

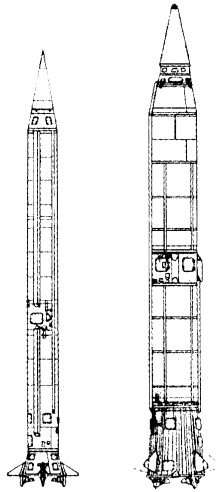
COSMOS Launch History

Status 01.12.2000

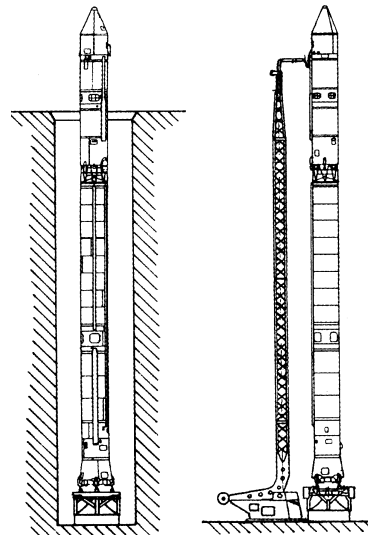
Strategic missiles and first generation COSMOS

COSMOS 3M Launch Vehicles

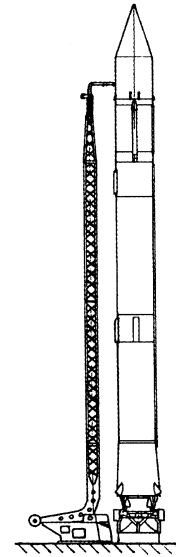
Total number > 2300



SS-4 and SS-5



COSMOS (63S1/1M, 65S3, 11K63)



761 Launches with 97,4% Reliability

COSMOS-3 (11K65) COSMOS 3M (11K65M)



1957

1960

27.10.1961

1966

1971

2000

COSMOS 3 M Launch History Overview

COSMOS 3M	Status		Launches	Failures	Success
11K65	Tests	1966 - 1968	4	2	50%
11K65M	Tests and Verification	1967 - 1970	30	6	80%
	Series production	1971 - 1999	393	14 (15*)	96,65%
11K65MP	Series production	1973 - 1999	337	6	98,2%
Total	Series production		761		97,38%

* two failures in 04.03.1982 and 23.10.1985 not caused by COSMOS launcher (wrong start operations)

11K65

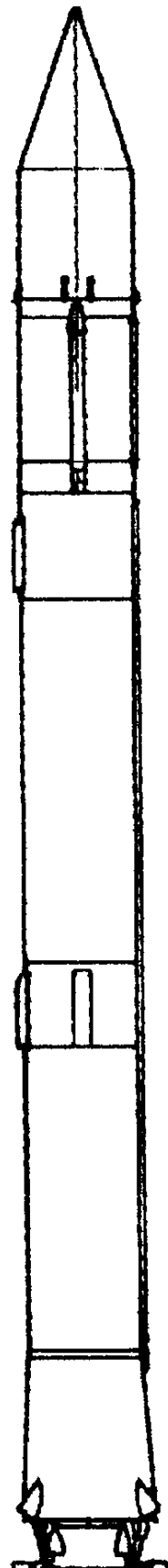
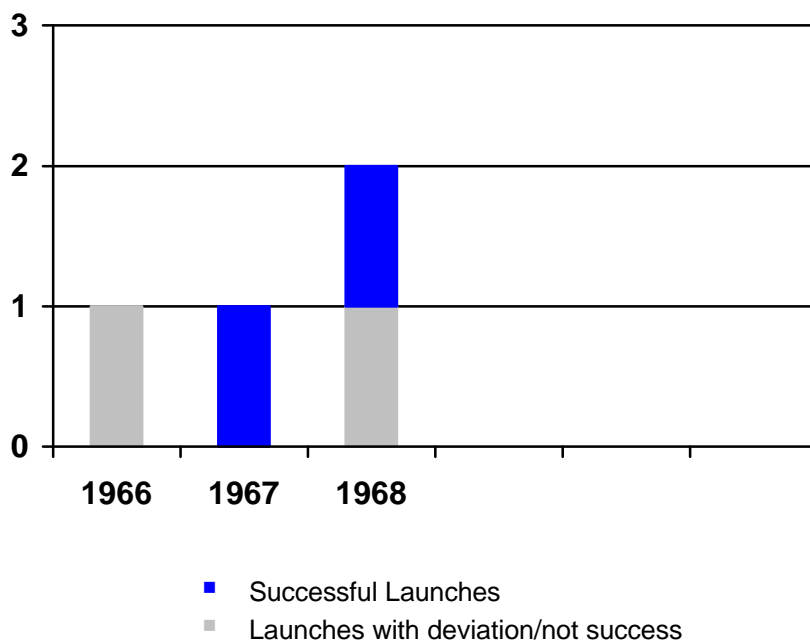
Initial production version of satellite launcher based on R-14 (SS-5) IRBM.

Flew only four times, with two failures, before being succeeded by modernized production version (11K65M).

Launches: 4
 Failures: 2
 Success Rate: 50.00%

First Launch Date: 16 November 1966
 Last Launch Date: 27 August 1968

LEO Payload: 1,400 kg. to: 400 km Orbit
 Payload: 700 kg. to a: 1,600 km orbital trajectory
 Liftoff Thrust: 150,696 kgf
 Total Mass: 107,500 kg
 Core Diameter: 2.4 m
 Total Length: 26.3 m



1966

1. 16 November 1966 Strela-2 Failure: Launch vehicle failed to orbit.

1967

1. 24 March 1967 Cosmos 151 Launch Site: Baikonur . Launch Complex: LC41. Total Payload Mass: 875 kg.

1968

1. 15 June 1968 Strela-2 Failure: Launch vehicle failed to orbit. Launch Site: Baikonur . Launch Complex: LC41.
2. 27 August 1968 Cosmos 236 Launch Site: Baikonur . Launch Complex: LC41. Total Payload Mass: 875 kg

