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Committee on the Peaceful Uses of Outer Space

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

Note verbale dated 27 August 2019 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 April to June 2019 (see annex).

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Annex

Information on space objects launched from New Zealand*

I. Objects registered by New Zealand

A. Objects launched by New Zealand (April–June 2019)

International designator	*National designator*	*Name*	*Date and time of the launch (New Zealand time)*	*Other launching States*	*Basic orbital parameters*[a]				*General function of the space object*	*Additional voluntary information*		
					Nodal period (minutes)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*		*Owner or operator*	*Launch vehicle*	*Website*
2019-026D	NZ-2019-004	Electron Stage 2	5 May 2019, 1800 hrs	United States of America	87.86	40	197	140	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2019-026C	NZ-2019-005	Electron Stage 3	5 May 2019, 1800 hrs	United States	94.67	40.03	509	496	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2019-037J	NZ-2019-009	Electron Stage 2	29 June 2019, 1630 hrs	United States	91.11	45.01	383	275	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com
2019-037H	NZ-2019-010	Electron Stage 3	29 June 2019, 1630 hrs	United States	92.04	45.01	455	294	Rocket body	Rocket Lab USA	Electron	www.rocketlabusa.com

[a] As at 16 July 2019 (source: www.space-track.org).

B. 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)*
2019-016C	NZ-2019-002	Electron Stage 2	29 March 2019, 1227 hrs	Rocket body	15 April 2019
2019-026D	NZ-2019-004	Electron Stage 2	5 May 2019, 1800 hrs	Rocket body	17 May 2019
2019-037J	NZ-2019-009	Electron Stage 2	29 June 2019, 1630 hrs	Rocket body	2 July 2019

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

C. 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 is no longer functional (UTC)*
None					

D. 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 is moved to a disposal orbit*	*Physical conditions when space object is moved to a disposal orbit (change in orbit, passivation and other measures recommended in space debris mitigation guidelines)*
None							

E. 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								

F. 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								

G. 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 November 2018 to June 2019

Note: The following space objects are not registered by New Zealand

					Basic orbital parameters[a]					*Additional voluntary information*		
International designator	*National designator*	*Name*	*Date and time of the launch (New Zealand)*	*Other launching States*	*Nodal period (minutes)*	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	*General function of the space object*	*Owner or operator*	*Launch vehicle*	*Website*
2018-088A	NZ-2018-009	CICERO 10	11 November 2018, 1650 hrs	Norway	94.75	85.04	517	496	Remote sensing	-	-	-
2018-088D	NZ-2018-010	Irivne-01	11 November 2018, 1650 hrs	United States	94.65	85.04	516	487	Education	-	-	-
2018-088E	NZ-2018-013	Proxima I	11 November 2018, 1650 hrs	Australia	94.65	85.03	517	487	Technology demonstration and communication	-	-	-
2018-088G	NZ-2018-014	Proxima II	11 November 2018, 1650 hrs	Australia	94.65	85.03	517	487	Technology demonstration and communication	-	-	-
2018-104G	NZ-2018-017	CHOMPTT	16 December 2018, 1933 hrs	United States	94.59	85.04	510	487	Technology demonstration	-	-	-
2018-104J	NZ-2018-019	DaVinci	16 December 2018, 1933 hrs	United States	94.65	85.03	512	492	Educational	-	-	-
2018-104M	NZ-2018-023	SHFT-1 (Goergen)	16 December 2018, 1933 hrs	United States	94.63	85.03	508	493	Science	-	-	-

International designator	*National designator*	*Name*	*Date and time of the launch (New Zealand)*	*Other launching States*	*Basic orbital parameters*[a]				*General function of the space object*	*Additional voluntary information*		
					Nodal period (minutes)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*		*Owner or operator*	*Launch vehicle*	*Website*
2018-104B	NZ-2018-024	Shields-1	16 December 2018, 1933 hrs	United States	94.67	85.03	511	494	Technology demonstration	-	-	-
2018-104D	NZ-2018-025	STF-1	16 December 2018, 1933 hrs	United States	94.7	85.03	513	495	Science and technology demonstration	-	-	-
2018-104N	NZ-2018-026	AeroCube 11 EagleScout (TOMSat)	16 December 2018, 1933 hrs	United States	94.64	85.04	511	491	Technology demonstration	-	-	-
2018-104A	NZ-2018-027	AeroCube 11-R3 (TOMSat)	16 December 2018, 1933 hrs	United States	94.63	85.03	511	490	Technology demonstration	-	-	-
2019-016A	NZ-2019-001	R3D2	29 March 2019, 1227 hrs	United States	93.09	39.52	430	422	Technology demonstration	-	-	-
2019-026A	NZ-2019-006	Falcon ODE/AFOTEC-1	5 May 2019, 1800 hrs	United States	94.72	40.02	509	501	Technology demonstration	-	-	-
2019-026E	NZ-2019-007	Harbinger	5 May 2019, 1800 hrs	United States	94.71	40.02	509	499	Remote sensing and technology demonstration	-	-	-
2019-026B	NZ-2019-008	SPARC-1	5 May 2019, 1800 hrs	United States	94.65	40.02	509	495	Technology demonstration	-	-	-
2019-037C	NZ-2019-011	Global-3	29 June 2019, 1630 hrs	United States	93.66	45.01	459	447	Remote sensing	-	-	-
2019-037B	NZ-2019-012	Prometheus 2-9	29 June 2019, 1630 hrs	United States	93.67	45.01	459	449	Technology demonstration and communications	-	-	-
2019-037K	NZ-2019-013	Prometheus 2-7	29 June 2019, 1630 hrs	United States	93.67	45.01	459	449	Technology demonstration and communications	-	-	-
2019-037G	NZ-2019-015	SpaceBee 8	29 June 2019, 1630 hrs	United States	93.53	45.02	457	438	Technology demonstration and communications	-	-	-
2019-037F	NZ-2019-016	SpaceBee 9	29 June 2019, 1630 hrs	United States	93.55	45.01	458	438	Technology demonstration and communications	-	-	-

[a] As at 16 July 2019 (source: www.space-track.org).