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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 13 September 2018 from the Permanent Mission of the United States of America to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of the United States of America 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), has the honour to transmit registration data on objects launched into outer space by the United States for the period from May to September 2017 (see annexes I-V).¹

The United States requests that the space objects contained in the annexes to this document be placed on the Register of Objects Launched into Outer Space maintained by the United Nations. In submitting this request, the United States notes that, consistent with its long-standing registration practice, the United States is not necessarily a launching State for each of the space objects it registers. The United States makes this request in the spirit of contributing to the practical effectiveness of the treaties and is providing information to the greatest extent practicable.

¹ The data on space objects referenced in the annexes were entered into the Register of Objects Launched into Outer Space on 1 October 2018.



V.20-02355 (E) 070520 080520



Annex I

Registration data on space launches by the United States of America for May 2017^*

The following report supplements the registration data on United States space launches as at 31 May 2017. All launches were made from the territory of the United States unless otherwise specified.

				Ba	asic orbital ch	aracteristi	cs	
International designation	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object
The following	g objects were la	unched since the	last report and re	main in o	rbit:			
2017-022A	USA 276	1 May 2017	_	92.3	50	395	388	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-025B	Falcon 9 R/B	15 May 2017	_	1 410.7	24.5	70 190	385	Spent boosters, spent manoeuvring stage, shrouds and other non-functional objects
The following	g objects not pre	viously reported	have been identif	ied since t	the last repor	rt:		
1998-067LK	Columbia	16 May 2017	Deployed from ISS Kibo Module	92.5	51.6	405	394	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067LL	SGSat	16 May 2017	Deployed from ISS Kibo Module	92.5	51.6	405	393	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067LM	CXBN-2	16 May 2017	Deployed from ISS Kibo Module	92.5	51.6	405	394	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067LN	Icecube	16 May 2017	Deployed from ISS Kibo Module	92.5	51.6	405	394	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067LS	Altair Pathfinder	17 May 2017	Deployed from ISS Kibo Module	92.5	51.6	405	393	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067LT	Sharc	17 May 2017	Deployed from ISS Kibo Module	92.5	51.6	405	394	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067LW	CSUNSat 1	17 May 2017	Deployed from ISS Kibo Module	92.5	51.6	405	394	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

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

				Ba	sic orbital ch	aracteristi	CS	
International designation	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object
1998-067MA	Challenger	25 May 2017	Deployed from ISS Kibo Module	92.5	51.6	405	394	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067MS	Atlantis	26 May 2017	Deployed from ISS Kibo Module	92.5	51.6	405	393	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
The following None.	objects not pre-	viously reported	have been identifi	ed since t	he last repor	t but are	no longer	in orbit as at 2359Z on 31 May 2017:
The following	objects achieve	ed orbit since the	last report but are	no longe	r in orbit as	at 2359Z	on 31 Ma	ay 2017:
2017-022B	Falcon 9 R/B	1 May 2017	_	92.3	50	394	238	Spent boosters, spent manoeuvring stage, shrouds and other non-functional objects
e	objects identifi B, 1998-067HU	1	report are no long	er in orbit	t as at 2359Z	c on 31 M	ay 2017:	
	objects were la	unched since the	e last report but die	l not achi	eve orbit:			
The following								
The following None.								
None.	should be made	e to previously r	eported data:					

Annex II

Registration data on space launches by the United States of America for June 2017^{*}

The following report supplements the registration data on United States space launches as at 30 June 2017. All launches were made from the territory of the United States unless otherwise specified.

				Вс	ısic orbital ch	aracteristi	CS	
International designation	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)		General function of the space object	
The following	g objects were launch	ed since the las	t report and re	emain in o	rbit:			
2017-030A	Dragon CRS-11	3 June 2017	-	92.66	51.64	408	402	Reusable space transportation systems
2017-032A	EchoStar 21	8 June 2017	_	637.7	49	32 912	415	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-036G	Lemur 2 Shainajohl	23 June 2017	Sriharikota, India	94.6	97.4	523	508	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-036Н	Lemur 2 Xueniterence	23 June 2017	Sriharikota, India	94.6	97.4	523	508	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-036J	Lemur 2 Lucybryce	23 June 2017	Sriharikota, India	94.6	97.4	523	508	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-036K	Lemur 2 Kungfoo	23 June 2017	Sriharikota, India	94.6	97.4	523	508	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-036Q	Lemur 2 Lynsey- Symo	23 June 2017	Sriharikota, India	94.6	97.4	523	508	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-036R	Lemur 2 Lisasaurus	23 June 2017	Sriharikota, India	94.6	97.4	523	508	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-0368	Lemur 2 Sam- Amelia	23 June 2017	Sriharikota, India	94.6	97.4	523	508	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-036T	Lemur 2 Mcpeake	23 June 2017	Sriharikota, India	94.6	97.4	523	508	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-038B	Falcon 9 R/B	23 June 2017	-	1 285.3	23.9	65 350	211	Spent boosters, spent manoeuvring stage, shrouds and other non-functional objects
2017-039A	Iridium 113	25 June 2017	_	96.9	86.7	637	621	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-039B	Iridium 123	23 June 2017	_	96.9	86.7	640	618	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