11K65M - COSMOS 3M

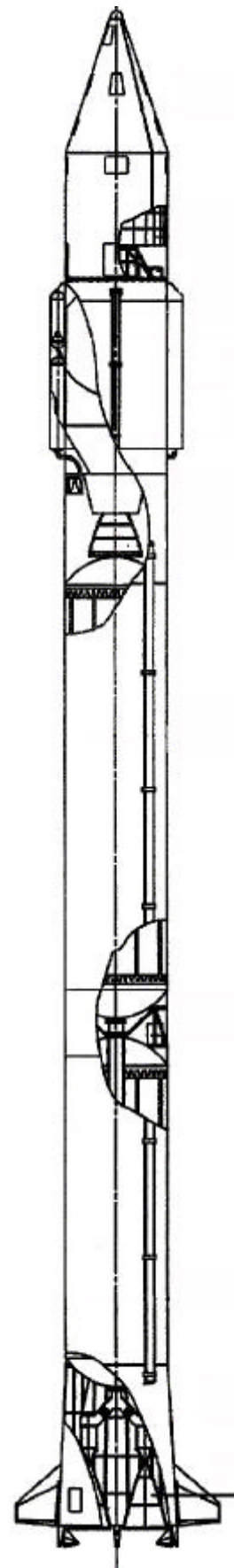
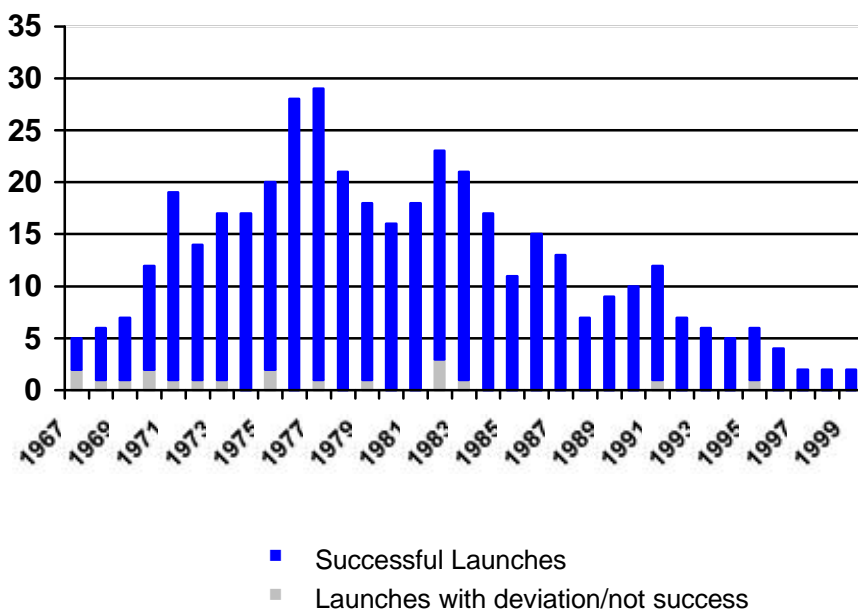
Modernized version of satellite launcher COSMOS 3 based on R-14 (SS-5) IRBM.

Launches: 420
Failures: 19

Success Rate: 97,38%

First Launch Date: 15 May 1967.
Last Launch Date: 26 August 1999

LEO Payload: 1,400 kg. to: 400 km Orbit
Payload: 700 kg. to a: 1,600 km orbital trajectory
Liftoff Thrust: 150,696 kgf
Total Mass: 107,500 kg
Core Diameter: 2.4 m.
Total Length: 26.3 m.



1967

1. 15 May 1967 Cosmos 158 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
2. 26 June 1967 Tselina-O GVM Failure: Launch vehicle failed to orbit. Launch Site: Plesetsk . Launch Complex: LC132.
3. 27 September 1967 Tsiklon GVM Failure: Launch vehicle failed to orbit. Launch Site: Plesetsk . Launch Complex: LC132.
4. 30 October 1967 Cosmos 189 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
5. 23 November 1967 Cosmos 192 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 775 kg.

1968

1. 20 January 1968 Cosmos 200 Launch Site: Plesetsk . Launch Complex: LC132.
2. 20 February 1968 Cosmos 203 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 600 kg.
3. 07 May 1968 Cosmos 220 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 775 kg.
4. 04 June 1968 Sfera s/n 12L Failure: Launch vehicle failed to orbit. Launch Site: Plesetsk . Launch Complex: LC132.
5. 31 October 1968 Cosmos 250 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
6. 30 November 1968 Cosmos 256 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 600 kg.

1969

1. 05 March 1969 Cosmos 269 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
2. 17 March 1969 Cosmos 272 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 600 kg.
3. 14 August 1969 Cosmos 292 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 775 kg.
4. 21 October 1969 Cosmos 304 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 795 kg.
5. 24 November 1969 Cosmos 312 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 600 kg.
6. 20 December 1969 Cosmos 315 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 325 kg.
7. 27 December 1969 Ionosfernaya Failure: Launch vehicle failed to orbit. Launch Site: Plesetsk . Launch Complex: LC132.

1970

1. 07 April 1970 Cosmos 330 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
2. 11 April 1970 Cosmos 332 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 775 kg.
3. 25 April 1970 Cosmos 343 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 400 kg.
4. 27 June 1970 Strela-2 Failure: **Launch vehicle failed to orbit**. Launch Site: Plesetsk . Launch Complex: LC132.
5. 20 August 1970 Cosmos 358 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
6. 12 October 1970 Cosmos 371 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 775 kg.
7. 16 October 1970 LV s/n 53717-04. Cosmos 372 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
8. 17 November 1970 LV s/n 47117-107. Cosmos 378 Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 710 kg.
9. 02 December 1970 LV s/n 47117-105. Cosmos 381 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 710 kg.
10. 12 December 1970 LV s/n V149-39. Cosmos 385 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 680 kg.
11. 16 December 1970 LV s/n V149-31. Cosmos 387 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
12. 23 December 1970 LV s/n 47117-106. DS-P1-M s/n 1 Failure: **First stage failed** 1 second after launch. Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 600 kg.

1971

1. 09 February 1971 LV s/n 65027-119. Cosmos 394 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 650 kg.
2. 18 February 1971 LV s/n 53727-117. Cosmos 395 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
3. 19 March 1971 LV s/n 65027-118. Cosmos 400 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 650 kg.
4. 23 April 1971 LV s/n 53727-116. Cosmos 407 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
5. 28 April 1971 LV s/n 53727-115. Cosmos 409 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 600 kg.
6. 07 May 1971 LV s/n 53727-121. Cosmos 415 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 400 kg.
7. 22 May 1971 s/n 53727-120. Cosmos 422 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 680 kg.

8. 29 May 1971 LV s/n 3149-30. Cosmos 425 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 820 kg.
9. 04 June 1971 LV s/n 65014-101. Cosmos 426 Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 680 kg.
10. 22 July 1971 LV s/n Yu149-32. Tselina-O Failure: **Launch vehicle failed to orbit.** Launch Site: Plesetsk . Launch Complex: LC132.
11. 07 September 1971 LV s/n Yu149-42. Cosmos 436 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
12. 10 September 1971 LV s/n 65014-106. Cosmos 437 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
13. 13 October 1971 LV s/n 47114-104. Cosmos 450 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 400 kg.
14. 20 November 1971 LV s/n 47114-106. Cosmos 457 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 600 kg.
15. 29 November 1971 LV s/n 65027-110. Cosmos 459 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 650 kg.
16. 02 December 1971 LV s/n 47119-109. Cosmos 461 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 680 kg.
17. 15 December 1971 LV s/n 65017-108. Cosmos 465 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 680 kg.
18. 17 December 1971 LV s/n 65014-102. Cosmos 468 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
19. 27 December 1971 LV s/n 65014-103. Oreol Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 630 kg.

