



**Secretariat**

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**Committee on the Peaceful  
Uses of Outer Space**

**Information furnished in conformity with the Convention  
on Registration of Objects Launched into Outer Space**

**Note verbale dated 31 January 2017 from the Permanent Mission  
of China to the United Nations (Vienna) addressed to the  
Secretary-General**

The Permanent Mission of China to the United Nations (Vienna), in accordance with article IV of the Convention on Registration of Objects Launched into Outer Space (General Assembly resolution 3235 (XXIX), annex) and General Assembly resolution 62/101, has the honour to transmit information on 56 space objects launched by China between January 2014 and August 2016 (see annex).



## Annex

### Registration data on space objects launched by China<sup>\*</sup>

#### SJ-11-06

##### Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of space object	SJ-11-06
State of registry	China
Date and territory or location of launch	31 March 2014 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	Space-related scientific and technological tests

##### Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 2C (CZ-2C)

#### Yaogan 20A

##### Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of space object	Yaogan 20A
State of registry	China
Date and territory or location of launch	9 August 2014 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	Scientific experiments, territorial resources survey, crop yield estimation, disaster mitigation, etc.

<sup>\*</sup> The information was submitted using the form prepared pursuant to General Assembly resolution 62/101 and has been reformatted by the Secretariat.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4C (CZ-4C)

### **Yaogan 20B**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Yaogan 20B
State of registry	China
Date and territory or location of launch	9 August 2014 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	Scientific experiments, territorial resources survey, crop yield estimation, disaster mitigation, etc.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4C (CZ-4C)

### **Yaogan 20C**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Yaogan 20C
State of registry	China
Date and territory or location of launch	9 August 2014 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	Scientific experiments, territorial resources survey, crop yield estimation, disaster mitigation, etc.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4C (CZ-4C)

## **GF-2**

### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2014-049A
Name of space object	GF-2
State of registry	China
Date and territory or location of launch	19 August 2014 at 0315 hours UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	97.3164 minutes
Inclination	97.908 degrees
Apogee	631 kilometres
Perigee	631 kilometres
General function of space object	To provide high-definition Earth observation data for territorial resources, housing and urban and rural development, transportation, forestry and other industries

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4B (CZ-4B)

## **Ling Qiao**

### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2014-051A
Name of space object	Ling Qiao
State of registry	China
Date and territory or location of launch	4 September 2014 at 0015 hours 0 seconds UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	100.9 minutes
Inclination	98.4 degrees
Apogee	800 kilometres
Perigee	800 kilometres

General function of space object	The main task of Ling Qiao is to perform early technical experiments in the satellite Internet field and to provide a complete test platform for satellite Internet technology
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**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	Tsinghua University, China
Launch vehicle	Chang Zheng (Long March) 2D (CZ-2D)

**Yaogan 21**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2014-053A
Name of space object	Yaogan 21
State of registry	China
Date and territory or location of launch	8 September 2014 at 0322 hours UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	94.4930 minutes
Inclination	97.3798 degrees
Apogee	495 kilometres
Perigee	495 kilometres
General function of space object	Scientific experiments, territorial resources survey, crop yield estimation, disaster mitigation, etc.

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4B (CZ-4B)

**SJ-11-07**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	SJ-11-07
State of registry	China
Date and territory or location of launch	28 September 2014 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..

General function of space object	Space-related scientific and technological tests
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**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 2C (CZ-2C)

**22nd Remote Sensing Satellite**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	22nd Remote Sensing Satellite
State of registry	China
Date and territory or location of launch	20 October 2014 UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	109 minutes
Inclination	100.326 degrees
Apogee	..
Perigee	..
General function of space object	Scientific experiments, land resources survey, crop yield estimation and disaster prevention and mitigation

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Launch vehicle	Chang Zheng (Long March) 4C (CZ-4C)
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**Chang'e 5-T1**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2014-065A
Name of space object	Chang'e 5-T1
State of registry	China
Date and territory or location of launch	23 October 2014 at 1800 hours UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	15,806.2 minutes
Inclination	43.3841 degrees
Apogee	404,447 kilometres
Perigee	58 kilometres
General function of space object	Demonstration of key technology for semi-ballistic high-speed skip re-entry

