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

Note verbale dated 17 August 2022 from the Permanent Mission of the United Arab Emirates to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the United Arab Emirates 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 additional information concerning the status of the space object MeznSat (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 23 August 2022.

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Annex

Additional information on a space object previously registered by the United Arab Emirates*

MeznSat

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

Committee on Space Research international designator	2020-068D
North American Aerospace Defense Command Catalogue Number (NORAD ID)	46489
Name of space object	MeznSat
State of registry	United Arab Emirates
Other launching States	Russian Federation
Date and territory or location of launch	28 September 2020 at 1120 hours 32 seconds UTC; Plesetsk Cosmodrome, Russian Federation
Basic orbital parameters	
Nodal period	95.8 minutes
Inclination	97.7 degrees
Apogee	575.9 kilometres
Perigee	550.3 kilometres
General function of space object	Earth observation and education. It is a 3U CubeSat for monitoring greenhouse gases using short-wave infrared spectrometry

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

Change of status in operations	
Date when space object is no longer functional	19 April 2022 at 0953 hours 0 seconds UTC
Physical conditions when space object is moved to a disposal orbit	Communication with MeznSat was lost directly after a hard-reset command was sent to it. The anomaly was identified as being most probably caused by a failure in the on-board power management system software, preventing the power management board from booting up after the hard reset. It is likely that the satellite was turned off by the command and failed to boot up after the reset, owing to a software glitch in the power management board. All attempts to command and communicate with the satellite after the hard-reset command did not receive any response from the satellite

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

Space object owner or operator	Khalifa University of Science and Technology
Launch vehicle	Soyuz-2.1b/Fregat
Other information	MeznSat is a 3U CubeSat developed, built and tested primarily by university students to detect greenhouse gas concentrations. The project aims to provide the United Arab Emirates space industry with trained graduates through hands-on experience