

**Secretariat**

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**Committee on the Peaceful  
Uses of Outer Space****Information furnished in conformity with the Convention  
on Registration of Objects Launched into Outer Space****Note verbale dated 18 November 2021 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 October 2021 and on previously launched space objects that ceased to exist during that period (see annex).<sup>1</sup>

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<sup>1</sup> The data on the space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 27 November 2021.



## Annex

## Registration data on space objects launched by the Russian Federation in October 2021\*

1. In October 2021, 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)	
3573-2021-010	Soyuz MS-19, launched by a Soyuz-2-1a carrier rocket from the Baikonur launch site	5 October 2021	242.0	200.0	51.7	88.6	Delivery to the International Space Station of the crew of Expedition 66, consisting of Anton Nikolaevich Shkaplerov (Russian Federation), commander of the piloted transport vehicle and of Expedition 66, and space flight participants Yulia Sergeevna Peresild (Russian Federation) and Klim Alekseevich Shipenko (Russian Federation)
3574-2021-011	Progress MS-18, launched by a Soyuz-2-1a carrier rocket from the Baikonur launch site	28 October 2021	240.0	193.0	51.7	88.5	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

2. In October 2021, the Russian Federation launched the following space objects on behalf of foreign clients:

On 14 October 2021, 36 OneWeb satellites (mission 49) (United Kingdom of Great Britain and Northern Ireland) were launched by a Soyuz-2-1b carrier rocket with a Fregat upper stage from the Vostochny launch site.

3. The following space objects ceased to exist in October 2021 and were no longer in Earth orbit as at 2400 hours Moscow time on 31 October 2021.

2021-029A (Soyuz MS-18): descent module landed at a predetermined location with members of an International Space Station expedition on 17 October 2021;

2021-081A (Cosmos-2551), which burned up on 20 October 2021.

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