UK Civil Aviation Authority

UK supplementary register of space objects

To comply with international obligations and section 7 of the Outer Space Act 1986

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For any enquiries regarding this publication, please contact:

The Space Regulation team: commercialspaceflight@caa.co.uk

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Introduction

The UK is a signatory to several United Nations (UN) treaties governing the use of outer space including the Convention on the Registration of Space Objects 1976 ('Registration Convention').

One of the purposes of the Registration Convention is to ensure that a central registry of objects launched into outer space is established and maintained by the Secretary-General of the UN. As such, when a space object is launched, the Registration Convention requires the 'launching State' to notify the UN. The Convention defines the 'launching State' to mean either the State from whose territory the object was launched or the State which procured its launch (or whose nationals did).

The UN keeps information provided by member states relating to their space activity on its website. Furthermore, the Registration Convention requires the UK to maintain its own registry and this is embodied in Section 7 of the Outer Space Act 1986 (OSA) and Section 61 of the Space Industry Act 2018 (SIA).

The OSA and SIA ensure that there is transparency in the UK's space activity by stating that any person is able to inspect the registry. As such, the UK Civil Aviation Authority maintains this register on its website.

Space objects are entered onto the UK Supplementary Register where licences have been issued under the Outer Space Act 1986, the Outer Space Act 1986 (Gibraltar) Order 1996, the Outer Space Act 1986 (Cayman Islands) Order 1998 or the Space Industry Act 2018 but where the United Kingdom was either:

(i) not a "launching state" for the relevant space object, or

(ii) where it was jointly determined that another "launching state" should register the relevant space object.

United Nations Office for Outer Space Affairs website:
http://www.oosa.unvienna.org/oosa/en/SORegister/index.html

UK Civil Aviation Authority website:
https://www.caa.co.uk

Glossary of Terms

Apogee
The point on the orbit where the space object is furthest from the Earth.

Catalogue Number
The North American Aerospace Defense Command (NORAD) catalogue number is made up of five digits. It is unique to each space object and allows for tracking by NORAD. This system has been used since the first satellite was launched in 1957.

Designation
This is the designation assigned by the Committee on Space Research (COSPAR) to each space object launched. This number remains constant and reflects the year of the launch and the sequence of launch within that year. The inclusion of a letter, for example, ‘A’ indicates that the object was the first satellite catalogued from that launch.

Geostationary orbit
A geosynchronous orbit with an inclination of zero degrees and one in which the object is synchronised with the Earth’s rotation. The space object will appear to remain fixed above one particular point on the Earth’s equator. In geostationary orbit the space object is positioned approximately 35,900 km above the Earth.

Geostationary Transfer Orbit (GTO)
An elliptical orbit used to transfer a space object from low Earth orbit to geostationary/ geosynchronous orbit.

Geosynchronous orbit
A prograde, circular, low inclination orbit about the Earth having a period of 23 hours 56 minutes 4 seconds. A space object in such an orbit is tilted with respect to the plane of the equator. This means that the space object will remain over the same line of longitude but will wander up and down in latitude.

Inclination
The angular distance of the orbital plane from the Earth’s equator, stated in degrees.

Low Earth Orbit (LEO)
A space object in low Earth orbit is positioned between 160 km and 2,000 km above the Earth.

Medium Earth Orbit (MEO)
A space object that orbits the Earth below geostationary orbit and above low Earth orbit.

Nodal period
The time it takes a space object to travel once from ascending node to ascending node. The ascending node is the point at which an orbit crosses the ecliptic plane going north. The descending node is the point at which an orbit crosses the ecliptic plane going south.

Orbital Position
The longitude position around the geostationary orbit. The space objects are all approximately fixed in the sky above the equator.

Perigee
The point on the orbit where the object is nearest to the Earth.

MARCOPOLO 1/BSB-1A

Owner/Operator

British Satellite Broadcasting Ltd, The Marcopolo Building, Chelsea Bridge, Queenstown Road, London, SW8 4NQ

Date of launch

27 August 1989

Location of launch

Cape Canaveral, USA

Designation

1989-067A

Catalogue Number

20193

Nodal period

435.76 minutes

Inclination

0.15 degrees

Apogee

35,787 km

Perigee

35,777 km

Orbital position

130° W

General Function

Direct Broadcast Satellite

Notified to the UN

12 April 1990 – United Kingdom

Disposed or decayed

Now reorbited to approximately 300 km above GEO.

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

4 April 1990

Licence issued under the Outer Space Act 1986

21 August 1989

Additional Information

Notified the UN on 1 February 1999 that title and control of the satellite had been transferred to a Swedish national (Nordiska Satellitaktiebolaget, Vretenvagen 10, SE 171 54 Solna, Sweden). Now operated as SIRIUS 1 and carried on Swedish register of space objects.

Intelsat 603

Owner/Operator

Intelsat Global Sales and Marketing Ltd, 100 New Bridge Street, London, EC4V 6JA

Date of launch

14 March 1990

Location of launch

Cape Canaveral, USA

Designation

1990-021A

Catalogue Number

20523

Nodal period

One sidereal day

Inclination

7.33 degrees

Apogee

36,000 km (approx.)

Perigee

36,000 km (approx.)

Orbital position

11.5 E

General Function

Telecommunications

Notified to the UN

Not available

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

17 November 2010

Additional Information

The UK is not the launching state for this object. In orbit operations licence issued by the UK on 17 November 2010. On 8 January 2013 the control of the satellite was transferred to the Administration of the Republic of Argentina.

As a result, the licence has now expired.

MARCOPOLO-2/BSB-2

Owner/Operator

British Satellite Broadcasting Ltd, 6 Centaurs Business Park, Grant Way, Isleworth, Middlesex, TW7 5QD

Date of launch

17 August 1990

Location of launch

Cape Canaveral, USA

Designation

1990-074A

Catalogue Number

20762

Nodal period

1436.2 minutes

Inclination

0.36 degrees

Apogee

35,716 km

Perigee

35,859 km

Orbital position

0.80 W

General Function

Direct Broadcast Satellite

Notified to the UN

23 July 1991 – United Kingdom

Disposed or decayed

Now reorbited to approximately 300 km above GEO.

Disposal Notified to the UN

15 June 2007

Accepted onto UK Supplementary Register of Space Objects

5 June 1991

Licence issued under the Outer Space Act 1986

8 June 1990

Additional Information

Now operated by Norway by Norwegian national (Telenor Satellite Services, Keysergate 13/15, St. Olavs Plass, Oslo) as Thor 1 (1992).

I2-F1

Owner/Operator

Inmarsat Holdings Ltd, 99 City Road, London, EC1Y 1AX

Date of launch

30 October 1990

Location of launch

Cape Canaveral, Florida, USA

Designation

1990-093A

Catalogue Number

20918

Nodal period

23 hours 56 minutes

Inclination

1.95 degrees

Apogee

35,786 km

Perigee

35,786 km

Orbital position

109 E

General Function

Telecommunications satellite

Notified to the UN

Not available

Disposed or decayed

De-orbited on 20 April 2013 to lowest altitude of 383 km and highest altitude of 412 km above the geostationary ring.

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

23 March 1999

Licence issued under the Outer Space Act 1986

23 March 1999

Additional Information

Not available

I2-F2

Owner/Operator

Inmarsat Holdings Ltd, 99 City Road, London, EC1Y 1AX

Date of launch

8 March 1991

Location of launch

Cape Canaveral, Florida, USA

Designation

1991-018A

Catalogue Number

21149

Nodal period

1436 minutes

Inclination

2.71 degrees

Apogee

35,815 km

Perigee

35,767 km

Orbital position

142 W

General Function

Telecommunications satellite

Notified to the UN

9 September 2002 (please see additional information)

Disposed or decayed

18 December 2014 - Satellite consumed remaining onboard fuel to raise the orbit altitude to 440 km above GSO. The satellite was passivated by depleting accessible sources of energy and then switching off all subsystems per Space. Debris Mitigation Guidelines. Geostationary position: – 142.0 degrees East.