1972

1. 25 February 1972 LV s/n 53727-113. Cosmos 475 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 680 kg.
2. 22 March 1972 LV s/n 47127-122. Cosmos 479 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
3. 25 March 1972 Cosmos 480 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 600 kg.
4. 06 May 1972 Cosmos 489 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 680 kg.
5. 23 June 1972 Cosmos 494 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
6. 10 July 1972 Cosmos 500 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
7. 20 July 1972 Cosmos 511 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 400 kg.

8. 16 August 1972 LV s/n Yu149-38. Cosmos 514 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 680 kg.
9. 29 September 1972 LV s/n Yu47121-11. Cosmos 521 Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 750 kg.
10. 17 October 1972 LV s/n Yu149-40. Strela-2 Failure: **Launch vehicle failed to orbit**. Launch Site: Plesetsk . Launch Complex: LC132.
11. 01 November 1972 LV s/n Yu149-46. Cosmos 528 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 400 kg.
12. 03 November 1972 LV s/n Yu47121-1U. Cosmos 536 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
13. 21 December 1972 LV s/n Yu149-43. Cosmos 539 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 600 kg.
14. 26 December 1972 LV s/n 53724-113. Cosmos 540 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.

1973

1. 20 January 1973 LV s/n Yu149-44. Cosmos 544 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
2. 26 January 1973 LV s/n Yu149-37. Cosmos 546 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 750 kg.
3. 28 February 1973 LV s/n Yu149-45. Cosmos 549 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
4. 25 May 1973 LV s/n 65024-109. Zaliv Failure: **Launch vehicle failed to orbit**. Launch Site: Plesetsk . Launch Complex: LC132.
5. 08 June 1973 LV s/n 53753-210. Cosmos 568 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
6. 20 June 1973 LV s/n 53724-116. Cosmos 574 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 550 kg.
7. 28 August 1973 LV s/n 65033-201. Cosmos 582 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
8. 08 September 1973 LV s/n 60527-114. Cosmos 585 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 550 kg.
9. 14 September 1973 LV s/n 53714-106. Cosmos 586 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 550 kg.
10. 03 October 1973 LV s/n 53724-115. Cosmos 591 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
11. 30 October 1973 LV s/n 53749-158. Intercosmos 10 Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 550 kg.
12. 27 November 1973 LV s/n 53724-114. Cosmos 610 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
13. 04 December 1973 LV s/n 53753-211. Cosmos 614 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.

14. 19 December 1973 LV s/n 53724-112. Cosmos 617 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
15. 26 December 1973 LV s/n 65024-111. Oreol 2 Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 550 kg.
16. 29 December 1973 LV s/n 65033-204. Cosmos 627 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 550 kg.

1974

1. 17 January 1974 LV s/n 53753-208. Cosmos 628 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 550 kg.
2. 06 February 1974 LV s/n 65053-209. Cosmos 631 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
3. 23 April 1974 LV s/n 65033-202. Cosmos 645 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
4. 29 April 1974 LV s/n Yu47121-15. Cosmos 650 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 600 kg.
5. 17 May 1974 LV s/n 53749-167. Intercosmos 11 Launch Site: Kapustin Yar . Launch Complex: LC107/1. Total Payload Mass: 400 kg.
6. 21 May 1974 LV s/n 53719-152. Cosmos 655 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
7. 18 June 1974 LV s/n 53714-165. Cosmos 660 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 650 kg.
8. 21 June 1974 LV s/n 65053-205. Cosmos 661 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.
9. 27 June 1974 LV s/n 53749-160. Cosmos 663 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 680 kg.
10. 29 August 1974 LV s/n 53719-154. Cosmos 675 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 600 kg.
11. 11 September 1974 LV s/n 53719-151. Cosmos 676 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
12. 19 September 1974 LV s/n 53753-206. Cosmos 682 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
13. 11 October 1974 LV s/n 53721-225. Cosmos 687 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 400 kg.
14. 19 October 1974 LV s/n 53753-207. Cosmos 689 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 680 kg.
15. 31 October 1974 LV s/n 53721-253. Intercosmos 12 Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 400 kg.
16. 18 December 1974 LV s/n 53721-256. Cosmos 698 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 875 kg.

17. 26 December 1974 LV s/n 53731-270. Cosmos 700 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 810 kg.

1975

1. 05 February 1975 LV s/n 53753-212. Cosmos 707 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.
2. 12 February 1975 LV s/n 53749-166. Cosmos 708 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 650 kg.
3. 28 February 1975 LV s/n 53749-157. Cosmos 717 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
4. 27 March 1975 LV s/n 53721-268. Intercosmos 13 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 400 kg.
5. 11 April 1975 LV s/n 65033-203. Cosmos 726 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 810 kg.
6. 19 April 1975 LV s/n 53731-279. Aryabhata Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 360 kg.
7. 23 April 1975 LV s/n 53731-274. Cosmos 729 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 725 kg.
8. 28 May 1975 LV s/n 53731-272. Cosmos 734 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
9. 03 June 1975 LV s/n 53721-257. Intercosmos 14 Failure: **First stage failed** 84 seconds after launch. Launch Site: Kapustin Yar . Launch Complex: LC107/2.
10. 04 July 1975 LV s/n 53721-259. Cosmos 749 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.
11. 24 July 1975 LV s/n 53721-254. Cosmos 752 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.
12. 14 August 1975 LV s/n 53731-288. Cosmos 755 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 810 kg.
13. 17 September 1975 LV s/n 53746-311. Cosmos 764 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
14. 24 September 1975 LV s/n 53721-260. Cosmos 770 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 650 kg.
15. 30 September 1975 LV s/n 53721-258. Cosmos 773 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
16. 04 November 1975 LV s/n 53731-275. Cosmos 778 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 810 kg.
17. 21 November 1975 LV s/n 53731-271. Cosmos 781 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.
18. 28 November 1975 LV s/n 53721-252. Cosmos 783 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.

19. 11 December 1975 LV s/n 53746-308. Intercosmos 14 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 700 kg.
20. 19 December 1975 LV s/n 53721-263. I2P Failure: Launch vehicle failed to orbit. Launch Site: Plesetsk . Launch Complex: LC132.

