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

Note verbale dated 3 October 2013 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 (see annex).
Annex

List of Luxembourg space objects*

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
   Decommission date: 10 December 2004
   Owner of object: Société Européenne des Satellites (SES ASTRA)
   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
   Decommission date: 12 July 2006
   Launcher: Ariane
   Owner of object: SES ASTRA
   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

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

- **Nodal period:** 1,435.8-1,436.4 minutes
- **Inclination:** 2.4 degrees on 21 April 2009 (inclined orbit)
- **Apogee:** 35,820 km
- **Perigee:** 35,752 km
- **Longitude:** 2.0 degrees East since 23 October 2008

**General purpose of object:** Encrypted and unencrypted transmission of radio, television and multimedia data services and of occasional-use services

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
   **Launcher:** Ariane
   **Owner of object:** SES ASTRA

   **Orbital characteristics:**
   - **Nodal period:** 1,435.8-1,436.4 minutes
   - **Maximum inclination:** In inclined orbit since 22 October 2007
   - **Apogee:** 35,820 km
   - **Perigee:** 35,752 km
   - **Longitude:** 52.2 degrees East. The satellite will be repositioned.

   **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

   **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: The satellite was repositioned to 31.25 degrees East,
General purpose of object: Encrypted and unencrypted transmission of radio, television and multimedia data services and of occasional-use services

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: 54.9 degrees East since 31 August 2011
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: 0.10 degrees
   Apogee: 35,820 km
   Perigee: 35,752 km
   Longitude: 31.5 degrees East since 10 July 2010
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: 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 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: 0.12 degrees
     Apogee: 35,820 km
     Perigee: 35,752 km
     Longitude: 52.2 degrees East
   General purpose of object: Encrypted and unencrypted transmission of radio, television and multimedia data services; return channel satellite interactive services

10. Committee on Space Research
    international designator: 2000-054A
    Name of space object: ASTRA 2B
    Launch date: 14 September 2000
<table>
<thead>
<tr>
<th>Launch site</th>
<th>Kourou, French Guiana</th>
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<tbody>
<tr>
<td>Launcher:</td>
<td>Ariane 5</td>
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<td>Owner of object:</td>
<td>SES ASTRA</td>
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<td>Orbital characteristics:</td>
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<td>Nodal period:</td>
<td>1,435.8-1,436.4 minutes</td>
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<tr>
<td>Maximum inclination:</td>
<td>0.10 degrees</td>
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<td>Apogee:</td>
<td>35,820 km</td>
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<tr>
<td>Perigee:</td>
<td>35,752 km</td>
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<tr>
<td>Longitude:</td>
<td>19.2 degrees East</td>
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<tr>
<td>General purpose of object:</td>
<td>Encrypted and unencrypted transmission of radio, television and multimedia data services</td>
</tr>
</tbody>
</table>

11. Committee on Space Research
international designator: 2000-081A

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<thead>
<tr>
<th>Name of space object:</th>
<th>ASTRA 2D</th>
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<tr>
<td>Launch date:</td>
<td>20 December 2000</td>
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<tr>
<td>Launch site:</td>
<td>Kourou, French Guiana</td>
</tr>
<tr>
<td>Launcher:</td>
<td>Ariane 5</td>
</tr>
<tr>
<td>Owner of object:</td>
<td>SES ASTRA</td>
</tr>
<tr>
<td>Orbital characteristics:</td>
<td></td>
</tr>
<tr>
<td>Nodal period:</td>
<td>1,435.8-1,436.4 minutes</td>
</tr>
<tr>
<td>Maximum inclination:</td>
<td>In an inclined orbit since 10 April 2012</td>
</tr>
<tr>
<td>Apogee:</td>
<td>35,820 km</td>
</tr>
<tr>
<td>Perigee:</td>
<td>35,752 km</td>
</tr>
<tr>
<td>Longitude:</td>
<td>28.0 degrees East</td>
</tr>
<tr>
<td>General purpose of object:</td>
<td>Encrypted and unencrypted transmission of radio, television and multimedia data services</td>
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12. Committee on Space Research
international designator: 2001-025A

