



General Assembly

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Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with General Assembly resolution 1721 B (XVI) by States launching objects into orbit or beyond

Note verbale dated 25 September 2018 from the Permanent Mission of Luxembourg to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Luxembourg to the United Nations (Vienna) has the honour to transmit, in accordance with paragraph 1 of General Assembly resolution 1721 B (XVI) of 20 December 1961, information concerning objects launched into Earth orbit or beyond by Luxembourg as at 24 September 2018 (see annex).



Annex

List of Luxembourg space objects (as at September 2018)*

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|----|---|---|
| 1. | Committee on Space Research
international designator | 1988-109B |
| | Name of space object | ASTRA 1A |
| | Launch date | 11 December 1988 |
| | Launch site | Kourou, French Guiana |
| | Launcher | Ariane |
| | Owner of object | Société Européenne des Satellites
(SES ASTRA) |
| | Date of decommissioning | 10 December 2004 |
| | Orbital characteristics | The satellite is in a graveyard orbit, at a
perigee of 400 km above the geostationary
orbit |
| 2. | Committee on Space Research
international designator | 1991-015A |
| | Name of space object | ASTRA 1B |
| | Launch date | 2 March 1991 |
| | Launch site | Kourou, French Guiana |
| | Launcher | Ariane |
| | Owner of object | SES ASTRA |
| | Date of decommissioning | 12 July 2006 |
| | Orbital characteristics | The satellite is in a graveyard orbit, at a
perigee of 500 km above the geostationary
orbit |
| 3. | Committee on Space Research
international designator | 1993-031A |
| | Name of space object | ASTRA 1C |
| | Launch date | 12 May 1993 |
| | Launch site | Kourou, French Guiana |
| | Launcher | Ariane |
| | Owner of object | SES ASTRA |
| | Date of decommissioning | 31 July 2014 |
| | Orbital characteristics | The satellite is in a graveyard orbit, at a
perigee of 387 km above the geostationary
orbit |
| 4. | Committee on Space Research
international designator | 1994-070A |
| | Name of space object | ASTRA 1D |
| | Launch date | 31 October 1994 |
| | Launch site | Kourou, French Guiana |

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

	Launcher	Ariane
	Owner of object	SES ASTRA
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	In inclined orbit of 8.3 degrees since 22 October 2007
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	73.0 degrees West since 30 November 2017
	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services and of occasional-use services
5.	Committee on Space Research international designator	1995-055A
	Name of space object	ASTRA 1E
	Launch date	19 October 1995
	Launch site	Kourou, French Guiana
	Launcher	Ariane
	Owner of object	SES ASTRA
	Date of decommissioning	12 June 2015
	Orbital characteristics	The satellite is in a graveyard orbit, at a perigee of 390 km above the geostationary orbit
6.	Committee on Space Research international designator	1996-021A
	Name of space object	ASTRA 1F
	Launch date	8 April 1996
	Launch site	Baikonur, Kazakhstan
	Launcher	Proton
	Owner of object	SES ASTRA
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	0.10 degrees
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	44.3 degrees East since 24 September 2015
	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services
7.	Committee on Space Research international designator	1997-076A
	Name of space object	ASTRA 1G
	Launch date	2 December 1997
	Launch site	Baikonur, Kazakhstan

	Launcher	Proton
	Owner of object	SES ASTRA
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	In inclined orbit of 3.4 degrees since 23 May 2014
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	57 degrees East since 31 July 2018
	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services
8.	Committee on Space Research international designator	1998-050A
	Name of space object	ASTRA 2A
	Launch date	30 August 1998
	Launch site	Baikonur, Kazakhstan
	Launcher	Proton
	Owner of object	SES ASTRA
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	In inclined orbit of 0.3 degrees since 10 August 2018
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	100 degrees East since 2 August 2018
	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services
9.	Committee on Space Research international designator	1999-033A
	Name of space object	ASTRA 1H
	Launch date	18 June 1999
	Launch site	Baikonur, Kazakhstan
	Launcher	Proton
	Owner of object	SES ASTRA
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	In inclined orbit of 4.8 degrees since May 2012
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	80.8 degrees West since 29 September 2018