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3C (CZ-3C)
Celestial body space object is orbiting	The Moon

### **SJ-11-08**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	SJ-11-08
State of registry	China
Date and territory or location of launch	27 October 2014 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	Space-related scientific and technological tests

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 2C (CZ-2C)

### **23rd Remote Sensing Satellite**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	23rd Remote Sensing Satellite
State of registry	China
Date and territory or location of launch	14 November 2014 at 1853 hours 5 seconds UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	95 minutes
Inclination	97.34 degrees
Apogee	..
Perigee	..
General function of space object	Scientific experiments, land resources survey, crop yield estimation, disaster prevention and mitigation, etc.

### Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle	Chang Zheng (Long March) 2C (CZ-2C)
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## Yaogan 24

## Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of space object	Yaogan 24
State of registry	China
Date and territory or location of launch	20 November 2014 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	Scientific experiments, land resources survey, crop yield estimation, disaster prevention and mitigation, etc.

### Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 2D (CZ-2D)

**CBERS-4**

## Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2014-079A
Name of space object	CBERS-4
State of registry	China
Other launching States	Brazil
Date and territory or location of launch	7 December 2014 at 0326 hours UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	100.3753 minutes
Inclination	98.5044 degrees
Apogee	778 kilometres
Perigee	778 kilometres
General function of space object	For crop yield estimation, environmental protection and monitoring, territorial resources survey, disaster monitoring, etc.



### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4B (CZ-4B)

### **Yaogan 25A**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Yaogan 25A
State of registry	China
Date and territory or location of launch	10 December 2014 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For scientific experiments, territorial resources survey, crop yield estimation, disaster mitigation, etc.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4C (CZ-4C)

### **Yaogan 25B**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Yaogan 25B
State of registry	China
Date and territory or location of launch	10 December 2014 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For scientific experiments, territorial resources survey, crop yield estimation, disaster mitigation, etc.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4C (CZ-4C)

### **Yaogan 25C**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Yaogan 25C
State of registry	China
Date and territory or location of launch	10 December 2014 UTC
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For scientific experiments, territorial resources survey, crop yield estimation, disaster mitigation, etc.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4C (CZ-4C)

### **Yaogan 26**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2014-088A
Name of space object	Yaogan 26
State of registry	China
Date and territory or location of launch	27 December 2014 at 0322 hours UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For scientific experiments, territorial resources survey, crop yield estimation, disaster mitigation, etc.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4B (CZ-4B)

## **FY-2G**

### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	FY-2G
State of registry	China
Date and territory or location of launch	31 December 2014 UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	2.3 degrees
Apogee	..
Perigee	..
General function of space object	Meteorological observations

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Geostationary position	99.7 degrees East
Space object owner or operator	China Meteorological Administration
Launch vehicle	Chang Zheng (Long March) 3A (CZ-3A)

## **BD-17**

### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	BD-17
State of registry	China
Date and territory or location of launch	30 March 2015 UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	Navigation

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3C (CZ-3C)

**GF-8****Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-030A
Name of space object	GF-8
State of registry	China
Date and territory or location of launch	26 June 2015 at 0622 hours UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For general survey of land territory, city planning, land approval, road network design, crop yield estimation, disaster mitigation, etc.

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4B (CZ-4B)

**BD-18****Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-037A
Name of space object	BD-18
State of registry	China
Date and territory or location of launch	25 July 2015 at 1229 hours UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For the demonstration of a new type of navigation signal system, a new radio frequency band for a navigation system, inter-satellite links, etc.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3B (CZ-3B)

### **BD-19**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-037B
Name of space object	BD-19
State of registry	China
Date and territory or location of launch	25 July 2015 at 1229 hours UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For the demonstration of a new type of navigation signal system, a new radio frequency band for a navigation system, inter-satellite links, etc.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3B (CZ-3B)

### **27th Remote Sensing Satellite**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	27th Remote Sensing Satellite
State of registry	China
Date and territory or location of launch	27 August 2015 UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	109 minutes
Inclination	100.486 degrees
Apogee	..
Perigee	..
General function of space object	Scientific experiments, land resources survey, crop yield estimation and disaster prevention and mitigation

### Additional voluntary information for use in the Register of Objects Launched into Outer Space

Launch vehicle	Chang Zheng (Long March) 4C (CZ-4C)
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## TXJSSY-1

## Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research  
international designator

Name of space object TXJSSY-1

State of registry	China
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Date and territory or location of launch	12 September 2015 at 1542 hours UTC Xichang Satellite Launch Centre, China
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### Basic orbital parameters

Nodal period ..

