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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 18 May 2017 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 August 2016 (see annexes I–IV).<sup>1</sup>

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.

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<sup>1</sup> The data on space objects referenced in the annexes were entered into the Register of Objects Launched into Outer Space as at 31 July 2017.



## Annex I

## Registration data on space launches by the United States of America for May 2016\*

The following report supplements the registration data on United States space launches as at 31 May 2016. All launches were made from the territory of the United States unless otherwise specified.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects were launched since the last report and remain in orbit:								
2016-028B	Falcon 9 R/B	6 May 2016	–	633.3	23.7	35 915	188	Spent boosters, spent manoeuvring stage, shrouds and other non-functional objects
2016-031B	Falcon 9 R/B	27 May 2016	–	1 968.8	21.1	90 939	375	Spent boosters, spent manoeuvring stage, shrouds and other non-functional objects
The following objects not previously reported have been identified since the last report:								
1998-067HU	MinXSS	16 May 2016	Launched from ISS Kibo Module	92.4	51.6	394	392	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067HV	CADRE	16 May 2016	Launched from ISS Kibo Module	92.3	51.6	391	388	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067HW	STMSat 1	16 May 2016	Launched from ISS Kibo Module	92.4	51.6	394	392	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067HX	NODeS 1	16 May 2016	Launched from ISS Kibo Module	92.4	51.6	396	394	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067HY	NODeS 2	16 May 2016	Launched from ISS Kibo Module	92.4	51.6	396	394	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067HZ	Flock 2EP 1	17 May 2016	Launched from ISS Kibo Module	92.4	51.6	399	394	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JA	Flock 2EP 2	17 May 2016	Launched from ISS Kibo Module	92.4	51.6	398	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.

<i>International designation</i>	<i>Name of the space object</i>	<i>Date of the launch</i>	<i>Location of the launch</i>	<i>Basic orbital characteristics</i>				<i>General function of the space object</i>
				<i>Nodal period (min)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>	<i>Perigee (km)</i>	
1998-067JB	Flock 2EP 3	17 May 2016	Launched from ISS Kibo Module	92.4	51.6	398	394	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JC	Flock 2EP 4	17 May 2016	Launched from ISS Kibo Module	92.4	51.6	398	393	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JD	Flock 2E 1	17 May 2016	Launched from ISS Kibo Module	92.4	51.6	398	397	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JE	Flock 2E 2	17 May 2016	Launched from ISS Kibo Module	92.4	51.6	397	395	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JF	Lemur 2 Thersacondor	18 May 2016	Launched from ISS Kibo Module	92.4	51.6	395	393	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JG	Flock 2E 3	18 May 2016	Launched from ISS Kibo Module	92.5	51.6	398	396	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JH	Flock 2E 4	18 May 2016	Launched from ISS Kibo Module	92.4	51.6	398	395	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JJ	Lemur 2 Nick-Allain	18 May 2016	Launched from ISS Kibo Module	92.5	51.6	402	400	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JK	Lemur 2 Kane	18 May 2016	Launched from ISS Kibo Module	92.5	51.6	402	400	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JL	Lemur 2 Jeff	18 May 2016	Launched from ISS Kibo Module	92.5	51.6	402	401	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JM	Flock 2E 6	30 May 2016	Launched from ISS Kibo Module	92.5	51.6	399	395	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JN	Flock 2E 5	30 May 2016	Launched from ISS Kibo Module	92.5	51.6	400	395	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