	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services; provision of interactive services with return path via satellite
10.	Committee on Space Research international designator	2000-054A
	Name of space object	ASTRA 2B
	Launch date	14 September 2000
	Launch site	Kourou, French Guiana
	Launcher	Ariane 5
	Owner of object	SES ASTRA
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	In inclined orbit of 3.3 degrees since 7 June 2014
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	19.4 degrees East since 22 June 2018
	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services
11.	Committee on Space Research international designator	2000-081A
	Name of space object	ASTRA 2D
	Launch date	20 December 2000
	Launch site	Kourou, French Guiana
	Launcher	Ariane 5
	Owner of object	SES ASTRA
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	In inclined orbit of 4.6 degrees since 22 April 2014
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	5 degrees East since 21 July 2018
	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services
12.	Committee on Space Research international designator	2001-025A
	Name of space object	ASTRA 2C
	Launch date	16 June 2001
	Launch site	Baikonur, Kazakhstan
	Launcher	Proton

	Owner of object	SES ASTRA
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	In inclined orbit of 1.5 degrees since 9 November 2016
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	23.5 degrees East since 23 May 2018
	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services
13.	Committee on Space Research international designator	2002-015B
	Name of space object	ASTRA 3A
	Launch date	29 March 2002
	Launch site	Kourou, French Guiana
	Launcher	Ariane 4
	Owner of object	SES ASTRA
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	In inclined orbit of 4.8 degrees since 29 March 2012
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	47.0 degrees West since 14 February 2017
	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services; provision of occasional-use services and very small aperture terminal (VSAT) services
14.	Committee on Space Research international designator	2006-012A
	Name of space object	ASTRA 1KR
	Launch date	20 April 2006
	Launch site	Cape Canaveral, United States of America
	Launcher	Atlas V
	Owner of object	SES ASTRA (through its subsidiary SES ASTRA 1KR)
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	0.10 degrees
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	19.2 degrees East

	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services
15.	Committee on Space Research international designator	2007-016A
	Name of space object	ASTRA 1L
	Launch date	4 May 2007
	Launch site	Kourou, French Guiana
	Launcher	Ariane 5
	Owner of object	SES ASTRA (through its subsidiary SES ASTRA 1L)
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	0.10 degrees
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	19.2 degrees East
	General purpose of object	Encrypted and unencrypted transmission of radio, television, multimedia data and broadband services
16.	Committee on Space Research international designator	2008-057A
	Name of space object	ASTRA 1M
	Launch date	5 November 2008
	Launch site	Baikonur, Kazakhstan
	Launcher	Proton-M/Breeze-M
	Owner of object	SES ASTRA (through its subsidiary SES ASTRA 1M)
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	0.10 degrees
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	19.2 degrees East
	General purpose of object	Encrypted and unencrypted transmission of radio, television and multimedia data services
17.	Committee on Space Research international designator	2010-021A
	Name of space object	ASTRA 3B
	Launch date	21 May 2010
	Launch site	Kourou, French Guiana
	Launcher	Ariane 5

	Owner of object	SES ASTRA (through its subsidiary SES 3B)
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	0.10 degrees
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	23.5 degrees East since 10 June 2010
	General purpose of object	Encrypted and unencrypted transmission of radio, television, multimedia data, VSAT and broadband services
18.	Committee on Space Research international designator	2011-041A
	Name of space object	ASTRA 1N
	Launch date	6 August 2011
	Launch site	Kourou, French Guiana
	Launcher	Ariane 5
	Owner of object	SES ASTRA (through its subsidiary SES 1N)
	Orbital characteristics	
	Nodal period	1,435.8–1,436.4 minutes
	Maximum inclination	0.10 degrees
	Apogee	35,820 km
	Perigee	35,752 km
	Longitude	19.2 degrees East since 28 February 2014
	General purpose of object	Encrypted and unencrypted transmission of radio, television, multimedia data, VSAT and broadband services
19.	Committee on Space Research international designator	2011-058C
	Name of space object	Vesselsat 1
	Launch date	12 October 2011
	Launch site	Sriharikota, India
	Launcher	PSLV-CA
	Owner of object	LuxSpace
	Orbital characteristics	
	Nodal period	102.10 minutes
	Maximum inclination	20.00 degrees
	Apogee	867 km
	Perigee	847 km
	General purpose of object	Automatic Identification System (AIS) data collection

