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**Information furnished in conformity with the Convention  
on Registration of Objects Launched into Outer Space****Note verbale dated 8 August 2022 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 December 2018 to June 2022 (see annex).<sup>1</sup>

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<sup>1</sup> The data on space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 17 August 2022.



## 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<sup>\*,\*\*</sup>

#### I. Objects registered by New Zealand

##### A. Objects launched by New Zealand during the period from 1 June 2019 to 30 June 2022

International designator	National designator	Name	Date and time of the launch (New Zealand 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)		Payload owner or operator	Launch vehicle	Website
2019-037D	NZ-2022-53	Electron Kick Stage Rocket Body	29 June 2019, 1630 hours	United States of America	89.13	44.98	243	220	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-034D	NZ-2022-11	Electron Stage 2 Rocket Body	3 April 2022, 0141 hours	United States	87.80	53.00	195	136	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-034E	NZ-2022-12	Electron Kick Stage Rocket Body	3 April 2022, 0141 hours	United States	89.24	53.02	309	165	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-034A	NZ-2022-57	Electron Debris – payload adapter	3 April 2022, 0141 hours	United States	89.14	53.97	191	173	Rocket body – payload adapter	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-047AL	NZ-2022-16	Electron Rocket Body	3 May 2022, 1050 hours	United States	87.66	97.41	190	127	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-047B	NZ-2022-18	SpaceBEENZ-15	3 May 2022, 1050 hours	Not applicable: New Zealand-owned payload holder	95.14	97.45	532	519	Communications and Internet of Things (IoT)	Swarm Technologies Inc. (Swarm NZ Limited)	Electron	-
2022-047C	NZ-2022-19	SpaceBEENZ-16	3 May 2022, 1050 hours	Not applicable: New Zealand-owned payload holder	95.14	97.45	532	519	Communications and IoT	Swarm Technologies Inc. (Swarm NZ Limited)	Electron	-
2022-047D	NZ-2022-20	SpaceBEENZ-17	3 May 2022, 1050 hours	Not applicable: New Zealand-owned payload holder	95.14	97.45	532	519	Communications and IoT	Swarm Technologies Inc. (Swarm NZ Limited)	Electron	-

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

\*\* As identified on [www.space-track.org](http://www.space-track.org).

International designator	National designator	Name	Date and time of the launch (New Zealand 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)		Payload owner or operator	Launch vehicle	Website
2022-047E	NZ-2022-21	SpaceBEENZ-18	3 May 2022, 1050 hours	Not applicable: New Zealand-owned payload holder	95.15	97.45	532	520	Communications and IoT	Swarm Technologies Inc. (Swarm NZ Limited)	Electron	-
2022-047L	NZ-2022-22	SpaceBEENZ-19	3 May 2022, 1050 hours	Not applicable: New Zealand-owned payload holder	95.15	97.45	532	520	Communications and IoT	Swarm Technologies Inc. (Swarm NZ Limited)	Electron	-
2022-047J	NZ-2022-23	SpaceBEENZ-20	3 May 2022, 1050 hours	Not applicable: New Zealand-owned payload holder	95.08	97.45	529	516	Communications and IoT	Swarm Technologies Inc. (Swarm NZ Limited)	Electron	-
2022-047M	NZ-2022-24	SpaceBEENZ-21	3 May 2022, 1050 hours	Not applicable: New Zealand-owned payload holder	95.15	97.45	532	519	Communications and IoT	Swarm Technologies Inc. (Swarm NZ Limited)	Electron	-
2022-047K	NZ-2022-25	SpaceBEENZ-22	3 May 2022, 1050 hours	Not applicable: New Zealand-owned payload holder	95.15	97.45	532	519	Communications and IoT	Swarm Technologies Inc. (Swarm NZ Limited)	Electron	-
2022-070B	NZ-2022-56	Electron Rocket Body	28 June 2022, 2155 hours	United States	87.61	39.10	164	148	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 March 2022 to 30 March 2022

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	Website
2022-026W	NZ-2022-13	SpaceBEENZ-12	15 March 2022	New Zealand	United States	95.10	97.51	544	503	Communications and IoT	Swarm Technologies Inc. (Swarm NZ Limited)	Astra Rocket-3.3	-
2022-026U	NZ-2022-14	SpaceBEENZ-13	15 March 2022	New Zealand	United States	95.10	97.50	544	503	Communications and IoT	Swarm Technologies Inc. (Swarm NZ Limited)	Astra Rocket-3.3	-
2022-026L	NZ-2022-15	SpaceBEENZ-14	15 March 2022	New Zealand	United States	95.10	97.50	544	503	Communications and IoT	Swarm Technologies Inc. (Swarm NZ Limited)	Astra Rocket-3.3	-

*Note:* SpaceBEENZ-12 to 14 were launched outside of New Zealand territory on the basis of overseas payload permits authorized by New Zealand. New Zealand is registering these satellites because the payload permit holders are New Zealand entities.

