



**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 19 January 2021 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 November 2020 (see annex).¹

The United States requests that the space objects contained in the annex to the present 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 annex were entered into the Register of Objects Launched into Outer Space on 22 January 2021.



Annex

Registration data on space launches by the United States of America for November 2020*

The following report supplements the registration data on United States space launches as at 30 November 2020.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object	Date of decay
				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		
The following objects were launched after the last report and remained in orbit as at 2359Z on 30 November 2020:									
2020-078A	Navstar 80 (USA 309)	5 November 2020	AFETR	718	54.96	20 185	20 181	C	-
2020-081D	Lemur 2 Ozarak	7 November 2020	SRI	96.07	36.9	577	564	C	-
2020-081E	Lemur 2 Jindra	7 November 2020	SRI	96.07	36.91	576	564	C	-
2020-081F	Lemur 2 Wallace	7 November 2020	SRI	96.06	36.91	576	564	C	-
2020-081G	Lemur 2 Jeremiah	7 November 2020	SRI	96.06	36.91	576	564	C	-
2020-083A	USA 310	13 November 2020	AFETR	219.8	58.2	10 925	455	C	-
2020-083B	Atlas 5 Centaur R/B	13 November 2020	AFETR	219.8	58.2	10 925	455	D	-
2020-084A	Dragon Resilience	16 November 2020	AFETR	92.95	51.64	420	418	E	-
2020-085AA	Spacebee-22	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-085AB	Dragracer 1 (Alchemy)	20 November 2020	RLLC	94.5	97.36	504	484	C	-
2020-085AC	Dragracer 2 (Augury)	20 November 2020	RLLC	94.74	97.37	515	497	C	-
2020-085AD	Spacebee-26	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-085AF	Spacebee-39	20 November 2020	RLLC	94.66	97.37	513	491	C	-
2020-085AH	Spacebee-23	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-085C	Corvus BC5	20 November 2020	RLLC	94.63	97.37	511	490	C	-
2020-085E	Spacebee-34	20 November 2020	RLLC	94.65	97.37	513	490	C	-
2020-085F	Spacebee-35	20 November 2020	RLLC	94.65	97.37	513	490	C	-
2020-085G	Spacebee-36	20 November 2020	RLLC	94.65	97.37	513	490	C	-
2020-085H	Spacebee-37	20 November 2020	RLLC	94.65	97.37	513	491	C	-
2020-085J	Spacebee-38	20 November 2020	RLLC	94.65	97.37	513	491	C	-
2020-085R	Spacebee-33	20 November 2020	RLLC	94.69	97.37	514	493	C	-

* 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>Date of decay</i>
				<i>Nodal period (minutes)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>	<i>Perigee (km)</i>		
2020-085S	Spacebee-32	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-085T	Spacebee-30	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-085U	Spacebee-31	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-085V	Spacebee-28	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-085W	Spacebee-29	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-085X	Spacebee-27	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-085Y	Spacebee-25	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-085Z	Spacebee-24	20 November 2020	RLLC	94.7	97.37	514	494	C	-
2020-088A	Starlink-1777	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088B	Starlink-1779	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088C	Starlink-1785	25 November 2020	AFETR	92.14	53.05	381	379	C	-
2020-088D	Starlink-1787	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088E	Starlink-1812	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088F	Starlink-1836	25 November 2020	AFETR	92.15	53.06	380	379	C	-
2020-088G	Starlink-1837	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088H	Starlink-1838	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088J	Starlink-1839	25 November 2020	AFETR	92.43	53.06	394	393	C	-
2020-088K	Starlink-1840	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088L	Starlink-1842	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088M	Starlink-1843	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088N	Starlink-1844	25 November 2020	AFETR	92.15	53.06	380	379	C	-
2020-088P	Starlink-1845	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088Q	Starlink-1846	25 November 2020	AFETR	92.15	53.06	381	379	C	-
2020-088R	Starlink-1849	25 November 2020	AFETR	92.15	53.06	380	379	C	-
2020-088S	Starlink-1850	25 November 2020	AFETR	92.14	53.05	380	379	C	-
2020-088T	Starlink-1852	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088U	Starlink-1853	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088V	Starlink-1854	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088W	Starlink-1855	25 November 2020	AFETR	92.39	53.05	392	391	C	-
2020-088X	Starlink-1856	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088Y	Starlink-1857	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088Z	Starlink-1858	25 November 2020	AFETR	92.14	53.05	380	379	C	-
2020-088AA	Starlink-1859	25 November 2020	AFETR	92.48	53.05	397	395	C	-
2020-088AB	Starlink-1860	25 November 2020	AFETR	92.14	53.05	380	379	C	-
2020-088AC	Starlink-1861	25 November 2020	AFETR	92.15	53.05	381	379	C	-

