

UK Registry of Outer Space Objects



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

May 2021

Annex 1

3	Introduction	62	O3b M008 (O3b FM8)
4	Glossary of terms	63	O3b M009 (O3b FM9)
5	SKYNET-1A	64	O3b M010 (O3b FM10)
6	PROSPERO (formerly X3)	65	O3b M011 (O3b FM11)
7	BLACK ARROW (Rocket Booster)	66	O3b M012 (O3b FM12)
8	MIRANDA (formerly UK X4)	67	INMARSAT 5-F2
9	ARIEL V (formerly UK5)	68	Carbonite-1 (CBNT-1)
10	SKYNET-2B	69	DeorbitSail
11	ARIEL VI (formerly UK6)	70	Inmarsat-5 F3
12	UOSAT-1 (OSCAR 9)	71	DMC3-FM1
13	UOSAT 2 (OSCAR 11)	72	DMC3-FM2
14	AMPTE (UKS 1)	73	DMC3-FM3
15	SKYNET-4B	74	SES-9
16	SKYNET-4A	75	Inmarsat-5 F4
17	UOSAT 3 – OSCAR 14	76	ViaSat-2
18	UOSAT 4 – OSCAR 15	77	EchoStar 21 (EchoStar XXI)
19	SKYNET-4C	78	Red Diamond
20	UOSAT-5	79	Green Diamond
21	STRV-1A	80	Blue Diamond
22	STRV-1B	81	Carbonite-2
23	ORION-1	82	SES-15
24	SKYNET-4D	83	O3b M013 (O3b FM13)
25	SKYNET-4E	84	O3b M014 (O3b FM14)
26	UOSAT –12	85	O3b M015 (O3b FM15)
27	SNAP-1	86	O3b M016 (O3b FM16)
28	Europe*Star 1	87	Hylas-4
29	STRV-1C	88	NovaSar-1
30	STRV-1D	89	SSTL-300 S1-004
31	SKYNET-4F	90	SL0006 (OneWeb)
32	BNSCSat1 (UK-DMC)	91	SL0007 (OneWeb)
33	INMARSAT 4-F1	92	SL0008 (OneWeb)
34	TOPSAT	93	SL0010 (OneWeb)
35	INMARSAT 4-F2	94	SL0011 (OneWeb)
36	SKYNET 5A	95	SL0012 (OneWeb)
37	SKYNET 5B	96	IOD-1 GEMS
38	SKYNET 5C	97	Remove Debris
39	SES AMC 21	98	Remove Debris Net
40	INMARSAT 4F3	99	DoT-1
41	SES NSS9	100	Vesta-1
42	SSTL UK-DMC-2	101	O3b M017 (O3b FM17)
43	SES NSS12	102	O3b M018 (O3b FM18)
44	SES Astra-3B	103	O3b M019 (O3b FM19)
45	HYLAS-1	104	O3b M020 (O3b FM20)
46	Quetzat-1	105	NSL-1
47	Sirius 5 (SES-5)	106	Inmarsat GX5
48	HYLAS-2	107	OneWeb Launch 2
49	SKYNET-5D	108	Annex 1
50	STRaND-1	109	OneWeb Launch 3
51	O3b M001 (O3b PFM)	110	Annex 2
52	O3b M002 (O3b FM2)	111	Faraday-1
53	O3b M004 (O3b FM4)	112	OneWeb Launch 4

54	O3b M005 (O3b FM5)	113	Annex 3
55	Alphasat	114	OneWeb Launch5
56	INMARSAT 5-F1	115	Annex 4
57	TechDemoSat-1	116	3B5GSAT
58	Ukube-1	117	LacunaSat-2B
59	O3b M003 (O3b FM3)	118	OneWeb Launch 6
60	O3b M006 (O3b FM6)	119	Annex 5
61	O3b M007 (O3b FM7)		

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 of Space Objects and this is also embodied in Section 7 of the Outer Space Act 1986 (OSA).

The OSA ensures 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 Space Agency maintains this Registry on its website.

There are also situations where the UK is not the 'launching state' for a particular object but has issued an OSA licence. This would include circumstances where there are joint launching states and it is decided that the other state will register the space object with the UN. These objects are included in the Supplementary Space Objects Registry which is also maintained on the Agency's website.

United Nations Office for Outer Space Affairs website:

<http://www.oosa.unvienna.org/oosa/en/SORregister/index.html>

UK Space Agency website:

<https://www.gov.uk/government/organisations/uk-space-agency>

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.

SKYNET-1A

Owner/Operator:	Ministry of Defence Main Building Whitehall London SW1A 2HB
Date of launch:	22 November 1969
Location of launch:	Cape Canaveral, USA
Designation:	1969-101A
Catalogue Number:	4250
Nodal period:	1,436.13 minutes
Inclination:	1.56 degrees
Apogee:	35,784 km
Perigee:	35,794 km
Orbital position:	
General function:	Military communications
Notified to the UN:	1 January 1990
Disposed or decayed:	Lifetime estimate (unit decay) > 1 million years
Disposal Notified to the UN:	6 December 1969
Accepted onto UK Register of Space Objects:	6 December 1989
Licence issued under the Outer Space Act 1986:	
Additional information:	Non-operational/not re-orbited. Now appears to be caught at 105 W stable point.

PROSPERO (formerly X3)

Owner/Operator:	Ministry of Defence Main Building Whitehall London SW1A 2HB
Date of launch:	28 October 1971
Location of launch:	Woomera, Australia
Designation:	1971-093A
Catalogue Number:	5580
Nodal period:	106.53 minutes
Inclination:	82.06 degrees
Apogee:	1,582 km
Perigee:	547 km
Orbital position:	
General function:	Technology satellite
Notified to the UN:	3 November 1971
Disposed or decayed:	Estimated lifetime (to decay) 150 years
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	7 August 1992
Licence issued under the Outer Space Act 1986:	
Additional information:	Non-operational.

BLACK ARROW (Rocket Booster)

Owner/Operator: Ministry of Defence
Main Building
Whitehall
London
SW1A 2HB

Date of launch: 28 October 1971
Location of launch: Woomera, Australia

Designation: 1971-093B
Catalogue Number: 5581

Nodal period: 103.8 minutes
Inclination: 82 degrees
Apogee: 7,722.5 km
Perigee: 6,907.4 km
Orbital position:

General function: Rocket body from launch of Prospero (Cat. No: 5580)
Notified to the UN:

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 7 August 1992
Licence issued under the Outer Space Act 1986:

Additional information: Non-operational.

MIRANDA (formerly UK X4)

Owner/Operator: Ministry of Defence
Main Building
Whitehall
London
SW1A 2HB

Date of launch: 9 March 1974
Location of launch: Vandenberg Air Force Base, USA

Designation: 1974-13A
Catalogue Number: 7213

Nodal period: 101.2 minutes
Inclination: 97.81 degrees
Apogee: 916 km
Perigee: 714 km
Orbital position:

General function: Spacecraft Technology
Notified to the UN: 12 April 1974

Disposed or decayed: Lifetime estimate 60 years
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 29 March 1974
Licence issued under the Outer Space Act 1986:

Additional information: Non-operational.

ARIEL V (formerly UK5)

Owner/Operator: Science and Engineering Research Council
Polaris House
North Star Avenue
Swindon
SN2 1ET

Date of launch: 15 October 1974
Location of launch: San Marco Equatorial Range, Kenya

Designation: 1974-077A
Catalogue Number: 7471

Nodal period: 94.96 minutes
Inclination: 2.88 degrees
Apogee: 549 km
Perigee: 504 km
Orbital position:

General function: Cosmic X-ray astronomy
Notified to the UN: 7 November 1974

Disposed or decayed: Decayed 14 March 1980
Disposal Notified to the UN: 21 February 1990

Accepted onto UK Register of Space Objects: 28 October 1974
Licence issued under the Outer Space Act 1986:

Additional information: Notified the UN on 21 February 1990 that the satellite had decayed and was no longer in Earth orbit.

SKYNET-2B

Owner/Operator: Ministry of Defence
Main Building
Whitehall
London
SW1A 2HB

Date of launch: 23 November 1974
Location of launch: Cape Canaveral, USA

Designation: 1974-094A
Catalogue Number: 7547

Nodal period: 1,469.5 minutes
Inclination: 1.9 degrees
Apogee: 35,794 km
Perigee: 35,784 km
Orbital position:

General function: Military Communications
Notified to the UN: 1 January 1990

Disposed or decayed: Lifetime estimate > 1 million years
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 6 December 1989
Licence issued under the Outer Space Act 1986:

Additional information: Uncontrolled/not re-orbited.

ARIEL VI (formerly UK6)

Owner/Operator: Science and Engineering Research Council
Polaris House
North Star Avenue
Swindon
SN2 1ET

Date of launch: 2 June 1979
Location of launch: Wallops Island, USA

Designation: 1979-47A
Catalogue Number: 11382

Nodal period: 97.21 minutes
Inclination: 55.03 degrees
Apogee: 654 km
Perigee: 600 km
Orbital position:

General function: Detection of heavy cosmic particles and X-ray astronomy
Notified to the UN: 10 October 1979

Disposed or decayed: Decayed 23 September 1990
Disposal Notified to the UN: 13 September 1979

Accepted onto UK Register of Space Objects: 10 October 1979
Licence issued under the Outer Space Act 1986:

Additional information: Non-operational.

UOSAT-1 (OSCAR 9)

Owner/Operator:	University of Surrey Dept. of Electronic & Electrical Engineering Guildford Surrey GU2 5XH
Date of launch:	6 October 1981
Location of launch:	Vandenberg Air Force Base, USA
Designation:	1981-100B
Catalogue Number:	12888
Nodal period:	95.46 minutes
Inclination:	97.46 degrees
Apogee:	541 km
Perigee:	538 km
Orbital position:	
General function:	Communications and geophysics research
Notified to the UN:	9 August 1985
Disposed or decayed:	Decayed 13 October 1989
Disposal Notified to the UN:	8 December 1989
Accepted onto UK Register of Space Objects:	4 July 1985
Licence issued under the Outer Space Act 1986:	
Additional information:	Notified the UN on 8 December 1989 that the satellite had decayed and was no longer in Earth orbit.

UOSAT 2 (OSCAR 11)

Owner/Operator: University of Surrey
Dept. of Electronic & Electrical Engineering
Guildford
Surrey
GU2 5XH

Date of launch: 1 March 1984
Location of launch: Vandenberg Air Force Base, USA

Designation: 1984-21B
Catalogue Number: 14781

Nodal period: 97.33 minutes
Inclination: 98.20 degrees
Apogee: 635 km
Perigee: 621 km
Orbital position:

General function: Communications and geophysics research
Notified to the UN: 1 January 1990

Disposed or decayed: Lifetime estimate 80 years
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 4 July 1985
Licence issued under the Outer Space Act 1986: 31 January 1990

Additional information: Non-operational.