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| 20. | Committee on Space Research
international designator | 2012-051A |
| | Name of space object | ASTRA 2F |
| | Launch date | 28 September 2012 |
| | Launch site | Kourou, French Guiana |
| | Launcher | Ariane 5 |
| | Owner of object | SES ASTRA (through its subsidiary
SES ASTRA 2F) |
| | Orbital characteristics | |
| | Nodal period | 1,435.8–1,436.4 minutes |
| | Maximum inclination | 0.10 degrees |
| | Apogee | 35,820 km |
| | Perigee | 35,752 km |
| | Longitude | 28.2 degrees East |
| | General purpose of object | Encrypted and unencrypted transmission of
radio, television, multimedia data, VSAT
and broadband services |
| 21. | Committee on Space Research
international designator | 2012-001B |
| | Name of space object | Vesselsat 2 |
| | Launch date | 9 January 2012 |
| | Launch site | Taiyuan LC-9, China |
| | Launcher | Chang Zheng 4B Y26 |
| | Owner of object | LuxSpace |
| | Orbital characteristics | The satellite has not been in orbit since
27 October 2016 |
| 22. | Committee on Space Research
international designator | 2013-056A |
| | Name of space object | ASTRA 2E |
| | Launch date | 29 September 2013 |
| | Launch site | Baikonur, Kazakhstan |
| | Launcher | Proton-M/Breeze-M |
| | Owner of object | SES ASTRA (through its subsidiary
SES ASTRA 2E) |
| | Orbital characteristics | |
| | Nodal period | 1,435.8–1,436.4 minutes |
| | Maximum inclination | 0.10 degrees |
| | Apogee | 35,820 km |
| | Perigee | 35,752 km |
| | Longitude | 28.5 degrees East since 31 July 2015 |
| | General purpose of object | Encrypted and unencrypted transmission of
radio, television, multimedia data, VSAT
and broadband services |

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| 23. | Committee on Space Research
international designator | 2014-011B |
| | Name of space object | ASTRA 5B |
| | Launch date | 22 March 2014 |
| | Launch site | Kourou, French Guiana |
| | Launcher | Ariane 5 |
| | Owner of object | SES ASTRA (through its subsidiary
SES ASTRA 5B) |
| | Orbital characteristics | |
| | Nodal period | 1,435.8–1,436.4 minutes |
| | Maximum inclination | 0.10 degrees |
| | Apogee | 35,820 km |
| | Perigee | 35,752 km |
| | Longitude | 31.5 degrees East |
| | General purpose of object | Encrypted and unencrypted transmission of
radio, television, multimedia data, VSAT
and broadband services |
| 24. | Committee on Space Research
international designator | 2014-089A |
| | Name of space object | ASTRA 2G |
| | Launch date | 27 December 2014 |
| | Launch site | Baikonour, Kazakhstan |
| | Launcher | Proton-M/Breeze-M |
| | Owner of object | SES ASTRA (through its subsidiary
SES ASTRA 2G) |
| | Orbital characteristics | |
| | Nodal period | 1,435.8–1,436.4 minutes |
| | Maximum inclination | 0.10 degrees |
| | Apogee | 35,820 km |
| | Perigee | 35,752 km |
| | Longitude | 28.2 degrees East since 16 June 2015 |
| | General purpose of object | Encrypted and unencrypted transmission of
radio, television, multimedia data and
broadband services and provision of
governmental and institutional
communication services |
| 25. | Committee on Space Research
international designator | 2018-013A |
| | Name of space object | Govsat-1 (SES-16) |
| | Launch date | 31 January 2018 |
| | Launch site | Cape Canaveral, United States |
| | Launcher | SpaceX Falcon 9 |
| | Owner of object | LuxGovSat |

Orbital characteristics

Nodal period	1,435.8–1,436.4 minutes
Maximum inclination	0.05 degrees
Apogee	35,820 km
Perigee	35,752 km
Longitude	21.42 degrees East
General purpose of object	Provision of governmental and institutional communication services
