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

### Note verbale dated 9 November 2023 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 August to October 2023 (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 22 November 2023.



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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 August to 31 October 2023<sup>\*,\*\*</sup>

- I. Objects registered by New Zealand
- A. Objects launched by New Zealand during the period from 1 August to 31 October 2023

					В	Basic orbital parameters				Additional voluntary information		
International designator	National designator	Name	Date and time of the launch (New Zealand time)	Other launching States	Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object	Owner or operator	Launch vehicle	Website
2023-126B	NZ-2023-24	Electron Kick Stage Rocket Body	24 August 2023, 1145 hours	United States of America	97.59	53.01	650	636	Apogee kick stage	Rocket Lab USA	Electron	www.rocketlabusa.com
2023-126C	NZ-2023-25	Electron Rocket Body	24 August 2023, 1145 hours	United States	87.15	52.99	151	115	Booster	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 August to 31 October 2023

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

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

<sup>\*\*</sup> As identified on www.space-track.org.

# C. Objects no longer in orbit

International designator	National designator	Name	Date and time of the launch (New Zealand time)	General function of the space object	Date of re-entry (UTC)
2023-100J	NZ-2023-14	Electron Stage 2 Booster	18 July 2023, 1327 hours	Rocket body	4 August 2023
2023-126C	NZ-2023-25	Electron Rocket Body	24 August 2023, 1145 hours	Booster	11 September 2023
2019-069B	NZ-2019-027	Booster Stage 2	17 October 2019, 1422 hours	Rocket body	14 September 2023
2019-026C	NZ-2019-005	Electron Stage 3	5 May 2019, 1800 hours	Rocket body	15 September 2023
2021-059L	NZ-2022-04	SpaceBEENZ-7	30 June 2021	Communications/ Internet of Things (IoT)	12 September 2023
2021-059N	NZ-2022-05	SpaceBEENZ-8	30 June 2021	Communications/IoT	19 September 2023
2021-059J	NZ-2022-06	SpaceBEENZ-9	30 June 2021	Communications/IoT	15 September 2023
2021-059D	NZ-2022-07	SpaceBEENZ-10	30 June 2021	Communications/IoT	15 September 2023
2020-085A	NZ-2020-26	Electron Kick Stage Rocket Body	20 November 2020, 1520 hours	Rocket body	21 September 2023
2018-104C	NZ-2018-029	Electron Stage 3	16 December 2018, 1933 hours	Rocket body	9 October 2023

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

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

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

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

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

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

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

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

# H. Objects the registration or ownership of which has been transferred from one country to another, excluding New Zealand

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

# II. Revisions to previously reported information

No revisions.

## III. Notification of space objects launched from New Zealand during the period from 1 August to 31 October 2023

The following space objects are not registered by New Zealand.

### **Objects launched by New Zealand**

					В	asic orbital p	parameters	7		Additional voluntary information		
International designator	National designator	Name	Date and time of the launch (New Zealand time)	Other launching States	Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object	Payload owner or operator	Launch vehicle	Website
2023-126A	NZ-2023-03	Capella-11 (Acadia)	24 August 2023, 1145 hours	United States	93.49	42.02	451	439	Synthetic aperture radar remote sensing	Capella Space Corporation	Electron	www.capellaspace.com

Note: Orbital parameters identified as at 2 November 2023 (source: www.space-track.org).

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

International designator	National designator	Name	Date and time of the launch (New Zealand time)	Other launching States	General function of the space object	Date of re-entry (UTC)
2022-047AD	NZ-2022-45	Unicorn-2F	3 May 2022, 1050 hours	Germany	Technology demonstration	6 June 2023
2018-010C	NZ-2018-004	LEMUR 2 Marshall	21 January 2018, 1443 hours	Singapore	Remote sensing	22 August 2023
2018-088H	NZ-2018-012	LEMUR 2 Chanusiak	11 November 2018, 1650 hours	Singapore	Remote sensing	6 September 2023
2018-088F	NZ-2018-011	LEMUR 2 Zupanski	11 November 2018, 1650 hours	Singapore	Remote sensing	5 October 2023
2020-098A	NZ-2020-58	Strix-Alpha	15 December 2020, 2309 hours	Japan	Remote sensing	31 October 2023

The following space objects are not registered by New Zealand.

Note: Orbital parameters identified as at 2 November 2023 (source: www.space-track.org).

### V. 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**

			Date and time	Other	Basi	c orbital par	ameters				Additional voluntar	ry informatio	n
International designator	National designator	Name	of the launch (New Zealand time)	launching States	Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object	f Date of re-entry (UTC)	Payload owner or operator	Launch vehicle	Website
2018-104H	NZ-2018-020	CP11 (ISX)	16 December 2018, 1933 hours	United States	94.41	95.03	499	481	Science	-	California Polytechnic State University	Electron	
2022-047AC	NZ-2022-43	TRSI-2	3 May 2022, 1050 hours	United States	94.94	97.44	521	511	Technology demonstration	-	ACME AtronOmatic	Electron	
2022-047AD	NZ-2022-45	Unicorn-2F	3 May 2022, 1050 hours	Germany	87.94	97.39	184	161	Technology demonstration	6 June 2023	Alba Orbital	Electron	
2022-047AB	NZ-2022-49	Myradar1	3 May 2022, 1050 hours	United States	94.98	97.44	523	512	Technology demonstration	-	ACME AtronOmatic	Electron	
2022-127A	NZ-2022-66	OTB-3-GAZELLE	8 October 2022, 0609 hours	United States	99.88	98.32	763	743	Research and technology	-	General Atomics	Electron	
2022-020D	NZ-2022-73	Strix-Beta Debris	1 March 2022, 0937 hours	Japan	95.97	97.79	577	554	Remote sensing	; -	Synspective Inc.	Electron	
2022-020E	NZ-2022-74	Strix-Beta Debris	1 March 2022, 0937 hours	Japan	95.92	97.75	570	556	Remote sensing	; -	Synspective Inc.	Electron	

Note: Orbital parameters identified as at 2 November 2023 (source: www.space-track.org).