



Secretariat

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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).



Annex

Registration data on space objects launched by Canada*

1. CanX-6

Committee on Space Research international designator:	2008-021B
Name of space object:	CanX-6
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
Apogee:	645.0 kilometres
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
Name of space object:	CanX-2
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

* 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. Nimi4-4

Committee on Space Research international designator:	2008-044A
Name of space object:	Nimi4-4
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 (uplink Earth to space object):	28.35-28.6 & 29.25 - 29.5 GHz
Transmitter (downlink space object to Earth):	18.3-18.8 GHz

Ku-band	
Transmitter power:	150 W
Receiver (uplink Earth to space object):	17.3-17.8 GHz
Transmitter (downlink space object to Earth):	12.2-12.7 GHz
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.