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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 17 March 2020 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 2019 (see annex).¹

¹ The data on space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 20 March 2020.



Annex

Information on space objects launched from New Zealand*

I. Objects registered by New Zealand

A. Objects launched by New Zealand (1 November–31 December 2019)

| 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) | | Owner or operator | Launch vehicle | Website |
| 2019-084B | NZ-2019-35 | Electron Kick Stage Rocket Body | 6 December 2019, 2118 hrs | United States of America | 91.88 | 97.00 | 399 | 335 | Rocket body | Rocket Lab USA | Electron | www.rocketlabusa.com |
| 2019-084C | NZ-2019-36 | Electron Rocket Body | 6 December 2019, 2118 hrs | United States | 87.62 | 96.98 | 170 | 143 | Rocket body | Rocket Lab USA | Electron | www.rocketlabusa.com |

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) |
|--------------------------|---------------------|----------------------|--|--------------------------------------|------------------------|
| 2019-084C | NZ-2019-36 | Electron Rocket Body | 6 December 2019, 2118 hrs | Rocket body | 18 December 2020 |

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 | | | | | |

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

D. 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 is moved to a disposal orbit</i> | <i>Physical conditions when space object is moved to a disposal orbit (change in orbit, passivation and other measures recommended in space debris mitigation guidelines)</i> |
|---------------------------------|----------------------------|-------------|---------------------------------|---|--|--|---|
| None | | | | | | | |

E. 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 | | | | | | | | |

F. 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 | | | | | | | | |

G. 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 during the period from 1 November 2019 and 31 December 2019

Note: 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 (New Zealand)</i> | <i>Other launching States</i> | <i>Basic orbital parameters^a</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> | <i>Website</i> |
| 2019-084A | NZ-2019-28 | ALE-2 | 6 December 2019, 2118 hrs | Japan | 92.67 | 97.00 | 416 | 394 | Educational, entertainment and scientific purposes | Ale Co. Ltd | Electron | - |
| 2019-084D | NZ-2019-29 | NOOR-1A | 6 December 2019, 2118 hrs | United States | 91.92 | 97.00 | 395 | 342 | Technology demonstration and communications | Stara Technologies Corporation | Electron | - |
| 2019-084E | NZ-2019-30 | NOOR-1B | 6 December 2019, 2118 hrs | United States | 91.46 | 97.00 | 367 | 326 | Technology demonstration and communications | Stara Technologies Corporation | Electron | - |
| 2019-084F | NZ-2019-31 | FossaSat-1 | 6 December 2019, 2118 hrs | Spain | 91.84 | 97.00 | 390 | 340 | Technology demonstration and communications | Fossa Systems | Electron | - |
| 2019-084G | NZ-2019-32 | TRSI | 6 December 2019, 2118 hrs | Germany | 91.82 | 97.00 | 389 | 340 | Technology demonstration and communications | Union Aerospace Components | Electron | - |
| 2019-084H | NZ-2019-33 | ATL-1 | 6 December 2019, 2118 hrs | Hungary | 91.83 | 97.00 | 389 | 340 | Technology demonstration and communications | Advanced Technology of Laser, Kft. | Electron | - |
| 2019-084J | NZ-2019-34 | SMOG-P | 6 December 2019, 2118 hrs | Hungary | 91.80 | 97.00 | 387 | 339 | Technology demonstration and communications | Budapest University of Technology and Economics | Electron | - |

^a As at 19 February 2020 (source: www.space-track.org).