Disposal Notified to the UN

24 February 2014

Accepted onto UK Supplementary Register of Space Objects

23 March 1999

Licence issued under the Outer Space Act 1986

23 March 1999

Additional Information

The UK notified the UN of this satellite but not as launching state. Following the privatisation of the international organisation INMARSAT, title and control of this satellite was transferred to Inmarsat Holdings Ltd (a company incorporated in the UK).

I2-F3

Owner/Operator

Inmarsat Holdings Ltd, 99 City Road, London, EC1Y 1AX

Date of launch

16 December 1991

Location of launch

Kourou, French Guiana

Designation

1991-084B

Catalogue Number

21814

Nodal period

1436 minutes

Inclination

1.6 degrees

Apogee

35,786 km

Perigee

35,786 km

Orbital position

142 W

General Function

Telecommunications satellite

Notified to the UN

9 September 2002 (please see additional information)

Disposed or decayed

De-orbited on 28 April 2006 reaching an altitude of 200 km. Further burns were completed to raise beyond 1,000 km.

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

23 March 1999

Licence issued under the Outer Space Act 1986

23 March 1999

Additional Information

The UK notified the UN of this satellite but not as launching state. Following the privatisation of the international organisation INMARSAT, title and control of this satellite was transferred to Inmarsat Holdings Ltd (a company incorporated in the UK).

I2-F4

Owner/Operator

Inmarsat Holdings Ltd, 99 City Road, London, EC1Y 1AX

Date of launch

15 April 1992

Location of launch

Kourou, French Guiana

Designation

1992-021B

Catalogue Number

21940

Nodal period

1436 minutes

Inclination

2.07 degrees

Apogee

35,799 km

Perigee

35,773 km

Orbital position

107 E

General Function

Telecommunications satellite

Notified to the UN

9 September 2002 (please see additional information)

Disposed or decayed

5 April 2012 – Satellite achieved disposal altitude of 667 km above GEO and fully passivated.

Disposal Notified to the UN

24 February 2015

Accepted onto UK Supplementary Register of Space Objects

23 March 1999

Licence issued under the Outer Space Act 1986

23 March 1999

Additional Information

The UK notified the UN of this satellite but not as launching state. Following the privatisation of the international organisation INMARSAT, title and control of this satellite was transferred to Inmarsat Holdings Ltd (a company incorporated in the UK).

S80/T

Owner/Operator

Surrey Satellite Technology Ltd, University of Surrey, Guildford, Surrey, GU2 5XH

Date of launch

7 August 1992

Location of launch

Kourou, French Guiana

Designation

1992-052C

Catalogue Number

22078

Nodal period

111.94 minutes

Inclination

66.09 degrees

Apogee

1,328 km

Perigee

1,302 km

Orbital position

Not available

General Function

Experimental VHF communications and service demonstration

Notified to the UN

28 January 2004 - France

Disposed or decayed

Not available

Disposal Notified to the UN

Notified by France on 17 September 2007 – satellite no longer operational.

Accepted onto UK Supplementary Register of Space Objects

7 August 1992

Licence issued under the Outer Space Act 1986

7 August 1992

Additional Information

Inactive

KITSAT-1

Owner/Operator

Surrey Satellite Technology Ltd, University of Surrey, Guildford, Surrey, GU2 5XH

Date of launch

10 August 1992

Location of launch

Kourou, French Guiana

Designation

1992-052B

Catalogue Number

22077

Nodal period

111.88 minutes

Inclination

66.08 degrees

Apogee

1,329 km

Perigee

1,304 km

Orbital position

Not available

General Function

Communication & Earth Observation Payloads

Notified to the UN

4 January 1996 - Republic of Korea

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

7 August 1992

Licence issued under the Outer Space Act 1986

7 August 1992

Additional Information

Not available

POSAT-1

Owner/Operator

Surrey Satellite Technology Ltd, University of Surrey, Guildford, Surrey, GU2 5XH

Date of launch

26 September 1993

Location of launch

Kourou, French Guiana

Designation

1993-061G

Catalogue Number

22829

Nodal period

100.7 minutes

Inclination

98.5 degrees

Apogee

803 km

Perigee

788 km

Orbital position

Not available

General Function

Experimental research

Notified to the UN

8 June 1994 – United States

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

6 July 1993

Licence issued under the Outer Space Act 1986

6 July 1993

Additional Information

Not available

KITSAT-2 (KITSAT-B)

Owner/Operator

Surrey Satellite Technology Ltd, University of Surrey, Guildford, Surrey, GU2 5XH

Date of launch

26 September 1993

Location of launch

Kourou, French Guiana

Designation

1993-061C

Catalogue Number

22828

Nodal period

100.8 minutes

Inclination

98.6 degrees

Apogee

805.7 km

Perigee

790.4 km

Orbital position

Not available

General Function

Communication & Earth Observation Payloads

Notified to the UN

4 January 1996 – Republic of Korea

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

6 July 1993

Licence issued under the Outer Space Act 1986

6 July 1993

Additional Information

Not available

HEALTHSAT-II

Owner/Operator

Surrey Satellite Technology Ltd, University of Surrey, Guildford, Surrey, GU2 5XH

Date of launch

26 September 1993

Location of launch

Kourou, French Guiana

Designation

1993-061E

Catalogue Number

22827

Nodal period

100.7 minutes

Inclination

98.6 degrees

Apogee

802 km

Perigee

790 km

Orbital position

Not available

General Function

Communications satellite

Notified to the UN

8 June 1994 – United States

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

2 October 1993

Licence issued under the Outer Space Act 1986

2 August 1993

Additional Information

Not available

NATO IVB

Owner/Operator

Airbus Defence and Space Limited, Gunnels Wood Road, Stevenage, Hertfordshire, SG1 2AS

Date of launch

8 December 1993

Location of launch

United States

Designation

1993-076A

Catalogue Number

22921

Nodal period

1436.237 minutes

Inclination

11.474 degrees

Apogee

35,803.550 km

Perigee

35,775.113 km

Orbital position

33 E

General Function

Military Communications

Notified to the UN

9 June 1994 - United States

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

March 2015

Licence issued under the Outer Space Act 1986

29 May 2003

Additional Information

Ownership of the spacecraft passed from NATO to the United Kingdom on 8 December 2010 and from the United Kingdom to Paradigm Secure Communications Limited on the same day. On 1 January 2015, Paradigm's rights and responsibilities passed to Airbus Defence and Space Ltd.

FASAT-ALPHA

Owner/Operator

Surrey Satellite Technology Ltd, University of Surrey, Guildford, Surrey, GU2 5XH

Date of launch

31 August 1995

Location of launch

Plesetsk, Russian Federation

Designation

1995-046A

Catalogue Number

Not separately catalogued (see additional information)

Nodal period

97.7 minutes

Inclination

82.5 degrees

Apogee

669 km

Perigee

632 km

Orbital position

Not available

General Function

Not available

Notified to the UN

22 September 1995 – Ukraine. Then 13 December 2012 – Chile

Disposed or decayed

Expected life 5 years

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

16 August 1995

Licence issued under the Outer Space Act 1986

16 August 1995

Additional Information

Failed to separate from Ukrainian host - SICH-1.

