.80 | 107.30 | 2013 | 0.234 | 12.7 | 1.7 | 0.4 | 2.2 | 3.5 |
| 16 Apr 99 | 107.74 | 107.24 | 1957 | 0.211 | 14.3 | | 0.3 | 1.6 | 6.5 |
| 17 Apr 99 | 107.66 | 107.15 | 1900 | 0.186 | 16.2 | | 0.4 | 2.1 | 6.6 |
| 18 Apr 99 | 107.59 | 107.11 | 1825 | 0.184 | 14.5 | 5.0 | 0.4 | 2.7 | 6.8 |
| 19 Apr 99 | 107.51 | 107.03 | 1750 | 0.182 | 15.6 | | 0.5 | 3.2 | 6.9 |
| 20 Apr 99 | 107.42 | 106.95 | 1675 | 0.180 | 8.5 | 4.3 | 0.6 | 3.8 | 7.0 |
| 21 Apr 99 | 107.33 | 106.86 | 1600 | 0.177 | 9.1 | | 0.5 | 3.5 | 5.9 |
| 22 Apr 99 | 107.23 | 106.78 | 1527 | 0.174 | 12.6 | | 0.5 | 3.2 | 4.7 |
| 23 Apr 99 | 107.15 | 106.68 | 1453 | 0.171 | 12.5 | | 0.5 | 3.0 | 3.5 |
| 24 Apr 99 | 107.08 | 106.60 | 1380 | 0.168 | 13.0 | | 0.4 | 2.7 | 3.4 |
| 25 Apr 99 | 107.00 | 106.55 | 1370 | 0.163 | 14.0 | 1.4 | 0.3 | 2.5 | 3.4 |
| 26 Apr 99 | 106.92 | 106.46 | 1360 | 0.158 | 15.7 | | 0.3 | 2.2 | 3.3 |
| 27 Apr 99 | 106.85 | 106.39 | 1350 | 0.153 | 16.9 | | 0.2 | 2.0 | 3.2 |
| 28 Apr 99 | 106.79 | 106.33 | 1330 | 0.148 | 16.8 | | 0.2 | 2.3 | 4.1 |
| 29 Apr 99 | 106.70 | 106.25 | 1310 | 0.144 | 13.9 | 1.7 | 0.3 | 2.7 | 5.0 |
| 30 Apr 99 | 106.64 | 106.20 | 1290 | 0.140 | 10.8 | 0.9 | 0.3 | 3.1 | 5.8 |

[a] Water levels were measured at the gauge stations D3 and BNS, located upstream and downstream, respectively, of the Output cross section (Fig. 1).
[b] Water discharges and suspended sediment load are given for the Output cross section.
[c] Temperature and precipitation were registered at the Chernobyl meteostation.