<i>International designation</i>	<i>Name of the space object</i>	<i>Date of the launch</i>	<i>Location of the launch</i>	<i>Basic orbital characteristics</i>				<i>General function of the space object</i>
				<i>Nodal period (min)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>	<i>Perigee (km)</i>	
1998-067JP	Flock 2E 7	31 May 2016	Launched from ISS Kibo Module	92.4	51.6	399	395	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JQ	Flock 2E 8	31 May 2016	Launched from ISS Kibo Module	92.5	51.6	399	395	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JR	Flock 2EP 5	31 May 2016	Launched from ISS Kibo Module	92.5	51.6	401	396	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 31 May 2016:								
None.								
The following objects achieved orbit since the last report but are no longer in orbit as at 2359Z on 31 May 2016:								
None.								
The following objects identified on a previous report are no longer in orbit as at 2359Z on 31 May 2016:								
2005-014A, 2013-064W, 1998-067GF, 1998-067HJ, 2016-024A, 1998-067GH								
The following objects were launched since the last report but did not achieve orbit:								
None.								
Revisions that should be made to previously reported data:								
None.								

## Annex II

### Registration data on space launches by the United States of America for June 2016\*

The following report supplements the registration data on United States space launches as at 30 June 2016. All launches were made from the territory of the United States unless otherwise specified.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects were launched since the last report and remain in orbit:								
2016-036A	USA 268	11 June 2016	–	628.6	26.2	35 636	224	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-036B	Delta 4 R/B	11 June 2016	–	628.6	26.2	35 636	224	Spent boosters, spent manoeuvring stage, shrouds and other non-functional objects
2016-038C	Falcon 9 R/B	15 June 2016	–	1 223.5	23.9	62 678	353	Spent boosters, spent manoeuvring stage, shrouds and other non-functional objects
2016-039B	Echostar 1B	18 June 2016	French Guiana	1 436.2	0	35 799	35 778	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040C	SkySat C1	22 June 2016	India	94.6	97.5	503	499	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040H	Flock 2P 6	22 June 2016	India	94.7	97.5	515	498	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040K	Flock 2P 11	22 June 2016	India	94.7	97.5	515	498	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040L	Flock 2P 2	22 June 2016	India	94.7	97.5	515	498	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040M	Flock 2P 9	22 June 2016	India	94.7	97.5	515	498	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040N	Flock 2P 4	22 June 2016	India	94.7	97.5	515	497	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040P	Flock 2P 10	22 June 2016	India	94.7	97.5	514	497	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040Q	Flock 2P 8	22 June 2016	India	94.7	97.5	515	497	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040R	Flock 2P 12	22 June 2016	India	94.7	97.5	514	497	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

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International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
2016-040S	Flock 2P 7	22 June 2016	India	94.7	97.5	514	497	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040T	Flock 2P 5	22 June 2016	India	94.7	97.5	514	497	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040U	Flock 2P 1	22 June 2016	India	94.7	97.5	514	497	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-040V	Flock 2P 3	22 June 2016	India	94.7	97.5	514	497	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-041A	MUOS 5	24 June 2016	–	954.5	9.76	35 693	15 778	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-041B	Atlas 5 Centaur R/B	24 June 2016	–	687.2	18.8	35 168	3 668	Spent boosters, spent manoeuvring stage, shrouds and other non-functional objects
The following objects not previously reported have been identified since the last report:								
2016-013A	SES 9	4 March 2016	–	1 436.08	0.05	35 794	35 779	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-019B	Lemur 2 Drmuzz	23 March 2016	–	92.29	51.64	389	384	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-019C	Lemur 2 Bridgeman	23 March 2016	–	92.2	51.64	358	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-019D	Lemur 2 Nate	23 March 2016	–	92.22	51.64	386	380	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-019E	Lemur 2 Cubecheese	23 March 2016	–	92.21	51.64	386	380	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JS	Flock 2EP 6	31 May 2016	Launched from ISS Kibo Module	92.4	51.6	398	391	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JT	Flock 2EP 8	31 May 2016	Launched from ISS Kibo Module	92.4	51.6	394	393	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JU	Flock 2EP 7	31 May 2016	Launched from ISS Kibo Module	92.4	51.6	394	393	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JV	Flock 2E 9	31 May 2016	Launched from ISS Kibo Module	92.4	51.6	397	389	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JW	Flock 2E 10	31 May 2016	Launched from ISS Kibo Module	92.4	51.6	397	390	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JX	Flock 2E 12	1 June 2016	Launched from ISS Kibo Module	92.4	51.6	397	390	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

