**R-5 Launches**

All launched from GTsP-4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Date** | **Serial No.** | **Range** | **Outcome** | **Notes** |
| 1 | 03.15.53 |  | 270 km | Success | Beginning of 1st stage of experimental launches |
| 2 | 03.18.53 |  | 270 km | Success |  |
| 3 | 04.02.53 |  | 1200 km | Success |  |
| 4 | 04.08.53 |  | 1178 km | Failure |  |
| 5 | 04.19.53 |  | 1206 km | Success |  |
| 6 | 04.24.53 |  | 1206 km | Failure |  |
| 7 | 05.13.53 |  | 1206 km | Success |  |
| 8 | 05.23.53 |  | 550 km | Success | with 4 supplementary combat compartments |
| 9 | 10.30.53 |  | 1185 km | Success | Beginning of 2nd stage of experimental launches |
| 10 | 11.03.53 |  | 1185 km | Success |  |
| 11 | 11.17.53 |  | 1185 km | Success |  |
| 12 | 11.21.53 |  | 1185 km | Success |  |
| 13 | 11.26.53 |  | 1185 km | Failure |  |
| 14 | 12.05.53 |  | 1185 km | Success |  |
| 15 | 12.09.53 |  | 1185 km | Success | End of 2nd stage of experimental launches |
| 16 | 08.12.54 | KZ-1 | 1191.4 km | Failure | Range (пристрелочные) tests begin |
| 17 | 08.17.54 | KZ-2 | 1191.4 km | Success | Range test |
| 18 | 08.19.54 | KZ-3 | 1191.4 km | Success | Range test |
| 19 | 08.24.54 | KZ-4 | 1191.4 km | Success | Range test |
| 20 | 08.25.54 | KZ-5 | 1191.4 km | Success | Range test |
| 21 | 09.05.54 | KZ-11 | 1191.4 km | Success | Range test |
| 22 | 09.08.54 | KZ-7 | 1191.4 km | Success | Range test |
| 23 | 10.09.54 | KZ-9 | 1191.4 km | Success | Range test, airborne destruction of warhead |
| 24 | 10.19.54 | KZ-6 | 1191.4 km | Success | Range tests end |
| 25 | 12.30.54 | KZ-10 | 1191.4 km | Success | Validity tests begin |
| 26 | 01.06.55 | KZ-13 | 1191.4 km | Success | Validity test |
| 27 | 01.08.55 | KZ-12 | 1191.4 km | Success | Validity test |
| 28 | 01.17.55 | KZ-14 | 1191.4 km | Success | Validity test |
| 29 | 01.21.55 | KZ-17 | 1191.4 km | Success | Validity test |
| 30 | 01.22.55 | KZ-18 | 1191.4 km | Success | Validity test, airborne destruction of warhead |
| 31 | 01.29.55 | KZ-20 | 1191.4 km | Success | Validity test |
| 32 | 02.01.55 | KZ-15 | 1191.4 km | Success | Validity test |
| 33 | 02.07.55 | KZ-8 | 1191.4 km | Success | Validity tests end |

