



**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 25 September 2017 from the Permanent  
Mission of India to the United Nations (Vienna) addressed to the  
Secretary-General**

The Permanent Mission of India 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 information concerning Indian space launches and objects relating to the ASTROSAT, CARTOSAT, IRNSS, GSAT and PSLV missions, launched from Satish Dhawan Space Centre, Sriharikota, India, and from Kourou, French Guiana (see annex).



## Annex

## Registration data on space objects launched by India\*

Number	Name of the space object	Appropriate designator of the space object	Date and territory or location of launch			Basic orbital characteristics				General function of the space object
			Launch vehicle	Launch date	Launch site	Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
Earth observation and experimental satellites										
1.	SCATSAT-1	2016-059H	PSLV-C35	26 September 2016	SDSC	728.5	724.8	98.102	99.3	Earth observation
2.	Pratham	2016-059A	PSLV-C35	26 September 2016	SDSC	672.5	666.3	98.211	98.1	University experimental satellite
3.	PISat	2016-059B	PSLV-C35	26 September 2016	SDSC	672.8	666.2	98.211	98.1	University experimental satellite
4.	Resourcesat-2A	2016-074A	PSLV-C36	7 December 2016	SDSC	827.4	821.4	98.725	101.4	Earth observation
5.	Cartosat-2 series	2017-008A	PSLV-C37	15 February 2017	SDSC	504.8	504.0	97.505	94.7	Earth observation
6.	INS-1A	2017-008B	PSLV-C37	15 February 2017	SDSC	504.8	502.9	97.505	94.7	Experimental nanosatellite
7.	INS-1B	2017-008G	PSLV-C37	15 February 2017	SDSC	504.0	503.1	97.507	94.7	Experimental nanosatellite
8.	Cartosat-2 series	2017-036C	PSLV-C38	23 June 2017	SDSC	515.3	504.4	97.444	94.8	Earth observation
9.	NIUSAT	2017-036B	PSLV-C38	23 June 2017	SDSC	511.5	503.1	97.450	94.8	Experimental nanosatellite
Geostationary communication satellites										
1.	GSAT-9	2017-024A	GSLV-F09	5 May 2017	SDSC	35 856.2	35 634	0.083	1 434.0	Communications satellite for South Asian countries
2.	GSAT-19	2017-031A	GSLV-MkIII-D1	5 June 2017	SDSC	35 838.7	35 759.5	0.075	1 436.7	Communications satellite

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

Number	Name of the space object	Appropriate designator of the space object	Date and territory or location of launch			Basic orbital characteristics				General function of the space object
			Launch vehicle	Launch date	Launch site	Apogee (km)	Perigee (km)	Inclination (degrees)	Period (minutes)	
3.	GSAT-18	2016-060A	Ariane-5 VA-231	6 October 2016	CSG	35 817	35 757	0.028	1 436	Communications satellite
4.	GSAT-17	2017-040B	Ariane-5 VA-238	29 June 2017	CSG	35 813	35 763	0.05	1 436	Communications satellite
<b>Upper stages of launch vehicles</b>										
1.	PSLV-C35 debris	2016-059K	PSLV-C35	26 September 2016	SDSC	669.0	667.4	98.211	98.1	Dual launch adaptor unit of PSLV-C35
2.	PSLV-C35 R/B	2016-059J	PSLV-C35	26 September 2016	SDSC	720.2	669.4	98.196	98.7	Upper stage of PSLV-C35
3.	PSLV-C36 R/B	2016-074B	PSLV-C36	7 December 2016	SDSC	822.2	789.1	98.817	100.1	Upper stage of PSLV-C36
4.	PSLV-C37 R/B	2017-008DJ	PSLV-C37	15 February 2017	SDSC	510.6	473.7	97.506	94.5	Upper stage of PSLV-C37
5.	PSLV-C38 R/B	2017-036AH	PSLV-C38	23 June 2017	SDSC	343.1	375.2	94.619	91.7	Upper stage of PSLV-C38
6.	GSLV-F09 R/B	2017-024B	GSLV-F09	5 May 2017	SDSC	35 921.9	171.3	20.637	633.1	Upper stage of GSLV-F09
7.	GSLV-MkIII-D1 R/B	2017-031B	GSLV-MkIII-D1	5 June 2017	SDSC	34 897.2	172.6	21.562	613.4	Upper stage of GSLV-MkIII-D1

*Note:* Space objects were launched from Satish Dhawan Space Centre (SDSC), Sriharikota, India, or from Kourou, French Guiana (CSG). The orbital characteristics are in osculating form.