AMPTE (UKS 1)

Owner/Operator: Science and Engineering Research Council
Polaris House
North Star Avenue
Swindon
SN2 1ET

Date of launch: 16 August 1984
Location of launch: Cape Canaveral, USA

Designation: 1984-088C
Catalogue Number: 15201

Nodal period: 2,653.9 minutes
Inclination: 28.68 degrees
Apogee: 113,729 km
Perigee: 552 km
Orbital position:

General function: Magnetosphere research satellite
Notified to the UN: 9 August 1985

Disposed or decayed: Decayed 8 December 1988
Disposal Notified to the UN: 21 February 1990

Accepted onto UK Register of Space Objects: 4 July 1985
Licence issued under the Outer Space Act 1986:

Additional information: UN notified on 21 February 1990 that the satellite had decayed and was no longer in Earth orbit (8th December).

SKYNET-4B

Owner/Operator: Ministry of Defence
Main Building
Whitehall
London
SW1A 2HB

Date of launch: 11 December 1988
Location of launch: CSG Kourou, French Guiana

Designation: 1988-109A
Catalogue Number: 19687

Nodal period: 1,436 originally, now 1,444 minutes
Inclination: 3 degrees
Apogee: 35,796 km
Perigee: 35,778 km
Orbital position:

General function: Military Communications
Notified to the UN: 1 January 1990

Disposed or decayed: Lifetime estimate (unit decay) >1 million years
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 6 December 1989
Licence issued under the Outer Space Act 1986:

Additional information: Re-orbited above geostationary ring in June 1998. Now approximately 150 km above GEO.

SKYNET-4A

Owner/Operator:	Ministry of Defence Main Building Whitehall London SW1A 2HB
Date of launch:	1 January 1990
Location of launch:	Cape Canaveral, USA
Designation:	1990-001A
Catalogue Number:	20401
Nodal period:	1,427.6 minutes
Inclination:	3.34 degrees
Apogee:	35,492 km
Perigee:	35,784 km
Orbital position:	340 W
General function:	Military Communications
Notified to the UN:	12 April 1990
Disposed or decayed:	Lifetime estimate > 1 million years
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	4 April 1990
Licence issued under the Outer Space Act 1986:	
Additional information:	Operations Licence issued to Paradigm on 29 May 2003. Placed in supersynchronous orbit on 20 June 2005, its height above GEO was measured to be 417km (apogee) and 307km (perigee).

UOSAT 3 – OSCAR 14

Owner/Operator: University of Surrey
Dept. of Electronic & Electrical Engineering
Guildford
Surrey
GU2 5XH

Date of launch: 22 January 1990
Location of launch: CSG Kourou, French Guiana

Designation: 1990-005F
Catalogue Number: 20437

Nodal period: 100.6 minutes
Inclination: 98.22 degrees
Apogee: 792 km
Perigee: 776 km
Orbital position:

General function: Demonstration of store and forward communications with extensive radiation monitoring experiments.
Notified to the UN: 12 April 1990

Disposed or decayed: Lifetime estimate is 300 years
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 4 April 1990
Licence issued under the Outer Space Act 1986: 5 January 1990

Additional information: Deactivated 11 November 2003.

UOSAT 4 – OSCAR 15

Owner/Operator: University of Surrey
Dept. of Electronic & Electrical Engineering
Guildford
Surrey
GU2 5XH

Date of launch: 22 January 1990
Location of launch: CSG Kourou, French Guiana

Designation: 1990-005G
Catalogue Number: 20438

Nodal period: 100.8 minutes
Inclination: 98.72 degrees
Apogee: 805 km
Perigee: 787 km
Orbital position:

General function: Technology demonstration mission carrying solar cell experiments
Notified to the UN: 12 April 1990

Disposed or decayed: Lifetime estimate is 300 years
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 4 April 1990
Licence issued under the Outer Space Act 1986: 5 January 1990

Additional information: Inactive.

SKYNET-4C

Owner/Operator: Airbus Defence and Space Ltd
Gunnels Wood Road
Stevenage
Hertfordshire
SG1 2AS

Date of launch: 30 August 1990
Location of launch: CSG Kourou, French Guiana

Designation: 1990-079A
Catalogue Number: 20776

Nodal period: 1,436.219 minutes
Inclination: 13.221 degrees
Apogee: 35,804.951 km
Perigee: 35,773.044 km
Orbital position: -1° E

General function: UK military communications satellite
Notified to the UN: 23 July 1991

Disposed or decayed: Lifetime estimate (unit decay) > 1 million years
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 5 June 1991
Licence issued under the Outer Space Act 1986:

Additional information: Operations Licence issued to Paradigm on 29 May 2003. Licence transferred to Airbus Defence and Space Limited on 1 January 2015.

UOSAT-5

Owner/Operator: Surrey Satellite Technology Ltd
Senate House
University of Surrey
Guildford
Surrey
GU2 5XH

Date of launch: 17 July 1991
Location of launch: CSG Kourou, French Guiana

Designation: 1991-050B
Catalogue Number: 21575

Nodal period: 100.03 minutes
Inclination: 98.32 degrees
Apogee: 762 km
Perigee: 752 km
Orbital position:

General function: Engineering research
Notified to the UN: 7 January 1992

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 18 July 1991
Licence issued under the Outer Space Act 1986: 3 May 1991

Additional information: Deactivated 18 August 2004.

STRV-1A

Owner/Operator: Ministry of Defence
Main Building
Whitehall
London
SW1A 2HB

Date of launch: 17 June 1994
Location of launch: CSG Kourou, French Guiana

Designation: 1994-034B
Catalogue Number: 23125

Nodal period: 527 minutes
Inclination: 7.03 degrees
Apogee: 35,836 km
Perigee: 277 km
Orbital position:

General function: Technology Research.
Notified to the UN: 19th October 2000

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects:
Licence issued under the Outer Space Act 1986:

Additional information:

STRV-1B

Owner/Operator: Ministry of Defence
Main Building
Whitehall
London
SW1A 2HB

Date of launch: 17 June 1994
Location of launch: CSG Kourou, French Guiana

Designation: 1994-034C
Catalogue Number: 23126

Nodal period: 511 minutes
Inclination: 7.02 degrees
Apogee: 35,887 km
Perigee: 285 km
Orbital position:

General function: Technology research
Notified to the UN: 19th October 2000

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects:
Licence issued under the Outer Space Act 1986:

Additional information:

ORION-1

Owner/Operator: British Aerospace Space Systems Ltd

Date of launch: 29 November 1994
Location of launch: Cape Canaveral, USA

Designation: 1994-79A
Catalogue Number: 23413

Nodal period: 1436 minutes
Inclination: 0.06 degrees
Apogee: 35,801 km
Perigee: 35,775 km
Orbital position:

General function: Direct broadcast satellite
Notified to the UN: 19 October 2000

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 12 December 1994
Licence issued under the Outer Space Act 1986: 1 June 1994

Additional information: ORION-1 is now TELESTAR 11 and has been operated by Loral Skynet since October 1997. NASA's original launch notification of this satellite said that it was German.

SKYNET-4D

Owner/Operator:	Ministry of Defence Main Building Whitehall London SW1A 2HB
Date of launch:	10 January 1998
Location of launch:	Cape Canaveral, USA
Designation:	1998-002A
Catalogue Number:	25134
Nodal period:	1,436 minutes
Inclination:	4.12 degrees
Apogee:	35,813 km
Perigee:	35,760 km
Orbital position:	340° W
General function:	Military Communications
Notified to the UN:	19 October 2000
Disposed or decayed:	
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	27 May 1998
Licence issued under the Outer Space Act 1986:	29 May 2003
Additional information:	Licence issued to Matra Marconi Space UK Ltd on 12 August 1997 to procure the launch of, and subsequently operate, the satellite. Title and operational control of SKYNET 4D transferred to the UK Ministry of Defence on 20 May 1998. Operation Licence issued to Paradigm on 29 May 2003. Placed in a super-synchronous orbit 28 Jan 2008, its height above GEO was measured to be 315km (apogee) and 296km (perigee).

SKYNET-4E

Owner/Operator:	Airbus Defence and Space Ltd Gunnels Wood Road Stevenage Hertfordshire SG1 2AS
Date of launch:	26 February 1999
Location of launch:	CSG Kourou, French Guiana
Designation:	1999-009B
Catalogue Number:	25639
Nodal period:	1,436.172 minutes
Inclination:	11.474 degrees
Apogee:	35,800.822 km
Perigee:	35,775.329 km
Orbital position:	1.2W (previous orbital position: 6°E)
General function:	Military Communications
Notified to the UN:	19 October 2000
Disposed or decayed:	Lifetime estimate (unit decay) > 1 million years
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	27 May 1998
Licence issued under the Outer Space Act 1986:	29 May 2003
Additional information:	Licence issued to Matra Marconi Space UK Ltd on 20th May 1998 to procure the launch of, and subsequently operate, the satellite. Technical transfer to Ministry of Defence on 7 July 1999. Operation Licence issued to Paradigm on 29 May 2003. Operations licence transferred to Airbus Defence and Space Limited on 1 January 2015.

UOSAT-12

Owner/Operator: Surrey Satellite Technology Ltd
University of Surrey
Guildford
Surrey
GU2 5XH

Date of launch: 24 April 1999
Location of launch: Baikonur, Kazakhstan

Designation: 1999-021A
Catalogue Number: 25693

Nodal period: 97.51 minutes
Inclination: 64.56 degrees
Apogee: 662 km
Perigee: 614 km
Orbital position:

General function: Engineering and technology research
Notified to the UN: 19 October 2000

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 30 April 1999
Licence issued under the Outer Space Act 1986: 19 April 1999

Additional information: Deactivated 21 September 2003.

SNAP-1

Owner/Operator: Surrey Satellite Technology Ltd
University of Surrey
Guildford
Surrey
GU2 5XH

Date of launch: 28 June 2000
Location of launch: Plesetsk, Russia

Designation: 2000-033C
Catalogue Number: 26386

Nodal period: 98.3 minutes
Inclination: 98.42 degrees
Apogee: 682 km
Perigee: 667 km
Orbital position:

General function: Research spacecraft for evaluating the use of commercial micro-miniature technologies for highly advanced, yet tiny, satellites.