<i>International designation</i>	<i>Name of the space object</i>	<i>Date of the launch</i>	<i>Location of the launch</i>	<i>Basic orbital characteristics</i>				<i>General function of the space object</i>
				<i>Nodal period (min)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>	<i>Perigee (km)</i>	
1998-067JY	Flock 2E 11	1 June 2016	Launched from ISS Kibo Module	92.4	51.6	396	389	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067JZ	Flock 2EP 9	1 June 2016	Launched from ISS Kibo Module	92.4	51.6	396	389	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067KA	Flock 2EP 10	1 June 2016	Launched from ISS Kibo Module	92.4	51.6	397	389	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067KB	Flock 2EP 11	2 June 2016	Launched from ISS Kibo Module	92.4	51.6	398	390	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067KC	Flock 2EP 12	2 June 2016	Launched from ISS Kibo Module	92.4	51.6	397	391	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 2016:								
None.								
The following objects achieved orbit since the last report but are no longer in orbit as at 2359Z on 30 June 2016:								
None.								
The following objects identified on a previous report are no longer in orbit as at 2359Z on 30 June 2016:								
1998-067GL, 1998-067GG, 1998-067GK, 2016-019A								
The following objects were launched since the last report but did not achieve orbit:								
None.								
Revisions that should be made to previously reported data:								
None.								

## Annex III

### Registration data on space launches by the United States of America for July 2016\*

The following report supplements the registration data on United States space launches as at 31 July 2016. All launches were made from the territory of the United States unless otherwise specified.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects were launched since the last report and remain in orbit:								
2016-046A	Dragon CRS-9	18 July 2016	–	92.61	51.64	404	401	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-047A	USA 269	28 July 2016	–	414.2	25.3	5 039	173	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:								
None.								
The following objects not previously reported have been identified since the last report but are no longer in orbit as at 2359Z on 31 July 2016:								
None.								
The following objects achieved orbit since the last report but are no longer in orbit as at 2359Z on 31 July 2016:								
None.								
The following objects identified on a previous report are no longer in orbit as at 2359Z on 31 July 2016:								
1998-067GJ, 1998-067GM, 1998-067GT								
The following objects were launched since the last report but did not achieve orbit:								
None.								
Revisions that should be made to previously reported data:								
None.								

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

## Annex IV

### Registration data on space launches by the United States of America for August 2016\*

The following report supplements the registration data on United States space launches as at 31 August 2016. All launches were made from the territory of the United States unless otherwise specified.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects were launched since the last report and remain in orbit:								
2016-050B	Falcon 9 R/B	14 August 2016	–	93.38	20.82	788	92	Spent boosters, spent manoeuvring stage, shrouds and other non-functional objects
2016-052A	USA 270	19 August 2016	–	637.3	25.9	36 106	201	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-052B	USA 271	19 August 2016	–	637.3	25.9	36 106	201	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2016-052C	Delta 4 R/B	19 August 2016	–	637.3	25.9	36 106	201	Spent boosters, spent manoeuvring stage, shrouds and other non-functional objects
The following objects not previously reported have been identified since the last report:								
None.								
The following objects not previously reported have been identified since the last report but are no longer in orbit as at 2359Z on 31 August 2016:								
None.								
The following objects achieved orbit since the last report but are no longer in orbit as at 2359Z on 31 August 2016:								
None.								
The following objects identified on a previous report are no longer in orbit as at 2359Z on 31 August 2016:								
1998-067GP, 1998-067GQ, 1998-067GR, 1998-067GS, 1998-067HG, 2016-046A, 2013-064D								
The following objects were launched since the last report but did not achieve orbit:								
None.								
Revisions that should be made to previously reported data:								
None.								

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