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**Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space****Note verbale dated 13 June 2024 from the Permanent Mission of
Czechia to the United Nations (Vienna) addressed to the Secretary-
General**

The Permanent Mission of Czechia 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 information on the launch of the VZLUSAT-2, Planetum-1, BDSAT and BDSAT-2 satellites (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 31 January 2025.



Annex

Registration information on space objects launched by Czechia*

VZLUSAT-2

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2022-002DF
Name of the space object	VZLUSAT-2
State of registry	Czechia
Other launching States	United States of America
Date and territory or location of the launch	13 January 2022 UTC Cape Canaveral Space Force Station (Space Launch Complex 40 (SLC-40)), United States
Basic orbital parameters	
Nodal period	95.27 minutes
Inclination	95.27 degrees
Apogee	543 kilometres
Perigee	520 kilometres
General function of the space object	VZLUSAT-2 is a 3U CubeSat. The primary payload of the satellite is an experimental optical system designed for Earth exploration. The satellite is also equipped with a gamma- ray burst detector, radiation measurement equipment, a precision attitude control system and an ultra-high frequency communication module.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	Czech Aerospace Research Centre (VZLU)
Website	www.vzlusat2.cz
Launch vehicle	SpaceX Falcon 9

Planetum-1

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2022-057G
Name of the space object	Planetum-1
State of registry	Czechia

* The information was submitted using the form prepared pursuant to General Assembly
resolution [62/101](#) and has been reformatted by the Secretariat.

Other launching States	United States
Date and territory or location of the launch	25 May 2022 UTC Cape Canaveral Space Force Station (SLC-40), United States
Basic orbital parameters	
Nodal period	95 minutes
Inclination	97.5 degrees
Apogee	540 kilometres
Perigee	527.9 kilometres
General function of the space object	Planetum-1 is the eleventh Czech/Czechoslovak satellite. It is a 1U CubeSat-sized nanosatellite that is primarily aimed at education and popularization. The Planetum planetarium is the first institution of its kind in the world to send its own satellite into Earth orbit.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	Observatory and Planetarium Prague (Planetum)
Website	www.planetum.cz/druzice-planetum1/
Launch vehicle	SpaceX Falcon 9

BDSAT

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2022-033U
Name of the space object	BDSAT
State of registry	Czechia
Other launching States	United States
Date and territory or location of the launch	1 April 2022 UTC Cape Canaveral Space Force Station (SLC-40), United States
Basic orbital parameters	
Nodal period	94.53 minutes
Inclination	97.388 degrees
Apogee	505.4 kilometres
Perigee	486.7 kilometres

General function of the space object	BDSAT was a 1U CubeSat supporting the global amateur radio community. The payload consisted of two experiments: the first was aimed at testing pressure transmitters made by company BD SENSORS in space conditions, while the second was aimed at testing the use of supercapacitors as a modern approach to energy storage in satellites.
Date of decay/re-entry/deorbit	8 March 2024 UTC

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Change of status in operations	
Date when space object was no longer functional	25 April 2022
Space object owner or operator	BD SENSORS
Website	www.bdsat.cz/
Launch vehicle	SpaceX Falcon 9
Other information	Detailed analysis revealed a problem in the software code that caused a communication failure on 25 April 2022. Unfortunately, that failure meant that the operator was unable to connect with the satellite and restore it remotely. For that reason, it was decided to launch the backup BDSAT-2 as part of the SpaceX Transporter-6 mission in October 2022.

BDSAT-2

Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2023-001CT
Name of the space object	BDSAT-2
State of registry	Czechia
Other launching States	United States
Date and territory or location of the launch	3 January 2023 UTC Cape Canaveral Space Force Station (SLC-40), United States
Basic orbital parameters	
Nodal period	94.91 minutes
Inclination	97.486 degrees
Apogee	533 kilometres
Perigee	509 kilometres

General function of the space object

BDSAT-2 is a 1U CubeSat. The BDSAT project is aimed at supporting the amateur radio community with several amateur radio services and activities. The secondary objective is to validate a prototype pressure measuring device and test the functionality of that technology in space conditions. As the first part of that technological experiment, the device's measuring function and its suitability for use in satellites in space conditions, as well as the feasibility of such use, will be assessed. The second part of the experiment is to test the use of supercapacitors as a modern solution for energy storage in satellites.

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	BD SENSORS
Website	www.bdsat.cz/
Launch vehicle	SpaceX Falcon 9