Inclination ..

Apogee ..

Perigee ..

General function of space object	For conducting tests of Ka-band broadband communications technology
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### Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	China
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## GF-9

## Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of space object GF-9

State of registry	China
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Date and territory or location of launch	14 September 2015 UTC Jiuquan Satellite Launch Centre, China
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### Basic orbital parameters

Nodal period ..

Inclination ..

Apogee ..

Perigee ..

General function of space object	For general survey of land territory, city planning, land approval, road network design, crop yield estimation, disaster mitigation, etc.
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### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 2D (CZ-2D)

### **KT-1A**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-049F
Name of space object	KT-1A
State of registry	China
Date and territory or location of launch	19 September 2015 at 2300 hours UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	95.3 minutes
Inclination	97.47 degrees
Apogee	524 kilometres
Perigee	524 kilometres
General function of space object	For tests of new technology, new systems and new products in outer space

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 6 (CZ-6)

### **KT-1B**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-049P
Name of space object	KT-1B
State of registry	China
Date and territory or location of launch	19 September 2015 at 2300 hours UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	95.3 minutes
Inclination	97.47 degrees
Apogee	524 kilometres
Perigee	524 kilometres
General function of space object	For tests of new technology, new systems and new products in outer space

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 6 (CZ-6)

**XW-2A**
**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	XW-2A
State of registry	China
Date and territory or location of launch	19 September 2015 UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For tests of new technology, new systems and new products in outer space

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 6 (CZ-6)

**XW-2B**
**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	XW-2B
State of registry	China
Date and territory or location of launch	19 September 2015 UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For tests of new technology, new systems and new products in outer space



**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 6 (CZ-6)

**XW-2C**
**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	XW-2C
State of registry	China
Date and territory or location of launch	19 September 2015 UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For tests of new technology, new systems and new products in outer space

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 6 (CZ-6)

**XW-2D**
**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	XW-2D
State of registry	China
Date and territory or location of launch	19 September 2015 UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For tests of new technology, new systems and new products in outer space

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 6 (CZ-6)

**XW-2E****Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	XW-2E
State of registry	China
Date and territory or location of launch	19 September 2015 UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For tests of new technology, new systems and new products in outer space

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 6 (CZ-6)

**XW-2F****Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	XW-2F
State of registry	China
Date and territory or location of launch	19 September 2015 UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For tests of new technology, new systems and new products in outer space

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 6 (CZ-6)

### **ZDPS-2**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	ZDPS-2
State of registry	China
Date and territory or location of launch	19 September 2015 UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	Space-related science experiments

### **Pujiang 1**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Pujiang 1
State of registry	China
Date and territory or location of launch	25 September 2015 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	94.03 minutes
Inclination	97.3 degrees
Apogee	..
Perigee	..
General function of space object	Environmental monitoring, land and resources survey, emergency search and rescue

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Launch vehicle	Chang Zheng (Long March) 11 (CZ-11)
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**BD-20****Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-053A
Name of space object	BD-20
State of registry	China
Date and territory or location of launch	29 September 2015 at 2313 hours UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For the demonstration of a new type of navigation signal system, a new radio frequency band for a navigation system, inter-satellite links, etc.

