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Note verbale dated 20 December 2024 from the Permanent Mission of the Russian Federation to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the Russian Federation to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), has the honour to transmit data on space launches by the Russian Federation in November 2024 and on previously launched space objects that ceased to exist during that period (see annex).[1]

[1] The data on the space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 6 January 2025.

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Annex

Registration data on space objects launched by the Russian Federation November 2024*

1. In November 2024, the following space objects under the jurisdiction and control of the Russian Federation were launched:

Registration number of space object	*Name of space object, launch vehicle and place of launch*	*Date of launch*	*Basic orbital parameters*				*General function of space object*
			Apogee (km)	*Perigee (km)*	*Inclination (degrees)*	*Period (minutes)*	
3738-2024-013	Ionosfera-M No. 1	5 November 2024	843.8	826.1	98.8	102.1	Monitoring of heliogeophysical conditions
3739-2024-013	Ionosfera-M No. 2	5 November 2024	843.8	825.1	98.8	101.4	Monitoring of heliogeophysical conditions
3740-2024-013	SITRO-AIS-17[a]	5 November 2024	600	585	97.4	96.4	Technological applications
3741-2024-013	SITRO-AIS-21[a]	5 November 2024	600	596	97.4	96.5	Technological applications
3742-2024-013	SITRO-AIS-18[a]	5 November 2024	600	592	97.4	96.3	Technological applications
3743-2024-013	SITRO-AIS-22[a]	5 November 2024	600	592	97.4	96.5	Technological applications
3744-2024-013	SITRO-AIS-19[a]	5 November 2024	600	578	97.4	96.3	Technological applications
3745-2024-013	SITRO-AIS-23[a]	5 November 2024	600	588	97.4	96.4	Technological applications
3746-2024-013	SITRO-AIS-20[a]	5 November 2024	600	574	97.4	96.3	Technological applications
3747-2024-013	SITRO-AIS-24[a]	5 November 2024	600	584	97.4	96.4	Technological applications
3748-2024-013	SITRO-AIS-13[a]	5 November 2024	600	572	97.4	96.2	Technological applications
3749-2024-013	SITRO-AIS-14[a]	5 November 2024	600	570	97.4	96.2	Technological applications
3750-2024-013	SITRO-AIS-15[a]	5 November 2024	600	569	97.4	96.2	Technological applications
3751-2024-013	SITRO-AIS-16[a]	5 November 2024	601	569	97.4	96.2	Technological applications
3752-2024-013	SIT-2086[a]	5 November 2024	501	478	97.4	94.3	Technological applications
3753-2024-013	TUSUR GO[a]	5 November 2024	502	485	97.4	94.3	Technological applications
3754-2024-013	RTU MIREA1[a]	5 November 2024	502	485	97.4	94.3	Technological applications
3755-2024-013	YuZGU-60[a]	5 November 2024	501	476	97.4	94.2	Technological applications
3756-2024-013	SIT-HSE[a]	5 November 2024	502	475	97.4	94.2	Technological applications
3757-2024-013	SamSat-Ionosfera[a]	5 November 2024	503	483	97.4	94.3	Scientific applications
3758-2024-013	SITRO-AIS-41[a]	5 November 2024	503	474	97.4	94.2	Technological applications
3759-2024-013	NORBI-3[a]	5 November 2024	504	481	97.4	94.3	Scientific applications
3760-2024-013	SITRO-AIS-42[a]	5 November 2024	503	474	97.4	94.2	Technological applications

* The registration data are reproduced in the form in which they were received.