Notified to the UN: 19 October 2000

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 3 August 2000
Licence issued under the Outer Space Act 1986: 26 June 2000

Additional information: Deactivated 30 March 2002

Europe*Star 1

Owner/Operator: Europe*Star Ltd
5 New Square
Bedfont Lakes
Feltham
Middlesex
TW14 8HA

Date of launch: 29 October 2000
Location of launch: CSG Kourou, French Guiana

Designation: 2000-068A
Catalogue Number: 26590

Nodal period: 24 hours
Inclination: 0 degrees (plus or minus 0.1)
Apogee: 35,796 km
Perigee: 35,776 km
Orbital position: 45° E (plus or minus 0.1)

General function: Telecommunications
Notified to the UN: 16 March 2001

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 16 March 2001.
Licence issued under the Outer Space Act 1986:

Additional information: Europe*Star 1 has been operated by PanAmSat Satellite Europe Ltd since 23 October 2005. Renamed Intelsat-12 (IS-12) on 1 February 2007. Moved to 64.25E March 2019.

STRV 1C

Owner/Operator: Space Dept
Arthur C. Clarke Building
DERA Farnborough
Hampshire
GU14 0LX

Date of launch: 16 November 2000
Location of launch: CSG Kourou, French Guiana

Designation: 2000-072C
Catalogue Number: 26610

Nodal period: 11 hours 47 minutes
Inclination: 6.463 degrees
Apogee: 39,274 km
Perigee: 578 km
Orbital position: GTO

General function: Scientific Research and Technology Demonstration
Notified to the UN: 15 December 2000

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 15 December 2000
Licence issued under the Outer Space Act 1986:

Additional information: DERA now QinetiQ. Non-operational, the satellite suffered onboard failures c. 2 weeks after launch.

STRV-1D

Owner/Operator: Space Dept
Arthur C. Clarke Building
DERA Farnborough
Hampshire
GU14 0LX

Date of launch: 16 November 2000
Location of launch: CSG Kourou, French Guiana

Designation: 2000-072D
Catalogue Number: 26611

Nodal period: 11 hours 48 minutes
Inclination: 6.451 degrees
Apogee: 39,293 km
Perigee: 580 km
Orbital position: GTO

General function: Scientific Research and Technology Demonstration
Notified to the UN: 15 December 2000

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 15 December 2000
Licence issued under the Outer Space Act 1986:

Additional information: DERA now QinetiQ. Non-operational, the satellite suffered onboard failures c. 2 weeks after launch.

SKYNET-4F

Owner/Operator: Airbus Defence and Space Ltd
Gunnels Wood Road
Stevenage
Hertfordshire
SG1 2AS

Date of launch: 7 February 2001
Location of launch: CSG Kourou, French Guiana

Designation: 2001-005B
Catalogue Number: 26695

Nodal period: 1,436.005 minutes
Inclination: 7.781 degrees
Apogee: 35,796.433 km
Perigee: 35,773.160 km
Orbital position: -34° E

General function: Military telecommunication services
Notified to the UN: 28 September 2001

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 27 September 2001
Licence issued under the Outer Space Act 1986: 29 May 2003

Additional information: Licence issued to Astrium on 2 February 2001 to procure the launch of, and subsequently operate, the Skynet-4F satellite. Operation Licence issued to Paradigm on 29 May 2003. Operations licence transferred to Airbus Defence and Space Limited on 1 January 2015. Moved to graveyard orbit October 2019.

BNSCSat1 (UK-DMC)

Owner/Operator:	Surrey Satellite Technology Ltd University of Surrey Guildford Surrey GU2 5XH
Date of launch:	27 September 2003
Location of launch:	Plesetsk, Russia
Designation:	2003-042D
Catalogue Number:	27942
Nodal period:	98.44 minutes
Inclination:	98.07 degrees
Apogee:	688 km
Perigee:	674 km
Orbital position:	
General function:	Disaster monitoring
Notified to the UN:	7 January 2004
Disposed or decayed:	Reached its end of life in November 2011 and is no longer active. Dry mass approx: 85.4 kg. De-orbit from end of life in the range of 65 – 110 years.
Disposal Notified to the UN:	22 October 2013
Accepted onto UK Register of Space Objects:	27 September 2003
Licence issued under the Outer Space Act 1986:	27 September 2003
Additional information:	Confusion over designation at time of launch. Appears on UNOOSA register as 27943 (2003-042E) as does Turkish satellite BILSAT-1. US Space Track gives catalogue number and designation as 27942 (2003-042D).

INMARSAT 4-F1

Owner/Operator: Inmarsat Ltd
99 City Road
London
EC1Y 1AX

Date of launch: 11 March 2005
Location of launch: Cape Canaveral, USA

Designation: 2005-009A
Catalogue Number: 28628

Nodal period: 1,436 minutes
Inclination: 3 degrees
Apogee: 35,786 km
Perigee: 35,786 km
Orbital position: 143.5 E

General function: Telecommunications
Notified to the UN: 15 June 2007

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 11 March 2005
Licence issued under the Outer Space Act 1986: 4 March 2005

Additional information: Active North/South and East/West station keeping. Inclination at beginning of life is given above and is decreasing, but will eventually increase back to 3 degrees.

TOPSAT

Owner/Operator: Qinetiq Ltd
85 Buckingham Gate
London
SW1E 6PD

Date of launch: 27 October 2005
Location of launch: Plesetsk, Russia

Designation: 2005-043B
Catalogue Number: 28891

Nodal period: 98.6 minutes
Inclination: 98.2 degrees
Apogee: 707 km
Perigee: 681 km
Orbital position:

General function: Earth imaging
Notified to the UN: 15 June 2007

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** 11 October 2005
**Licence issued under the
Outer Space Act 1986:** 11 October 2005

Additional information:

INMARSAT 4-F2

Owner/Operator: Inmarsat Global Ltd
99 City Road
London
EC1Y 1AX

Date of launch: 8 November 2005
Location of launch: Sea Launch vessel, Western Pacific Ocean

Designation: 2005-044A
Catalogue Number: 28899

Nodal period: 1,436 minutes
Inclination: 3 degrees
Apogee: 35,786 km
Perigee: 35,786 km
Orbital position: 25.1 E

General function: Telecommunications
Notified to the UN: 15 June 2007

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 24 October 2005
Licence issued under the Outer Space Act 1986: 24 October 2005

Additional information: Active North/South and East/West station keeping. Inclination at beginning of life is given above and is decreasing, but will eventually increase back to 3 degrees. I4-F2 has moved orbital position to 63.9 E, UN notified 12 February 2016.

SKYNET-5A

Owner/Operator: Airbus Defence and Space Ltd
Gunnels Wood Road
Stevenage
Hertfordshire
SG1 2AS

Date of launch: 11 March 2007
Location of launch: CSG Kourou, French Guiana

Designation: 2007-007B
Catalogue Number: 30794

Nodal period: 1,436.149 minutes
Inclination: 0.000 degrees
Apogee: 35,802.775 km
Perigee: 35,772.460 km
Orbital position: 6 E

General function: Military telecommunications
Notified to the UN: 15 June 2007

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 2 March 2007
Licence issued under the Outer Space Act 1986: 2 March 2007

Additional information: OSA licence issued to Paradigm Secure Communications Ltd on 2 March 2007. Licence transferred to Airbus Defence and Space Ltd on 1 January 2015.
Transferred to orbital position 95.2E

SKYNET-5B

Owner/Operator: Airbus Defence and Space Ltd
Gunnels Wood Road
Stevenage
Hertfordshire
SG1 2AS

Date of launch: 14 November 2007
Location of launch: CSG Kourou, French Guiana

Designation: 2007-056B
Catalogue Number: 32294

Nodal period: 1,436.178 minutes
Inclination: 0.000 degrees
Apogee: 35,806.398 km
Perigee: 35,769.972 km
Orbital position: 25 E (previous orbital position: 53 E)

General function: Military telecommunications
Notified to the UN: 6 October 2008

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 31 October 2007
Licence issued under the Outer Space Act 1986: 31 October 2007

Additional information: OSA licence issued to Paradigm Secure Communications Ltd on 31 October 2007. Licence transferred to Airbus Defence and Space on 1 January 2015.

SKYNET-5C

Owner/Operator:	Airbus Defence and Space Ltd Gunnels Wood Road Stevenage Hertfordshire SG1 2AS
Date of launch:	12 June 2008
Location of launch:	CSG Kourou, French Guiana
Designation:	2008-030A
Catalogue Number:	33055
Nodal period:	1436 minutes
Inclination:	0.000 degrees
Apogee:	35,796.926 km
Perigee:	35,774.988 km
Orbital position:	17.8 E
General function:	Military telecommunications
Notified to the UN:	6 October 2008
Disposed or decayed:	
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	12 June 2008
Licence issued under the Outer Space Act 1986:	27 May 2008
Additional information:	OSA licence issued to Paradigm Secure Communications Ltd on 27 May 2008. Licence transferred to Airbus Defence and Space on 22 December 2014.

SES AMC-21

Owner/Operator: SES Global Satellite Leasing Limited
15-19 Athol Street
Douglas
Isle of Man
IM1 1LB

Date of launch: 14 August 2008
Location of launch: CSG Kourou, French Guiana

Designation: 2008-038B
Catalogue Number: 33275

Nodal period: 23 hours 56 minutes
Inclination: 0.02 degrees
Apogee: 35,803 km
Perigee: 35,770 km
Orbital position: 124.9 W

General function: Communications
Notified to the UN:

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 15 August 2008
Licence issued under the Outer Space Act 1986: 23 April 2008

Additional information: Operated by SES Satellites (Gibraltar) Ltd – operation licence issued by Gibraltar Regulatory Authority on 27 September 2006.

INMARSAT-4F3

Owner/Operator: Inmarsat Global Ltd
99 City Road
London
EC1Y 1AX

Date of launch: 18 August 2008
Location of launch: Baikonur, Kazakhstan

Designation: 2008-039A
Catalogue Number: 33278

Nodal period: 1,436 minutes
Inclination: 3 degrees
Apogee: 35,786 km
Perigee: 35, 786 km
Orbital position: 97.65 W

General function: Telecommunications
Notified to the UN: 6 October 2008

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 18 August 2008
Licence issued under the Outer Space Act 1986: 10 March 2008

Additional information: Active North/South and East/West station keeping. Inclination at beginning of life is given above and is decreasing, but will eventually increase back to 3 degrees.

NSS-9

Owner/Operator: SES Satellite Leasing Limited
15-19 Athol Street
Douglas
Isle of Man

Date of launch: 13 February 2009
Location of launch: Kourou, French Guiana

Designation: 2009-008A
Catalogue Number: 33749

Nodal period: 1436 minutes
Inclination: 0.05 degrees
Apogee: 35,820 km
Perigee: 35,752 km
Orbital position: 183 E

General function: Telecommunications
Notified to the UN: 6 August 2009

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 29 July 2009
Licence issued under the Outer Space Act 1986: 28 January 2009

Additional information: UK authorised launch only – Netherlands has registered in-orbit operation.