## 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)
2019-037D	NZ-2022-53	Electron Kick Stage Rocket Body	29 June 2019, 1630 hours	Rocket body	14 April 2022
2022-034D	NZ-2022-11	Electron Stage 2 Rocket Body	3 April 2022, 0141 hours	Rocket body	6 April 2022
2022-034E	NZ-2022-12	Electron Kick Stage Rocket Body	3 April 2022, 0141 hours	Rocket body	11 April 2022
2022-034A	NZ-2022-57	Electron Debris – payload adapter	3 April 2022, 0141 hours	Rocket body	21 June 2022
2022-047AL	NZ-2022-16	Electron Rocket Body	3 May 2022, 1050 hours	Rocket body	18 May 2022
2022-070B	NZ-2022-56	Electron Rocket Body	28 June 2022, 2155 hours	Rocket body	28 June 2022

**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 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 space object was moved to a disposal orbit</i>	<i>Physical conditions when 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 new owner or operator</i>	<i>Identity of the previous 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 new owner or operator</i>	<i>Identity of the previous owner or operator</i>	<i>Previous orbital position</i>	<i>New orbital position</i>	<i>Change of function of the space object</i>
None								

**H. Objects the registration or ownership of which has been transferred from one country to another, excluding 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 new owner or operator</i>	<i>Identity of the previous 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. Revisions to previously reported information

No revisions.

## III. Notification of space objects launched from New Zealand in the period from 1 December 2018 to 30 June 2022

The following space objects are not registered by New Zealand.

### Objects launched by New Zealand

International designator	National designator	Name	Date and time of the launch (New Zealand)	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	Website
2018-104H	NZ-2018-020	CP11 (ISX)	16 December 2018, 1933 hours	United States	94.41	95.03	499	481	Remote sensing	California Polytechnic State University	Electron	
2022-034B	NZ-2022-09	Global-18	3 April 2022, 0141 hours	United States	93.21	53.01	438	425	Remote sensing	BlackSky Global Inc.	Electron	
2022-034C	NZ-2022-10	Global-20	3 April 2022, 0141 hours	United States	93.17	53.01	437	422	Communications and IoT	BlackSky Global Inc.	Electron	
2022-047F	NZ-2022-26	SpaceBEE-140	3 May 2022, 1050 hours	United States	95.15	97.45	532	520	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047G	NZ-2022-27	SpaceBEE-141	3 May 2022, 1050 hours	United States	95.16	97.45	532	520	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047H	NZ-2022-28	SpaceBEE-142	3 May 2022, 1050 hours	United States	95.16	97.45	532	520	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047A	NZ-2022-29	SpaceBEE-143	3 May 2022, 1050 hours	United States	95.13	97.45	532	518	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047S	NZ-2022-30	SpaceBEE-144	3 May 2022, 1050 hours	United States	95.13	97.45	532	518	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047T	NZ-2022-31	SpaceBEE-145	3 May 2022, 1050 hours	United States	95.16	97.45	532	521	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047U	NZ-2022-32	SpaceBEE-146	3 May 2022, 1050 hours	United States	95.17	97.45	533	521	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047X	NZ-2022-33	SpaceBEE-147	3 May 2022, 1050 hours	United States	95.17	97.45	533	521	Communications and IoT	Swarm Technologies Inc.	Electron	

International designator	National designator	Name	Date and time of the launch (New Zealand)	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	Website
2022-047N	NZ-2022-34	SpaceBEE-148	3 May 2022, 1050 hours	United States	95.17	97.45	533	520	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047P	NZ-2022-35	SpaceBEE-149	3 May 2022, 1050 hours	United States	95.17	97.45	533	520	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047R	NZ-2022-36	SpaceBEE-150	3 May 2022, 1050 hours	United States	95.13	97.45	533	517	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047V	NZ-2022-37	SpaceBEE-151	3 May 2022, 1050 hours	United States	95.17	97.45	533	520	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047W	NZ-2022-38	SpaceBEE-152	3 May 2022, 1050 hours	United States	95.17	97.45	533	521	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047Q	NZ-2022-39	SpaceBEE-153	3 May 2022, 1050 hours	United States	95.17	97.45	533	520	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047Z	NZ-2022-40	SpaceBEE-154	3 May 2022, 1050 hours	United States	95.17	97.45	533	521	Communications and IoT	Swarm Technologies Inc.	Electron	
2022-047Y	NZ-2022-41	SpaceBEE-155	3 May 2022, 1050 hours	United States	95.17	97.45	533	520	Technology demonstration	Swarm Technologies Inc.	Electron	
2022-047AA	NZ-2022-42	TRSI-3	3 May 2022, 1050 hours	United States	95.17	97.45	533	521	Remote sensing	ACME AtronOmatic, LLC	Electron	
2022-047AE	NZ-2022-44	BRO-6	3 May 2022, 1050 hours	France	95.21	97.45	534	524	Commercial satellite operations	Unseenlabs SAS	Electron	
2022-070A	NZ-2022-54	CAPSTONE	28 June 2022, 2155 hours	United States	1 408.08	39.08	7 0215	258	Commercial satellite operations	Advanced Space LLC	Electron	
2022-070C	NZ-2022-55	Lunar Photon	28 June 2022, 2155 hours	United States	1 408.08	39.08	7 0215	258	Remote sensing	Rocket Lab USA	Electron	

Note: Orbital parameters identified as at 14 July 2022 (source: [www.space-track.org](http://www.space-track.org)).

#### IV. 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>
2019-037K	NZ-2019-013	Prometheus 2-7	29 June 2019, 1630 hours (New Zealand time)	United States	Technology demonstration and communications	20 May 2022
2019-037B	NZ-2019-012	Prometheus 2-9	29 June 2019, 1630 hours (New Zealand time)	United States	Technology demonstration and communications	6 June 2022
2019-037E	NZ-2019-014	ACRUX-1	29 June 2019, 1630 hours (New Zealand time)	Australia	Technology demonstration and education	17 June 2022

*Note:* Orbital parameters identified as at 14 July 2022 (source: [www.space-track.org](http://www.space-track.org)).