I3-F1

Owner/Operator

Inmarsat Holdings Ltd, 99 City Road, London, EC1Y 1AX

Date of launch

3 April 1996

Location of launch

Cape Canaveral, Florida, USA

Designation

1996-020A

Catalogue Number

23839

Nodal period

23 hours 56 minutes

Inclination

0.05 degrees

Apogee

35,786 km

Perigee

35,786 km

Orbital position

63.9 E

General Function

Telecommunications

Notified to the UN

9 September 2002 (please see additional information)

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

23 March 1999

Licence issued under the Outer Space Act 1986

23 March 1999

Additional Information

The UK notified the UN of this satellite but not as launching state. Following the privatisation of the international organisation INMARSAT, title and control of this satellite was transferred to Inmarsat Holdings Ltd (a company incorporated in the UK).

I3-F2

Owner/Operator

Inmarsat Holdings Ltd, 99 City Road, London, EC1Y 1AX

Date of launch

6 September 1996

Location of launch

Baikonur, Kazakhstan

Designation

1996-053A

Catalogue Number

24307

Nodal period

23 hours 56 minutes

Inclination

0.05 degrees

Apogee

35,786 km

Perigee

35,786 km

Orbital position

15.5 E

General Function

Telecommunications

Notified to the UN

9 September 2002 (please see additional information)

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

23 March 1999

Licence issued under the Outer Space Act 1986

23 March 1999

Additional Information

The UK notified the UN of this satellite but not as launching state. Following the privatisation of the international organisation INMARSAT, title and control of this satellite was transferred to Inmarsat Holdings Ltd (a company incorporated in the UK). Began to manoeuvre 05/02/19 and now in permanent drift mode.

I3-F3

Owner/Operator

Inmarsat Holdings Ltd, 99 City Road, London, EC1Y 1AX

Date of launch

18 December 1996

Location of launch

Cape Canaveral, Florida, USA

Designation

1996-070A

Catalogue Number

24674

Nodal period

23 hours 56 minutes

Inclination

0.05 degrees

Apogee

35,786 km

Perigee

35,786 km

Orbital position

178.1 E

General Function

Telecommunications

Notified to the UN

9 September 2002 (please see additional information)

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

23 March 1999

Licence issued under the Outer Space Act 1986

23 March 1999

Additional Information

The UK notified the UN of this satellite but not as launching state. Following the privatisation of the international organisation INMARSAT, title and control of this satellite was transferred to Inmarsat Holdings Ltd (a company incorporated in the UK).

Intelsat 26

Owner/Operator

Intelsat Global Sales & Market Ltd, 100 New Bridge Street, London, EC4V 6JA

Date of launch

17 February 1997

Location of launch

Cape Canaveral, USA

Designation

1997-007A

Catalogue Number

24732

Nodal period

One sidereal day

Inclination

5.1 degrees

Apogee

36,000 km (approx.)

Perigee

36,000 km (approx.)

Orbital position

62.2 E

General Function

The purpose of the mission is to operate a telecommunications satellite and to provide capacity for the provision of various telecommunications services.

Notified to the UN

24 April 1998 – Japan

Disposed or decayed

09 December 2021

Disposal Notified to the UN

20 December 2021

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

10 October 2013

Additional Information

Intelsat 26 was formerly known by its commercial name of “JCSAT-4” or “JCSAT-R”. The UK authorised operations only. IS 26 was redeployed to orbital position 65.8 E on 11 July 2017. IS 26 was redeployed to orbital position 62.28E on 25 September 2018. Redeployed to 63.65E 25 November 2019. Reached end of life December 2021

THOR II

Owner/Operator

Telenor (UK) Ltd, 1st Floor, 40 Bernhard Street, London, WC1N 1LE

Date of launch

20 May 1997

Location of launch

Cape Canaveral, Florida, USA

Designation

1997-025A

Catalogue Number

24808

Nodal period

23 hours 56 minutes

Inclination

<0.05 degrees

Apogee

35,794 km

Perigee

35,781 km

Orbital position

23.3 E

General Function

Communications satellite serving Scandinavia.

Notified to the UN

Not available

Disposed or decayed

On 10 January 2013 the satellite was de-orbited 350 km above the geostationary ring.

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

27 February 1998

Licence issued under the Outer Space Act 1986

27 February 1998

Additional Information

Licence issued to take on lease of the satellite.

I3-F4

Owner/Operator

Inmarsat Holdings Ltd, 99 City Road, London, EC1Y 1AX

Date of launch

3 June 1997

Location of launch

Kourou, French Guiana

Designation

1997-027A

Catalogue Number

24819

Nodal period

23 hours 56 minutes

Inclination

0.05 degrees

Apogee

35,786 km

Perigee

35,786 km

Orbital position

54 W

General Function

Telecommunications

Notified to the UN

9 September 2002 (please see additional information)

Disposed or decayed

Deorbited on 11 May 2016

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

23 March 1999

Licence issued under the Outer Space Act 1986

23 March 1999

Additional Information

The UK notified the UN of this satellite but not as launching state. Following the privatisation of the international organisation INMARSAT, title and control of this satellite was transferred to Inmarsat Holdings Ltd (a company incorporated in the UK).

TMSAT-1

Owner/Operator

Surrey Satellite Technology Ltd, University of Surrey, Guildford, Surrey, GU2 5XH

Date of launch

10 July 1998

Location of launch

Baikonur, Kazakhstan

Designation

1998-043C

Catalogue Number

25396

Nodal period

101.1 minutes

Inclination

98 degrees

Apogee

815 km

Perigee

811 km

Orbital position

Not available

General Function

Earth imaging

Notified to the UN

Not available

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

12 January 1998

Licence issued under the Outer Space Act 1986

12 January 1998

Additional Information

THOR III

Owner/Operator

Telenor (UK) Ltd, 1st Floor, 40 Bernhard Street, London, WC1N 1LE

Date of launch

10 June 1998

Location of launch

Cape Canaveral, Florida, USA

Designation

1998-035A

Catalogue Number

25358

Nodal period

23 hours 56 minutes

Inclination

<0.015 degrees

Apogee

35,819 km

Perigee

35,754 km

Orbital position

4.3 W

General Function

Broadcasting to the Nordic countries.

Notified to the UN

Not available

Disposed or decayed

Expected life 11 years & 6 months

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

27 February 1998

Licence issued under the Outer Space Act 1986

27 February 1998

Additional Information

Licence issued to take on lease of the satellite.

I3-F5

Owner/Operator

Inmarsat Holdings Ltd, 99 City Road, London, EC1Y 1AX

Date of launch

4 February 1998

Location of launch

Kourou, French Guiana

Designation

1998-006B

Catalogue Number

25153

Nodal period

23 hours 56 minutes

Inclination

0.4 degrees

Apogee

35,786 km

Perigee

35,786 km

Orbital position

54.2°W

General Function

Telecommunications

Notified to the UN

9 September 2002 (please see additional information)

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

23 March 1999

Licence issued under the Outer Space Act 1986

23 March 1999

Additional Information

The UK notified the UN of this satellite but not as launching state. Following the privatisation of the international organisation INMARSAT, title and control of this satellite was transferred to Inmarsat Holdings Ltd (a company incorporated in the UK). I3-F5 has now moved to orbital position 306 E.

Updated August 2018 - relocated to 54.2°W.

Galaxy 27

Owner/Operator

Intelsat Global Sales & Market Ltd, 100 New Bridge Street, London, EC4V 6JA

Date of launch

25 September 1999

Location of launch

Kourou, French Guiana

Designation

1999-052A

Catalogue Number

25922

Nodal period

One sidereal day

Inclination

No inclination in orbit

Apogee

36,000 km (approx.)