UK-DMC-2

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 29 July 2009
Location of launch: Yasny Cosmodrome, Russia

Designation: 2009-041C
Catalogue Number: 35683

Nodal period: 97.43 - 97.9 minutes
Inclination: 98.13 degrees
Apogee: 681 km
Perigee: 618 km
Orbital position:

General function: Disaster Monitoring
Notified to the UN: 6 August 2009

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** 29 July 2009
**Licence issued under the
Outer Space Act 1986:** 24 July 2009

Additional information:

NSS12

Owner/Operator: SES Satellite Leasing Limited
22-24 Victoria Street
Douglas
Isle of Man

Date of launch: 29 October 2009
Location of launch: Kourou, French Guiana

Designation: 2009-058A
Catalogue Number: 36032

Nodal period: 1435.8 - 1436.4 minutes
Inclination: 0.05 degrees
Apogee: 35,820 km
Perigee: 35,752 km
Orbital position: 57 E

General function: Telecommunications
Notified to the UN: 17 May 2010

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2010
Licence issued under the Outer Space Act 1986: 21 October 2009

Additional information: UK authorised launch only. Netherlands responsible for in-orbit operation.

Astra-3B

Owner/Operator: SES Satellite Leasing Limited
First Floor, Belgravia House
34 - 44 Circular Road
Douglas
Isle of Man
IM1 1AE

Date of launch: 21 May 2010
Location of launch: Kourou, French Guiana

Designation: 2010-021A
Catalogue Number: 36581

Nodal period: 1435.8 - 1436.4 minutes
Inclination: 0.05 degrees
Apogee: 35,820 km
Perigee: 35,752 km
Orbital position: 23.5 E

General function: Telecommunications
Notified to the UN: 22 March 2011

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: March 2011
Licence issued under the Outer Space Act 1986: 12 March 2010

Additional information: UK authorised launch only. Satellite owned and operated by Luxembourg.

HYLAS-1

Owner/Operator: Avanti Communications Group plc
Cobham House
20 Black Friars Lane
London
EC4V 6EB

Date of launch: 26 November 2010
Location of launch: Kourou, French Guiana

Designation: 2010-065A
Catalogue Number: 37237

Nodal period: 24 hours
Inclination: 0 degrees
Apogee: GEO circular
Perigee: GEO circular
Orbital position: 33.5 W

General function: Telecommunications
Notified to the UN: 22 March 2011

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: March 2011
Licence issued under the Outer Space Act 1986: 23 November 2010

Additional information: Completed re-positioning to 159E May 2021

Quetsat-1

Owner/Operator:	SES Satellite Leasing Limited First Floor, Belgravia House 34 - 44 Circular Road Douglas Isle of Man IM1 1AE
Date of launch:	29 September 2011
Location of launch:	Baikonur, Kazakhstan
Designation:	2011-054A
Catalogue Number:	37826
Nodal period:	1435.8 – 1436.4 minutes
Inclination:	0.05 degrees
Apogee:	35,820 km
Perigee:	35,752 km
Orbital position:	77 W
General function:	Commercial Telecommunications
Notified to the UN:	22 October 2013
Disposed or decayed:	
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	November 2013
Licence issued under the Outer Space Act 1986:	26 September 2011
Additional information:	UK authorised the launch only. The operation of the satellite is the responsibility of a Luxembourg company.

Sirius 5 (SES-5)

Owner/Operator:	SES Satellite Leasing Limited First Floor, Belgravia House 34 - 44 Circular Road Douglas Isle of Man IM1 1AE
Date of launch:	9 July 2012
Location of launch:	Baikonur, Kazakhstan
Designation:	2012-036A
Catalogue Number:	38652
Nodal period:	1435.8 – 1436.4 minutes
Inclination:	0.10 degrees
Apogee:	35,820 km
Perigee:	35,752 km
Orbital position:	5 E
General function:	Commercial Telecommunications
Notified to the UN:	22 October 2013
Disposed or decayed:	
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	November 2013
Licence issued under the Outer Space Act 1986:	11 June 2012
Additional information:	UK authorised the launch. Satellite is operated by a company incorporated in Luxembourg.

HYLAS-2

Owner/Operator: Avanti Communications Group plc / Avanti Hylas 2 Ltd
Cobham House
20 Black Friars Lane
London
EC4V 6EB

Date of launch: 2 August 2012
Location of launch: Kourou, French Guiana

Designation: 2012-043B
Catalogue Number: 38741

Nodal period: 1436.1 minutes
Inclination: 0.0 degrees
Apogee: 35,803.9 km
Perigee: 35,784.2 km
Orbital position: 31.0 E

General function: HYLAS-2 carries fixed and steerable Ka-band transponders and is designed to provide broadband data communications to Europe, Africa, Middle East and West/South Asia.

Notified to the UN: 22 October 2013

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: November 2013
Licence issued under the Outer Space Act 1986: 30 May 2012

Additional information:

SKYNET-5D

Owner/Operator: Airbus Defence and Space Ltd
Gunnels Wood Road
Stevenage
Hertfordshire
SG1 2AS

Date of launch: 19 December 2012
Location of launch: Kourou, French Guiana

Designation: 2012-075A
Catalogue Number: 39034

Nodal period: 1,436.258 minutes
Inclination: 0.000 degrees
Apogee: 35,807.419 km
Perigee: 35,772.069 km
Orbital position: 53 E

General function: SKYNET 5D provides secure military communications capability at SHF and UHF to British Armed Forces and friendly nations.

Notified to the UN: 22 October 2013

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: November 2013
Licence issued under the Outer Space Act 1986: 14 December 2012

Additional information: OSA licence issued to Paradigm Secure Communications Ltd & Paradigm Services Ltd on 14 December 2012. Licence transferred to Airbus Defence and Space on 1 January 2015.

STRaND-1

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 25 February 2013
Location of launch: Sriharikota, India

Designation: 2013-009E
Catalogue Number: 39090

Nodal period: 100.4 minutes
Inclination: 98.6 degrees
Apogee: 783 km
Perigee: 771 km
Orbital position:

General function: Outreach, education and technology demonstration
Notified to the UN: 22 October 2013

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: November 2013
Licence issued under the Outer Space Act 1986: 4 February 2013

Additional information:

O3b M001 (O3b PFM)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 25 June 2013
Location of launch: Kourou, French Guiana

Designation: 2013-031D
Catalogue Number: 39191

Nodal period: 287.93 minutes
Inclination: 0.03 degrees
Apogee: 8,069 km
Perigee: 8,063 km
Orbital position:

General function: Communications
Notified to the UN: 26 August 2013

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: November 2013
Licence issued under the Outer Space Act 1986: 3 May 2013

Additional information:

O3b M002 (O3b FM2)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 25 June 2013
Location of launch: Kourou, French Guiana

Designation: 2013-031C
Catalogue Number: 39190

Nodal period: 287.93 minutes
Inclination: 0.03 degrees
Apogee: 8,069 km
Perigee: 8,063 km
Orbital position:

General function: Communications
Notified to the UN: 26 August 2013

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: November 2013
Licence issued under the Outer Space Act 1986: 3 May 2013

Additional information:

O3b M004 (O3b FM4)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 25 June 2013
Location of launch: Kourou, French Guiana

Designation: 2013-031B
Catalogue Number: 39189

Nodal period: 287.93 minutes
Inclination: 0.03 degrees
Apogee: 8,069 km
Perigee: 8,063 km
Orbital position:

General function: Communications
Notified to the UN: 26 August 2013

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: November 2013
Licence issued under the Outer Space Act 1986: 3 May 2013

Additional information:

O3b M005 (O3b FM5)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 25 June 2013
Location of launch: Kourou, French Guiana

Designation: 2013-031A
Catalogue Number: 39188

Nodal period: 287.93 minutes
Inclination: 0.03 degrees
Apogee: 8,069 km
Perigee: 8,063 km
Orbital position:

General function: Communications
Notified to the UN: 26 August 2013

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: November 2013
Licence issued under the Outer Space Act 1986: 3 May 2013

Additional information:

Alphasat

Owner/Operator:	Inmarsat Global Ltd 99 City Road London EC1Y 1AX	Inmarsat Launch Company Ltd Fort Anne Douglas Isle of Man IM1 5PD
Date of launch:	25 July 2013	
Location of launch:	Kourou, French Guiana	
Designation:	2013-038A	
Catalogue Number:	39215	
Nodal period:	23 hours 56 minutes	
Inclination:	Currently 0 degrees but will grow to 3.0 degrees	
Apogee:	35,786 km	
Perigee:	35,786 km	
Orbital position:	24.85 E	
General function:	Communications satellite	
Notified to the UN:	22 October 2013	
Disposed or decayed:		
Disposal Notified to the UN:		
Accepted onto UK Register of Space Objects:	November 2013	
Licence issued under the Outer Space Act 1986:	12 July 2013	
Additional information:		

INMARSAT 5-F1

Owner/Operator: Inmarsat Global Ltd
99 City Road
London
EC1Y 1AX

Date of launch: 8 December 2013
Location of launch: Baikonur Cosmodrome, Kazakhstan

Designation: 2013-073A
Catalogue Number: 39476

Nodal period: 23 hours 56 minutes
Inclination: <0.05 degrees
Apogee: 35,786 km
Perigee: 35,786 km
Orbital position: 62.6 E

General function: Communications satellite
Notified to the UN: 30 May 2014

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986: 2 December 2013

Additional information:

TechDemoSat-1

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 8 July 2014
Location of launch: Baikonur Cosmodrome, Kazakhstan

Designation: 2014-037H
Catalogue Number: 40076

Nodal period: 97.3 minutes
Inclination: 98.4 degrees
Apogee: 639.5 km
Perigee: 630.7km
Orbital position:

General function: Technology Demonstration
Notified to the UN: 24 October 2014

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986: 2 July 2014

Additional information:

Ukube-1

Owner/Operator:	UK Space Agency Polaris House North Star Avenue Swindon SN2 1SZ
Date of launch:	8 July 2014
Location of launch:	Baikonur Cosmodrome, Kazakhstan
Designation:	2014-037F
Catalogue Number:	40074
Nodal period:	97.6 minutes
Inclination:	98.4 degrees
Apogee:	643 km
Perigee:	642 km
Orbital position:	
General function:	Ukube 1 is the UK Space Agency's pilot cubesat mission, designed to understand the benefits and challenges of a national cubesat programme. The self-funded payloads are from industry and academia, and cover technology demonstration and education/outreach.
Notified to the UN:	24 October 2014
Disposed or decayed:	December 2018
Disposal Notified to the UN:	December 2018
Accepted onto UK Register of Space Objects:	May 2015
Licence issued under the Outer Space Act 1986:	27 June 2014
Additional information:	End of life confirmed December 2018

O3b M003 (O3b FM3)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 10 July 2014
Location of launch: Kourou, French Guiana