1976

1. 06 January 1976 LV s/n 53731-269. Cosmos 787 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.
2. 20 January 1976 LV s/n 53749-164. Cosmos 789 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 810 kg.
3. 23 January 1976 LV s/n 53731-285. Cosmos 790 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.
4. 28 January 1976 LV s/n 53731-281. Cosmos 791 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
5. 03 February 1976 LV s/n 53721-282. Cosmos 800 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 650 kg.
6. 12 February 1976 LV s/n 53731-286. Cosmos 803 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 650 kg.
7. 12 March 1976 LV s/n 53746-310. Cosmos 807 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 400 kg.
8. 06 April 1976 LV s/n 53731-280. Cosmos 812 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.
9. 28 April 1976 LV s/n 53746-301. Cosmos 816 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 950 kg.
10. 28 May 1976 LV s/n 53716-328. Cosmos 822 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 550 kg.
11. 03 June 1976 LV s/n 53731-283. Cosmos 823 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 650 kg.
12. 15 June 1976 LV s/n 53731-277. Cosmos 830 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
13. 19 June 1976 LV s/n 53731-276. Intercosmos 15 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 550 kg.
14. 29 June 1976 LV s/n 53731-284. Cosmos 836 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
15. 09 July 1976 LV s/n 53716-324. Cosmos 839 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 400 kg.
16. 15 July 1976 LV s/n 53746-304. Cosmos 841 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
17. 21 July 1976 LV s/n 53731-266. Cosmos 842 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 650 kg.
18. 26 July 1976 LV s/n 53746-316. Intercosmos 16 Launch Site: Kapustin Yar . Launch Complex: LC107/2. Total Payload Mass: 550 kg.

19. 27 July 1976 LV s/n 53746-307. Cosmos 845 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.
20. 29 July 1976 LV s/n 53716-329. Cosmos 846 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 650 kg.
21. 29 September 1976 LV s/n 53716-333. Cosmos 858 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 750 kg.
22. 29 October 1976 LV s/n 53772-414. Cosmos 864 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 810 kg.
23. 02 December 1976 LV s/n 53731-273. Cosmos 870 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.
24. 07 December 1976 LV s/n 53716-330. Cosmos 878 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
25. 09 December 1976 LV s/n 53719-153. Cosmos 880 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 650 kg.
26. 15 December 1976 LV s/n 53782-426. Cosmos 883 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 810 kg.
27. 27 December 1976 LV s/n 53721-255. Cosmos 885 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.
28. 27 December 1976 LV s/n 65072-415. Cosmos 887 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 810 kg.

1977

1. 20 January 1977 LV s/n 53719-155. Cosmos 890 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
2. 02 February 1977 LV s/n 53746-306. Cosmos 891 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
3. 15 February 1977 LV s/n 53721-261. Cosmos 893 Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 550 kg.
4. 21 February 1977 LV s/n 47182-428. Cosmos 894 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
5. 25 March 1977 LV s/n 53749-159. Cosmos 899 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
6. 30 March 1977 LV s/n 53749-168. Cosmos 900 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
7. 27 April 1977 LV s/n 53731-287. Cosmos 906 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 550 kg.
8. 19 May 1977 LV s/n 53791-156. Cosmos 909 Launch Site: Plesetsk . Total Payload Mass: 650 kg.
9. 25 May 1977 LV s/n 53799-163. Cosmos 911 Launch Site: Plesetsk . Total Payload Mass: 700 kg.

10. 31 May 1977 LV s/n 53749-161. Cosmos 913 Launch Site: Plesetsk . Total Payload Mass: 550kg.
11. 17 June 1977 LV s/n 47182-422. Signe 3 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 102 kg.
12. 01 July 1977 LV s/n 53749-162. Cosmos 923 Launch Site: Plesetsk . Total Payload Mass: 750kg.
13. 05 July 1977 LV s/n 53746-303. Cosmos 924 Launch Site: Plesetsk . Total Payload Mass: 900kg.
14. 08 July 1977 LV s/n 53731-262. Cosmos 926 Launch Site: Plesetsk . Total Payload Mass: 810kg.
15. 13 July 1977 LV s/n 53716-331. Cosmos 928 Launch Site: Plesetsk . Total Payload Mass: 810kg.
16. 19 July 1977 LV s/n 53721-264. Cosmos 930 Launch Site: Plesetsk . Total Payload Mass: 2,750 kg.
17. 22 July 1977 LV s/n 53731-267. Cosmos 933 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
18. 24 August 1977 LV s/n 53716-326. Cosmos 945 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
19. 13 September 1977 LV s/n 65082-436. Cosmos 951 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
20. 24 September 1977 LV s/n 53731-278. Intercosmos 17 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 550 kg.
21. 21 October 1977 LV s/n 53716-325. Cosmos 959 Launch Site: Plesetsk . Total Payload Mass: 650 kg.
22. 25 October 1977 LV s/n 53746-309. Cosmos 960 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
23. 28 October 1977 LV s/n 53768-313. Cosmos 962 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
24. 24 November 1977 LV s/n 53746-302. Cosmos 963 Launch Site: Plesetsk . Total Payload Mass: 650 kg.
25. 29 November 1977 - **Failure**
26. 08 December 1977 LV s/n 65068-308. Cosmos 965 Launch Site: Plesetsk . Total Payload Mass: 550 kg.
27. 13 December 1977 LV s/n 53716-332. Cosmos 967 Launch Site: Plesetsk . Total Payload Mass: 650 kg.
28. 16 December 1977 LV s/n 53746-305. Cosmos 968 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
29. 23 December 1977 LV s/n 53716-322. Cosmos 971 Launch Site: Plesetsk . Total Payload Mass: 810 kg.

1978

1. 10 January 1978 LV s/n 53716-319. Cosmos 981 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
2. 17 January 1978 LV s/n 53716-327. Cosmos 985 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
3. 17 February 1978 LV s/n 53746-312. Cosmos 990 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
4. 28 February 1978 LV s/n 53716-323. Cosmos 991 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
5. 15 March 1978 LV s/n 53746-315. Cosmos 994 Launch Site: Plesetsk . Total Payload Mass: 920 kg.
6. 28 March 1978 LV s/n 53746-314. Cosmos 996 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
7. 31 March 1978 LV s/n 53768-307. Cosmos 1000 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
8. 12 May 1978 LV s/n 53746-318. Cosmos 1006 Launch Site: Plesetsk . Total Payload Mass: 1,120 kg.
9. 17 May 1978 LV s/n 53798-316. Cosmos 1008 Launch Site: Plesetsk . Total Payload Mass: 1,080 kg.
10. 23 May 1978 LV s/n 53768-310. Cosmos 1011 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
11. 08 June 1978 LV s/n 53716-321. Cosmos 1019 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
12. 21 June 1978 LV s/n 53716-317. Cosmos 1023 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
13. 27 July 1978 LV s/n 53716-313. Cosmos 1027 Launch Site: Plesetsk . Total Payload Mass: 920 kg.
14. 04 October 1978 LV s/n 53782-429. Cosmos 1039 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
15. 24 October 1978 LV s/n 65055-106. Magion 1 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 1,065 kg.
16. 17 November 1978 LV s/n 53755-111. Cosmos 1048 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
17. 05 December 1978 LV s/n 53716-320. Cosmos 1058 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
18. 15 December 1978 LV s/n 53782-408. Cosmos 1062 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
19. 20 December 1978 LV s/n 47182-425. Cosmos 1064 Launch Site: Plesetsk , **Failure**. Launch Complex: LC132. Total Payload Mass: 1,025 kg.