<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>Date of decay</i>
				<i>Nodal period (minutes)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>	<i>Perigee (km)</i>		
2020-088AD	Starlink-1862	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AE	Starlink-1863	25 November 2020	AFETR	92.15	53.06	381	379	C	-
2020-088AF	Starlink-1864	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AG	Starlink-1866	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AH	Starlink-1867	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AJ	Starlink-1868	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AK	Starlink-1869	25 November 2020	AFETR	92.44	53.06	395	393	C	-
2020-088AL	Starlink-1870	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AM	Starlink-1871	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AN	Starlink-1873	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AP	Starlink-1874	25 November 2020	AFETR	92.15	53.06	380	379	C	-
2020-088AQ	Starlink-1875	25 November 2020	AFETR	92.15	53.05	380	379	C	-
2020-088AR	Starlink-1876	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AS	Starlink-1877	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AT	Starlink-1878	25 November 2020	AFETR	92.36	53.05	391	389	C	-
2020-088AU	Starlink-1879	25 November 2020	AFETR	92.15	53.05	380	379	C	-
2020-088AV	Starlink-1880	25 November 2020	AFETR	92.15	53.06	381	379	C	-
2020-088AW	Starlink-1881	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AX	Starlink-1884	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AY	Starlink-1885	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088AZ	Starlink-1886	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088BA	Starlink-1887	25 November 2020	AFETR	92.15	53.05	380	379	C	-
2020-088BB	Starlink-1888	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088BC	Starlink-1889	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088BD	Starlink-1890	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088BE	Starlink-1891	25 November 2020	AFETR	92.15	53.05	381	379	C	-
2020-088BF	Starlink-1895	25 November 2020	AFETR	92.15	53.06	380	379	C	-
2020-088BG	Starlink-1900	25 November 2020	AFETR	92.14	53.05	380	379	C	-
2020-088BH	Starlink-1907	25 November 2020	AFETR	92.15	53.05	380	379	C	-
2020-088BJ	Starlink-1912	25 November 2020	AFETR	92.14	53.05	381	379	C	-
2020-088BK	Starlink-1913	25 November 2020	AFETR	92.41	53.05	394	392	C	-
2020-088BL	Starlink-1914	25 November 2020	AFETR	92.4	53.05	393	391	C	-
2020-088BM	Starlink-1927	25 November 2020	AFETR	92.15	53.05	381	379	C	-

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object	Date of decay
				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		
The following objects not previously reported were identified after the last report and remained in orbit as at 2359Z on 30 November 2020:									
1998-067RR	SPOC	3 October 2020; deployed 5 November 2020	Deployed from ISS	92.82	51.64	414	412	C	-
1998-067RS	Bobcat-1	3 October 2020; deployed 5 November 2020	Deployed from ISS	92.79	51.64	412	411	C	-
2019-022N	AC 10 Probe (Golf)	17 April 2019	Deployed from Cygnus	93.2	51.6	537	332	C	-
The following objects achieved orbit after the last report but were no longer in orbit as at 2359Z on 30 November 2020:									
2020-086B	Falcon 9 R/B	21 November 2020	AFWTR	112.02	66.07	1 329	1 310	D	22 November 2020
The following objects were launched after the last report but did not achieve orbit:									
None.									
The following objects identified in a previous report were no longer in orbit as at 2359Z on 30 November 2020:									
1963-014EZ	-	-	-	-	-	-	-	-	8 November 2020
1998-067NU	-	-	-	-	-	-	-	-	26 November 2020
2020-001AY	-	-	-	-	-	-	-	-	9 November 2020
2020-019AB	-	-	-	-	-	-	-	-	19 November 2020
2020-074M	-	-	-	-	-	-	-	-	6 November 2020
2020-074AR	-	-	-	-	-	-	-	-	6 November 2020
2020-074BS	-	-	-	-	-	-	-	-	16 November 2020
Revisions that should be made to previously reported data:									
None.									

Abbreviations and key

Location of the launch: AFETR, United States Air Force Eastern Test Range; AFWTR, United States Air Force Western Test Range; ISS, International Space Station; RLLC, Rocket Lab Launch Complex 1, Mahia Peninsula, New Zealand; SRI, Satish Dhawan Space Centre, India.

General function of the space object:

- A Spacecraft engaged in investigation of spaceflight techniques and technology
- B Spacecraft engaged in research and exploration of the upper atmosphere
- C Spacecraft engaged in practical applications and uses of space technology such as weather or communications
- D Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
- E Reusable space transportation systems