Perigee

36,000 km (approx.)

Orbital position

66.2 E

General Function

The purpose of the mission is to operate a telecommunications satellite and to provide capacity for the provision of various telecommunications services.

Notified to the UN

7 March 2000 - United States

Disposed or decayed

Deorbited on 11 May 2016

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

10 September 2013

Additional Information

UK authorised in orbit operations only. Galaxy 27 was formerly known as Telstar 7.

TSINGHUA-1

Owner/Operator

Surrey Satellite Technology Ltd, University of Surrey, Guildford, Surrey, GU2 5XH

Date of launch

28 June 2000

Location of launch

Plesetsk, Russian Federation

Designation

2000-033B

Catalogue Number

26385

Nodal period

98.66 minutes

Inclination

98.13 degrees

Apogee

7,084.14 km

Perigee

7,016.32 km

Orbital position

Not available

General Function

Earth imaging - demonstrator DMC

Notified to the UN

6 December 2000 - China

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

26 June 2000

Licence issued under the Outer Space Act 1986

26 June 2000

Additional Information

The Tsinghua-1 microsatellite was jointly developed by the Tsinghua University of China and Surrey Satellite Technology Ltd.

ICO-F2

Owner/Operator

ICO Services Ltd, Symphony House, Cowley Business Park, Uxbridge, UB8 2AD

Date of launch

19 June 2001

Location of launch

Cape Canaveral, Florida, USA

Designation

2001-026A

Catalogue Number

26857

Nodal period

351.2 minutes

Inclination

44.91 degrees

Apogee

10,113.4 km

Perigee

10,109.1 km

Orbital position

Not available

General Function

Telecommunications

Notified to the UN

Not available

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

27 September 2001

Licence issued under the Outer Space Act 1986

12 June 2001

Additional Information

Ownership and operating rights were transferred to Omnispace, a US company in 2012 and UN registration transferred to US.

Artemis

Owner/Operator

Avanti Communications Group PLC, Avanti Communications Ltd, Cobham House, 20 Black Friars Lane, London, EC4V 6EB

Date of launch

12 July 2001

Location of launch

Kourou, French Guiana

Designation

2001-029A

Catalogue Number

26863

Nodal period

1436 minutes

Inclination

10.7 degrees

Apogee

35,807.2 km

Perigee

35,778.5 km

Orbital position

21.55 E

General Function

ARTEMIS is a data relay satellite with optical, S-band and Ka-band payloads including also a L-band land mobile and navigation payload for the European global navigation overlay system (EGNOS).

Notified to the UN

11 August 2003 – European Space Agency

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

20 December 2013

Additional Information

UK authorised in orbit operations only. Approved moves from 21.55E to 55E then 123E in 2016. Notification from ESA of decommissioning December 2018.

SIRIUS 4

Owner/Operator

SES Satellite Leasing Ltd, 16 Athol Street, Douglas, Isle of Man, IM1 1JA

Date of launch

17 November 2007

Location of launch

Baikonur, Kazakhstan

Designation

2007-057A

Catalogue Number

32299

Nodal period

1 sidereal day

Inclination

0.0472 degrees

Apogee

35,803.1 km

Perigee

35,770.5 km

Orbital position

5 E

General Function

Communications

Notified to the UN

5 February 2008 - Sweden

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

12 November 2007

Licence issued under the Outer Space Act 1986

12 November 2007

Additional Information

The UK authorised the launch of this satellite. The satellite is operated by SES Sirius in Sweden – operation is authorised by the Swedish National Space Board.

SSTL Deimos-1

Owner/Operator

Surrey Satellite Technology Ltd, Tycho House, 20 Stephenson Road, Guildford, GU2 7YE

Date of launch

29 July 2009

Location of launch

Yasny Cosmodrome, Russia

Designation

2009-041A

Catalogue Number

35681

Nodal period

97.43 – 97.9 minutes

Inclination

98.13 degrees

Apogee

680 km

Perigee

665 km

Orbital position

Not available

General Function

Disaster Monitoring

Notified to the UN

27 January 2010 - Spain

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

29 July 2009

Licence issued under the Outer Space Act 1986

24 July 2009

Additional Information

Satellite owned and operated in Spain.

SES-1

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 - 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

24 April 2010

Location of launch

Baikonur, Kazakhstan

Designation

2010-016A

Catalogue Number

36516

Nodal period

86,169.5 seconds

Inclination

0.0472 degrees

Apogee

35,803.1 km

Perigee

35,770.5 km

Orbital position

101 W

General Function

Communications

Notified to the UN

26 July 2012 – United States

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

March 2011

Licence issued under the Outer Space Act 1986

22 April 2010

Additional Information

UK authorised launch only. Satellite owned, operated and registered with the UN by the United States.

Astra 1N

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 - 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

6 August 2011

Location of launch

Kourou, French Guiana

Designation

2011-041A

Catalogue Number

37775

Nodal period

1435.8 to 1436.4 minutes

Inclination

0.10 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

28.2 E

General Function

Commercial telecommunications

Notified to the UN

15 July 2014 - Luxembourg

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

29 June 2011

Additional Information

UK authorised launch only. Satellite is owned and operated by a company incorporated in Luxembourg. Astra 1N has now moved to orbital position 19.2 E

N2

Owner/Operator

Surrey Satellite Technology Ltd, Tycho House, 20 Stephenson Road, Guildford, GU2 7YE

Date of launch

17 August 2011

Location of launch

The Cosmodrome, Yasny, Russian Federation

Designation

2011-044B

Catalogue Number

37789

Nodal period

98.7 minutes

Inclination

98.2 degrees

Apogee

704 km

Perigee

692 km

Orbital position

Not available

General Function

Provision of remote sensing data to help Nigeria understand and manage its environment and natural resources.

Notified to the UN

1 July 2014 - Nigeria

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

6 September 2012

Additional Information

NigeriaSat-X (NX)

Owner/Operator

Surrey Satellite Technology Ltd, Tycho House, 20 Stephenson Road, Guildford, GU2 7YE

Date of launch

17 August 2011

Location of launch

Yasny launch base, Russian Federation

Designation

2011-044C

Catalogue Number

37790

Nodal period

98.8 minutes

Inclination

98.18 degrees

Apogee

716.9 km

Perigee

697.6 km

Orbital position

Not available

General Function

NX is an Earth observation mission. It is a space-based optical sensor system that provides accurate and timely images of the Earth. The NX imaging payload provides medium resolution 22-m ground-sample distance, 3-band multispectral imaging. NX is a contributing sensor to the Disaster Monitoring Constellation. Imagery transmitted to ground stations will be used for humanitarian, environmental and commercial applications.

Notified to the UN

1 July 2014 – Nigeria

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

May 2015

Licence issued under the Outer Space Act 1986

17 July 2014

Additional Information

OSA licence issued to SSTL for operation of the satellite for a period of approximately two years.

SES-2

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 - 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

21 September 2011

Location of launch

Kourou, French Guiana

Designation

2011-049A

Catalogue Number

37809

Nodal period

1435.8 – 1436.4 minutes

Inclination

0.05 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

87 W

General Function

SES-2 is a communications satellite which carries video and data services.

Notified to the UN

14 November 2011– United States

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

18 August 2011

Additional Information

UK authorised launch only. Satellite owned and registered with the UN by the United States.

NSS14 (SES-4)

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 - 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

14 February 2012

Location of launch

Baikonur, Kazakhstan

Designation

2012-007A

Catalogue Number

38087

Nodal period

1435.8 to 1436.4 minutes

Inclination

0.05 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

338 E

General Function

Commercial Telecommunications

Notified to the UN

4 November 2013 – The Netherlands

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

19 December 2011

Additional Information

Satellite is owned and operated by a company incorporated in the Netherlands.