Designation: 2014-038A
Catalogue Number: 40079

Nodal period: 287.92 minutes
Inclination: 0.03 degrees
Apogee: 8,071 km
Perigee: 8,060 km
Orbital position:

General function: Communications
Notified to the UN: 24 July 2014

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986: 30 August 2013

Additional information:

O3b M006 (O3b FM6)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 10 July 2014
Location of launch: Kourou, French Guiana

Designation: 2014-038C
Catalogue Number: 40081

Nodal period: 287.92 minutes
Inclination: 0.03 degrees
Apogee: 8,071 km
Perigee: 8,060 km
Orbital position:

General function: Communications
Notified to the UN: 24 July 2014

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986: 30 August 2013

Additional information:

O3b M007 (O3b FM7)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 10 July 2014
Location of launch: Kourou, French Guiana

Designation: 2014-038B
Catalogue Number: 40080

Nodal period: 287.92 minutes
Inclination: 0.03 degrees
Apogee: 8,071 km
Perigee: 8,060 km
Orbital position:

General function: Communications
Notified to the UN: 24 July 2014

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986: 30 August 2013

Additional information:

O3b M008 (O3b FM8)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 10 July 2014
Location of launch: Kourou, French Guiana

Designation: 2014-038D
Catalogue Number: 40082

Nodal period: 287.92 minutes
Inclination: 0.03 degrees
Apogee: 8,071 km
Perigee: 8,060 km
Orbital position:

General function: Communications
Notified to the UN: 24 July 2014

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986: 30 August 2013

Additional information:

O3b M009 (O3b FM9)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 18 December 2014
Location of launch: Kourou, French Guiana

Designation: 2014-083D
Catalogue Number: 40351

Nodal period: 287.9 minutes
Inclination: 0.03 degrees
Apogee: 8,070 km
Perigee: 8,060 km
Orbital position:

General function: Communications
Notified to the UN: 10 February 2015

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986: 9 December 2014

Additional information:

O3b M010 (O3b FM10)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 18 December 2014
Location of launch: Kourou, French Guiana

Designation: 2014-083A
Catalogue Number: 40348

Nodal period: 287.9 minutes
Inclination: 0.03 degrees
Apogee: 8,070 km
Perigee: 8,060 km
Orbital position:

General function: Communications
Notified to the UN: 10 February 2015

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986:
9 December 2014

Additional information:

O3b M011 (O3b FM11)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 18 December 2014
Location of launch: Kourou, French Guiana

Designation: 2014-083B
Catalogue Number: 40349

Nodal period: 287.9 minutes
Inclination: 0.03 degrees
Apogee: 8,070 km
Perigee: 8,060 km
Orbital position:

General function: Communications
Notified to the UN: 10 February 2015

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986: 9 December 2014

Additional information:

O3b M012 (O3b FM12)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 18 December 2014
Location of launch: Kourou, French Guiana

Designation: 2014-083C
Catalogue Number: 40350

Nodal period: 287.9 minutes
Inclination: 0.03 degrees
Apogee: 8,070 km
Perigee: 8,060 km
Orbital position:

General function: Communications
Notified to the UN: 10 February 2015

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986: 9 December 2014

Additional information:

INMARSAT 5-F2

Owner/Operator: Inmarsat Global Ltd
99 City Road
London
EC1Y 1AX

Date of launch: 1 February 2015
Location of launch: Baikonur Cosmodrome, Kazakhstan

Designation: 2015-005A
Catalogue Number: 40384

Nodal period: 1436 minutes
Inclination: 0 +/- 0.5 degrees
Apogee: 35,786.2 km
Perigee: 35,786.0 km
Orbital position:

General function: Communications Satellite
Notified to the UN: 24 February 2015

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: May 2015
Licence issued under the Outer Space Act 1986: 21 January 2015

Additional information:

Carbonite-1 (CBNT-1)

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 10 July 2015
Location of launch: Sriharikota, India

Designation: 2015-032D
Catalogue Number: 40718

Nodal period: 97.7 minutes
Inclination: 98 degrees
Apogee: 667.3 km
Perigee: 642.1 km
Orbital position:

General function: Technology demonstrator
Notified to the UN: 30 September 2015

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** July 2017
**Licence issued under the
Outer Space Act 1986:** 3 July 2015

Additional information:

DeorbitSail

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 10 July 2015
Location of launch: Sriharikota, India

Designation: 2015-032E
Catalogue Number: 40719

Nodal period: 97.63 minutes
Inclination: 98 degrees
Apogee: 657 km
Perigee: 635 km
Orbital position:

General function: Technology demonstrator
Notified to the UN: 26 November 2015

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** March 2018
**Licence issued under the
Outer Space Act 1986:** 3 July 2015

Additional information:

Inmarsat-5 F3

Owner/Operator:	Inmarsat Global Ltd 99 City Road London EC1Y 1AX	Inmarsat Launch Company Ltd Fort Anne Douglas Isle of Man IM1 5PD
Date of launch:	28 August 2015	
Location of launch:	Baikonur, Kazakhstan	
Designation:	2015-042A	
Catalogue Number:	40882	
Nodal period:	1,436 minutes	
Inclination:	0 to 0.05 degrees	
Apogee:	35,786.1 km	
Perigee:	35,785.9 km	
Orbital position:	179.6 E	
General function:	Communications satellite	
Notified to the UN:	30 September 2015	
Disposed or decayed:		
Disposal Notified to the UN:		
Accepted onto UK Register of Space Objects:	July 2017	
Licence issued under the Outer Space Act 1986:	13 August 2015	
Additional information:		

DMC3-FM1

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 10 July 2015
Location of launch: Sriharikota, India

Designation: 2015-032A
Catalogue Number: 40715

Nodal period: 97.7 minutes
Inclination: 98 degrees
Apogee: 671.4 km
Perigee: 644.1 km
Orbital position:

General function: High-resolution Earth observation satellite
Notified to the UN: 30 September 2015

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: July 2017
Licence issued under the Outer Space Act 1986: 3 July 2015

Additional information:

DMC3-FM2

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 10 July 2015
Location of launch: Sriharikota, India

Designation: 2015-032B
Catalogue Number: 40716

Nodal period: 97.7 minutes
Inclination: 98 degrees
Apogee: 677.1 km
Perigee: 641.2 km
Orbital position:

General function: High-resolution Earth observation satellite
Notified to the UN: 30 September 2015

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: July 2017
Licence issued under the Outer Space Act 1986: 3 July 2015

Additional information:

DMC3-FM3

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 10 July 2015
Location of launch: Sriharikota, India

Designation: 2015-032C
Catalogue Number: 40717

Nodal period: 97.7 minutes
Inclination: 98 degrees
Apogee: 670.6 km
Perigee: 642.1 km
Orbital position:

General function: High-resolution Earth observation satellite.
Notified to the UN: 30 September 2015

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: July 2017
Licence issued under the Outer Space Act 1986: 3 July 2015

Additional information:

SES-9

Owner/Operator:	SES Satellite Leasing Limited First Floor, Belgravia House 34 - 44 Circular Road Douglas Isle of Man IM1 1AE
Date of launch:	4 March 2016
Location of launch:	Cape Canaveral, USA
Designation:	2016-013A
Catalogue Number:	41380
Nodal period:	1,435.8 - 1,436.4 minutes
Inclination:	0.1 degrees
Apogee:	35,820 km
Perigee:	35,752 km
Orbital position:	108.2 E
General function:	SES-9 will carry a variety of commercial telecoms traffic. It will provide capacity over Asia-Pacific and South Asia.
Notified to the UN:	17 January 2017
Disposed or decayed:	
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	January 2017
Licence issued under the Outer Space Act 1986:	7 January 2016
Additional information:	Operator's licence held by Gibraltar

INMARSAT-5 F4

Owner/Operator:	Inmarsat Global Ltd 99 City Road London EC1Y 1AX
Date of launch:	15 May 2017
Location of launch:	Cape Canaveral, USA
Designation:	2017-025A
Catalogue Number:	42698
Nodal period:	1,436 minutes
Inclination:	<0.05 degrees
Apogee:	35,786 km
Perigee:	35,786 km
Orbital position:	83.5 E
General function:	Communications
Notified to the UN:	28 September 2017
Disposed or decayed:	
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	September 2017
Licence issued under the Outer Space Act 1986:	8 May 2017
Additional information:	In December 2017 Inmarsat-5 F4 was redeployed to 117.5 E. In August 2018 Inmarsat-5 F4 was redeployed to 11° E. In December 2018 Inmarsat-5 F4 was redeployed to 56.5E.

ViaSat-2

Owner/Operator: ViaSat Technologies Ltd
Sandford Lane
Wareham
Dorset
BH20 4DY

Date of launch: 01 June 2017
Location of launch: Kourou, French Guiana

Designation: 2017-029A
Catalogue Number: 42740

Nodal period: 1,440 minutes
Inclination: 0 degrees
Apogee: 35,786 km
Perigee: 35,786 km
Orbital position: 69.9 W

General function: Telecommunications Satellite
Notified to the UN: 19 December 2017

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: December 2017
Licence issued under the Outer Space Act 1986: 24 April 2017

Additional information:

EchoStar 21/EchoStar XXI

Owner/Operator: Hughes Network Systems Ltd
Hughes House
Rockingham Drive
Milton Keynes
MK14 6PD

Date of launch: 08 June 2017
Location of launch: Baikonur Cosmodrome, Kazakhstan

Designation: 2017-032A
Catalogue Number: 42749

Nodal period: 1,436 minutes
Inclination: 7.5 degrees
Apogee: 35,802 km
Perigee: 35,787 km
Orbital position: 10.25 E

General function: Communications Satellite
Notified to the UN: 19 December 2017

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: December 2017
Licence issued under the Outer Space Act 1986: 24 November 2016

Additional information:

Red Diamond

Owner/Operator:	Sky and Space Global (UK) Ltd Tower Bridge House St Katharine's Way London E1W 1DD
Date of launch:	23 June 2017
Location of launch:	Sriharikota, India
Designation:	2017-036U
Catalogue Number:	42783
Nodal period:	94.7 minutes
Inclination:	97.4486 degrees
Apogee:	513 km
Perigee:	495 km
Orbital position:	
General function:	Red Diamond is part of the "Three Diamonds" constellation operated by Sky and Space Global to demonstrate narrowband communication services.
Notified to the UN:	29 September 2017
Disposed or decayed:	
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	September 2017
Licence issued under the Outer Space Act 1986:	26 May 2017
Additional information:	

