

**Secretariat**Distr.: General
18 May 2021

Original: English

**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 9 April 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 February 2021 (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 15 April 2021.



Annex

Registration data on space launches by the United States of America for February 2021*

The following report supplements the registration data on United States space launches as at 28 February 2021.

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 28 February 2021:									
2021-009A	Starlink-1782	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009B	Starlink-1806	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009C	Starlink-1909	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009D	Starlink-1938	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009E	Starlink-1940	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009F	Starlink-1951	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009G	Starlink-1953	4 February 2021	AFETR	92.42	53.05	394	392	C	-
2021-009H	Starlink-1954	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009J	Starlink-1955	4 February 2021	AFETR	92.37	53.05	392	390	C	-
2021-009K	Starlink-1956	4 February 2021	AFETR	92.14	53.05	381	379	C	-
2021-009L	Starlink-1957	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009M	Starlink-1958	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009N	Starlink-1959	4 February 2021	AFETR	92.17	53.05	382	380	C	-
2021-009P	Starlink-1960	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009Q	Starlink-1961	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009R	Starlink-1962	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009S	Starlink-1963	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009T	Starlink-1964	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009U	Starlink-1965	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009V	Starlink-1966	4 February 2021	AFETR	92.43	53.05	394	393	C	-
2021-009W	Starlink-1967	4 February 2021	AFETR	92.29	53.05	388	386	C	-
2021-009X	Starlink-1968	4 February 2021	AFETR	92.31	53.05	388	387	C	-
2021-009Y	Starlink-1969	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009Z	Starlink-1970	4 February 2021	AFETR	92.14	53.05	380	379	C	-