20. 23 December 1978 LV s/n 65068-305. Cosmos 1065 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 1,170 kg.
21. 26 December 1978 LV s/n 53782-430. Cosmos 1067 Launch Site: Plesetsk . Total Payload Mass: 880 kg.

1979

1. 16 January 1979 LV s/n 47182-437. Cosmos 1072 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
2. 08 February 1979 LV s/n 53782-417. Cosmos 1075 Launch Site: Plesetsk . Total Payload Mass: 1,080 kg.
3. 27 February 1979 LV s/n 47155-107. Intercosmos 19 Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 1,015 kg.
4. 15 March 1979 LV s/n 47168-312. Cosmos 1085 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
5. 21 March 1979 LV s/n 47172-413. Cosmos 1089 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
6. 07 April 1979 LV s/n 65082-424. Cosmos 1091 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
7. 12 April 1979 LV s/n 53782-423. Cosmos 1092 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
8. 31 May 1979 LV s/n 65082-418. Cosmos 1104 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
9. 07 June 1979 LV s/n 65055-109. Bhaskara 1 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 441 kg.
10. 28 June 1979 LV s/n 53768-304. Cosmos 1110 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
11. 06 July 1979 LV s/n 65075-124. Cosmos 1112 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 1,190 kg.
12. 11 July 1979 LV s/n 47155-104. Cosmos 1114 Launch Site: Plesetsk . Total Payload Mass: 1,080 kg.
13. 28 August 1979 LV s/n 47182-419. Cosmos 1125 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
14. 26 September 1979 LV s/n 47147-243. Cosmos 1130 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
15. 11 October 1979 LV s/n 47172-407. Cosmos 1140 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
16. 16 October 1979 LV s/n 47172-410. Cosmos 1141 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
17. 01 November 1979 LV s/n 53755-105. Intercosmos 20 Launch Site: Plesetsk . Launch Complex: LC132/2. Total Payload Mass: 1,100 kg.

18. 05 December 1979 LV s/n 47168-309. Cosmos 1146 Launch Site: Plesetsk . Total Payload Mass: 1,000 kg.

1980

1. 14 January 1980 LV s/n 65067-248. Cosmos 1150 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
2. 25 January 1980 LV s/n 47164-249. Cosmos 1153 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
3. 12 February 1980 LV s/n 53772-402. Cosmos 1159 Launch Site: Plesetsk . Total Payload Mass: 320kg.
4. 18 March 1980 LV s/n 65098-314. Cosmos 1168 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
5. 27 March 1980 LV s/n 65098-311. Cosmos 1169 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
6. 03 April 1980 LV s/n 47198-315. Cosmos 1171 Launch Site: Plesetsk . Total Payload Mass: 650 kg.
7. 14 May 1980 LV s/n 53783-456. Cosmos 1179 Launch Site: Plesetsk . Total Payload Mass: 650 kg.
8. 20 May 1980 LV s/n 47175-116. Cosmos 1181 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
9. 06 June 1980 LV s/n 47168-306. Cosmos 1186 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
10. 01 July 1980 LV s/n 47182-416. Cosmos 1190 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
11. 09 July 1980 LV s/n 65072-409. Cosmos 1199 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
12. 31 July 1980 LV s/n 47175-122. Cosmos 1204 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 900 kg.
13. 14 October 1980 LV s/n 47172-401. Cosmos 1215 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
14. 05 December 1980 LV s/n 65098-317. Cosmos 1225 Launch Site: Plesetsk . Total Payload Mass: 810kg.
15. 10 December 1980 LV s/n 65083-464. Cosmos 1226 Launch Site: Plesetsk . Total Payload Mass: 680kg.
16. 24 December 1980 LV s/n 47198-318. Cosmos 1234 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.

1981

1. 16 January 1981 LV s/n 53798-319. Cosmos 1238 Launch Site: Plesetsk . Total Payload Mass: 550 kg.
2. 21 January 1981 LV s/n 65082-427. Cosmos 1241 Launch Site: Plesetsk . Total Payload Mass: 650 kg.

3. 06 February 1981 LV s/n 53793-478. Intercosmos 21 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 550 kg.
4. 12 February 1981 LV s/n 65098-320. Cosmos 1244 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
5. 06 March 1981 LV s/n 53767-247. Cosmos 1256 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
6. 09 April 1981 LV s/n 53798-322. Cosmos 1263 Launch Site: Plesetsk . Total Payload Mass: 550 kg.
7. 07 May 1981 LV s/n 47198-321. Cosmos 1269 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
8. 04 June 1981 LV s/n 65098-323. Cosmos 1275 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
9. 06 August 1981 LV s/n 65055-112. Cosmos 1287 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
10. 12 August 1981 LV s/n 47198-324. Cosmos 1295 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
11. 28 August 1981 LV s/n 47155-101. Cosmos 1302 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
12. 04 September 1981 Cosmos 1304 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 810 kg.
13. 18 September 1981 LV s/n 47195-113. Cosmos 1308 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
14. 23 September 1981 LV s/n 53719-527. Cosmos 1310 Launch Site: Plesetsk .
15. 29 September 1981 LV s/n 53775-114. Cosmos 1311 Launch Site: Plesetsk .
16. 20 November 1981 LV s/n 47193-468. Bhaskara 2 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 444 kg.
17. 28 November 1981 LV s/n 65093-121. Cosmos 1322 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 320 kg.
18. 17 December 1981 LV s/n 53775-120. Radio-7; Radio Sputnik 7 Launch Site: Plesetsk .

1982

1. 07 January 1982 LV s/n 53755-102. Cosmos 1331 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
2. 14 January 1982 LV s/n 53767-250. Cosmos 1333 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
3. 29 January 1982 LV s/n 65075-115. Cosmos 1335 Launch Site: Plesetsk . Total Payload Mass: 550 kg.
4. 18 February 1982 LV s/n 65067-261. Cosmos 1339 Launch Site: Plesetsk . Total Payload Mass: 810kg.
5. 04 March 1982 LV s/n 53739-530. Romb, Failure: Wrong launch operations. Launch Site: Kapustin Yar . Launch Complex: LC107.

