



General Assembly

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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with General Assembly resolution 1721 B (XVI) by States launching objects into orbit or beyond

Note verbale dated 14 December 2022 from the Permanent Mission of the Republic of Moldova to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the Republic of Moldova to the United Nations (Vienna) has the honour to transmit, in conformity with paragraph 1 of General Assembly resolution 1721 B (XVI) of 20 December 1961, information concerning the registration of the TUMnanoSAT satellite, which was launched on 12 August 2022 (see annex).¹

¹ The data on the space object referenced in the annex were entered into the Register of Objects Launched into Outer Space on 19 December 2022.



Annex

Registration data on a space object launched by the Republic of Moldova*

TUMnanoSAT

Committee on Space Research international designator	1998-067UD
Name of the space object	TUMnanoSAT
National designator/registration number	State Register of Radio Frequencies and Radiocommunication Stations/1
State of registry	Republic of Moldova
Other launching States	Japan
Date and territory or location of the launch	12 August 2022 at 0945 hours 15 seconds UTC; Cape Canaveral/Eastern Test Range, United States of America
Basic orbital parameters	
Nodal period	92.68 minutes
Inclination	51.64 degrees
Apogee	410 kilometres
Perigee	408 kilometres
General function of the space object	The TUMnanoSAT nanosatellite has the following missions: <ol style="list-style-type: none"> 1. Educational: <ol style="list-style-type: none"> (a) Testing of the sensors (magnetometers, micro-gyroscopes and solar sensors) of the subsystem to determine the satellite's attitude, in order to optimize the attitude control algorithms; (b) Development of an efficient "satellite-Earth station" communication subsystem; (c) Testing of the solar power supply system in order to obtain the optimal means of distributing the accumulated energy. 2. Research: <ol style="list-style-type: none"> (a) Study of the functionality and behaviour of nanosensors in the conditions of space; (b) Testing of the reliability of electronic components under space radiation conditions.
Space object owner or operator	Technical University of Moldova
Website	https://cnts.utm.md/
Launch vehicle	SpaceX Falcon 9 and Dragon 2 Cargo; International Space Station (ISS) Kibo Module, J-SSOD#22_L1

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