



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

Note verbale dated 19 January 2024 from the Permanent Mission of New Zealand to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of New Zealand 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 herewith information concerning objects launched into outer space from New Zealand during the period from November to December 2023 (see annex).¹

¹ The data on the space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 22 January 2024.



Annex

Information on space objects launched by New Zealand, including from New Zealand territory, as well as from outside New Zealand territory on the basis of overseas payload permits authorized by New Zealand, during the period from 1 November 2023 to 31 December 2023^{*,}**

I. Objects registered by New Zealand

A. Objects launched by New Zealand during the period from 1 November 2023 to 31 December 2023

International designator	National designator	Name	Date and time of the launch (New Zealand Standard Time)	Other launching States	Basic orbital parameters			General function of the space object	Additional voluntary information			
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)		Perigee (km)	Owner or operator	Launch vehicle	Website
2023-196B	NZ-2023-31	Electron Kick Stage Rocket Body	15 December 2023, 1605 hours	United States of America	96.2	42.0208	580.434	572.278	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2023-196C	NZ-2023-32	Electron Rocket Body	15 December 2023, 1605 hours	United States	90.05	42.0047	349.835	204.106	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com

B. Objects launched outside New Zealand territory, on the basis of overseas payload permits authorized by New Zealand, during the period from 1 November 2023 to 31 December 2023

International designator	National designator	Name	Date and time of the launch (UTC)	State of registry	Other launching States	Basic orbital parameters			General function of the space object	Additional voluntary information		
						Nodal period (minutes)	Inclination (degrees)	Apogee (km)		Perigee (km)	Payload owner or operator	Launch vehicle
None												

* The data are reproduced in the form in which they were received.

** As identified on www.space-track.org.

C. Objects no longer in orbit

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date and time of the launch</i>	<i>General function of the space object</i>	<i>Date of re-entry (New Zealand Standard Time)</i>
2022-026M	NZ-2022-08	SpaceBEENZ-11	15 March 2022 New Zealand Standard Time (NZST)	Communications/Internet of Things (IoT)	8 November 2023
2018-088C	NZ-2018-008	Electron Stage 3	11 November 2018, 1650 hours NZST	Rocket body	10 November 2023
2022-026U	NZ-2022-14	SpaceBEENZ-13	15 March 2022 NZST	Communications/IoT	16 November 2023
2022-026L	NZ-2022-15	SpaceBEENZ-14	15 March 2022 NZST	Communications/IoT	21 November 2023
2022-026W	NZ-2022-13	SpaceBEENZ-12	15 March 2022 NZST	Communications/IoT	13 December 2023
2018-010B	NZ-2018-003	Electron Stage 3	21 January 2018, 0143 hours UTC	Rocket body	17 December 2023
2022-047B	NZ-2022-18	SpaceBEENZ-15	3 May 2022, 1050 hours NZST	Communications/IoT	30 December 2023
2022-047L	NZ-2022-22	SpaceBEENZ-19	3 May 2022, 1050 hours NZST	Communications/IoT	30 December 2023

D. Objects identified in a previous report that remain in orbit but are no longer operational

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date of the launch (UTC)</i>	<i>General function of the space object</i>	<i>Date when the space object was no longer functional (UTC)</i>
None					

E. Objects identified in a previous report that have been moved to a disposal orbit

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date of the launch (UTC)</i>	<i>General function of the space object</i>	<i>Geostationary position (degrees East)</i>	<i>Date when the space object was moved to a disposal orbit</i>	<i>Physical conditions when the space object was moved to a disposal orbit (change in orbit, passivation and other measures recommended in space debris mitigation guidelines)</i>
None							

F. Objects the registration or ownership of which has been transferred from New Zealand to another country

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date of change in supervision (UTC)</i>	<i>Identity of the previous owner or operator</i>	<i>Identity of the new owner or operator</i>	<i>Previous orbital position</i>	<i>New orbital position</i>	<i>Change of function of the space object</i>
None								

G. Objects the registration or ownership of which has been transferred to New Zealand

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date of change in supervision (UTC)</i>	<i>Identity of the previous owner or operator</i>	<i>Identity of the new owner or operator</i>	<i>Previous orbital position</i>	<i>New orbital position</i>	<i>Change of function of the space object</i>
None								

II. Objects launched from New Zealand during previous quarters

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date and time of the launch (New Zealand Standard Time)</i>	<i>Other launching States</i>	<i>Basic orbital parameters</i>			<i>General function of the space object</i>	<i>Additional voluntary information</i>		
					<i>Nodal period (minutes)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>		<i>Perigee (km)</i>	<i>Owner or operator</i>	<i>Launch vehicle</i>
None											

III. Revisions to previously reported information

No revisions.

IV. Notification of space objects launched from New Zealand during the period from 1 November 2023 to 31 December 2023

The following space objects are not registered by New Zealand.

Objects launched by New Zealand

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date and time of the launch (New Zealand Standard Time)</i>	<i>Other launching States</i>	<i>Basic orbital parameters</i>			<i>General function of the space object</i>	<i>Additional voluntary information</i>			
					<i>Nodal period (minutes)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>		<i>Perigee (km)</i>	<i>Payload owner or operator</i>	<i>Launch vehicle</i>	<i>Website</i>
2023-196A	NZ-2023-30	QPS-SAR-5 Tsukuyomi-I	15 December 2023, 1605 hours	Japan	96.21	42.0195	580.255	573.915	Remote sensing	Institute for Q-shu Pioneers of Space	Electron	-

Note: Orbital parameters identified as at 5 January 2024 (source: www.space-track.org).

V. Objects launched by New Zealand that are no longer in orbit

The following space objects are not registered by New Zealand.

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date and time of the launch</i>	<i>Other launching States</i>	<i>General function of the space object</i>	<i>Date of re-entry (UTC)</i>
2020-077H	NZ-2020-15	Flock 4EP 2	28 October 2020, 1021 hours NZST	United States	Remote sensing	1 November 2023
2018-010E	NZ-2018-005	LEMUR 2-Tallhamn-ATC	21 January 2018, 0143 hours UTC	Singapore	Remote sensing	9 November 2023
2020-077J	NZ-2020-17	Flock 4EP 4	28 October 2020, 1021 hours NZST	United States	Remote sensing	25 November 2023
2020-077K	NZ-2020-19	Flock 4EP 6	28 October 2020, 1021 hours NZST	United States	Remote sensing	5 December 2023
2020-077A	NZ-2020-14	Flock 4EP 1	28 October 2020, 1021 hours NZST	United States	Remote sensing	8 December 2023
2020-077C	NZ-2020-22	Flock 4EP 9	28 October 2020, 1021 hours NZST	United States	Remote sensing	12 December 2023

Note: Orbital parameters identified as at 5 January 2024 (source: www.space-track.org).

VI. Notification of space objects launched from New Zealand during previous quarters

The following space objects are not registered by New Zealand.

Objects launched by New Zealand

<i>International designator</i>	<i>National designator</i>	<i>Name</i>	<i>Date and time of the launch (New Zealand Standard Time)</i>	<i>Other launching States</i>	<i>Basic orbital parameters</i>			<i>General function of the space object</i>	<i>Date of re-entry (UTC)</i>	<i>Additional voluntary information</i>		
					<i>Nodal period (minutes)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>			<i>Perigee (km)</i>	<i>Payload owner or operator</i>	<i>Launch vehicle</i>
None												