**R-5M Launches**

All launched from GTsP-4

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| --- | --- | --- | --- | --- | --- |
| **No.** | **Date** | **Serial No.** | **Range** | **Outcome** | **Notes** |
| 1 | 01.20.55 | S1-2 | 1163 km | success | experimental launch |
| 2 | 02.09.55 | S1-3 | 1163 km | success | experimental launch |
| 3 | 02.14.55 | S1-4 | 1163 km | success | experimental launch |
| 4 | 04.29.55 | S1-5 | 1163 km | failure | experimental launch |
| 5 | 05.20.55 | S1-6 | 1163 km | success | experimental launch |
| 6 | 05.26.55 | S1-1 | 1163 km | success | experimental launch |
| 7 | 06.06.55 | S1-7 | 1163 km | success | experimental launch |
| 8 | 06.15.55 | S1-10 | 1163 km | success | experimental launch |
| 9 | 06.22.55 | S1-9 | 1163 km | success | experimental launch |
| 10 | 06.23.55 | S1-12 | 1163 km | success |  |
| 11 | 06.28.55 | S1-11 | 1163 km | success | experimental launch |
| 12 | 06.30.55 | S1-8 | 551.7 km | success | experimental launch |
| 13 | 07.07.55 | S1-13 | 551.7 km | success |  |
| 14 | 07.09.55 | S1-14 | 1080 km | success |  |
| 15 | 08.09.55 | S1-18 | 1165.3 km | success | range test |
| 16 | 08.12.55 | S1-17 | 1170.8 km | success | range test |
| 17 | 08.16.55 | S1-16 | 1165.3 km | failure | range test |
| 18 | 09.19.55 | S1-20 | 1165.3 km | success | range test |
| 19 | 09.23.55 | S1-19 | 1171.2 km | success | range test |
| 20 | 09.27.55 | S1-24 | 1190 km | success | range test |
| 21 | 10.01.55 | S1-25 | 1190 km | success | range test |
| 22 | 11.01.55 | S1-23 | 1083 km | success | range test |
| 23 | 11.04.55 | S1-21 | 1083 km | success | range test |
| 24 | 11.19.55 | S1-22 | 1083 km | success | range test |
| 25 | 01.11.56 | S1-26 | 1165.3 km | success | validity test |
| 26 | 01.17.56 | S1-27 | 1165.3 km | success | validity test |
| 27 | 01.21.56 | S1-28 | 1190 km | success | validity test |
| 28 | 02.02.56 | S1-30 | 1190 km | success | validity test, launch of live nuclear payload (Operation Baikal) |
| 29 | 02.06.56 | S1-29 | 1190 km | success | validity test |
| 30 | 08.25.56 | S1-10 | 1167.2 km | success | monitored firing, from production series |
| 31 | 09.16.56 | A1-1TS | 1167.2 km | success | monitored firing |
| 32 | 09.19.56 | A1-2TS | 1167.2 km | success | monitored firing |
| 33 | 11.03.56 | A1-3TS | 529.8 km | success | monitored firing |
| 34 | 11.13.56 | A1-6TS | 529.8 km | success | monitored firing |
| 35 | 11.16.56 | A1-4TS | 1167.2 km | success | monitored firing |
| 36 | 11.24.56 | A1-20 | 1167.2 km | success | monitored firing, from production series |
| 37 | 12.06.56 | A1-5TS | 1167.2 km | success | monitored firing |
| 38 | 12.12.56 | A2-20 | 1167.2 km | success | monitored firing, from production series |
| 39 | 03.11.57 | A2-12TS | 1167.2 km | success | coating of TMP-2 warhead with artificial delamination and cracks |
| 40 | 03.18.57 | A2-13TS | 1167.2 km | success | coating of TMP-2 warhead with artificial delamination and cracks |
| 41 | 03.18.57 | M5-7TK | 1167.2 km | success | live warhead |
| 42 | 03.21.57 | A2-15TS | 1167.2 km | success | coating of TMP-2 warhead with artificial delamination and cracks |
| 43 | 03.28.57 | M1-20 | 1167.2 km | success | from series party |
| 44 | 06.14.57 | A683-V | 1167.3 km | success | with ‘Vibrator’ system (a non-contact explosive device) |
| 45 | 06.28.57 | A681-V | 1167.2 km | success | with ‘Vibrator’ system |
| 46 | 06.28.57 | M2-20T | 1167.2 km | success |  |
| 47 | 07.09.57 | A2-17TS | 1167.2 km | success | with RUD system (a radio-control system) and asbestos-metallic coating of the warhead |
| 48 | 07.18.57 | A2-16TS | 1167.2 km | success | with RUD system and asbestos-metallic coating of the warhead |
| 49 | 07.24.57 | A2-18TS | 1167.2 km | success | with RUD system and asbestos-metallic coating of the warhead |
| 50 | 08.21.57 | B7-20T | 1167.2 km | success | launch without BRK-2 radio control system |
| 51 | 09.12.57 | A2-19TS | 1167.2 km | success | TMP-2 warhead with artificial delamination |
