



**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 31 August 2021 from the Permanent Mission of  
Germany to the United Nations (Vienna) addressed to the  
Secretary-General**

The Permanent Mission of Germany 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 concerning a space object launched by Germany (see annex).<sup>1</sup>

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<sup>1</sup> The data on the space object referenced in the annex were entered into the Register of Objects Launched into Outer Space on 3 September 2021.



## Annex

### Registration data on a space object launched by Germany\*

#### TUBIN

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

Committee on Space Research international designator	2021-059X
Name of space object	TUBIN
National designator/registration number	D-R090
State of registry	Germany
Other launching States	Argentina, Australia, Belgium, Bulgaria, Finland, Italy, Kuwait, Luxembourg, Mexico, Rwanda, Spain, Switzerland, Thailand, United Arab Emirates, United Kingdom of Great Britain and Northern Ireland and United States of America
Date and territory or location of launch	30 June 2021 at 1931 hours 0 seconds UTC; Cape Canaveral, Florida, United States
Basic orbital parameters	
Nodal period	95.1 minutes
Inclination	97.44 degrees
Apogee	540 kilometres
Perigee	526 kilometres
General function of space object	Satellite is for the demonstration of an infrared payload for remote sensing of vegetation fires

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

Space object owner or operator	Technical University Berlin
Website	<a href="http://www.raumfahrttechnik.tu-berlin.de/menue/forschung/aktuelle_projekte/tubin/parameter/en/">www.raumfahrttechnik.tu-berlin.de/menue/forschung/aktuelle_projekte/tubin/parameter/en/</a>
Launch vehicle	Falcon 9
Other information	The year in which the space object is expected to no longer be functional is 2022

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