Green Diamond

Owner/Operator:	Sky and Space Global (UK) Ltd Tower Bridge House St Katharine's Way London E1W 1DD
Date of launch:	23 June 2017
Location of launch:	Sriharikota, India
Designation:	2017-036W
Catalogue Number:	42785
Nodal period:	94.7 minutes
Inclination:	97.4488 degrees
Apogee:	513 km
Perigee:	495 km
Orbital position:	
General function:	Green Diamond is part of the "Three Diamonds" constellation operated by Sky and Space Global to demonstrate narrowband communication services.
Notified to the UN:	29 September 2017
Disposed or decayed:	
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	September 2017
Licence issued under the Outer Space Act 1986:	26 May 2017
Additional information:	

Blue Diamond

Owner/Operator:	Sky and Space Global (UK) Ltd Tower Bridge House St Katharine's Way London E1W 1DD
Date of launch:	23 June 2017
Location of launch:	Sriharikota, India
Designation:	2017-036X
Catalogue Number:	42786
Nodal period:	94.7 minutes
Inclination:	97.4487 degrees
Apogee:	512 km
Perigee:	495 km
Orbital position:	
General function:	Blue Diamond is part of the "Three Diamonds" constellation operated by Sky and Space Global to demonstrate narrowband communication services.
Notified to the UN:	29 September 2017
Disposed or decayed:	
Disposal Notified to the UN:	
Accepted onto UK Register of Space Objects:	September 2017
Licence issued under the Outer Space Act 1986:	26 May 2017
Additional information:	

Carbonite-2

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: Shriharikota, India

Designation: 2018-004E
Catalogue Number: 43115

Nodal period: 94.6 minutes
Inclination: 97.6 degrees
Apogee: 508 km
Perigee: 493 km
Orbital position:

General function: Technology Demonstrator
Notified to the UN: 16 February 2018

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** February 2018
**Licence issued under the
Outer Space Act 1986:** 08 January 2018

Additional information:

SES-15

Owner/Operator: SES Satellite Leasing Limited
First Floor, Belgravia House
34 - 44 Circular Road
Douglas
Isle of Man
IM1 1AE

Date of launch: 18 May 2017
Location of launch: Kourou, French Guiana

Designation: 2017-026A
Catalogue Number: 42709

Nodal period: 1,435.8 - 1,436.4 minutes
Inclination: 0.1 degrees
Apogee: 35,820 km
Perigee: 35,752 km
Orbital position: 129.15° W

General function: Communications satellite
Notified to the UN: 28 August 2018

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: September 2018
Licence issued under the Outer Space Act 1986: 28 March 2017

Additional information: Operator's licence held by Gibraltar

O3b M013 (O3b FM13)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 09 March 2018
Location of launch: Kourou, French Guiana

Designation: 2018-024D
Catalogue Number: 43234

Nodal period: 288 minutes
Inclination: 0.05 degrees
Apogee: 8,069 km
Perigee: 8,062 km
Orbital position:

General function: Communications
Notified to the UN: 15 May 2018

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: September 2018
Licence issued under the Outer Space Act 1986: 05 March 2018

Additional information:

O3b M014 (O3b FM14)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 09 March 2018
Location of launch: Kourou, French Guiana

Designation: 2018-024C
Catalogue Number: 43233

Nodal period: 288 minutes
Inclination: 0.05 degrees
Apogee: 8,069 km
Perigee: 8,062 km
Orbital position:

General function: Communications
Notified to the UN: 15 May 2018

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: September 2018
Licence issued under the Outer Space Act 1986: 05 March 2018

Additional information:

O3b M015 (O3b FM15)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 09 March 2018
Location of launch: Kourou, French Guiana

Designation: 2018-024A
Catalogue Number: 43231

Nodal period: 288 minutes
Inclination: 0.05 degrees
Apogee: 8,070 km
Perigee: 8,062 km
Orbital position:

General function: Communications
Notified to the UN: 15 May 2018

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: September 2018
Licence issued under the Outer Space Act 1986: 05 March 2018

Additional information:

O3b M016 (O3b FM16)

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 09 March 2018
Location of launch: Kourou, French Guiana

Designation: 2018-024B
Catalogue Number: 43232

Nodal period: 288 minutes
Inclination: 0.05 degrees
Apogee: 8,070 km
Perigee: 8,062 km
Orbital position:

General function: Communications
Notified to the UN: 15 May 2018

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: September 2018
Licence issued under the Outer Space Act 1986: 05 March 2018

Additional information:

Hylas-4

Owner/Operator: Avanti Communications Group plc
Cobham House
20 Black Friars Lane
London
EC4V 6EB

Date of launch: 05 April 2018
Location of launch: Kourou, French Guiana

Designation: 2018-033B
Catalogue Number: 43272

Nodal period: 1,436 minutes
Inclination: 0 degrees
Apogee: 42,185 km
Perigee: 42,147 km
Orbital position: 33.5 W

General function: Communications Satellite
Notified to the UN: 22 October 2018

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** April 2019
**Licence issued under the
Outer Space Act 1986:** 27 February 2018

Additional information:

NovaSar-1

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 16 September 2018
Location of launch: Sriharikota, India

Designation: 2018-071B
Catalogue Number: 43619

Nodal period: 96.4 minutes
Inclination: 97.8 degrees
Apogee: 600.4 km
Perigee: 586.3 km
Orbital position:

General function: Technology Demonstration
Notified to the UN: 9 January 2019

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** April 2019
**Licence issued under the
Outer Space Act 1986:** 06 September 2018

Additional information:

SSTL-300 S1-004

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 16 September 2018
Location of launch: Sriharikota, India

Designation: 2018-071A
Catalogue Number: 43618

Nodal period: 96.3 minutes
Inclination: 97.8 degrees
Apogee: 598.8 km
Perigee: 580.9 km
Orbital position:

General function: Technology Demonstration
Notified to the UN: 30 January 2019

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** 03 April 2019
**Licence issued under the
Outer Space Act 1986:** 06 September 2018

Additional information:

SL0006 OneWeb

Owner/Operator: Network Access Associates Ltd
Asticus Building
2nd Floor
21 Palmer Street
London
SW1H 0AD

Date of launch: 27 February 2019
Location of launch: Kourou, French Guiana

Designation: 2019-010E
Catalogue Number: 44061

Nodal period: 109.4 minutes
Inclination: 87.9 degrees
Apogee: 1200 km
Perigee: 1200 km
Orbital position:

General function: Communications
Notified to the UN: 12 July 2019

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** 19 July 2019
**Licence issued under the
Outer Space Act 1986:** 22 February 2019

Additional information:

SL0007 OneWeb

Owner/Operator: Network Access Associates Ltd
Asticus Building
2nd Floor
21 Palmer Street
London
SW1H 0AD

Date of launch: 27 February 2019
Location of launch: Kourou, French Guiana

Designation: 2019-010E
Catalogue Number: 44060

Nodal period: 109.4 minutes
Inclination: 87.9 degrees
Apogee: 1200 km
Perigee: 1200 km
Orbital position:

General function: Communications
Notified to the UN: 12 July 2019

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** 19 July 2019
**Licence issued under the
Outer Space Act 1986:** 22 February 2019

Additional information:

SL0008 OneWeb

Owner/Operator: Network Access Associates Ltd
Asticus Building
2nd Floor
21 Palmer Street
London
SW1H 0AD

Date of launch: 27 February 2019
Location of launch: Kourou, French Guiana

Designation: 2019-010E
Catalogue Number: 44059

Nodal period: 109.4 minutes
Inclination: 87.9 degrees
Apogee: 1200 km
Perigee: 1200 km
Orbital position:

General function: Communications
Notified to the UN: 12 July 2019

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** 19 July 2019
**Licence issued under the
Outer Space Act 1986:** 22 February 2019

Additional information:

SL0010 OneWeb

Owner/Operator: Network Access Associates Ltd
Asticus Building
2nd Floor
21 Palmer Street
London
SW1H 0AD

Date of launch: 27 February 2019
Location of launch: Kourou, French Guiana

Designation: 2019-010E
Catalogue Number: 44058

Nodal period: 109.4 minutes
Inclination: 87.9 degrees
Apogee: 1200 km
Perigee: 1200 km
Orbital position:

General function: Communications
Notified to the UN: 12 July 2019

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** 19 July 2019
**Licence issued under the
Outer Space Act 1986:** 22 February 2019

Additional information:

SL0011 OneWeb

Owner/Operator: Network Access Associates Ltd
Asticus Building
2nd Floor
21 Palmer Street
London
SW1H 0AD

Date of launch: 27 February 2019
Location of launch: Kourou, French Guiana

Designation: 2019-010E
Catalogue Number: 44062

Nodal period: 109.4 minutes
Inclination: 87.9 degrees
Apogee: 1200 km
Perigee: 1200 km
Orbital position:

General function: Communications
Notified to the UN: 12 July 2019

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** 19 July 2019
**Licence issued under the
Outer Space Act 1986:** 22 February 2019

Additional information:

SL0012 OneWeb

Owner/Operator: Network Access Associates Ltd
Asticus Building
2nd Floor
21 Palmer Street
London
SW1H 0AD

Date of launch: 27 February 2019
Location of launch: Kourou, French Guiana

Designation: 2019-010E
Catalogue Number: 44057

Nodal period: 109.4 minutes
Inclination: 87.9 degrees
Apogee: 1200 km
Perigee: 1200 km
Orbital position:

General function: Communications
Notified to the UN: 12 July 2019

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register
of Space Objects:** 19 July 2019
**Licence issued under the
Outer Space Act 1986:** 22 February 2019

Additional information:

IOD-1 GEMS

Owners/Operators: Satellite Applications Catapult
Electron Building
Fermi Avenue
Harwell Science and Innovation Campus
Didcot
Oxfordshire
OX11 0QR
&
Orbital Micro Systems
Alliotts
Imperial House
15-19 King's Way
London
WC2B 6UN

Date of launch: 03 July 2019
Location of launch: Wallops Island, Virginia, USA

Designation: 1998-067QK
Catalogue Number: 44385

Nodal period: 92.81 minutes
Inclination: 51.64 degrees
Apogee: 415 km
Perigee: 409 km
Orbital position:

General function: Earth Observations
Notified to the UN: 30 July 2019

Disposed or decayed: 03 April 2021
Disposal Notified to the UN: 12 April 2021

Accepted onto UK Register of Space Objects: August 2019
Licence issued under the Outer Space Act 1986: 29 March 2019

Additional information: Re-entry and end of life 03 April 2021

Remove Debris

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 20 June 2018
Location of launch: ISS

Designation: 1998-067NT
Catalogue Number: 43510

Nodal period: 92.5
Inclination: 51.6
Apogee: 408.4
Perigee: 404.4
Orbital position:

General function: Technology Demonstration
Notified to the UN: 22 October 2018

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: August 2019
Licence issued under the Outer Space Act 1986: 28 March 2018 (launch) & 21 May 2018 (Ops)

Additional information: SSTL confirm end of life September 2018

Remove Debris Net

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 20 June 2018
Location of launch: Spaced Based Deployment from Remove Debris
Spacecraft