ADS-1B (EXACTVIEW-1)

Owner/Operator

Surrey Satellite Technology Ltd, Tycho House, 20 Stephenson Road, Guildford, GU2 7YE

Date of launch

22 July 2012

Location of launch

Baikonur, Kazakhstan

Designation

2012-039C

Catalogue Number

38709

Nodal period

101.2 minutes

Inclination

98.9 degrees

Apogee

822 km

Perigee

805 km

Orbital position

Not available

General Function

The ADS system is an ocean surveillance system designed to capture, downlink, process and distribute AIS signals currently being transmitted by over 68,000 vessels worldwide

Notified to the UN

10 December 2012 – Canada

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

20 July 2012 & 19 November 2013

Additional Information

The UK authorised operations only.

Astra 2F

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 - 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

28 September 2012

Location of launch

Kourou, French Guiana

Designation

2012-051A

Catalogue Number

38778

Nodal period

1435.8 to 1436.4 minutes

Inclination

0.10 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

28.2 E

General Function

Commercial Telecommunications

Notified to the UN

15 July 2014 - Luxembourg

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

3 September 2012

Additional Information

UK authorised launch only. Satellite is owned and operated by a company incorporated in Luxembourg.

SES-6

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 - 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

3 June 2013

Location of launch

Baikonur, Kazakhstan

Designation

2013-026A

Catalogue Number

39172

Nodal period

1435.8 to 1436.4 minutes

Inclination

0.05 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

40.5 W

General Function

Communications

Notified to the UN

23 September 2013 – The Netherlands

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

22 May 2013

Additional Information

UK authorised the launch only. Satellite is owned and operated by a company incorporated in the Netherlands.

Astra 2E

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 - 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

29 September 2013

Location of launch

Baikonur, Kazakhstan

Designation

2013-056A

Catalogue Number

39285

Nodal period

1435.8 to 1436.4 minutes

Inclination

0.10 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

28.27 E (from February 2014)

General Function

Communications

Notified to the UN

15 July 2014 - Luxembourg

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

30 August 2013

Additional Information

UK authorised launch only. Satellite is owned and operated by a company incorporated in Luxembourg.

SES-8

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 - 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

3 December 2013

Location of launch

Cape Canaveral, USA

Designation

2013-071A

Catalogue Number

39460

Nodal period

1435.8 to 1436.4 minutes

Inclination

0.05 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

81 E

General Function

Communications

Notified to the UN

14 February 2014 - The Netherlands

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

30 October 2013

Additional Information

UK authorised launch only. Satellite is owned by a company incorporated in the Netherlands. Transferred to orbital position 95E in January 2014.

Astra 5B

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 - 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

22 March 2014

Location of launch

Kourou, French Guiana

Designation

2014-011B

Catalogue Number

39617

Nodal period

1,435.8-1,436.4 minutes

Inclination

0.10 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

31.55 E

General Function

Encrypted and unencrypted transmission of radio, television, multimedia data, VSAT and broadband services.

Notified to the UN

15 July 2014 - Luxembourg

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

May 2015

Licence issued under the Outer Space Act 1986

Not available

Additional Information

UK authorised launch only. Satellite is owned and operated by a company incorporated in Luxembourg.

Astra 2G

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 - 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

27 December 2014

Location of launch

Baikonur Cosmodrome, Kazakhstan

Designation

2014-089A

Catalogue Number

40364

Nodal period

1,435.8-1,436.4 minutes

Inclination

0.10 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

28.2 East (from 16 June 2015)

General Function

Communications.

Notified to the UN

To be notified by Luxembourg.

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

May 2015

Licence issued under the Outer Space Act 1986

14 November 2014

Additional Information

UK authorised launch only. Satellite is owned and operated by a company incorporated in Luxembourg.

AISat-1B

Owner/Operator

Surrey Satellite Technology Limited, Tycho House, 20 Stephenson Road, Guildford, Surrey, GU2 7YE

Date of launch

26 September 2016

Location of launch

Sriharikota, India

Designation

2016-059C

Catalogue Number

41785

Nodal period

98.41 minutes

Inclination

98.20 degrees

Apogee

705 km

Perigee

660 km

Orbital position

Not available

General Function

Medium Resolution Earth Observation Satellite.

Notified to the UN

21 November 2016 - Algeria

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2017

Licence issued under the Outer Space Act 1986

6 September 2016

Additional Information

Satellite operated and registered with the UN by Algeria. Licence expired 16 October 2020

Sapphire

Owner/Operator

Surrey Satellite Technology Limited, Tycho House, 20 Stephenson Road, Guildford, Surrey, GU2 7YE

Date of launch

25 February 2013

Location of launch

Sriharikota, India

Designation

2013-009C

Catalogue Number

39088

Nodal period

100.44 minutes

Inclination

98.63 degrees

Apogee

788 km

Perigee

771 km

Orbital position

Not available

General Function

Space-based electro-optical sensor designed to detect and track deep space objects at altitudes between 6,000 km and 40,000 km above the Earth’s surface, including operational and non-operational satellites and other manmade objects.

Notified to the UN

15 April 2013 - Canada

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

July 2017

Licence issued under the Outer Space Act 1986

4 February 2013

Additional Information

Not available

RadpidEye-1

Owner/Operator

Surrey Satellite Technology Limited, Tycho House, 20 Stephenson Road, Guildford, Surrey, GU2 7YE

Date of launch

29 August 2008

Location of launch

Baikonur, Kazakhstan

Designation

2008-040C

Catalogue Number

33314

Nodal period

97.3 minutes

Inclination

97.98 degrees

Apogee

648 km

Perigee

611 km

Orbital position

Not available

General Function

Commercial Earth observation.

Notified to the UN

26 May 2009 - Germany

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

July 2017

Licence issued under the Outer Space Act 1986

28 August 2008

Additional Information

End of life March 2020

RapidEye-2

Owner/Operator

Surrey Satellite Technology Limited, Tycho House, 20 Stephenson Road, Guildford, Surrey, GU2 7YE

Date of launch

29 August 2008

Location of launch

Baikonur, Kazakhstan

Designation

2008-040A

Catalogue Number

33312

Nodal period

97.3 minutes

Inclination

97.98 degrees

Apogee

639 km

Perigee

620 km

Orbital position

Commercial Earth observation.

General Function

26 May 2009 - Germany

Notified to the UN

Not available

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

July 2017

Licence issued under the Outer Space Act 1986

28 August 2008

Additional Information

End of life March 2020

RapidEye-3

Owner/Operator

Surrey Satellite Technology Limited, Tycho House, 20 Stephenson Road, Guildford, Surrey, GU2 7YE

Date of launch

29 August 2008

Location of launch

Baikonur, Kazakhstan

Designation

2008-040D

Catalogue Number

33315

Nodal period

97.3 minutes

Inclination

97.98 degrees

Apogee

639 km

Perigee

620 km

Orbital position

Not available

General Function

Commercial Earth Observation

Notified to the UN

26 May 2009 - Germany

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

July 2017

Licence issued under the Outer Space Act 1986

28 August 2008

Additional Information

End of life March 2020

RapidEye-4

Owner/Operator

Surrey Satellite Technology Limited, Tycho House, 20 Stephenson Road, Guildford, Surrey, GU2 7YE

