



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

Note verbale dated 10 May 2023 from the Permanent Mission of Australia to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Australia 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 the space objects Centauri 4 (Tyvak-0211) and EG-3 (Tyvak-0173), which were launched on 30 June 2021, and Binar-1 and Cuava-1, which were launched on 6 October 2021 (see annex I), and additional information regarding previously registered space objects EG-1 (Tyvak-0172) and M2 (which separated into M2A and M2B on 10 September 2021) (see annex II).¹

¹ The data on the space objects referenced in the annexes were entered into the Register of Objects Launched into Outer Space on 11 May 2022.



Annex I

Registration information on space objects launched by Australia*

Name	International designator	National designator/ registration number	State of registry	Other launching States	Date of the launch (UTC)	Location of the launch	Basic orbital parameters				General function of the space object	Additional voluntary information		Date of decay/ re-entry/ deorbit
							Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		Space object owner or operator	Launch vehicle	
M2B	2021-023J	01/2021-B	Australia	New Zealand	22 March 2021 2230 hours, 0 seconds	RLLC	95.41	45.0052	557.7	544.9	Support testing of systems designed by the University of New South Wales, including decoupling, artificial intelligence and space situational awareness capabilities	University of New South Wales	Rocket Lab Electron Rocket	-
Centauri 4 (Tyvak-0211)	2021-059V	03/2021	Australia	United States of America	30 June 2021 1931 hours, 0 seconds	CCSFS	95.22	45.0052	557.7	544.9	Communications relay for customer Internet-of Things (IoT) data through S-Band radio	Fleet Space Technologies	SpaceX Falcon 9 (Transporter 2 mission)	-
Binar-1	1998-067SR	04/2021	Australia	United States, Japan	6 October 2021 0920 hours, 0 seconds ^a	ISS ^b	92.797	51.6396	416	405	Technical demonstrator of university designed and built hardware and software	Curtin University	SpaceX Falcon 9 (SPX-23)	30 September 2022
EG-3 (Tyvak-0173)	2021-059P	05/2021	Australia	United States	30 June 2021 1931 hours, 0 seconds	CCSFS	98	96	650	650	EG-3 will be used to expand EchoStar Global's test fleet and bring into use EchoStar's International Telecommunications Union spectrum rights for SIRION-1	EchoStar Global Australia Pty Ltd.	SpaceX Falcon 9 (Transporter 2 mission)	-
Cuava-1	1998-067SU	06/2021	Australia	United States, Japan	6 October 2021 1055 hours, 0 seconds ^a	ISS ^b	92	61.6432	421	418	Scientific research, technology demonstration, linking with the international radio amateur community, national capacity-building	University of Sydney	SpaceX Falcon 9 (SPX-23)	2 September 2022

Abbreviations

Location of the launch: CCSFS, Cape Canaveral Space Force Station, United States; ISS, International Space Station; and RLLC, Mahia Peninsula, New Zealand.

^a Date and time deployed from ISS.

^b Launched to ISS on 29 August 2021 from Kennedy Space Center, United States.

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

Annex II

Additional information on space objects previously registered by Australia*

Name	International designator	National designator/ registration number	State of registry	Other launching States	Registration document	Date of the launch (UTC)	Location of the launch	Basic orbital parameters				General function of the space object	Additional voluntary information	
								Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		Space object owner or operator	Launch vehicle
EG-1 (Tyvak-0172)	2020-059C	02/2020	Australia	United States of America	ST/SG/SER.E/986	31 August 2020 0022 hours, 13 seconds	CCSFS	97	97.87	621	601	Telecommunications	EchoStar Global Australia Pty Ltd.	SpaceX Falcon 9
M2A	2021-023C	01/2021-A	Australia	New Zealand	ST/SG/SER.E/1006	22 March 2021 2230 hours, 0 seconds	RLLC	95.41	45.0029	557.6	545.1	Support testing of systems designed by the University of New South Wales, including decoupling, artificial intelligence and space situational awareness capabilities	University of New South Wales	Rocket Lab Electron Rocket

Abbreviations

Location of the launch: CCSFS, Cape Canaveral Space Force Station, United States; and RLLC, Mahia Peninsula, New Zealand.

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