6. 24 March 1982 LV s/n 53767-253. Cosmos 1344 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
7. 31 March 1982 LV s/n 53747-241. Cosmos 1345 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
8. 08 April 1982 LV s/n 65047-242. Cosmos 1349 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
9. 21 April 1982 LV s/n 53767-256. Cosmos 1351 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 550 kg.
10. 28 April 1982 LV s/n 47175-125. Cosmos 1354 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
11. 06 May 1982 LV s/n 53775-123. Cosmos 1364 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
12. 01 June 1982 LV s/n 47167-258. Cosmos 1371 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
13. 06 June 1982 LV s/n 65067-257. Cosmos 1375 Launch Site: Plesetsk . Total Payload Mass: 650 kg.
14. 18 June 1982 LV s/n 53783-460. Cosmos 1380 Launch Site: Plesetsk . Launch Complex: LC132, Failure. Total Payload Mass: 810 kg.
15. 30 June 1982 LV s/n 47183-457. Cosmos 1383 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 810 kg.
16. 07 July 1982 LV s/n 65093-473. Cosmos 1386 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
17. 21 July 1982 LV s/n 65055-103. Cosmos 1392 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
18. 27 July 1982 LV s/n 53793-472. Cosmos 1397 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 550 kg.
19. 30 August 1982 LV s/n 65047-236. Strela-2, Failure: Launch vehicle failed to orbit. Launch Site: Plesetsk . Launch Complex: LC132.
20. 19 October 1982 LV s/n 53734-137. Cosmos 1417 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
21. 21 October 1982 LV s/n 47193-471. Cosmos 1418 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 550 kg.
22. 11 November 1982 LV s/n 47167-252. Cosmos 1420 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
23. 24 November 1982 LV s/n 47183-465. Strela-1M, Failure: Launch vehicle failed to orbit. Launch Site: Plesetsk . Launch Complex: LC132.
24. 29 December 1982 LV s/n 57783-454. Cosmos 1427 Launch Site: Plesetsk . Total Payload Mass: 2,200 kg.

1983

1. 12 January 1983 LV s/n 65093-479. Cosmos 1428 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
2. 19 January 1983 LV s/n 53793-481. Cosmos 1430 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
3. 25 January 1983 LV s/n 47193-480. Romb, Failure: **Launch vehicle failed to orbit**. Launch Site: Plesetsk . Launch Complex: LC132.
4. 24 March 1983 LV s/n 53739-548. Cosmos 1447 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
5. 30 March 1983 LV s/n 65019-522. Cosmos 1448 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
6. 06 April 1983 LV s/n 53719-512. Cosmos 1450 Launch Site: Plesetsk .
7. 12 April 1983 LV s/n 65019-519. Cosmos 1452 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
8. 19 April 1983 LV s/n 47119-520. Cosmos 1453 Launch Site: Plesetsk . Total Payload Mass: 550 kg.
9. 06 May 1983 LV s/n 65019-513. Cosmos 1459 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
10. 19 May 1983 LV s/n 47119-511. Cosmos 1463 Launch Site: Plesetsk . Total Payload Mass: 550 kg.
11. 24 May 1983 LV s/n 47139-541. Cosmos 1464 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
12. 26 May 1983 LV s/n 65083-458. Cosmos 1465 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 550 kg.
13. 06 July 1983 LV s/n 47183-459. Cosmos 1480 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
14. 03 August 1983 LV s/n 53783-463. Cosmos 1486 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
15. 31 August 1983 LV s/n 47139-547. Cosmos 1494 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 550 kg.
16. 30 September 1983 LV s/n 65093-482. Cosmos 1501 Launch Site: Plesetsk .
17. 05 October 1983 LV s/n 65039-540. Cosmos 1502 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
18. 12 October 1983 LV s/n 65039-543. Cosmos 1503 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
19. 26 October 1983 LV s/n 47122-331. Cosmos 1506 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
20. 11 November 1983 LV s/n 65093-470. Cosmos 1508 Launch Site: Plesetsk . Total Payload Mass: 550 kg.

21. 08 December 1983 LV s/n 65019-528. Cosmos 1513 Launch Site: Plesetsk . Total Payload Mass: 810 kg.

1984

1. 05 January 1984 LV s/n 47119-529. Cosmos 1527 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
2. 11 January 1984 LV s/n 65039-546. Cosmos 1531 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
3. 26 January 1984 LV s/n 53793-469. Cosmos 1534 Launch Site: Plesetsk .
4. 02 February 1984 LV s/n 47139-532. Cosmos 1535 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
5. 21 February 1984 LV s/n 65039-537. Cosmos 1538 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
6. 11 May 1984 LV s/n 53739-533. Cosmos 1550 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
7. 17 May 1984 LV s/n 47139-538. Cosmos 1553 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
8. 29 May 1984 LV s/n 65039-531. Cosmos 1561 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
9. 08 June 1984 LV s/n 53739-542. Cosmos 1570 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
10. 21 June 1984 LV s/n 53719-521. Cosmos 1574 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
11. 27 June 1984 LV s/n 65039-549. Cosmos 1577 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
12. 28 June 1984 LV s/n 47134-133. Cosmos 1578 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 550 kg.
13. 13 September 1984 LV s/n 53739-539. Cosmos 1598 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
14. 27 September 1984 LV s/n 53796-180. Cosmos 1601 Launch Site: Plesetsk .
15. 11 October 1984 LV s/n 53734-125. Cosmos 1605 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
16. 15 November 1984 LV s/n 47139-124. Cosmos 1610 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
17. 20 December 1984 LV s/n 47134-127. Cosmos 1615 Launch Site: Plesetsk .

1985

1. 17 January 1985 LV s/n 65034-138. Cosmos 1624 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
2. 01 February 1985 LV s/n 47144-445. Cosmos 1627 Launch Site: Plesetsk . Total Payload Mass: 810 kg.

3. 27 February 1985 LV s/n 47134-139. Cosmos 1631 Launch Site: Plesetsk .
4. 14 March 1985 LV s/n 53744-146. Cosmos 1634 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
5. 21 March 1985 LV s/n 53734-134. Cosmos 1642 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
6. 30 May 1985 LV s/n 47144-148. Cosmos 1655 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
7. 19 June 1985 LV s/n 65044-147. Cosmos 1662 Launch Site: Baikonur .
8. 04 September 1985 LV s/n 65011-241. Cosmos 1680 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
9. 02 October 1985 LV s/n 65044-153. Cosmos 1688 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 550 kg.
10. 23 October 1985 LV s/n 65034-135. Parus, Failure: Wrong launch operations. Launch Site: Plesetsk . Launch Complex: LC133.
11. 28 November 1985 LV s/n 47122-346. Cosmos 1704 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
12. 19 December 1985 LV s/n 65022-348. Cosmos 1709 Launch Site: Plesetsk . Total Payload Mass: 810 kg.