Date of launch

29 August 2008

Location of launch

Baikonur, Kazakhstan

Designation

2008-040E

Catalogue Number

33316

Nodal period

97.3 minutes

Inclination

97.98 degrees

Apogee

639 km

Perigee

621 km

Orbital position

Not applicable

General Function

Commercial Earth Observation

Notified to the UN

26 May 2009 - Germany

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

July 2017

Licence issued under the Outer Space Act 1986

28 August 2008

Additional Information

End of life March 2020

RapidEye-5

Owner/Operator

Surrey Satellite Technology Limited, Tycho House, 20 Stephenson Road, Guildford, Surrey, GU2 7YE

Date of launch

29 August 2008

Location of launch

Baikonur, Kazakhstan

Designation

2008-040B

Catalogue Number

33316

Nodal period

97.3 minutes

Inclination

97.98 degrees

Apogee

639 km

Perigee

621 km

Orbital position

Not available

General Function

Commercial Earth Observation

Notified to the UN

26 May 2009 - Germany

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

July 2017

Licence issued under the Outer Space Act 1986

28 August 2008

Additional Information

End of life March 2020

SES-10

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 – 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

30 March 2017

Location of launch

Cape Canaveral, USA

Designation

2017-017A

Catalogue Number

42432

Nodal period

1,436 minutes

Inclination

0.04 degrees

Apogee

35,796 km

Perigee

35,778 km

Orbital position

67 W

General Function

Telecommunications Satellite

Notified to the UN

1 June 2017 - USA

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

13 September 2017

Licence issued under the Outer Space Act 1986

24 March 2017

Additional Information

UK licensed launch only. Satellite operated and registered with the UN by USA.

The Telesat Phase 1 LEO

Owner/Operator

Surrey Satellite Technology Ltd, Tycho House, 20 Stephenson Road, Surrey Research Park, Guildford, Surrey, GU2 7YE

Date of launch

12 January 2018

Location of launch

Sriharikota, India

Designation

2018-004S

Catalogue Number

43113

Nodal period

105.1 minutes

Inclination

99.5 degrees

Apogee

1,016.10 km

Perigee

1,003.60 km

Orbital position

Not available

General Function

Telecommunications Satellite

Notified to the UN

31 January 2019 - USA

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

3 April 2019

Licence issued under the Outer Space Act 1986

26 September 2018

Additional Information

UK licensed launch only and temporary operations licence expired August 2021. Satellite operated and registered with the UN by Canada.

SES-14

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 – 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

25 January 2018

Location of launch

Kourou, French Guiana

Designation

2018-012B

Catalogue Number

43175

Nodal period

1,436.1 minutes

Inclination

0.02 degrees

Apogee

35798.60 km

Perigee

35789.10 km

Orbital position

47.5 W

General Function

Telecommunications Satellite

Notified to the UN

7 June 2018 - Brazil

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

19 July 2019

Licence issued under the Outer Space Act 1986

19 January 2018

Additional Information

UK licensed launch only. Satellite operated and registered with the UN by Brazil.

KazSTSat

Owner/Operator

Surrey Satellite Technology Ltd, Tycho House, 20 Stephenson Road, Guildford, GU2 7YE

Date of launch

3 December 2018

Location of launch

Vandenberg Space Force Base, United States of America

Designation

2018-099AB

Catalogue Number

43783

Nodal period

96.3 minutes

Inclination

97.8 degrees

Apogee

599.7 km

Perigee

579 km

Orbital position

Not applicable

General Function

Earth Observation

Notified to the UN

Not available (Kazakhstan)

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

26 July 2019

Licence issued under the Outer Space Act 1986

9 October 2018

Additional Information

UK licensed operations only. Satellite operated and to be registered with the UN by Kazakhstan.

SES AMC-18

Owner/Operator

SES Global Satellite Leasing Limited, 15-19 Athol Street, Douglas, Isle of Man, IM1 1LB

Date of launch

8th December 2006

Location of launch

CSG Kourou, French Guiana

Designation

2006-054B

Catalogue Number

29644

Nodal period

23h 56m

Inclination

0.1 degrees

Apogee

35,797 km

Perigee

35,776 km

Orbital position

105 W

General Function

Communications

Notified to the UN

6 October 2008

Disposed or decayed

14 November 2023

Disposal Notified to the UN

20 November 2023

Accepted onto UK Supplementary Register of Space Objects

24 November 2023

Licence issued under the Outer Space Act 1986

4 December 2006

Additional Information

Operated by SES Satellites (Gibraltar) Ltd – operation licence issued by Gibraltar Regulatory Authority on 27 September 2006. USA licensed from March 2018 with Gibraltar as back up. Transferred to orbital position 139°W in April 2018.

HS3-IS (Hellas Sat-3)

Owner/Operator

Inmarsat Global Ltd, 99 City Road, London, EC1Y 1AX

Date of launch

28 June 2017

Location of launch

Kourou, French Guiana

Designation

2017-040A

Catalogue Number

42814

Nodal period

1436.1

Inclination

0.048

Apogee

42168

Perigee

42162

Orbital position

Not available

General Function

Communications

Notified to the UN

2 March 2022

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

September 2019

Licence issued under the Outer Space Act 1986

28 June 2017

Additional Information

Not available

SES-11/EchoStar 105

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 – 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

11 October 2017

Location of launch

Cape Canaveral, USA

Designation

2017-063A

Catalogue Number

42967

Nodal period

1436.1

Inclination

0.04

Apogee

35804

Perigee

35782

Orbital position

104.9W

General Function

Communications

Notified to the UN

Pending by USA

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

September 2019

Licence issued under the Outer Space Act 1986

26 September 2017

Additional Information

Not available

SES-12

Owner/Operator

SES Satellite Leasing Ltd, First Floor, Belgravia House, 34 – 44 Circular Road, Douglas, Isle of Man, IM1 1AE

Date of launch

4 June 2018

Location of launch

Cape Canaveral, USA

Designation

2018-049A

Catalogue Number

43488

Nodal period

1436.1

Inclination

0.04

Apogee

35800

Perigee

35787

Orbital position

95E

General Function

Communications

Notified to the UN

Pending by USA

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

September 2019

Licence issued under the Outer Space Act 1986

11 May 2018

Additional Information

Not available

SeaHawk-1

Owner/Operator

Clyde Space, 123 St Vincent Street, Glasgow, G2 5EA

Date of launch

3 December 2018

Location of launch

Vandenberg Space Force Base, United States of America

Designation

2018-099BQ

Catalogue Number

43820

Nodal period

96.29

Inclination

97.74

Apogee

590

Perigee

572

Orbital position

Not available

General Function

Earth Observations

Notified to the UN

8 January 2020

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

September 2019

Licence issued under the Outer Space Act 1986

14 November 2018

Additional Information

Licence issued under Space Industry Act 2018 on 18 August 2022.

Da Vinci

Owner/Operator

Clyde Space, 123 St Vincent Street, Glasgow, G2 5EA

Date of launch

16 December 2018

Location of launch

Launch Complex 1, New Zealand

Designation

2018-104J

Catalogue Number

43857

Nodal period

94.7

Inclination

85

Apogee

523.8

Perigee

497.8

Orbital position

Not available

General Function

Technology Demonstration

Notified to the UN

08/01/2020

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

September 2019

Licence issued under the Outer Space Act 1986

19 July 2018

Additional Information

Decommissioned 11 December 2019

EchoStar 23/Echostar XXIII

Owner/Operator

Hughes Network Systems Ltd, Hughes House, Rockingham Drive, Milton Keynes, MK14 6PD

Date of launch

16 March 2017

Location of launch

Cape Canaveral, USA

Designation

2017-014A

Catalogue Number

42070

Nodal period

1,436 minutes

Inclination

0 degrees

Apogee

35,796 km

Perigee

35,776 km

Orbital position

44.9 E

General Function

Communications Satellite

Notified to the UN

4 July 2017

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

July 2017

Licence issued under the Outer Space Act 1986

31 January 2017

Additional Information

Relocation to 67.9W 19/08/2019. Change of owner to EchoStar XXIII License Sub Ltd 10 September 2019.

