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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 6 June 2013 from the Permanent Mission of Brazil to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Brazil to the United Nations (Vienna) has the honour to transmit, in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex), updated registration information concerning Brazilian geostationary satellites (see annex).

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Annex

Registration data on space objects launched by Brazil*

Brasilsat-A1

Name of space object:	Brasilsat-A1
Date of launch:	8 February 1985
Place of launch:	Kourou, French Guiana
Launch vehicle:	Ariane
Owner of the space object:	Star One S.A. (satellite was leased to PANAMSAT on 15 November 1995)
Basic orbital parameters:	Typical for geostationary satellites, Brasilsat-A1 was at a longitude of 216 degrees East and in a 5.6 degree inclined orbit when it was reorbited on 7 March 2002, reaching a disposal orbit with a 190-kilometre perigee and a 210-kilometre apogee above the geostationary arc.

Brasilsat-A2

Name of space object:	Brasilsat-A2
Date of launch:	28 March 1986
Place of launch:	Kourou, French Guiana
Launch vehicle:	Ariane
Owner of the space object:	Star One S.A.
Basic orbital parameters:	Typical for geostationary satellites, Brasilsat-A2 was reorbited on 6 March 2004 from a longitude 63 degrees West and an inclination of 6.0 degrees. The satellite is presently in a disposal orbit at a perigee of 200 kilometres above the geostationary orbit.

Brasilsat-B1

Name of space object:	Brasilsat-B1
Date of launch:	10 August 1994
Place of launch:	Kourou, French Guiana
Launch vehicle:	Ariane

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

Owner of the space object:	Star One S.A.
Basic orbital parameters:	Typical for geostationary satellites, Brasilsat-B1 was reorbited on 2 December 2010 from a longitude 68 degrees West and an inclination of 3.4 degrees. The satellite is presently in a disposal orbit at a perigee of 300 kilometres above the geostationary orbit.

Brasilsat-B2

Name of space object:	Brasilsat-B2
Date of launch:	28 March 1995
Place of launch:	Kourou, French Guiana
Launch vehicle:	Ariane
Owner of the space object:	Star One S.A.
Basic orbital parameters:	
Nodal period:	1,436 minutes
Inclination:	2.9 degrees
Apogee:	35,798 kilometres
Perigee:	35,798 kilometres
General function of the space object:	Telecommunications service

Brasilsat-B3

Name of space object:	Brasilsat-B3
Date of launch:	4 February 1998
Place of launch:	Kourou, French Guiana
Launch vehicle:	Ariane
Owner of the space object:	Star One S.A.
Basic orbital parameters:	
Nodal period:	1,436 minutes
Inclination:	0 degrees
Apogee:	35,798 kilometres
Perigee:	35,798 kilometres
General function of the space object:	Telecommunications service

Brasilsat-B4

Name of space object:	Brasilsat-B4
Date of launch:	17 August 2000
Place of launch:	Kourou, French Guiana
Launch vehicle:	Ariane
Owner of the space object:	Star One S.A.
Basic orbital parameters:	
Nodal period:	1,436 minutes
Inclination:	0 degrees
Apogee:	35,798 kilometres
Perigee:	35,798 kilometres
General function of the space object:	Telecommunications service

Estrela do Sul 1

Name of space object:	Estrela do Sul 1 (EdS1)
Date of launch:	10 January 2004
Place of launch:	Sea Launch platform
Launch vehicle:	Zenit-3SL
Owner of the space object:	Telesat Brasil Capacidade de Satélites Ltda.
Basic orbital parameters:	The satellite EdS1 was reorbited on 17 November 2011 and is presently in a disposal orbit at a perigee of 387 kilometres and an apogee of 482 kilometres above the geostationary orbit.

Amazonas-1

Name of space object:	Amazonas-1
Date of launch:	4 August 2004
Place of launch:	Baikonur, Kazakhstan
Launch vehicle:	International Launch Service (ILS)
Owner of the space object:	Hispamar Satélites S.A.
Basic orbital parameters:	
Nodal period:	1,436 minutes
Inclination:	0 degrees

Apogee:	35,798 kilometres
Perigee:	35,798 kilometres
General function of the space object:	Telecommunications service

Starone-C1

Name of space object:	Starone-C1
Date of launch:	14 November 2007
Place of launch:	Kourou, French Guiana
Launch vehicle:	Ariane
Owner of the space object:	Star One S.A.
Basic orbital parameters:	
Nodal period:	1,436 minutes
Inclination:	0 degrees
Apogee:	35,798 kilometres
Perigee:	35,798 kilometres
General function of the space object:	Telecommunications service

Starone-C2

Name of space object:	Starone-C2
Date of launch:	18 April 2008
Place of launch:	Kourou, French Guiana
Launch vehicle:	Ariane
Owner of the space object:	Star One S.A.
Basic orbital parameters:	
Nodal period:	1,436 minutes
Inclination:	0 degrees
Apogee:	35,798 kilometres
Perigee:	35,798 kilometres
General function of the space object:	Telecommunications service

Amazonas-2

Name of space object:	Amazonas-2
Date of launch:	1 October 2009
Place of launch:	Kourou, French Guiana
Launch vehicle:	Ariane
Owner of the space object:	Hispamar Satélites S.A.
Basic orbital parameters:	
Nodal period:	1,436 minutes
Inclination:	0 degrees
Apogee:	35,798 kilometres
Perigee:	35,798 kilometres
General function of the space object:	Telecommunications service

Estrela do Sul 2

Name of space object:	Estrela do Sul 2 (EdS2)
Date of launch:	20 May 2011
Place of launch:	Baikonur, Kazakhstan
Launch vehicle:	Proton M/Breeze M
Owner of the space object:	Telesat Brasil Capacidade de Satélites Ltda.
Basic orbital parameters:	
Nodal period:	1,436 minutes
Inclination:	0±0.5 degrees
Apogee:	35,806 kilometres
Perigee:	35,766 kilometres
General function of the space object:	Telecommunications service

Starone-C3

Name of space object:	Starone-C3
Date of launch:	10 November 2012
Place of launch:	Kourou, French Guiana
Launch vehicle:	Ariane
Owner of the space object:	Star One S.A.

Basic orbital parameters:	
Nodal period:	1,436 minutes
Inclination:	0 degrees
Apogee:	35,798 kilometres
Perigee:	35,798 kilometres
General function of the space object:	Telecommunications service

Amazonas-3

Name of space object:	Amazonas-3
Date of launch:	7 February 2013
Place of launch:	Kourou, French Guiana
Launch vehicle:	ILS
Owner of the space object:	Hispamar Satélites S.A.
Basic orbital parameters:	
Nodal period:	1,436 minutes
Inclination:	0 degrees
Apogee:	35,798 kilometres
Perigee:	35,798 kilometres
General function of the space object:	Telecommunications service