United Nations ST/sg/ser.e/916



Distr.: General 23 December 2019

Original: English

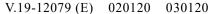
Committee on the Peaceful Uses of Outer Space

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

Note verbale dated 20 September 2019 from the Permanent Mission of Australia to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Australia 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 information concerning the space objects Proxima-I, Proxima-II, Centauri-1, Centauri-2, Sirion Pathfinder-2, M1 and ACRUX-1, launched by Australia during the period from November 2018 to June 2019 (see annex I) and additional information concerning the space object Optus-10, launched on 11 September 2014 (see annex II).







Annex I

Registration data on space objects launched by Australia*

Proxima-I

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

Committee on Space Research

international designator

2018-088E

Name of the space object Proxima-I
State of registry Australia

National designator/registration

number

Proxima-I

Other launching States New Zealand. The launch services were

provided by Rocket Lab from the Mahia

Peninsula, New Zealand

Date and territory or location of the

launch

11 November 2018 at 0350 hours UTC;

Mahia Peninsula, New Zealand

Basic orbital parameters

Nodal period 94.67 minutes
Inclination 85.03 degrees
Apogee 515 kilometres
Perigee 488 kilometres

General function of the space object Telecommunications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator Fleet Space Technologies Pty Ltd.

Launch vehicle Electron

Proxima-II

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

Committee on Space Research

international designator

2018-088G

Name of the space object Proxima-II
State of registry Australia

National designator/registration

number

Proxima-II

Other launching States New Zealand. The launch services were

provided by Rocket Lab from the Mahia

Peninsula, New Zealand

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^{*} The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

Date and territory or location of the

launch

11 November 2018 at 0350 hours UTC;

Mahia Peninsula, New Zealand

Basic orbital parameters

Nodal period 94.68 minutes 85.03 degrees Inclination Apogee 515 kilometres Perigee 488 kilometres

General function of the space object Telecommunications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator Fleet Space Technologies Pty Ltd.

Launch vehicle Electron

Centauri-1

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

Committee on Space Research

international designator

2018-096D

Name of the space object Centauri-1 State of registry Australia Centauri-1 National designator/registration

number

Other launching States India. The launch services were provided by

> Antrix Corporation Ltd., the commercial arm of the Indian Space Research Organization, from the Satish Dhawan Space Centre, India

Date and territory or location of the

launch

29 November 2018 at 0428 hours UTC; Satish Dhawan Space Centre, India

Basic orbital parameters

94.38 minutes Nodal period Inclination 97.4835 degrees 592 kilometres Apogee Perigee 570 kilometres

General function of the space object **Telecommunications**

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator Fleet Space Technologies Pty Ltd. Launch vehicle Indian Polar Satellite Launch Vehicle

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Centauri-2

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

Committee on Space Research

international designator

State of registry

2018-099BD

Name of the space object

Centauri-2 Australia

National designator/registration

number

Centauri-2

Other launching States

United States of America. The launch services were provided by SpaceX from Vandenberg

Air Force Base, United States

Date and territory or location of the

launch

3 December 2018 at 1832 hours UTC; Vandenberg Air Force Base, United States

Basic orbital parameters

Nodal period 96.3 minutes
Inclination 97.769 degrees
Apogee 498 kilometres
Perigee 473 kilometres

General function of the space object Telecommunications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator Fleet Space Technologies Pty Ltd.

Launch vehicle SpaceX Falcon 9

Sirion Pathfinder-2

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

Committee on Space Research

international designator

2018-099B

Name of the space object

Sirion Pathfinder-2

State of registry

Australia

National designator/registration

number

Sirion Pathfinder-2

Other launching States

United States. The launch services were provided by SpaceX from Vandenberg Air

Force Base, United States

Date and territory or location of the

launch

3 December 2018 at 1832 hours UTC; Vandenberg Air Force Base in California,

United States

Basic orbital parameters

Nodal period 96.32 minutes
Inclination 97.76 degrees

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Apogee 592 kilometres
Perigee 573 kilometres

General function of the space object Telecommunications

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator Sirion Global Pty Ltd.

Launch vehicle SpaceX Falcon 9

M1

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

Committee on Space Research

international designator

2018-099

Name of the space object M1

State of registry Australia

National designator/registration

number

M1

Other launching States United States. The launch services were

provided by SpaceX from Vandenberg Air

Force Base, United States

Date and territory or location of the

launch

3 December 2018 at 1832 hours UTC; Vandenberg Air Force Base, United States

Basic orbital parameters

Nodal period 96.34 minutes

Inclination 97.764 degrees

Apogee 583.529 kilometres

Perigee 581.317 kilometres

General function of the space object Research satellite equipped with automatic

identification system (AIS) and automatic dependent surveillance-broadcast (ADS-B) receivers and a software-defined radio

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Change of status in operations

Date when space object is no

longer functional

1 March 2019 UTC

Space object owner or operator University of New South Wales

Launch vehicle SpaceX Falcon 9

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ACRUX-1

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

Committee on Space Research

international designator

2019-037E

Name of the space object

ACRUX-1 Australia

National designator/registration

number

State of registry

ACRUX-1

Other launching States New Zealand. The launch services were

provided by Rocket Lab from the Mahia

Peninsula, New Zealand

Date and territory or location of the

launch

29 June 2019 at 0430 hours UTC; Mahia Peninsula, New Zealand

Basic orbital parameters

Nodal period 93.59 minutes
Inclination 45.01 degrees
Apogee 450.2 kilometres
Perigee 449.8 kilometres

General function of the space object

Monitoring health of the satellite subsystems for learning purposes. Validation of a novel attitude control system and capability-building

for future missions

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator Melbourne Space Program Ltd.

Launch vehicle Electron

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Annex II

Additional information on a space object previously registered by Australia*

Optus-10

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

Committee on Space Research

international designator

2014-054A

Name of the space object Optus-10
State of registry Australia

Registration document ST/SG/SER.E/751

National designator/registration

number

Optus-10

Other launching States France. The launch services were provided by

Arianespace from French Guiana (Guiana

Space Centre)

Date and territory or location of the

launch

11 September 2014 at 2205 hours UTC;

Guiana Space Centre, Kourou, French Guiana

Basic orbital parameters

Nodal period Since the satellite is in geostationary orbit, the

concept of a nodal period is not applicable. However, the orbital period is approximately

23 hours 56 minutes 04 seconds

Inclination 0.00 ± 0.05 degrees Apogee 35,786 kilometres

Perigee 35,786 kilometres

General function of the space object Commercial telecommunications within

Australia, New Zealand and nearby islands

Additional voluntary information for use in the Register of Objects Launched into Outer Space

Basic orbital parameters

Geostationary position 156.00 ± 0.05 degrees East

Change of position of the space object

Previous orbital position 164.00 ± 0.05 degrees East New orbital position 156.00 ± 0.05 degrees East

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^{*} The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.