1986

1. 09 January 1986 LV s/n 47122-337. Cosmos 1721 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
2. 16 January 1986 LV s/n 53744-152. Cosmos 1725 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
3. 23 January 1986 LV s/n 47122-334. Cosmos 1727 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
4. 18 April 1986 LV s/n 53726-198. Cosmos 1741 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
5. 23 May 1986 LV s/n 53772-362. Cosmos 1745 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
6. 06 June 1986 LV s/n 47172-364. Cosmos 1754 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
7. 19 June 1986 LV s/n 53722-341. Cosmos 1759 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
8. 16 July 1986 LV s/n 53722-365. Cosmos 1763 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
9. 03 September 1986 LV s/n 65022-342. Cosmos 1776 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
10. 10 September 1986 LV s/n 47196-164. Cosmos 1777 Launch Site: Plesetsk . Total Payload Mass: 700kg.

11. 27 October 1986 LV s/n 53748-411. Cosmos 1788 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
12. 13 November 1986 LV s/n 53748-414. Cosmos 1791 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
13. 21 November 1986 LV s/n 53796-168. Cosmos 1801 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
14. 25 November 1986 LV s/n 47122-349. Cosmos 1802 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
15. 17 December 1986 LV s/n 53772-353. Cosmos 1808 Launch Site: Plesetsk . Total Payload Mass: 810 kg.

1987

1. 21 January 1987 LV s/n 47172-361. Cosmos 1814 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
2. 22 January 1987 LV s/n 65048-415. Cosmos 1815 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 700 kg.
3. 29 January 1987 LV s/n 65096-172. Cosmos 1816 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
4. 18 February 1987 LV s/n 65072-354. Cosmos 1821 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
5. 09 June 1987 LV s/n 47196-176. Cosmos 1850 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
6. 16 June 1987 LV s/n 65026-184. Cosmos 1853 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
7. 23 June 1987 LV s/n 65026-202. Cosmos 1861 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
8. 07 July 1987 LV s/n 53796-177. Cosmos 1864 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
9. 14 July 1987 LV s/n 47196-161. Cosmos 1868 Launch Site: Plesetsk . Total Payload Mass: 700 kg.
10. 14 October 1987 LV s/n 53726-186. Cosmos 1891 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
11. 01 December 1987 LV s/n 65035-621. Cosmos 1898 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
12. 15 December 1987 LV s/n 53726-183. Cosmos 1902 Launch Site: Plesetsk .
13. 23 December 1987 LV s/n 53711-281. Cosmos 1904 Launch Site: Plesetsk . Total Payload Mass: 810 kg.

1988

1. 11 March 1988 LV s/n 47161-263. Cosmos 1926 Launch Site: Plesetsk . Total Payload Mass: 320kg.

2. 22 March 1988 LV s/n 47111-221. Cosmos 1934 Launch Site: Plesetsk . Total Payload Mass: 700kg.
3. 05 April 1988 LV s/n 47126-188. Cosmos 1937 Launch Site: Plesetsk . Total Payload Mass: 700kg.
4. 21 June 1988 LV s/n 47126-191. Cosmos 1954 Launch Site: Plesetsk . Total Payload Mass: 700kg.
5. 14 July 1988 LV s/n 47111-224. Cosmos 1958 Launch Site: Plesetsk .
6. 19 July 1988 LV s/n 65096-175. Cosmos 1959 Launch Site: Plesetsk . Total Payload Mass: 700kg.
7. 28 July 1988 LV s/n 65026-187. Cosmos 1960 Launch Site: Plesetsk .

1989

1. 26 January 1989 LV s/n 65079-812. Cosmos 1992 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
2. 14 February 1989 LV s/n 53726-192. Cosmos 2002 Launch Site: Plesetsk . Total Payload Mass: 500 kg.
3. 22 February 1989 LV s/n 47111-236. Cosmos 2004 Launch Site: Plesetsk . Total Payload Mass: 825kg.
4. 24 March 1989 LV s/n 65011-232. Cosmos 2009 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
5. 04 April 1989 LV s/n 47126-194. Cosmos 2016 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
6. 07 June 1989 LV s/n 53711-225. Cosmos 2026 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
7. 14 June 1989 LV s/n 53761-249. Cosmos 2027 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
8. 04 July 1989 LV s/n 65061-250. Nadezhda 1 Launch Site: Plesetsk . Total Payload Mass: 825kg.
9. 25 July 1989 LV s/n 65061-256. Cosmos 2034 Launch Site: Plesetsk . Total Payload Mass: 825 kg.

1990

1. 18 January 1990 LV s/n 65061-247. Cosmos 2056 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
2. 06 February 1990 LV s/n 53711-237. Cosmos 2059 Launch Site: Plesetsk . Total Payload Mass: 500 kg.
3. 27 February 1990 LV s/n 53711-228. Nadezhda 2 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
4. 20 March 1990 LV s/n 47161-245. Cosmos 2061 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
5. 06 April 1990 LV s/n 65061-259. Cosmos 2069 Launch Site: Plesetsk . Total Payload Mass: 360 kg.

6. 20 April 1990 LV s/n 53726-195. Cosmos 2074 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
7. 25 April 1990 LV s/n 65061-253. Cosmos 2075 Launch Site: Plesetsk . Total Payload Mass: 1,000 kg.
8. 28 August 1990 LV s/n 53711-240. Cosmos 2098 Launch Site: Plesetsk . Total Payload Mass: 550 kg.
9. 14 September 1990 LV s/n 65048-403. Cosmos 2100 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
10. 10 December 1990 LV s/n 47126-203. Cosmos 2112 Launch Site: Plesetsk . Total Payload Mass: 900kg.

1991

1. 29 January 1991 LV s/n 53744-158. Oscar 21 Launch Site: Plesetsk . Total Payload Mass: 600kg.
2. 05 February 1991 LV s/n 47148-407. Cosmos 2123 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
3. 12 February 1991 LV s/n 47187-204. Cosmos 2131 Launch Site: Plesetsk . Total Payload Mass: 320 kg.
4. 26 February 1991 LV s/n 47168-254. Cosmos 2135 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
5. 12 March 1991 LV s/n 65048-406. Nadezhda 3 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
6. 19 March 1991 LV s/n 53448-417. Cosmos 2137 Launch Site: Plesetsk . Total Payload Mass: 1,000 kg.
7. 14 April 1991 LV s/n 47148-401. Cosmos 2142 Launch Site: Plesetsk . Total Payload Mass: 810 kg.
8. 11 June 1991 LV s/n 47159-819. Cosmos 2150 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
9. 25 June 1991 LV s/n 65061-262. Romb Failure: **Launch vehicle failed to orbit**. Launch Site: Plesetsk . Launch Complex: LC132.
10. 22 August 1991 LV s/n 53778-429. Cosmos 2154 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
11. 10 October 1991 LV s/n 53778-420. Cosmos 2164 Launch Site: Plesetsk . Total Payload Mass: 750 kg.
12. 27 November 1991 LV s/n 65048-409. Cosmos 2173 Launch Site: Plesetsk . Total Payload Mass: 825 kg.