Registration number of space object	*Name of space object, launch vehicle and place of launch*	*Date of launch*	*Basic orbital parameters*				*General function of space object*
			Apogee (km)	*Perigee (km)*	*Inclination (degrees)*	*Period (minutes)*	
3761-2024-013	Druzhba ATURK[a]	5 November 2024	504	480	97.4	94.3	Earth remote sensing
3762-2024-013	SITRO-AIS-43[a]	5 November 2024	504	474	97.4	94.2	Technological applications
3763-2024-013	Altair[a]	5 November 2024	505	475	97.4	94.3	Scientific applications
3764-2024-013	SITRO-AIS-44[a]	5 November 2024	506	480	97.4	94.3	Technological applications
3765-2024-013	CSTP-2.1[a]	5 November 2024	506	480	97.4	94.3	Scientific applications
3766-2024-013	Polytech Universe-5[a]	5 November 2024	505	475	97.4	94.3	Technological applications
3767-2024-013	CSTP-2.2[a]	5 November 2024	506	480	97.4	94.3	Scientific applications
3768-2024-013	Khors No. 3[a]	5 November 2024	505	476	97.4	94.3	Scientific applications
3769-2024-013	SXC6-2362 HyperView-1G[a]	5 November 2024	507	480	97.4	94.3	Earth remote sensing
3770-2024-013	MTUCI-1[a]	5 November 2024	506	477	97.4	94.3	Scientific applications
3771-2024-013	Khors No. 4[a]	5 November 2024	506	479	97.4	94.3	Scientific applications
3772-2024-013	Vladivostok-1[a]	5 November 2024	507	480	97.4	94.3	Scientific applications
3773-2024-013	SITRO-AIS-37[a]	5 November 2024	512	493	97.4	94.5	Technological applications
3774-2024-013	Nokhcho[a]	5 November 2024	510	485	97.4	94.4	Technological applications
3775-2024-013	SITRO-AIS-38[a]	5 November 2024	513	496	97.4	94.6	Technological applications
3776-2024-013	Ruzaevka-390[a]	5 November 2024	511	489	97.4	94.5	Technological applications
3777-2024-013	SITRO-AIS-39[a]	5 November 2024	514	498	97.4	94.6	Technological applications
3778-2024-013	Mordovia[a]	5 November 2024	511	492	97.4	94.5	Technological applications
3779-2024-013	SITRO-AIS-40[a]	5 November 2024	515	501	97.4	94.6	Technological applications
3780-2024-013	SXC3-2361 ArcticSat-1[a]	5 November 2024	515	496	97.4	94.5	Scientific applications
3781-2024-013	SITRO-AIS-45[a]	5 November 2024	515	502	97.4	94.6	Technological applications
3782-2024-013	Vizard-ion[a]	5 November 2024	512	498	97.4	94.6	Technological applications
3783-2024-013	SITRO-AIS-46[a]	5 November 2024	515	503	97.4	94.7	Technological applications
3784-2024-013	Gorizont[a]	5 November 2024	512	499	97.4	94.6	Scientific applications
3785-2024-013	SITRO-AIS-47[a]	5 November 2024	515	504	97.4	94.7	Technological applications
3786-2024-013	Polytech Universe-4[a]	5 November 2024	515	501	97.4	94.6	Technological applications
3787-2024-013	SITRO-AIS-48[a]	5 November 2024	515	505	97.4	94.7	Technological applications
3788-2024-013	Colibri-S[a]	5 November 2024	512	502	97.4	94.6	Earth remote sensing
3789-2024-013	CSTP-2.11[a]	5 November 2024	512	503	97.4	94.6	Earth remote sensing

Registration number of space object	*Name of space object, launch vehicle and place of launch*	*Date of launch*	*Basic orbital parameters*				*General function of space object*
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3790-2024-014	Progress MS-29	21 November 2024	237	188	51.7	88.8	Delivery to the International Space Station of fuel, water, oxygen, air, food, scientific equipment and other consumable materials required for the crew, scientific experiments and operation of the Station
3791-2024-015	Kondor-FKA No. 2	30 November 2024	540	511	97.4	94.9	Monitoring of emergency situations

[a] Launched by a Soyuz-2-1b carrier rocket with a Fregat upper stage from the Vostochny launch site as part of a secondary payload accompanying jointly launched satellites Ionosfera-M No. 1 and Ionosfera-M No. 2.

2. In November 2024, the Russian Federation launched the following space objects on behalf of foreign clients:

On 5 November 2024, HodHod, a satellite for technological applications (Islamic Republic of Iran), Earth remote sensing satellite Kosar (Islamic Republic of Iran) and Earth remote sensing satellite ZIMSAT-2 (Zimbabwe) were launched by a Soyuz-2-1b carrier rocket with a Fregat upper stage from the Vostochny launch site as part of a secondary payload accompanying jointly launched satellites Ionosfera-M No. 1 and Ionosfera-M No. 2.

3. The following space objects ceased to exist in November 2024 and were no longer in Earth orbit as at 2400 hours Moscow time on 30 November 2024:

1978-066A (Cosmos-1024), which burned up on 14 November 2024;

2013-030A (Resurs-P No. 1), which burned up on 18 November 2024;

2012–039A (Canopus-V No. 1), which burned up on 19 November 2024;

2024-103A (Progress MS-27), which was deorbited into the Pacific Ocean at a predetermined location on 19 November 2024; fragments of the space object that had not burned up were sunk.