United Nations ST/SG/SER.E/1089

Secretariat

Distr.: General
30 January 2023

Original: English

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

Note verbale dated 11 January 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 May to December 2022 (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 17 January 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*,**

I. Objects registered by New Zealand

A. Objects launched by New Zealand during the period from 1 May 2022 to 30 December 2022

					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*	*Payload owner or operator*	*Launch vehicle*	*Website*
2022-079B	NZ-2022-58	Electron Rocket Body	13 July 2022, 1830 hours	United States of America	92.35	40.06	524	256	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-079C	NZ-2022-59	Electron Kick Stage Rocket Body	13 July 2022, 1830 hours	United States	97.22	40.02	631	620	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-091B	NZ-2022-62	Electron Rocket Body	4 August 2022, 1700 hours	United States	90.98	70	432	213	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-113B	NZ-2022-64	Electron Rocket Body	16 September 2022, 0800 hours	United States	87.54	97.62	181	124	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-113C	NZ-2022-65	Electron Kick Stage Rocket Body	16 September 2022, 0800 hours	United States	95.97	97.66	575	556	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-127B	NZ-2022-67	Electron Kick Stage Rocket Body	8 October 2022, 0609 hours	United States	97.76	98.29	751	552	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-127C	NZ-2022-68	Electron Rocket Body	8 October 2022, 0609 hours	United States	93.51	98.32	627	266	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-147B	NZ-2022-70	Electron Kick Stage Rocket Body	5 November 2022, 0627 hours	United States	96.44	97.65	598	578	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2022-147C	NZ-2022-71	Electron Rocket Body	5 November 2022, 0627 hours	United States	87.49	97.5	173	128	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com

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

** Orbital parameters as at 23 December 2022, as identified on www.space-track.org.

B. Objects launched outside New Zealand territory, on the basis of overseas payload permits authorized by New Zealand, during the period from 1 May 2022 to 30 December 2022

						Basic orbital parameters					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													

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)*
2022-079B	NZ-2022-58	Electron Rocket Body	13 July 2022, 1830 hours	Rocket body	2 October 2022
2022-091B	NZ-2022-62	Electron Rocket Body	4 August 2022, 1700 hours	Rocket body	20 October 2022
2022-113B	NZ-2022-64	Electron Rocket Body	16 September 2022, 0800 hours	Rocket body	28 September 2022
2022-147C	NZ-2022-71	Electron Rocket Body	5 November 2022, 0627 hours	Rocket body	20 November 2022

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 in the period from 1 May 2022 to 30 December 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 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*
2022-079A	NZ-2022-60	USA 334 (NROL-162)	13 July 2022, 1830 hours	United States	97.22	40.02	631	621	Classified	United States Government	Electron	-
2022-091A	2022-091A	USA 335 (NROL-199)	4 August 2022, 1700 hours	United States	97.4	70.01	639	629	Classified	United States Government	Electron	-
2022-113A	NZ-2022-64	StriX-1	16 September 2022, 0800 hours	Japan	96.01	97.66	576	559	Synthetic aperture radar (SAR) technology	Synspective Japan Inc.	Electron	www.synspective.com/
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	www.ga.com/
2022-147A	NZ-2022-69	MATS	5 November 2022, 0627 hours	Sweden	96.46	97.65	599	579	Mesospheric airglow/aerosol tomography and spectroscopy	OHB Sweden	Electron	www.ohb-sweden.se

Note: Orbital parameters identified as at 23 December 2022 (source: 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.

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)*
2021-068C	NZ-2021-14	Electron Kick Stage Rocket Body	29 July 2021, 2311 hours	United States	Rocket body	13 October 2022
2020-085AA	NZ-2020-39	SpaceBEE-22	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	22 October 2022
2020-085AH	NZ-2020-40	SpaceBEE-23	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	28 October 2022
2020-085Z	NZ-2020-41	SpaceBEE-24	20 November 2020,	United States	Technology demonstration/	16 November 2022

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)*
			1520 hours		communications	
2020-085Y	NZ-2020-42	SpaceBEE-25	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	27 October 2022
2020-085AD	NZ-2020-43	SpaceBEE-26	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	16 November 2022
2020-085X	NZ-2020-44	SpaceBEE-27	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	5 November 2022
2020-085V	NZ-2020-45	SpaceBEE-28	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	21 November 2022
2020-085W	NZ-2020-46	SpaceBEE-29	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	24 November 2022
2020-085T	NZ-2020-47	SpaceBEE-30	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	29 November 2022
2020-085U	NZ-2020-48	SpaceBEE-31	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	3 December 2022
2020-085S	NZ-2020-49	SpaceBEE-32	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	14 December 2022
2020-085E	NZ-2020-51	SpaceBEE-34	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	12 October 2022
2020-085F	NZ-2020-52	SpaceBEE-35	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	22 October 2022
2020-085G	NZ-2020-53	SpaceBEE-36	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	29 October 2022
2020-085H	NZ-2020-54	SpaceBEE-37	20 November 2020, 1520 hours	United States	Technology demonstration/	18 November 2022

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)*
					communications	
2020-085J	NZ-2020-55	SpaceBEE-38	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	18 November 2022
2020-085AF	NZ-2020-56	SpaceBEE-39	20 November 2020, 1520 hours	United States	Technology demonstration/ communications	29 November 2022

Note: Orbital parameters identified as at 23 December 2022 (source: www.space-track.org).