Designation: 1998-067PM
Catalogue Number: 43621

Nodal period: 91.2
Inclination: 51.6
Apogee: 343.5
Perigee: 338.4
Orbital position:

General function: Technology Demonstration
Notified to the UN: 22 October 2018

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: August 2019
Licence issued under the Outer Space Act 1986: 28 March 2018 (launch) & 21 May 2018 (Ops)

Additional information: SSTL confirm end of life September 2018

DoT-1

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 05 July 2019
Location of launch: Vostochny, Cosmodrome, Eastern Russia

Designation: 2019-038P
Catalogue Number: 44399

Nodal period: 95.26
Inclination: 97.49
Apogee: 549
Perigee: 514
Orbital position:

General function: Technology Demonstration
Notified to the UN: 08 August 2019

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 08 August 2019
Licence issued under the Outer Space Act 1986: 03 July 2019

Additional information:

Vesta-1

Owner/Operator: Surrey Satellite Technology Ltd
Tycho House
20 Stephenson Road
Surrey Research Park
Guildford
Surrey
GU2 7YE

Date of launch: 03 December 2018
Location of launch: Vandenberg Air Force Base, USA

Designation: 2018-099Z
Catalogue Number: ST/SG/SER.E/908

Nodal period: 96.3
Inclination: 97.8
Apogee: 599.9
Perigee: 579.5
Orbital position:

General function: Technology Demonstration
Notified to the UN: 20 August 2019

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 27 August 2019
Licence issued under the Outer Space Act 1986: 26 September 2018

Additional information:

O3b M017

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 04 April 2019
Location of launch: Kourou, French Guiana

Designation: 2019-020C
Catalogue Number: 44114

Nodal period: 288
Inclination: 0.04
Apogee: 8069
Perigee: 8059
Orbital position:

General function: Communications
Notified to the UN: 23 August 2019

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 29 August 2019
Licence issued under the Outer Space Act 1986: 02 April 2019

Additional information:

O3b M018

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 04 April 2019
Location of launch: Kourou, French Guiana

Designation: 2019-020D
Catalogue Number: 44115

Nodal period: 288
Inclination: 0.05
Apogee: 8070
Perigee: 8062
Orbital position:

General function: Communications
Notified to the UN: Pending

Disposed or decayed:
Disposal Notified to the UN: 23 August 2019

Accepted onto UK Register of Space Objects:
Licence issued under the Outer Space Act 1986: 29 August 2019
02 April 2019

Additional information:

O3b M019

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 04 April 2019
Location of launch: Kourou, French Guiana

Designation: 2019-020B
Catalogue Number: 44113

Nodal period: 288
Inclination: 0.04
Apogee: 8070
Perigee: 8062
Orbital position:

General function: Communications
Notified to the UN: 23 August 2019

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 29 August 2019
Licence issued under the Outer Space Act 1986: 02 April 2019

Additional information:

O3b M020

Owner/Operator: O3b Limited
3rd Floor
Anley House
Anley Street
St Helier
Jersey
JE2 3QE

Date of launch: 04 April 2019
Location of launch: Kourou, French Guiana

Designation: 2019-020A
Catalogue Number: 44112

Nodal period: 288
Inclination: 0.05
Apogee: 8068
Perigee: 8057
Orbital position:

General function: Communications
Notified to the UN: 23 August 2019

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 29 August 2019
Licence issued under the Outer Space Act 1986: 02 April 2019

Additional information:

NSL-1

Owner/Operator: Clyde Space Ltd
123 St Vincent Street
Glasgow
G2 5EA

Date of launch: 5 July 2019
Location of launch: Vostochny Cosmodrome, Eastern Russia

Designation: 2019-038E
Catalogue Number: 44391

Nodal period: 96.21
Inclination: 97.7
Apogee: 592
Perigee: 562
Orbital position:

General function: Technology Demo
Notified to the UN: 21 November 2019

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: December 2019
Licence issued under the Outer Space Act 1986: 03 November 2019

Additional information:

Inmarsat GX5

Owner/Operator: Inmarsat Global Ltd
99 City Road
London
EC1Y 1AX

Date of launch: 26 November 2019
Location of launch: Kourou, French Guiana

Designation: 2019-080B
Catalogue Number: 44801

Nodal period:
Inclination: 0.00
Apogee: 35786
Perigee: 35786
Orbital position: 11E

General function: Communications
Notified to the UN: December 2019

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: December 2019
Licence issued under the Outer Space Act 1986: 07 November 2019

Additional information:

OneWeb Launch 2 (OWLID00007-OWLID00040)
(See Annex 1 for details of each individual satellite in this launch)

Owner/Operator: Network Access Associates Limited
195 Wood Lane
West Works Building
London
W12 7FQ

Date of launch: 06 February 2020
Location of launch: Baikonur, Kazakhstan

Designation: See Annex 1 for details
Catalogue Number: See Annex 1 for details

Nodal period: 110
Inclination: 87.9
Apogee: 1229
Perigee: 1212
Orbital position:

General function: Communications
Notified to the UN: 30 March 2020

Disposed or decayed: See Annex 1 for details
Disposal Notified to the UN: See Annex 1 for details

Accepted onto UK Register of Space Objects: April 2020
Licence issued under the Outer Space Act 1986: 31 January 2020

Additional information:

Annex 1

OneWeb Launch 2 – Baikonur, Kazakhstan, 06 February 2020

Name	Designation	Catalogue number	Disposed or decayed	Disposal notified to the UN	Additional information (Other names)
OWLID00007	2020-008A	45131			SL0013
OWLID00008	2020-008B	45132			SL0017
OWLID00009	2020-008C	45133			SL0020
OWLID00010	2020-008D	45134			SL0021
OWLID00011	2020-008E	45135			SL0022
OWLID00012	2020-008F	45136			SL0023
OWLID00013	2020-008G	45137			SL0024
OWLID00014	2020-008H	45138			SL0025
OWLID00015	2020-008J	45139			SL0026
OWLID00016	2020-008K	45140			SL0028
OWLID00017	2020-008L	45141			SL0032
OWLID00018	2020-008M	45142			SL0033
OWLID00019	2020-008N	45143			SL0035
OWLID00020	2020-008P	45144			SL0036
OWLID00021	2020-008Q	45145			SL0038
OWLID00022	2020-008R	45146			SL0039
OWLID00023	2020-008S	45147			SL0040
OWLID00024	2020-008T	45148			SL0041
OWLID00025	2020-008U	45149			SL0043
OWLID00026	2020-008V	45150			SL0044
OWLID00027	2020-008W	45151			SL0045
OWLID00028	2020-008X	45152			SL0047
OWLID00029	2020-008Y	45153			SL0048
OWLID00030	2020-008Z	45154			SL0049
OWLID00031	2020-008AA	45155			SL0051
OWLID00032	2020-008AB	45156			SL0052
OWLID00033	2020-008AC	45157			SL0053
OWLID00034	2020-008AD	45158			SL0054
OWLID00035	2020-008AE	45159			SL0056
OWLID00036	2020-008AF	45160			SL0057
OWLID00037	2020-008AG	45161			SL0058
OWLID00038	2020-008AH	45162			SL0059
OWLID00039	2020-008AJ	45163			SL0062
OWLID00040	2020-008AK	45164			SL0065

OneWeb Launch 3 (OWLID00041-OWLID00074)
(See Annex 2 for details of each individual satellite in this launch)

Owner/Operator: Network Access Associates Limited
195 Wood Lane
West Works Building
London
W12 7FQ

Date of launch: 21 March 2020
Location of launch: Baikonur, Kazakhstan

Designation: See Annex 2 for details
Catalogue Number: See Annex 2 for details

Nodal period: 109.4
Inclination: 87.9
Apogee: 1229
Perigee: 1212
Orbital position:

General function: Communications
Notified to the UN: 17 April 2020

Disposed or decayed: See Annex 2 for details
Disposal Notified to the UN: See Annex 2 for details

Accepted onto UK Register of Space Objects: May 2020

Licence issued under the Outer Space Act 1986: 06 March 2020

Additional information:

Annex 2

OneWeb Launch 3 – Baikonur, Kazakhstan, 21 March 2020

Name	Designation	Catalogue number	Disposed or decayed	Disposal notified to the UN	Additional information (Other names)
OWLID00041	2020-020L	45434			SL0018
OWLID00042	2020-020AB	45449			SL0019
OWLID00043	2020-020J	45432			SL0027
OWLID00044	2020-020X	45445			SL0029
OWLID00045	2020-020H	45431			SL0031
OWLID00046	2020-020AG	45454			SL0034
OWLID00047	2020-020S	45440			SL0037
OWLID00048	2020-020T	45441			SL0042
OWLID00049	2020-020Z	45447			SL0046
OWLID00050	2020-020AF	45453			SL0050
OWLID00051	2020-020V	45443			SL0055
OWLID00052	2020-020AH	45455			SL0060
OWLID00053	2020-020E	45428			SL0061
OWLID00054	2020-020AA	45448			SL0063
OWLID00055	2020-020K	45433			SL0064
OWLID00056	2020-020A	45424			SL0066
OWLID00057	2020-020B	45425			SL0067
OWLID00058	2020-020Y	45446			SL0068
OWLID00059	2020-020G	45430			SL0069
OWLID00060	2020-020C	45426			SL0080
OWLID00061	2020-020F	45429			SL0081
OWLID00062	2020-020AE	45452			SL0082
OWLID00063	2020-020M	45435			SL0083
OWLID00064	2020-020Q	45438			SL0085
OWLID00065	2020-020AJ	45456			SL0086
OWLID00066	2020-020AD	45451			SL0087
OWLID00067	2020-020AK	45457			SL0088
OWLID00068	2020-020D	45427			SL0090
OWLID00069	2020-020P	45437			SL0092
OWLID00070	2020-020W	45444			SL0093
OWLID00071	2020-020AC	45450			SL0094
OWLID00072	2020-020N	45436			SL0095
OWLID00073	2020-020R	45439			SL0096
OWLID00074	2020-020U	45442			SL0098

Faraday-1

Owner/Operator: In-Space Missions Limited
Whitmore View
Hammer Lane
Grayshott
Hampshire
GU26 6JD

Date of launch: 4 July 2020
Location of launch: Mahia Launch Facility

Designation:
Catalogue Number:

Nodal period:
Inclination:
Apogee:
Perigee:
Orbital position:

General function: In Orbit Demonstration
Notified to the UN:

Disposed or decayed:
Disposal Notified to the UN:

**Accepted onto UK Register of
Space Objects:** September 2020

**Licence issued under the
Outer Space Act 1986:** 02 July 2020

Additional information: The Electron Launch vehicle failed during the second stage burn and the satellite was lost

OneWeb Launch 4 (OWLID00075-OWLID000110)
(See Annex 3 for details of each individual satellite in this launch)