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			Location of the launch	Ba	asic orbital ch	aracteristi	CS	
International designation	Name of the space object	Date of the launch		Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object
2017-039C	Iridium 120	25 June 2017	_	97	86.7	636	620	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-039D	Iridium 115	25 June 2017	_	96.9	86.7	639	624	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-039E	Iridium 118	25 June 2017	_	96.9	86.7	639	624	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-039F	Iridium 117	25 June 2017	_	96.9	86.7	636	623	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-039G	Iridium 126	25 June 2017	_	96.9	86.7	637	618	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-039Н	Iridium 124	23 June 2017	_	96.9	86.7	636	623	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-039J	Iridium 128	25 June 2017	_	97	86.7	641	625	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-039K	Iridium 121	25 June 2017	_	97	86.7	637	621	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
The following	g objects not previou	sly reported hav	ve been identif	fied since	the last repor	·t:		
2017-019B	Lemur 2 Angela	8 June 2017	Deployed from Cygnus OA-8	94.3	51.6	491	475	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-019C	Lemur 2 Jennybarna	8 June 2017	Deployed from Cygnus OA-8	94.3	51.6	491	475	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-019D	Lemur 2 Robmoore	8 June 2017	Deployed from Cygnus OA-8	94.3	51.6	491	476	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2019-019E	Lemur 2 Spirovision	8 June 2017	Deployed from Cygnus OA-8	94.3	51.6	491	476	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

The following objects not previously reported have been identified since the last report but are no longer in orbit as at 2359Z on 30 June 2017: None.

				Ва	asic orbital ch	aracteristi	cs	
International designation	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object
	g objects achieved or	rbit since the la	ast report but ar	e no longe	er in orbit as	at 2359Z	on 30 Jui	ne 2017:
None.								
	g objects identified in 2D 1998-067HO 20	1		ger in orbi	t as at 2359Z	Z on 30 Ju	ine 2017:	
1998-032	2D, 1998-067HQ, 20)16-019B, 2017	7-019A	-		2 on 30 Ju	ine 2017:	
1998-032 The following	5 5)16-019B, 2017	7-019A	-		Z on 30 Ju	ine 2017:	
1998-032 The following None.	2D, 1998-067HQ, 20 g objects were launcl)16-019B, 2017 hed since the la	7-019A ast report but di	-		2 on 30 Ju	ine 2017:	
1998-032 The following None.	2D, 1998-067HQ, 20)16-019B, 2017 hed since the la	7-019A ast report but di	-		2 on 30 Ju	ine 2017:	

Registration data on space launches by the United States of America for July 2017^{*}

The following report supplements the registration data on United States space launches as at 31 July 2017. All launches were made from the territory of the United States unless otherwise specified.

				Ba.	sic orbital ch	aracteristic	5	
International designation	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object
The following	objects were lau	nched since the	e last report ar	nd remain in or	rbit:			
2017-041A	Intelsat 35E	5 July 2017	-	1 436.1	0.02	35 796	35 778	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-041B	Falcon 9 R/B	5 July 2017	-	773	25.8	42 749	297	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2017-042N	Lemur 2 Greenberg	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-042P	Lemur 2 Andis	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-042Q	Lemur 2 Monson	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-042R	Lemur 2 Furiaus	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-0428	Lemur 2 Peterg	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-042T	Lemur 2 Dembitz	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-042V	Nanoace	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-042W	Lemur 2 Zachary	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-042X	Corvus BC2	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-042Y	Corvus BC1	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications
2017-042AB	Flock 2K 03	14 July 2017	_	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses o space technology such as weather or communications

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				Bas	sic orbital cha	iracteristics		
International designation	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object
2017-042AC	Flock 2K 04	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AD	Flock 2K 01	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AE	Flock 2K 02	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AF	Flock 2K 47	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AG	Flock 2K 48	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AH	Flock 2K 45	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AJ	Flock 2K 24	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AK	Flock 2K 46	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AL	Flock 2K 23	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AM	Flock 2K 21	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AN	Flock 2K 22	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AP	Flock 2K 07	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AQ	Flock 2K 08	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AR	Flock 2K 05	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AS	Flock 2K 40	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AT	Flock 2K 39	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AU	Flock 2K 37	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AV	Flock 2K 38	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