KazEOSat-2

Owner/Operator

Surrey Satellite Technology Ltd, Tycho House, 20 Stephenson Road, Guildford, GU2 7YE

Date of launch

19 June 2014

Location of launch

Yasny, Russia

Designation

2014-033A

Catalogue Number

40010

Nodal period

97.2 minutes

Inclination

97.9 degrees

Apogee

646.9 km

Perigee

625.1 km

Orbital position

Not available

General Function

Earth Observation

Notified to the UN

Not available (Kazakhstan)

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

1 July 2020

Licence issued under the Outer Space Act 1986

17 December 2015

Additional Information

Also known as Kazakhstan MRES. UK licensed operations only. Satellite operated and to be registered with the UN by Kazakhstan. Temporary emergency ops licence expired 30 April 2016.

PICASSO

Owner/Operator

Clyde Space, 123 Vincent Street, Glasgow, G2 5EA

Date of launch

3 September 2020

Location of launch

Kourou, French Guiana

Designation

2020-061K

Catalogue Number

46281

Nodal period

95.32

Inclination

97.52 degrees

Apogee

539

Perigee

535

Orbital position

Not available

General Function

Earth Observation Satellite

Notified to the UN

4 September 2020

Disposed or decayed

13 April 2024

Disposal Notified to the UN

13 April 2024

Accepted onto UK Supplementary Register of Space Objects

October 2020

Licence issued under the Outer Space Act 1986

10 June 2020

Additional Information

Operations only licence

Turksat 5A

Owner/Operator

Airbus Defence & Space Ltd, Gunnels Wood Road, Stevenage Hertfordshire, SG1 2AS

Date of launch

8 January 2021

Location of launch

Cape Canaveral, USA

Designation

2021-001A

Catalogue Number

47306

Nodal period

1039.44

Inclination

17.65 degrees

Apogee

35787

Perigee

35786

Orbital position

31E

General Function

Military Communications

Notified to the UN

22 June 2021

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

5 July 2021

Licence issued under the Outer Space Act 1986

30 November 2020

Additional Information

Launch and Commissioning licence. Handover to Turkey completed 16 June 2021 and licence terminated

Eutelsat Quantum

Owner/Operator

Eutelsat UK Limited, C/O Pm+M Greenbank Technology Park, Challenge Way, Blackburn, Lancashire, BB1 5QB

Date of launch

30 July 2021

Location of launch

Kourou, French Guiana

Designation

2021-069B

Catalogue Number

49056

Nodal period

627.02

Inclination

6 degrees

Apogee

35788

Perigee

35786

Orbital position

12.5W

General Function

Communications Satellite

Notified to the UN

25 March 2022

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

August 2021

Licence issued under the Outer Space Act 1986

9 February 2021

Additional Information

Launch only licence

ELSA-D Target

Owner/Operator

Astroscale Ltd, 4th Floor, Imperial House, 8 Kean Street, London, WC2B 4AS

Date of launch

22 March 2021

Location of launch

Baikonur, Kazakhstan

Designation

2021-022AQ

Catalogue Number

47944

Nodal period

95.65

Inclination

97.55 degrees

Apogee

560

Perigee

533

Orbital position

Not applicable

General Function

Active Debris Removal Demonstration Satellite

Notified to the UN

29 July 2021

Disposed or decayed

23 February 2026

Disposal Notified to the UN

Japan to notify UN as the Launching State

Accepted onto UK Supplementary Register of Space Objects

29 July 2021

Licence issued under the Outer Space Act 1986

5 March 2021

Additional Information

Operations only licence

ELSA-D Chaser

Owner/Operator

Astroscale Ltd, 4th Floor, Imperial House, 8 Kean Street, London, WC2B 4AS

Date of launch

22 March 2021

Location of launch

Baikonur, Kazakhstan

Designation

2021-022N

Catalogue Number

51288

Nodal period

95.65

Inclination

97.55 degrees

Apogee

560

Perigee

533

Orbital position

Not available

General Function

Active Debris Removal Demonstration Satellite

Notified to the UN

29 July 2021

Disposed or decayed

27 July 2025

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

29 July 2021

Licence issued under the Outer Space Act 1986

5 March 2021

Additional Information

Operations only licence.

Turksat 5B

Owner/Operator

Airbus Defence & Space Ltd, Gunnels Wood Road, Stevenage, Hertfordshire, SG1 2AS

Date of launch

19 December 2021

Location of launch

Cape Canaveral, USA

Designation

2021-126A

Catalogue Number

50212

Nodal period

1372.9

Inclination

27.13 degrees

Apogee

35799

Perigee

35772

Orbital position

42E

General Function

Military Communications

Notified to the UN

16 August 2022

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

November 2022

Licence issued under the Outer Space Act 1986

15 December 2021

Additional Information

Launch and Commissioning licence. Handed over to Turkey 24th June 2022.