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Geostationary position	95 degrees East
Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3B (CZ-3B)

**APStar-9****Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-059A
Name of space object	APStar-9
State of registry	China
Date and territory or location of launch	16 October 2015 at 1616 hours UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	To provide services for radio and television, very small aperture terminals (VSATs), cellular backhaul, maritime and airline broadband access

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Geostationary position	142 degrees East
Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3B (CZ-3B)

**TH-1C**
**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	TH-1C
State of registry	China
Date and territory or location of launch	26 October 2015 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For scientific research, land resources survey, mapping and scientific experiments

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 2D (CZ-2D)

**ZX-2C**
**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-063A
Name of space object	ZX-2C
State of registry	China
Date and territory or location of launch	3 November 2015 at 1625 hours UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	To provide nationwide radio, television and broadband multimedia services for broadcasting stations, television stations, radio transmission stations, cable television networks, etc.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Geostationary position	103.4 degrees East
Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3B (CZ-3B)

### **Yaogan 28**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-064A
Name of space object	Yaogan 28
State of registry	China
Date and territory or location of launch	8 November 2015 at 0706 hours UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For scientific experiments, territorial resources survey, crop yield estimation, disaster mitigation, etc.

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4B (CZ-4B)

### **29th Remote Sensing Satellite**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	29th Remote-sensing Satellite
State of registry	China
Date and territory or location of launch	26 November 2015 at 2124 hours 6 seconds UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	97.343 minutes
Inclination	97.833 degrees
Apogee	..
Perigee	..

General function of space object	Mainly used for scientific experiments, land resources survey, crop yield estimates and disaster prevention and reduction
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**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Launch vehicle	Chang Zheng (Long March) 4C (CZ-4C)
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**ZX-1C**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-073A
Name of space object	ZX-1C
State of registry	China
Date and territory or location of launch	9 December 2015 at 1646 hours UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	To provide nationwide radio, television and broadband multimedia services for broadcasting stations, television stations, radio transmission stations, cable television networks, etc.

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3B (CZ-3B)

**Dark Matter Particle Explorer (DAMPE)**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Dark Matter Particle Explorer (DAMPE)
State of registry	China
Date and territory or location of launch	17 December 2015 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	94 minutes
Inclination	97.301722 degrees
Apogee	511.95 kilometres

Perigee	505.75 kilometres
General function of space object	Dark matter detection

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 2D (CZ-2D)

**GF-4**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2015-083A
Name of space object	GF-4
State of registry	China
Date and territory or location of launch	28 December 2015 at 1604 hours UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	To realize high time-resolution observations of China and its neighbouring regions and to provide support for disaster mitigation, forestry, earthquake, weather and other business application areas

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Geostationary position	105.6 degrees East
Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3B (CZ-3B)

**BD-21**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	BD-21
State of registry	China
Date and territory or location of launch	1 February 2016 UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..



Inclination	..
Apogee	..
Perigee	..
General function of space object	Navigation

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3C (CZ-3C)

**BD-IGSO-6**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2016-021A
Name of space object	BD-IGSO-6
State of registry	China
Date and territory or location of launch	29 March 2016 at 2011 hours UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	To improve the capability of services provided by the Beidou system and enhance the system's robustness, establishing a solid foundation for the extension of its service regions

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Geostationary position	95 degrees East
Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3A (CZ-3A)

**SJ-10**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2016-023A
Name of space object	SJ-10
State of registry	China

Date and territory or location of launch	5 April 2016 at 1738 hours UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	90.16 minutes
Inclination	42.893 degrees
Apogee	315 kilometres
Perigee	251 kilometres
General function of space object	To carry out space-related scientific tests and research, reveal the rules governing an object's movement and life activity under the condition of microgravity and space radiation, and accomplish innovative scientific achievements

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 2D (CZ-2D)

**Yaogan 30**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Yaogan 30
State of registry	China
Date and territory or location of launch	15 May 2016 UTC Jiuquan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	For scientific experiments, territorial resources survey, crop yield estimation, disaster mitigation, etc.

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 2D (CZ-2D)

**ZY-3-02**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2016-033A
Name of space object	ZY-3-02

State of registry	China
Date and territory or location of launch	30 May 2016 at 0317 hours UTC Taiyuan Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	94.716 minutes
Inclination	97.421 degrees
Apogee	506 kilometres
Perigee	506 kilometres
General function of space object	To provide services for land territory surveying and mapping, resource surveying and monitoring, disaster mitigation, agriculture, forestry, water conservation, environment, city planning and construction, transportation, the nation's major projects, etc.