				Bas	sic orbital cha	aracteristics		
International designation	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object
2017-042AW	Flock 2K 31	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AX	Flock 2K 32	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AY	Flock 2K 29	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042AZ	Flock 2K 30	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BA	Flock 2K 44	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BB	Flock 2K 43	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BC	Flock 2K 41	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BD	Flock 2K 36	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BE	Flock 2K 35	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BF	Flock 2K 34	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BG	Flock 2K 33	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BH	Flock 2K 28	14 July 2017	_	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BJ	Lemur 2 Artfischer	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BK	Flock 2K 27	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BL	Flock 2K 26	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BM	Flock 2K 25	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BN	Flock 2K 20	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BP	Flock 2K 19	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

	Basic orbital characteristics							
International designation	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object
2017-042BQ	Flock 2K 18	14 July 2017	_	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BR	Flock 2K 17	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BS	Flock 2K 16	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BT	Flock 2K 15	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BU	Flock 2K 13	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BV	Flock 2K 14	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BW	Flock 2K 12	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BX	Flock 2K 11	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BY	Flock 2K 10	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042BZ	Flock 2K 09	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-042CA	Flock 2K 06	14 July 2017	-	95.5	97.6	602	586	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
The following on None.	objects not prev	iously reported	have been ide	entified since t	he last repor	t:		
	objects not prev	iously reported	have been ide	entified since t	he last repor	t but are n	io longer i	n orbit as at 2359Z on 31 July 2017:
	objects achieved	l orbit since the	last report bu	t are no longer	r in orbit as	at 2359Z o	on 31 July	2017:
The following o	objects identifie	d on a previous 998-067JQ, 199	-	longer in orbi	t as at 23592	Z on 31 Ju	ly 2017:	

None.

Revisions that should be made to previously reported data:

None.

Registration data on space launches by the United States of America for August 2017^{*}

The following report supplements the registration data on United States space launches as at 31 August 2017. All launches were made from the territory of the United States unless otherwise specified.

				Bas	ic orbital cha	iracteristics		
International designation	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object
The following	g objects were lau	nched since th	e last report an	d remain in or	bit:			
2017-045A	Dragon CRS-12	14 August 2017	_	92.4	51.6	398	393	Reusable space transportation systems
2017-047A	TDRS 13	18 August 2017	_	718.8	26.2	35 757	4 648	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-047B	Atlas 5 Centaur R/B	18 August 2017	_	693.7	26.4	34 757	4 405	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-050A	ORS 5 Sensorsat	26 August 2017	_	96.7	0.1	613	589	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-050E	Minotaur R/B	26 August 2017	_	96.7	0.1	613	589	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2017-050G	Minotaur R/B	26 August 2017	_	94.9	24.7	598	431	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
The followin None.	g objects not prev	iously reported	have been ide	ntified since t	he last repor	t:		
The following None.	g objects not prev	iously reported	have been ide	ntified since t	he last repo	rt but were	no longer	r in orbit as at 2359Z on 31 August 2017:
The following	g objects achieved	l orbit since the	e last report bu	t were no long	ger in orbit a	s at 2359Z	on 31 Au	igust 2017:
None.								
The following 2015-01	g objects identifie 1E	d in a previous	report were no	o longer in orb	oit as at 2359	9Z on 31 A	ugust 201	17:
The following None.	g objects were lau	nched since th	e last report bu	t did not achie	eve orbit:			
Revisions tha	it should be made	to previously r	eported data:					
None.								

Annex IV

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

E Annex V

Registration data on space launches by the United States of America for September 2017^{*}

The following report supplements the registration data on United States space launches as at 30 September 2017. All launches were made from the territory of the United States unless otherwise specified.

				Bas	sic orbital ch	aracteristics	5	
International designation	Name of the space object	Date of the launch	Location of the launch	Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	General function of the space object
The followin	g objects were l	aunched since the las	st report and	remain in or	bit:			
2017-052A	OTV 5 (USA 277)	7 September 2017	_	89.9	56.9	356	182	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2017-056A	USA 278	24 September 2017	_	707.7	63.7	37 661	2 196	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
None.		eviously reported hav			1		e no long	er in orbit as at 23 59Z on 30 September 2017:
2017-052B		7 September 2017		89.9	56.9	356	182	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
The followin None.	g objects achiev	ed orbit since the las	t report but	were no long	er in orbit a	as at 2359	Z on 30 S	September 2017:
	5	fied in a previous rep 1998-067HX, 1998-		e	it as at 235	9Z on 30	Septembe	er 2017:
The followin None.	g objects were l	aunched since the las	st report but	did not achie	ve orbit:			
Revisions that	t should be mad	le to previously repo	rted data:					
None.								

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