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Committee on the Peaceful Uses of Outer Space

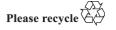
Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 30 June 2010 from the Permanent Mission of Canada to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Canada to the United Nations (Vienna) presents its compliments to the Secretary-General of the United Nations and, 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 submit information concerning Canadian space objects CanX-6 (international designator 2008-021B), CanX-2 (international designator 2008-021H), Nimiq-4 (international designator 2008-044A) and Ciel-2 (international designator 2008-063A) (see annex).

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Annex

Registration data on space objects launched by Canada*

1. CanX-6

Committee on Space Research

international designator:

2008-021B

CanX-6

Name of space object: State of registry: Canada Other launching States: India

Date of launch: 28 April 2008

Territory or launch of location: Satish Dhawan Space Centre,

Sriharikota, India

Launch vehicle: Polar Satellite Launch Vehicle C9

Basic orbital parameters

Nodal period: 97.2 minutes Inclination: 98 degrees

645.0 kilometres Apogee: Perigee: 621.5 kilometres

General function of space object: Ship tracking using navigation signals

transmitted from sea vessels

Operating entity: Space Flight Laboratory at the

University of Toronto

2. CanX-2

Committee on Space Research

international designator:

2008-021H

CanX-2 Name of space object: State of registry: Canada Other launching States: India

Date of launch: 28 April 2008

Territory or launch of location: Satish Dhawan Space Centre,

Sriharikota, India

Launch vehicle: Polar Satellite Launch Vehicle C9

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^{*} The registration data are reproduced in the form in which they were received.

Basic orbital parameters

Nodal period: 97.2 minutes
Inclination: 98 degrees

Apogee: 643.5 kilometres
Perigee: 620.3 kilometres

General function of space object: Student satellite for technology

demonstration and atmospheric science

Operating entity: Space Flight Laboratory at the

University of Toronto

3. Nimiq-4

Committee on Space Research

international designator:

2008-044A

Name of space object: Nimiq-4
State of registry: Canada

Other launching States: Kazakhstan

Russian Federation

Date of launch: 19 September 2008

Territory or launch of location: Baikonur Cosmodrome,

Baikonur, Kazakhstan

Launch vehicle: Proton LV

Basic orbital parameters

Nodal period: Geostationary Earth orbit

Inclination: 0.0 degrees

Apogee: 35,802.5 kilometres
Perigee: 35,785.6 kilometres
Geostationary orbit location: 82 degrees West

General function of space object: Telecommunications

Frequencies and transmitting power:

Ka-band

Transmitter power: 120 W

Receiver 28.35-28.6 & 29.25 - 29.5 GHz

(uplink Earth to space object):

Transmitter 18.3-18.8 GHz

(downlink space object to Earth):

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Ku-band

Transmitter power: 150 W

Receiver 17.3-17.8 GHz

(uplink Earth to space object):

Transmitter 12.2-12.7 GHz

(downlink space object to Earth):

Operating entity: Telesat Canada

4. Ciel-2

Committee on Space Research

international designator:

2008-063A

Name of space object: Ciel-2
State of registry: Canada

Other launching States: Kazakhstan

Russian Federation

Date of launch: 10 December 2008

Territory or launch of location: Baikonur Cosmodrome,

Baikonur, Kazakhstan

Launch vehicle: Proton M

Basic orbital parameters

Nodal period: Geostationary Earth orbit

Inclination: 0.0 degrees

Apogee: 35,801.4 kilometres
Perigee: 35,785.0 kilometres
Geostationary orbit location: 129 degrees West

General function of space object: Commercial broadcast communications

Frequencies and transmitting power:

Frequencies: 12.2-12.7 GHz

Transmitter power: 240W for the upper 16 frequencies used

for broadcast beams covering Canada and the continental United States. 100 W and 130 W for the lower 16 frequencies used for spot beams covering Canada and the continental

United States

Operating entity: Ciel Satellite Group, Inc.

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