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

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)		
2021-009AA	Starlink-1971	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009AB	Starlink-1975	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009AC	Starlink-1976	4 February 2021	AFETR	92.44	53.05	395	393	C	-
2021-009AD	Starlink-1977	4 February 2021	AFETR	92.41	53.05	393	392	C	-
2021-009AE	Starlink-1978	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009AF	Starlink-1979	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009AG	Starlink-1980	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009AH	Starlink-1981	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009AJ	Starlink-1982	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009AK	Starlink-1984	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009AL	Starlink-1986	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009AM	Starlink-1987	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009AN	Starlink-1988	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009AP	Starlink-1989	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009AQ	Starlink-1990	4 February 2021	AFETR	92.27	53.05	387	385	C	-
2021-009AR	Starlink-1991	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009AS	Starlink-1993	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009AT	Starlink-1994	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009AU	Starlink-1995	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009AV	Starlink-1996	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009AW	Starlink-1997	4 February 2021	AFETR	92.38	53.05	392	390	C	-
2021-009AX	Starlink-1998	4 February 2021	AFETR	92.28	53.05	387	386	C	-
2021-009AY	Starlink-1999	4 February 2021	AFETR	92.39	53.05	393	391	C	-
2021-009AZ	Starlink-2000	4 February 2021	AFETR	92.35	53.05	390	389	C	-
2021-009BA	Starlink-2001	4 February 2021	AFETR	92.36	53.05	391	389	C	-
2021-009BB	Starlink-2002	4 February 2021	AFETR	92.34	53.05	390	388	C	-
2021-009BC	Starlink-2003	4 February 2021	AFETR	92.14	53.05	381	379	C	-
2021-009BD	Starlink-2004	4 February 2021	AFETR	92.14	53.05	381	379	C	-
2021-009BE	Starlink-2005	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009BF	Starlink-2006	4 February 2021	AFETR	92.14	53.05	381	379	C	-
2021-009BG	Starlink-2007	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-009BH	Starlink-2008	4 February 2021	AFETR	92.45	53.05	396	394	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)		
2021-009BJ	Starlink-2021	4 February 2021	AFETR	92.14	53.05	380	379	C	-
2021-009BK	Starlink-2023	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009BL	Starlink-2024	4 February 2021	AFETR	92.15	53.05	381	379	C	-
2021-009BM	Starlink-2025	4 February 2021	AFETR	92.15	53.05	380	379	C	-
2021-012A	Starlink-1528	16 February 2021	AFETR	91.53	53.05	350	349	C	-
2021-012B	Starlink-1609	16 February 2021	AFETR	91.53	53.05	350	349	C	-
2021-012C	Starlink-1645	16 February 2021	AFETR	91.52	53.05	350	348	C	-
2021-012D	Starlink-1655	16 February 2021	AFETR	90.76	53.05	317	307	C	-
2021-012E	Starlink-1669	16 February 2021	AFETR	90.78	53.05	313	312	C	-
2021-012F	Starlink-1704	16 February 2021	AFETR	91.52	53.05	350	349	C	-
2021-012G	Starlink-1761	16 February 2021	AFETR	91.52	53.05	350	348	C	-
2021-012H	Starlink-1972	16 February 2021	AFETR	90.75	53.05	316	306	C	-
2021-012J	Starlink-1973	16 February 2021	AFETR	91.51	53.05	350	348	C	-
2021-012K	Starlink-1974	16 February 2021	AFETR	90.74	53.05	313	309	C	-
2021-012L	Starlink-1983	16 February 2021	AFETR	90.77	53.05	313	311	C	-
2021-012M	Starlink-1985	16 February 2021	AFETR	90.76	53.05	313	311	C	-
2021-012N	Starlink-1992	16 February 2021	AFETR	90.75	53.05	311	311	C	-
2021-012P	Starlink-2009	16 February 2021	AFETR	91.52	53.05	350	348	C	-
2021-012Q	Starlink-2010	16 February 2021	AFETR	91.53	53.05	351	349	C	-
2021-012R	Starlink-2012	16 February 2021	AFETR	90.76	53.05	313	310	C	-
2021-012S	Starlink-2013	16 February 2021	AFETR	90.77	53.05	313	311	C	-
2021-012T	Starlink-2014	16 February 2021	AFETR	90.77	53.05	313	311	C	-
2021-012U	Starlink-2015	16 February 2021	AFETR	90.75	53.05	317	306	C	-
2021-012V	Starlink-2016	16 February 2021	AFETR	90.78	53.05	314	312	C	-
2021-012W	Starlink-2018	16 February 2021	AFETR	91.53	53.05	351	349	C	-
2021-012X	Starlink-2019	16 February 2021	AFETR	90.74	53.05	312	310	C	-
2021-012Y	Starlink-2020	16 February 2021	AFETR	91.51	53.05	350	348	C	-
2021-012Z	Starlink-2022	16 February 2021	AFETR	90.76	53.05	313	311	C	-
2021-012AA	Starlink-2026	16 February 2021	AFETR	91.52	53.05	350	348	C	-
2021-012AB	Starlink-2027	16 February 2021	AFETR	90.77	53.05	313	311	C	-
2021-012AC	Starlink-2028	16 February 2021	AFETR	90.76	53.05	313	311	C	-
2021-012AD	Starlink-2030	16 February 2021	AFETR	91.52	53.05	350	348	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)		
2021-012AE	Starlink-2031	16 February 2021	AFETR	90.77	53.05	318	307	C	-
2021-012AF	Starlink-2032	16 February 2021	AFETR	90.77	53.05	313	311	C	-
2021-012AG	Starlink-2033	16 February 2021	AFETR	90.76	53.05	313	311	C	-
2021-012AH	Starlink-2035	16 February 2021	AFETR	91.52	53.05	350	348	C	-
2021-012AJ	Starlink-2036	16 February 2021	AFETR	91.52	53.05	350	348	C	-
2021-012AK	Starlink-2037	16 February 2021	AFETR	90.78	53.05	314	312	C	-
2021-012AL	Starlink-2038	16 February 2021	AFETR	91.52	53.05	350	348	C	-
2021-012AM	Starlink-2039	16 February 2021	AFETR	91.51	53.05	350	348	C	-
2021-012AN	Starlink-2040	16 February 2021	AFETR	90.76	53.05	313	311	C	-
2021-012AP	Starlink-2041	16 February 2021	AFETR	91.52	53.05	350	348	C	-
2021-012AQ	Starlink-2042	16 February 2021	AFETR	91.52	53.05	350	348	C	-
2021-012AR	Starlink-2043	16 February 2021	AFETR	90.76	53.05	317	306	C	-
2021-012AS	Starlink-2044	16 February 2021	AFETR	90.77	53.05	313	311	C	-
2021-012AT	Starlink-2051	16 February 2021	AFETR	90.77	53.05	313	312	C	-
2021-012AU	Starlink-2052	16 February 2021	AFETR	90.77	53.05	317	308	C	-
2021-012AV	Starlink-2053	16 February 2021	AFETR	90.75	53.05	312	311	C	-
2021-012AW	Starlink-2054	16 February 2021	AFETR	90.77	53.05	313	311	C	-
2021-012AX	Starlink-2056	16 February 2021	AFETR	90.76	53.05	313	311	C	-
2021-012AY	Starlink-2057	16 February 2021	AFETR	90.76	53.05	316	308	C	-
2021-012AZ	Starlink-2058	16 February 2021	AFETR	91.53	53.05	351	349	C	-
2021-012BA	Starlink-2059	16 February 2021	AFETR	90.77	53.05	313	311	C	-
2021-012BB	Starlink-2060	16 February 2021	AFETR	90.75	53.05	312	310	C	-
2021-012BC	Starlink-2062	16 February 2021	AFETR	90.77	53.05	313	312	C	-
2021-012BD	Starlink-2064	16 February 2021	AFETR	90.77	53.05	313	311	C	-
2021-012BE	Starlink-2065	16 February 2021	AFETR	90.76	53.05	313	311	C	-
2021-012BF	Starlink-2066	16 February 2021	AFETR	90.77	53.05	314	311	C	-
2021-012BG	Starlink-2067	16 February 2021	AFETR	90.78	53.05	314	312	C	-
2021-012BH	Starlink-2078	16 February 2021	AFETR	90.78	53.05	314	312	C	-
2021-012BJ	Starlink-2083	16 February 2021	AFETR	90.76	53.05	312	311	C	-
2021-012BK	Starlink-2090	16 February 2021	AFETR	91.53	53.05	351	349	C	-
2021-012BL	Starlink-2091	16 February 2021	AFETR	90.77	53.05	313	311	C	-
2021-012BM	Starlink-2095	16 February 2021	AFETR	91.53	53.05	350	349	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)		
2021-013A	Cygnus NG-15	20 February 2021	WLPIS	92.96	51.65	422	417	C	-
2021-013B	Antares R/B	20 February 2021	WLPIS	88.13	51.63	206	158	D	-
2021-015E	SpaceBEE-87	28 February 2021	SRI	94.6	97.4	509	496	C	-
2021-015F	SpaceBEE-86	28 February 2021	SRI	94.6	97.4	509	496	C	-
2021-015G	SpaceBEE-85	28 February 2021	SRI	94.6	97.4	509	496	C	-
2021-015H	SpaceBEE-84	28 February 2021	SRI	94.6	97.4	509	496	C	-
2021-015J	SpaceBEE-83	28 February 2021	SRI	94.6	97.4	509	496	C	-
2021-015K	SpaceBEE-82	28 February 2021	SRI	94.6	97.4	509	496	C	-
2021-015L	SpaceBEE-81	28 February 2021	SRI	94.6	97.4	509	496	C	-
2021-015M	SpaceBEE-80	28 February 2021	SRI	94.6	97.4	509	496	C	-
2021-015N	SpaceBEE-76	28 February 2021	SRI	94.6	97.4	509	496	C	-
2021-015R	SpaceBEE-77	28 February 2021	SRI	94.6	97.4	509	496	C	-
2021-015S	SpaceBEE-78	28 February 2021	SRI	94.6	97.4	509	496	C	-