| 52 | 09.14.57 | A2-14TS | 1167.2 km | success | TMP-2 warhead with artificial delamination |
| 53 | 09.26.57 | M3-20 | 1167.2 km | success |  |
| 54 | 11.30.57 | M4-20 | 1167.2 km | success |  |
| 55 | 02.04.58 | B1-20T | 1167.2 km | success |  |
| 56 | 02.12.58 | M5-3TSK | 1167.2 km | success | live warhead |
| 57 | 03.07.58 | M5-5TK | 1167.2 km | success | live warhead |
| 58 | 03.28.58 | A6-84V | 1171.08 km | success | with ‘Vibrator’ non-contact explosive devide system |
| 59 | 03.29.58 | B2-20T | 1167.2 km | success | from series party |
| 60 | 03.30.58 | B3-20T | 1167.2 km | success |  |
| 61 | 04.22.58 | A6-85V | 1171.08 km | success | with ‘Vibrator’ system |
| 62 | 04.09.58 | M5-6TK | 1167.2 km | success | live warhead |
| 63 | 05.16.58 | A6-82V | 1171.08 km | success | with ‘Vibrator’ system |
| 64 | 05.29.58 | B5-20T | 1167.2 km | success | UBP |
| 65 | 05.30.58 | M5-4TK | 1167.2 km | success | UBP, live warhead |
| 66 | 06.03.58 | M5-10TK | 1167.2 km | success | live warhead |
| 67 | 06.23.58 | M5-8TK | 1167.2 km | failure | live warhead |
| 68 | 06.26.58 | B6-20T | 1167.2 km | success |  |
| 69 | 07.10.58 | M5-1TSK | 551 km | success | live warhead |
| 70 | 07.11.58 | M5-9TK | 551 km | success | live warhead |
| 71 | 07.29.58 | A2-2 | 1167.2 km | success | launch without BRK-2 radio control system |
| 72 | 09.08.58 | M3-18 | 1167.2 km | success | launch during display of technology |
| 73 | 09.23.58 | M4-26 | 1167.2 km | success | launch from Readiness 3 status 1 hour 54 minutes after second shot |
| 74 | 09.23.58 | M5-2TSK | 1167.2 km | success | launch from Readiness 1 status in 1 hour 17 minutes |
| 75 | 09.23.58 | M4-17 | 1167.2 km | success | launch from Readiness 3 status 2 hours after first shot |
| 76 | 09.24.58 | B8-20T | 1167.2 km | success | launch without BRK-2 |
| 77 | 11.01.58 | B9-20TS | 1167.2 km | success | warhead 4R |
| 78 | 11.03.58 | M1-2 | 950.95 km | success | with SP-5, in Fakel payload |
| 79 | 11.04.58 | M1-4 | 950.95 km | success |  |
| 80 | 11.21.58 | B1-1 | 1167.2 km | success | Zvezda equipment disconnected |
| 81 | 11.28.58 | B1-3 | 1167.2 km | success | Zvezda equipment malfunctioned |
| 82 | 12.02.58 | B10-20T | 1167.2 km | success |  |
| 83 | 12.11.58 |  | 950.95 km | success | with SP-5, in Fakel payload |
| 84 | 12.16.58 | M1-1 | 950.95 km | success | with SP-5, in Fakel payload |
| 85 | 12.19.58 | B1-5 | 1167.2 km | success | Zvezda equipment malfunctioned |
| 86 | 02.02.59 | B1-4 | 1167.2 km | failure | abnormal work of SRP on Earth and premature shutdown of engine |
| 87 | 02.13.59 | B10-17TA | 1167.2 km | failure | launch from Readiness 3, BRK at 15 km, rocket destroyed at 70 seconds |
| 88 | 03.04.59 | B10-16T | 1167.2 km | success | Preparation in 55 minutes according to documentation of Readiness 1, BRK at 15 km |
| 89 | 03.06.59 | B10-18TA | 1167.2 km | success | Preparation in 57 minutes according to documentation of Readiness 1, BRK at 15 km |
| 90 | 03.06.59 | B10-19TA | 1167.2 km | success | Preparation in 1 hour 57 minutes according to documentation of Readiness 3 |
| 91 | 04.07.59 | I1-20TS | 1167.2 km | success | BRK-2 at 15 km from SP |
| 92 | 04.09.59 | B1-8 | 1167.2 km | success | Zvezda equipment worked normally |
| 93 | 04.14.59 | B1-6 | 1167.2 km | success | Zvezda equipment worked normally |
| 94 | 04.21.59 | B1-2 | 1167.2 km | success | warhead with one opening |
| 95 | 04.25.59 | B1-1 | 1167.2 km | success | warhead with two openings |
| 96 | 05.09.59 | M3-11 | 1166.37 km | success | after a year of experimental storage, used in field conditions |
| 97 | 09.07.59 | M1-4 | 1166.37 km | success | with collapsible SP from Readiness 2 after a year’s storage |
| 98 | 09.07.59 | M3-5 | 1166.37 km | success | with collapsible SP from Readiness 3 after a year’s storage |
| 99 | 09.24.59 | M1-5 | 1166.37 km | success |  |
| 100 | 12.11.59 | BI1-4 | 1010.7 km | success | from SP-5 on T-5 from production party transferred for anti-ballistic missile test |