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 4B (CZ-4B)

**BD-2-G7**

**Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Committee on Space Research international designator	2016-037A
Name of space object	BD-2-G7
State of registry	China
Date and territory or location of launch	12 June 2016 at 1530 hours UTC Xichang Satellite Launch Centre, China
Basic orbital parameters	
Nodal period	1,440 minutes
Inclination	1.8 degrees
Apogee	35,786 kilometres
Perigee	35,786 kilometres
General function of space object	To improve the capability of services provided by the Beidou system and enhance the system's robustness, establishing a solid foundation for the extension of its service regions

**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Geostationary position	144.5 degrees East
Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 3C (CZ-3C)

## Scaled-down Crew Capsule (DFFC)

### Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Committee on Space Research international designator	2016-042A
Name of space object	Scaled-down Crew Capsule (DFFC)
State of registry	China
Date of launch	25 June 2016 at 1200 hours UTC
Basic orbital parameters	
Nodal period	..
Inclination	..
Apogee	..
Perigee	..
General function of space object	Demonstrate new re-entry technologies of a crew capsule.
Date of decay/re-entry/deorbit	26 June 2016 at 0741 hours UTC

### Additional voluntary information for use in the Register of Objects Launched into Outer Space

Space object owner or operator	China
Launch vehicle	Chang Zheng (Long March) 7 (CZ-7)

## AL-1

### Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space

Name of space object	AL-1
State of registry	China
Date and territory or location of launch	25 June 2016 at 1200 hours 0 seconds UTC Wenchang Launch Centre, Hainan, China
Basic orbital parameters	
Nodal period	92 minutes
Inclination	40.8 degrees
Apogee	366 kilometres
Perigee	198 kilometres
General function of space object	The function of the AL-1 vehicle is to verify key technologies for active space debris removal and to conduct passivation after the mission

### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

#### Change of status in operations

Date when space object is no longer functional	25 June 2016 at 1543 hours 24 seconds UTC
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Date when space object is moved to a disposal orbit	25 June 2016 at 1554 hours 24 seconds UTC
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Physical conditions when space object is moved to a disposal orbit	Passivated
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Space object owner or operator	China
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Launch vehicle	Chang Zheng (Long March) 7 (LM-7)
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### **Brilliant Pigeon**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Brilliant Pigeon
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State of registry	China
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Date and territory or location of launch	25 June 2016 at 1200 hours 0 seconds UTC Wenchang Launch Centre, Hainan, China
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#### Basic orbital parameters

Nodal period	90 minutes
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Inclination	40.82 degrees
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Apogee	295.56 kilometres
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Perigee	287.60 kilometres
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General function of space object	Scientific testing, Earth observation and network communications
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Date of decay/re-entry/deorbit	Approximately 3 August 2016 UTC
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### **Additional voluntary information for use in the Register of Objects Launched into Outer Space**

#### Change of status in operations

Date when space object is no longer functional	26 June 2016 at 1630 hours UTC
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Space object owner or operator	China
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Launch vehicle	Chang Zheng (Long March) 7 (LM-7)
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### **Shijian 16 (02)**

#### **Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Shijian 16 (02)
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State of registry	China
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Date and territory or location of launch	29 June 2016 at 0321 hours 3.975 seconds UTC Jiuquan Satellite Launch Centre, China
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## Basic orbital parameters

Nodal period	97.6 minutes
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Inclination	75 degrees
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Apogee	..
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Perigee	..
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General function of space object	Space environment detection and technology test application
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**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Launch vehicle	Chang Zheng (Long March) 4B (CZ-4B)
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**Quantum Experiments at Space Scale (QUESS)****Information provided in conformity with the Convention on Registration of Objects Launched into Outer Space**

Name of space object	Quantum Experiments at Space Scale (QUESS)
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State of registry	China
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Date and territory or location of launch	15 August 2016 UTC Jiuquan Satellite Launch Centre, China
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## Basic orbital parameters

Nodal period	94.6 minutes
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Inclination	97.412 degrees
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Apogee	510.14 kilometres
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Perigee	505.14 kilometres
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General function of space object	Quantum scientific experiments
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**Additional voluntary information for use in the Register of Objects Launched into Outer Space**

Space object owner or operator	China
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Launch vehicle	Chang Zheng (Long March) 3C (CZ-3C)
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