The following objects not previously reported were identified after the last report and remained in orbit as at 2359Z on 28 February 2021:

2021-006BX	NASA PTD-1	24 January 2021	AFETR	95.2	97.5	537	521	C	-
2021-006BY	ARCE-1A	24 January 2021	AFETR	95.2	97.5	536	523	C	-
2021-006BZ	ARCE-1C	24 January 2021	AFETR	95.2	97.5	536	523	C	-
2021-006CJ	Lemur 2 Mangol	24 January 2021	AFETR	95.2	97.5	537	520	C	-
2021-006DP	Flock 4S 10	24 January 2021	AFETR	95.2	97.5	538	524	C	-
2021-006DU	Flock 4S 14	24 January 2021	AFETR	95.2	97.5	538	524	C	-
2021-006EG	ARCE-1B	24 January 2021	AFETR	95.2	97.5	537	521	C	-
2021-006EH	P2-10	24 January 2021	AFETR	95.2	97.5	537	521	C	-
2021-006EJ	Flock 4S 48	24 January 2021	AFETR	95.1	97.5	537	518	C	-
2021-006EK	Flock 4S 46	24 January 2021	AFETR	95.1	97.5	534	521	C	-
2021-006EL	Flock 4S 47	24 January 2021	AFETR	95.2	97.5	538	526	C	-
2021-006EM	Flock 4S 44	24 January 2021	AFETR	95.2	97.5	538	519	C	-
2021-006EN	Flock 4S 43	24 January 2021	AFETR	95.2	97.5	537	525	C	-
2021-006EP	Flock 4S 45	24 January 2021	AFETR	95.2	97.5	541	523	C	-
2021-006EQ	Flock 4S 42	24 January 2021	AFETR	95.2	97.5	538	520	C	-
2021-006ER	Flock 4S 41	24 January 2021	AFETR	95.2	97.5	539	522	C	-

The following objects achieved orbit after the last report but were no longer in orbit as at 2359Z on 28 February 2021:

None.

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 but did not achieve orbit:									
None.									
The following objects identified in a previous report were no longer in orbit as at 2359Z on 28 February 2021:									
2019-022N	-	-	-	-	-	-	-	-	13 February 2021
2019-036W	-	-	-	-	-	-	-	-	22 February 2021
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; SRI, Sriharikota, India; WLPIS, Wallops Island, United States.

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