Owner/Operator: Network Access Associates Limited
195 Wood Lane
West Works Building
London
W12 7FQ

Date of launch: 18 December 2020
Location of launch: Vostochny Cosmodrome, Russia

Designation: See Annex 3 for details
Catalogue Number: See Annex 3 for details

Nodal period: 109.4
Inclination: 87.9
Apogee: 1213
Perigee: 1209
Orbital position:

General function: Communications
Notified to the UN: 07 January 2021

Disposed or decayed: See Annex 3 for details
Disposal Notified to the UN: See Annex 3 for details

Accepted onto UK Register of Space Objects: 08 January 2021
Licence issued under the Outer Space Act 1986: 07 December 2020

Additional information:

Annex 3

OneWeb Launch 4 – Vostochny Cosmodrome 18 December 2020

Name	Designation	Catalogue number	Disposed or decayed	Disposal notified to the UN	Additional information (Other names)
OWLID00075	2020-100A	47258			SL0102
OWLID00076	2020-100B	47259			SL0109
OWLID00077	2020-100C	47260			SL0110
OWLID00078	2020-100D	47261			SL0111
OWLID00079	2020-100E	47262			SL0114
OWLID00080	2020-100F	47263			SL0117
OWLID00081	2020-100G	47264			SL0118
OWLID00082	2020-100H	47265			SL0119
OWLID00083	2020-100J	47266			SL0120
OWLID00084	2020-100K	47267			SL0121
OWLID00085	2020-100L	47268			SL0122
OWLID00086	2020-100M	47269			SL0123
OWLID00087	2020-100N	47270			SL0124
OWLID00088	2020-100P	47271			SL0125
OWLID00089	2020-100Q	47272			SL0126
OWLID00090	2020-100R	47273			SL0127
OWLID00091	2020-100S	47274			SL0128
OWLID00092	2020-100T	47275			SL0129
OWLID00093	2020-100U	47276			SL0130
OWLID00094	2020-100V	47277			SL0131
OWLID00095	2020-100W	47278			SL0132
OWLID00096	2020-100X	47279			SL0133
OWLID00097	2020-100Y	47280			SL0134
OWLID00098	2020-100Z	47281			SL0135
OWLID00099	2020-100AA	47282			SL0136
OWLID00100	2020-100AB	47283			SL0137
OWLID00101	2020-100AC	47284			SL0138
OWLID00102	2020-100AD	47285			SL0139
OWLID00103	2020-100AE	47286			SL0140
OWLID00104	2020-100AF	47287			SL0141
OWLID00105	2020-100AG	47288			SL0142
OWLID00106	2020-100AH	47289			SL0143
OWLID00107	2020-100AJ	47290			SL0144
OWLID00108	2020-100AK	47291			SL0145
OWLID00109	2020-100AL	47292			SL0146
OWLID00110	2020-100AM	47293			SL0147

OneWeb Launch 5 (OWLID00110-OWLID000146)
(See Annex 4 for details of each individual satellite in this launch)

Owner/Operator: Network Access Associates Limited
195 Wood Lane
West Works Building
London
W12 7FQ

Date of launch: 25 March 2021
Location of launch: Vostochny Cosmodrome, Russia

Designation: See Annex 4 for details
Catalogue Number: See Annex 4 for details

Nodal period: 109.4
Inclination: 87.9
Apogee: 1213
Perigee: 1209
Orbital position:

General function: Communications
Notified to the UN: 12 April 2021

Disposed or decayed: See Annex 4 for details
Disposal Notified to the UN: See Annex 4 for details

**Accepted onto UK Register of
Space Objects:** 12 April 2021

**Licence issued under the Outer
Space Act 1986:** 25 January 2021

Additional information:

Annex 4

OneWeb Launch 5 – Vostochny Cosmodrome 25 March 2021

Name	Designation	Catalogue number	Disposed or decayed	Disposal notified to the UN	Additional information (Other names)
OWLID000111	2021-025A	48042			SL0115
OWLID000112	2021-025B	48043			SL0152
OWLID000113	2021-025C	48044			SL0153
OWLID000114	2021-025D	48045			SL0154
OWLID000115	2021-025E	48046			SL0116
OWLID000116	2021-025F	48047			SL0150
OWLID000117	2021-025G	48048			SL0107
OWLID000118	2021-025H	48049			SL0101
OWLID000119	2021-025J	48050			SL0113
OWLID000120	2021-025K	48051			SL0112
OWLID000121	2021-025L	48052			SL0156
OWLID000122	2021-025M	48053			SL0161
OWLID000123	2021-025N	48054			SL0158
OWLID000124	2021-025P	48055			SL0157
OWLID000125	2021-025Q	48056			SL0162
OWLID000126	2021-025R	48057			SL0155
OWLID000127	2021-025S	48058			SL0149
OWLID000128	2021-025T	48059			SL0148
OWLID000129	2021-025U	48060			SL0160
OWLID000130	2021-025V	48061			SL0163
OWLID000131	2021-025W	48062			SL0159
OWLID000132	2021-025X	48063			SL0164
OWLID000133	2021-025Y	48064			SL0167
OWLID000134	2021-025Z	48065			SL0166
OWLID000135	2021-025AA	48066			SL0151
OWLID000136	2021-025AB	48067			SL0170
OWLID000137	2021-025AC	48068			SL0168
OWLID000138	2021-025AD	48069			SL0173
OWLID000139	2021-025AE	48070			SL0171
OWLID000140	2021-025AF	48071			SL0172
OWLID000141	2021-025AG	48072			SL0174
OWLID000142	2021-025AH	48073			SL0175
OWLID000143	2021-025AJ	48074			SL0177
OWLID000144	2021-025AK	48075			SL0178
OWLID000145	2021-025AL	48076			SL0108
OWLID000146	2021-025AM	48077			SL0169

3B5GSAT (SOSAT)

Owner/Operator: Open Cosmos Ltd
Electron Building
Fermi Avenue
Harwell
OX11 0QR

Date of launch: 22 March 2021
Location of launch: Baikonur, Kazakhstan

Designation: 2021-022Y
Catalogue Number: 47954

Nodal period: 95.64
Inclination: 97.57
Apogee: 564
Perigee: 535
Orbital position:

General function: IOT Demo
Notified to the UN: 01 April 2021

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 01 April 2021

Licence issued under the Outer Space Act 1986: 12 March 2021

Additional information:

LacunaSat-2B

Owner/Operator: Open Cosmos Ltd
Electron Building
Fermi Avenue
Harwell
OX11 0QR

Date of launch: 22 March 2021
Location of launch: Baikonur, Kazakhstan

Designation: 2021-022S
Catalogue Number: 47948

Nodal period: 95.65
Inclination: 97.00
Apogee: 562
Perigee: 535
Orbital position:

General function: IOT Analysis
Notified to the UN: 01 April 2021

Disposed or decayed:
Disposal Notified to the UN:

Accepted onto UK Register of Space Objects: 01 April 2021

Licence issued under the Outer Space Act 1986: 12 March 2021

Additional information:

OneWeb Launch 6 (OWLID00147-OWLID000182)
(See Annex 5 for details of each individual satellite in this launch)

Owner/Operator: Network Access Associates Limited
195 Wood Lane
West Works Building
London
W12 7FQ

Date of launch: 25 April 2021
Location of launch: Vostochny Cosmodrome, Russia

Designation: See Annex 5 for details
Catalogue Number: See Annex 5 for details

Nodal period: 109.4
Inclination: 87.9
Apogee: 1213
Perigee: 1209
Orbital position:

General function: Communications
Notified to the UN: 07 May 2021

Disposed or decayed: See Annex 5 for details
Disposal Notified to the UN: See Annex 5 for details

**Accepted onto UK Register of
Space Objects:** 07 May 2021

**Licence issued under the Outer
Space Act 1986:** 08 April 2021

Additional information:

Annex 5

OneWeb Launch 6 – Vostochny Cosmodrome 25 April 2021

Name	Designation	Catalogue number	Disposed or decayed	Disposal notified to the UN	Additional information (Other names)
OWLID000147	2021-031A	48210			SL0176
OWLID000148	2021-031B	48211			SL0184
OWLID000149	2021-031C	48212			SL0179
OWLID000150	2021-031D	48213			SL0180
OWLID000151	2021-031E	48214			SL0218
OWLID000152	2021-031F	48215			SL0209
OWLID000153	2021-031G	48216			SL0198
OWLID000154	2021-031H	48217			SL0189
OWLID000155	2021-031J	48218			SL0196
OWLID000156	2021-031K	48219			SL0183
OWLID000157	2021-031L	48220			SL0185
OWLID000158	2021-031M	48221			SL0187
OWLID000159	2021-031N	48222			SL0192
OWLID000160	2021-031P	48223			SL0219
OWLID000161	2021-031Q	48224			SL0202
OWLID000162	2021-031R	48225			SL0204
OWLID000163	2021-031S	48226			SL0205
OWLID000164	2021-031T	48227			SL0206
OWLID000165	2021-031U	48228			SL0182
OWLID000166	2021-031V	48229			SL0186
OWLID000167	2021-031W	48230			SL0181
OWLID000168	2021-031X	48231			SL0188
OWLID000169	2021-031Y	48232			SL0220
OWLID000170	2021-031Z	48233			SL0165
OWLID000171	2021-031AA	48234			SL0199
OWLID000172	2021-031AB	48235			SL0203
OWLID000173	2021-031AC	48236			SL0197
OWLID000174	2021-031AD	48237			SL0194
OWLID000175	2021-031AE	48238			SL0193
OWLID000176	2021-031AF	48239			SL0191
OWLID000177	2021-031AG	48240			SL0195
OWLID000178	2021-031AH	48241			SL0201
OWLID000179	2021-031AJ	48242			SL0207
OWLID000180	2021-031AK	48243			SL0208
OWLID000181	2021-031AL	48244			SL0200
OWLID000182	2021-031AM	48245			SL0217

Decayed UK objects not in registry

Name	Cat. No.	COSPAR No.	Launched	Decayed
SKYNET 2A	07096	1974-002A	19 Jan 1974	25 Jan 1974
ARIEL 4 (UK-4)	05675	1971-109A	11 Dec 1971	12 Dec 1971
BLACK ARROW DEB	05582	1971-093C	29 Oct 1971	16 Dec 1979
SKYNET 1B	04493	1970-062A	19 Aug 1970	
ARIEL 3 (UK-3)	02773	1967-042A	5 May 1967	14 Dec 1970
ARIEL 2 (UK-2)	00771	1964-015A	27 Mar 1964	18 Nov 1967
ARIEL 1 (UK-1)	00285	1962-015A	26 Apr 1962	24 May 1976
Ariel 4 (UK-4)				12 Dec 1978

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