ELO-3

Owner/Operator

Clyde Space Limited, Skypark 5, 45 Finnieston Street, Glasgow, G3 8JU

Date of launch

15 April 2023

Location of launch

Vandenberg Space Force Base, United States of America

Designation

2023-054AQ

Catalogue Number

56216

Nodal period

Not applicable

Inclination

Not applicable

Apogee

Not applicable

Perigee

Not applicable

Orbital position

Not applicable

General Function

IOT Demo

Notified to the UN

Not available

Disposed or decayed

13 August 2024

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

Not available

Licence issued under the Outer Space Act 1986

18 August 2022

Additional Information

Not applicable

ELO-4

Owner/Operator

Clyde Space Limited, Skypark 5, 45 Finnieston Street, Glasgow, G3 8JU

Date of launch

28/06/2023

Location of launch

Vandenberg Space Force Base, United States of America

Designation

2023-084BS

Catalogue Number

56990

Nodal period

Not applicable

Inclination

Not applicable

Apogee

Not applicable

Perigee

Not applicable

Orbital position

Not applicable

General Function

IOT Demo

Notified to the UN

Not available

Disposed or decayed

21 January 2025

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

Not available

Licence issued under the Outer Space Act 1986

3 May 2023

Additional Information

Not applicable

Intuition-1

Owner/Operator

Clyde Space Limited, Skypark 5, 45 Finnieston Street, Glasgow, G3 8JU

Date of launch

11 November 2023

Location of launch

Vandenberg Space Force Base, United States of America

Designation

2023-174CW

Catalogue Number

58565

Nodal period

94.97

Inclination

97.46

Apogee

526

Perigee

508

Orbital position

Not available

General Function

Earth Observation

Notified to the UN

Not available

Disposed or decayed

Not applicable

Disposal Notified to the UN

Not applicable

Accepted onto UK Register of Space

24 November 2023

Licence issued under the Outer Space Act 1986

6 September 2023

Additional Information

Not available

HYLAS-3

Owner/Operator

Avanti 3 Space Limited, Priory House, 6 Wrights Lane, London, W8 6TA

Date of launch

06 August 2019

Location of launch

French Guiana

Designation

2019-049A

Catalogue Number

44475

Nodal period

1463 minutes

Inclination

0.047 degrees

Apogee

35790.9km

Perigee

35779.5km

Orbital position

142.5E

General Function

Telecommunications

Notified to the UN

01 April 2026

Disposed or decayed

Not applicable

Disposal Notified to the UN

Not applicable

Accepted onto UK Supplementary Register of Space Objects

20 March 2026

Licence issued under the Outer Space Act 1986 and Space Industry Act 2018

20 March 2026

Additional Information

This satellite was formally known as EDRS-C

ViaSat-3F2

Owner/Operator

Viasat VS3 Holdings Limited, 50 Finsbury Square, London, England, EC2A 1HD

Date of launch

13 November 2025

Location of launch

Cape Canaveral, USA

Designation

2025-261A

Catalogue Number

Not available

Nodal period

1436.11

Inclination

Not available

Apogee

35,786 km

Perigee

35,786 km

Orbital position

Not available

General Function

Communications

Notified to the UN

23 April 2026

Disposed or decayed

Not applicable

Disposal Notified to the UN

Not applicable

Accepted onto UK Register of Space

23 October 2025

Licence issued under the Space Industry Act 2018

23 October 2025

Additional information

Not applicable

ViaSat-3F3

Owner/Operator

Viasat VS3 Holdings Limited, 50 Finsbury Square, London, England, EC2A 1HD

Date of launch

29 April 2026

Location of launch

Cape Canaveral, USA

Designation

2026-096A

Catalogue Number

68893

Nodal period

1426.78

Inclination

0.29

Apogee

35,702km

Perigee

35,506km

Orbital position

Not available

General Function

Communications

Notified to the UN

9 July 2026

Disposed or decayed

Not applicable

Disposal Notified to the UN

Not applicable

Accepted onto UK Register of Space

10 February 2026

Licence issued under the Space Industry Act 2018

10 February 2026

Additional information

Not applicable

ViaSat-3F1

Owner/Operator

Viasat VS3 Holdings Limited, 50 Finsbury Square, London, England, EC2A 1HD

Date of launch

01 May 2023

Location of launch

Cape Canaveral, USA

Designation

2023-060A

Catalogue Number

56370

Nodal period

1436.1

Inclination

0.02

Apogee

35,789 km

Perigee

35,784 km

Orbital position

Not available

General Function

Communications

Notified to the UN

Not available

Disposed or decayed

Not applicable

Disposal Notified to the UN

Not applicable

Accepted onto UK Register of Space

01 July 2026

Licence issued under the Space Industry Act 2018

Additional information

Not applicable

SATCOM-C4

Owner/Operator

SES Satellites (Gibraltar) Ltd, 18 Irish Town, Gibraltar

Date of launch

31 August 1992

Location of launch

United States

Designation

1992-057A

Catalogue Number

22096

Nodal period

24 hours 13 minutes

Inclination

2.9 degrees

Apogee

36,144 km

Perigee

36,138 km

Orbital position

105 W

General Function

Communications

Notified to the UN

1 February 1993 – United States

Disposed or decayed

29 March 2007

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

6 March 2006

Licence issued under the Outer Space Act 1986

6 March 2006

Additional Information

Satellite originally launched to 135 W and registered by United States. Satellite de-orbited 29 March 2007.

GE SATCOM-1A (NSS-11)

Owner/Operator

GE Capital Satellites (Gibraltar) Ltd, 28 Irish Town, Gibraltar

Date of launch

1 October 2000

Location of launch

Baikonur, Kazakhstan

Designation

2000-059A

Catalogue Number

26554

Nodal period

23 hours 56 minutes

Inclination

0 degrees plus or minus 0.1 degrees

Apogee

35,786.6 km

Perigee

35,786 km

Orbital position

108.2 E

General Function

Communications repeater

Notified to the UN

23 January 2001 – United States

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

12 October 2000

Licence issued under the Outer Space Act 1986

29 September 1998

Additional Information

March 2018 - The satellite has been relocated from 108.2 E to 176 E and is commercially known as NSS-11.

SES-7 (Protostar II/Indostar II)

Owner/Operator

SES Satellites (Gibraltar) Ltd, Suite 9A, Leanse Place, 50 Town Range, Gibraltar

Date of launch

16 May 2009

Location of launch

Baikonur, Kazakhstan

Designation

2009-027A

Catalogue Number

34941

Nodal period

1435.8 to 1436.4 minutes

Inclination

0.10 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

108.2 E

General Function

The satellite will carry video and data services.

Notified to the UN

Not available

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

13 April 2010

Additional Information

Not available

SES-3

Owner/Operator

SES Satellites (Gibraltar) Ltd, Suite 9A, Leanse Place, 50 Town Range, Gibraltar

Date of launch

15 July 2011

Location of launch

Baikonur, Kazakhstan

Designation

2011-035A

Catalogue Number

37748

Nodal period

1435.8 to 1436.4 minutes

Inclination

0.05 degrees

Apogee

35,820 km

Perigee

35,752 km

Orbital position

108.2 E (please see below)

General Function

SES-3 will carry video and data services

Notified to the UN

Not available

Disposed or decayed

Not available

Disposal Notified to the UN

Not applicable

Accepted onto UK Supplementary Register of Space Objects

January 2014

Licence issued under the Outer Space Act 1986

1 February 2012

Additional Information

Licence issued to authorise operation of satellite at 108.2 E. The satellite was drifted out of this orbit on 1 July 2012 and as such the licence was revoked.

ZENIT 3 Rocket Booster (DEMOSAT)

Owner/Operator

Sea Launch Company LDC, Windward I, Safehaven Corporate Center, West Bay Road, P.O. Box 10168 APO, Grand Cayman, Cayman Islands, British West Indies

Date of launch

28 March 1999

Location of launch

Sea Launch vessel, Western Pacific Ocean

Designation

1999-014B

Catalogue Number

25662

Nodal period

642 minutes

Inclination

1.25 degrees

Apogee

35,933 km

Perigee

621 km

Orbital position

Not available

General Function

Used to launch demonstration satellite

Notified to the UN

Not available

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

Not available

Licence issued under the Outer Space Act 1986

Launcher exempted from the requirement for a licence – 7 April 1999

Additional Information

Not available

ZENIT 3 Rocket Booster (DIRECTV-R1)

Owner/Operator

Sea Launch Company LDC, Windward I, Safehaven Corporate Center, West Bay Road, P.O. Box 10168 APO, Grand Cayman, Cayman Islands, British West Indies

Date of launch

9 October 1999

Location of launch

Sea Launch vessel, Western Pacific Ocean

Designation

1999-056B

Catalogue Number

25938

Nodal period

678 minutes

Inclination

0.55 degrees

Apogee

35,727 km

Perigee

2,680 km

Orbital position

Not available

General Function

Used to launch DIRECTV-1R satellite

Notified to the UN

7 March 2000 – United States

Disposed or decayed

Not available

Disposal Notified to the UN

Not available

Accepted onto UK Supplementary Register of Space Objects

Not available

Licence issued under the Outer Space Act 1986

Launcher exempted from the requirement for a licence – 5 October 1999

Additional Information

Not available

ZENIT 3 Rocket Booster (ICO#1)

Owner/Operator

Sea Launch Company LDC, Windward I, Safehaven Corporate Center, West Bay Road, P.O. Box 10168 APO, Grand Cayman, Cayman Islands, British West Indies

Date of launch

12 March 2000

Location of launch

Sea Launch vessel, Western Pacific Ocean

Designation

Not applicable

Catalogue Number

Not applicable

Nodal period

Not applicable

Inclination

Not applicable

Apogee

Not applicable

Perigee

Not applicable

Orbital position

Not applicable

General Function

Participating in the launch of ICO#1

Notified to the UN

Not applicable

Disposed or decayed

Not applicable

Disposal Notified to the UN

Not applicable

Accepted onto UK Supplementary Register of Space Objects

Not available

Licence issued under the Outer Space Act 1986

Launcher expected from the requirement for a licence – 11 March 2000

Additional Information

Launch failed