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<thead>
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<th>Name of space object:</th>
<th>ASTRA 2C</th>
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<tr>
<td>Launch date:</td>
<td>16 June 2001</td>
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<tr>
<td>Launch site:</td>
<td>Baikonur, Kazakhstan</td>
</tr>
<tr>
<td>Launcher:</td>
<td>Proton</td>
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<tr>
<td>Owner of object:</td>
<td>SES ASTRA</td>
</tr>
</tbody>
</table>
Orbital characteristics:

- Nodal period: 1,435.8-1,436.4 minutes
- Maximum inclination: 0.12 degrees
- Apogee: 35,820 km
- Perigee: 35,752 km
- Longitude: 19.2 degrees East since 24 May 2011

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\(^a\)

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 from 31 May 2012
- Apogee: 35,820 km
- Perigee: 35,752 km
- Longitude: 23.7 degrees East

General purpose of object: Encrypted and unencrypted transmission of radio, television and multimedia data services; occasional-use services; 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)

\(^a\) Frequency usage rights for this satellite are held by Media Broadcast (formerly Deutsche Telekom and DFS Kopernikus).
### Orbital characteristics:
- **Nodal period:** 1,435.8-1,436.4 minutes
- **Maximum inclination:** 0.12 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 (France)
**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:** 0.12 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 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:** 0.12 degrees
17. Committee on Space Research

International designator: 2010-021A

Name of space object: ASTRA 3B
Launch date: 21 May 2007
Launch site: Kourou, French Guiana (France)
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 services, VSA T, 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 (France)
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: 28.2 degrees East since 20 October 2011

General purpose of object: Encrypted and unencrypted transmission of radio, television, multimedia data services, VSAT, and broadband services
<table>
<thead>
<tr>
<th>Number</th>
<th>Committee on Space Research</th>
<th>International designator:</th>
<th>Name of space object</th>
<th>Launch date</th>
<th>Launch site</th>
<th>Launcher</th>
<th>Owner of object</th>
<th>Orbital characteristics</th>
<th>General purpose of object</th>
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<tr>
<td>19.</td>
<td>Committee on Space Research</td>
<td>2011-058C</td>
<td>Vesselsat 1</td>
<td>12 October 2011</td>
<td>Sriharikota, India</td>
<td>PSLV-CA</td>
<td>LuxSpace</td>
<td>102.10 minutes, 20.00 degrees, 867.00 km, 847.00 km</td>
<td>Encrypted and unencrypted transmission of radio, television, multimedia data services, VSAT, and broadband services</td>
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<td>20.</td>
<td>Committee on Space Research</td>
<td>2012-051A</td>
<td>ASTRA 2F</td>
<td>28 September 2012</td>
<td>Kourou, French Guiana (France)</td>
<td>Ariane 5</td>
<td>SES ASTRA (through its subsidiary SES ASTRA 2F)</td>
<td>1,435.8-1,436.4 minutes, 0.10 degrees, 35,820 km, 35,752 km, 28.2 degrees East</td>
<td>Encrypted and unencrypted transmission of radio, television, multimedia data services, VSAT, and broadband services</td>
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<tr>
<td>21.</td>
<td>Committee on Space Research</td>
<td>2012-001B</td>
<td>Vesselsat 2</td>
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</table>
Launch date: 9 January 2012
Launch site: Taiyuan LC-9, China
Launcher: Chang Zheng 4B Y26
Owner of object: LuxSpace
Orbital characteristics:
   Nodal period: 94.30 minutes
   Maximum inclination: 97.50 degrees
   Apogee: 490.00 km
   Perigee: 479.00 km
General purpose of object: Automatic Identification System (AIS) data collection