**M5-RD Launches**

All launches from GTsP-4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Date** | **Serial No.** | **Range** | **Outcome** | **Notes** |
| 1 | 02.16.56 | S1-3 | 1160 km | success |  |
| 2 | 03.07.56 | A1-4 | 1160 km | success |  |
| 3 | 03.15.56 | A1-1 | 1160 km | success |  |
| 4 | 03.17.56 | A1-5 | 1160 km | success |  |
| 5 | 03.23.56 | S1-2 | 1160 km | success |  |
| 6 | 07.20.56 | A1-7 | 1130 km | success |  |
| 7 | 08.07.56 | A2-8 | 1130 km | success |  |
| 8 | 08.10.56 | A2-6 | 1130 km | success |  |
| 9 | 09.25.56 | A2-9 | 1130 km | success |  |
| 10 | 09.26.56 | A2-10 | 1130 km | success |  |

**R-5R Launches**

All launches from GTsP-4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Date** | **Serial No.** | **Range** | **Outcome** | **Notes** |
| 1 | 05.31.56 | S1-1 | 1160 km | success |  |
| 2 | 06.07.56 | A1-3 | 1160 km | success |  |
| 3 | 06.15.56 | A1-4 | 1160 km | success |  |

**Generator-5 Launches**

All launches from GTsP-4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Date** | **Serial No.** | **Range** | **Outcome** | **Notes** |
| 1 | 09.05.57 | M1-1 | 1152.2 km | success |  |
| 2 | 11.03.57 | M1-2 | 1152 km | success |  |
| 3 | 12.26.57 | M1-3 | 1152.2 km | success |  |

**R-5A Launches**

all launches from GTs-P-4

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **No.** | **Date** | **Serial No.** | **(Altitude)** | **Outcome** | **Notes** |
| 1 | 02.21.58 | A1-7 | (473 km) | success |  |
| 2 | 08.27.58 | A1-8 | (450 km) | success | geophysical |
| 3 | 09.19.58 | A1-10 | (450 km) | success | geophysical, Kometa system, sodium cloud release |
| 4 | 10.31.58 | A1-11 | (452 km) | success | geophysical |