1992

1. 18 February 1992 LV s/n 65078-418. Cosmos 2180 Launch Site: Plesetsk . Total Payload Mass: 825kg.
2. 10 March 1992 LV s/n 53778-423. Cosmos 2181 Launch Site: Plesetsk . Total Payload Mass: 825 kg.

3. 15 April 1992 LV s/n 47178-419. Cosmos 2184 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
4. 03 June 1992 LV s/n 53742-114. Cosmos 2189 Launch Site: Plesetsk . Total Payload Mass: 360 kg.
5. 02 July 1992 LV s/n 65072-427. Cosmos 2195 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
6. 12 August 1992 LV s/n 65078-421. Cosmos 2208 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
7. 29 October 1992 LV s/n 65078-424. Cosmos 2218 Launch Site: Plesetsk . Total Payload Mass: 825 kg.

1993

1. 12 January 1993 LV s/n 53778-426. Cosmos 2230 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
2. 09 February 1993 LV s/n 47178-428. Cosmos 2233 Launch Site: Plesetsk . Total Payload Mass: 825kg.
3. 01 April 1993 LV s/n 47178-431. Cosmos 2239 Launch Site: Plesetsk . Total Payload Mass: 825 kg.
4. 16 June 1993 LV s/n 47135-601. Cosmos 2251 Launch Site: Plesetsk . Total Payload Mass: 900 kg.
5. 26 October 1993 LV s/n 65065-624. Cosmos 2265 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 500 kg.
6. 02 November 1993 LV s/n 53735-608. Cosmos 2266 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 825 kg.

1994

1. 26 April 1994 Cosmos 2279 Launch Site: Plesetsk . Launch Complex: LC133. Total Payload Mass: 825 kg.
2. 14 July 1994 Nadezhda 4 Launch Site: Plesetsk . Launch Complex: LC133. Total Payload Mass: 825 kg.
3. 02 August 1994 Cosmos 2285 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 825 kg.
4. 27 September 1994 Cosmos 2292 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 500 kg.
5. 20 December 1994 Cosmos 2298 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 900 kg.

1995

1. 24 January 1995 Tsikada Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 966 kg.
2. 02 March 1995 Cosmos 2306 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 1,000 kg.

3. 22 March 1995 Cosmos 2310 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 825 kg.
4. 05 July 1995 Cosmos 2315 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 825 kg.
5. 06 October 1995 Cosmos 2321 Launch Site: Plesetsk . Launch Complex: LC132., **Failure**, Total Payload Mass: 825 kg.

1996

1. 16 January 1996 Cosmos 2327 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 825 kg.
2. 24 April 1996 Cosmos 2332 Launch Site: Plesetsk . Launch Complex: LC132/1.
3. 05 September 1996 Oscar 30 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 825 kg.
4. 20 December 1996 Cosmos 2336 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 825 kg.

1997

1. 17 April 1997 Cosmos 2341 Launch Site: Plesetsk . Launch Complex: LC132/1. Total Payload Mass: 825 kg.
2. 23 September 1997 FAISAT-2V Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 825 kg.

1998

1. 10 December 1998 Nadezhda 5 Launch Site: Plesetsk . Launch Complex: LC132. Total Payload Mass: 30 kg.
2. 24 December 1998 Cosmos 2361 Launch Site: Plesetsk . Launch Complex: LC132.

1999

1. 28 April 1999 ABRIXAS and Megsat-0 Launch Site: Kapustin Yar . Launch Complex: LC107. Total Payload Mass: 584 kg.
2. 26 August 1999 Cosmos 2366 Launch Site: Plesetsk .

2000

1. 28 Jun 2000 Nadezda, Snap, Tsinghua, Plesetsk, SSO
2. 15 July 2000 CHAMP, MITA, BIRD-Rubin, Plesetsk
3. 21 November 2000, Quick Bird, Plesetsk, Launch services by Puskovie Usługi, Moscow, **Failure**

65MP

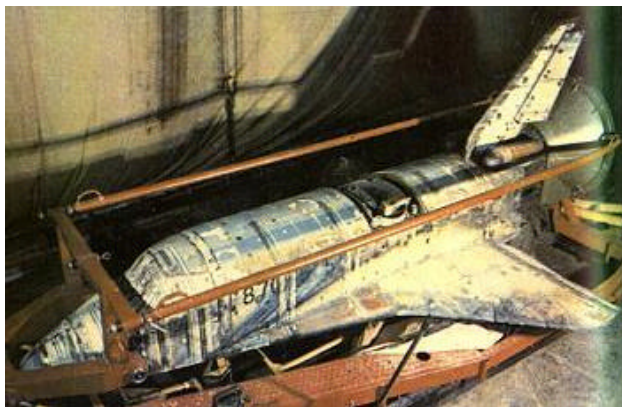
Adaptation of 11K65M launcher for suborbital and single orbit test of subscale prototypes of Spiral and Buran manned spaceplanes (BOR-4 and BOR-5).

Launches: 337
 Failures: 6
 Success Rate: 98,2%

First Launch Date: 1973
 Last Launch Date: 1999

Liftoff Thrust: 50,696 kgf
 Total Mass: 107,500 kg
 Core Diameter: 2.4 m
 Total Length: 26.3 m

The aerodynamic characteristics of Buran at hypersonic speeds were validated by the BOR-5 1:8 sub-scale model of Buran. The BOR-5 was boosted on sub-orbital trajectories on altitudes of 100 km and velocities of from 4,000 to 7,300 km/s. These proved the handling characteristics, aerodynamic moment, and control effectiveness from Mach 1.5 to Mach 17.5, at Reynolds numbers of from 1.05 to 2.1 and angles of attack from 15 to 40 degrees. They also allowed study of flow separation at the fuselage surface and thermodynamic characteristics of the design. Final results indicated a lift-to-drag ratio of 1.3 at hypersonic speed, 5.0 at Mach 2, and 5.6 at subsonic speed. Typical trajectory: ascent to 120 km; pitch down to drive model in atmosphere at 45 degree at Mach 18.5. None were reflown but at least 4 were recovered.



BOR-5 after flight

