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

### Note verbale dated 11 August 2023 from the Permanent Mission of Brazil to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Brazil 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 registration data for the space objects ICEYE X-18/Carcará I, ICEYE X-18/Carcará 2, VCUB-1, SPORT, Pion BR-1, Alfacrux and Amazonas Nexus (see annex).<sup>1</sup>

<sup>&</sup>lt;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 15 August 2023.







## Annex

# **Registration data on space objects launched by Brazil\***

# ICEYE X-18/Carcará 1

Name of the space object	ICEYE X-18/Carcará 1
North American Aerospace Defense Command Catalogue Number (NORAD ID)	52749
Date of launch	25 May 2022
Place of launch	Cape Canaveral, United States of America
Launch vehicle	Falcon-9
Owner of the space object	Brazil
Orbital parameters	
Nodal period	94.96 minutes
Inclination	97.98 degrees
Apogee height	516.1 kilometres
Perigee height	505 kilometres
General function of the space object	Earth observation

### ICEYE X-18/Carcará 2

Name of the space object	ICEYE X-18/Carcará 2
North American Aerospace Defense Command Catalogue Number (NORAD ID)	52758
Date of launch	25 May 2022
Place of launch	Cape Canaveral, United States
Launch vehicle	Falcon-9
Owner of the space object	Brazil
Orbital parameters	
Nodal period	94.96 minutes
Inclination	97.54 degrees
Apogee height	513.6 kilometres
Perigee height	515.5 kilometres
General function of the space object	Earth observation

# VCUB-1

Name of the space object	VCUB-1
North American Aerospace Defense Command Catalogue Number (NORAD ID)	56215
Date of launch	15 April 2023

<sup>\*</sup> The registration data are reproduced in the form in which they were received.

Place of launch	Vandenberg, California, United States
Launch vehicle	Falcon-9
Owner of the space object	Visiona Espacial
Orbital parameters	
Nodal period	94.36 minutes
Inclination	97.40 degrees
Apogee height	495 kilometres
Perigee height	481 kilometres
General function of the space object	Earth observation

# **SPORT**

Name of the space object	SPORT
North American Aerospace Defense Command Catalogue Number (NORAD ID)	55129
Date of launch	29 December 2022
Place of launch	International Space Station (ISS)
Launch vehicle	ISS
Owner of the space object	Technical Aeronautics Institute (ITA)
Orbital parameters	
Nodal period	91.35 minutes
Inclination	51.63 degrees
Apogee height	342 kilometres
Perigee height	339 kilometres
General function of the space object	Scientific satellite

# Píon BR-1

Name of the space object	Píon BR-1
North American Aerospace Defense Command Catalogue Number (NORAD ID)	99480 (temporary)
Date of launch	13 January 2022
Place of launch	Kennedy Space Center, United States
Launch vehicle	Falcon-9
Owner of the space object	Pion Labs
Orbital parameters	
Nodal period	95.20 minutes
Inclination	97.50 degrees
Apogee height	535 kilometres
Perigee height	521 kilometres
General function of the space object	Commercial technology

## Alfacrux

Name of the space object	Alfacrux
North American Aerospace Defense Command Catalogue Number (NORAD ID)	52160
Date of launch	1 April 2022
Place of launch	Cape Canaveral, United States
Launch vehicle	Falcon-9
Owner of the space object	University of Brasilia Foundation
Orbital parameters	
Nodal period	93.59 minutes
Inclination	97.35 degrees
Apogee height	455 kilometres
Perigee height	446 kilometres
General function of the space object	Scientific and communication

#### Amazonas Nexus

Name of the space object	Amazonas Nexus
North American Aerospace Defense Command Catalogue Number (NORAD ID)	55508
Date of launch	7 February 2022
Place of launch	Cape Canaveral, United States
Launch vehicle	Falcon-9
Owner of the space object	Hispasat Canarias, S.L.U.
Orbital parameters	
Nodal period	1,436.15 minutes
Inclination	0.04 degrees
Apogee height	35,793 kilometres
Perigee height	35,783 kilometres
General function of the space object	Telecommunication services