



**Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space****Note verbale dated 18 January 2023 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 2022 (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 the space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 24 January 2023.



Annex

Registration data on space launches by the United States of America for November 2022*

The following report supplements the registration data on United States space launches as at 30 November 2022.

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 2022:									
2022-144A	LDPE-2	1 November 2022	AFETR	647.46	26.3	36 642	185	C	-
2022-144B	USA 339	1 November 2022	AFETR	647.46	26.3	36 642	185	C	-
2022-144C	Falcon Heavy R/B	1 November 2022	AFETR	647.46	26.3	36 642	185	D	-
2022-146B	Falcon 9 R/B	3 November 2022	AFETR	1 100.2	27.25	57 465	384	D	-
2022-149A	Cygnus NG-18	7 November 2022	WLPIS	92.91	51.64	420	414	C	-
2022-150A	JPSS 2 (NOAA 21)	10 November 2022	AFWTR	101.28	98.7	829	810	C	-
2022-153A	Galaxy 31	12 November 2022	AFETR	1 436.09	0.06	35 796	35 776	C	-
2022-153B	Galaxy 32	12 November 2022	AFETR	1 436.09	0.01	35 797	35 776	C	-
2022-153C	Falcon 9 R/B	12 November 2022	AFETR	1 109.18	24.66	58 047	186	D	-
2022-156A	Orion	16 November 2022	AFETR	Heliocentric orbit				E	-
2022-156B	SLS R/B	16 November 2022	AFETR	Heliocentric orbit				D	-
2022-157B	Falcon 9 R/B	23 November 2022	AFETR	1 151.97	22.55	59 813	234	D	-
2022-159A	Dragon CRS-26	26 November 2022	AFETR	92.91	51.64	420	414	E	-
The following objects not previously reported were identified after the last report and remained in orbit as at 2359Z on 30 November 2022:									
None.									
The following objects achieved orbit after the last report but were no longer in orbit as at 2359Z on 30 November 2022:									
2022-149B	Antares R/B	7 November 2022	WLPIS	87.57	51.65	175	134	D	9 November 2022
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 2022:									
1970-025ER	-	-	-	-	-	-	-	-	1 November 2022
2018-096AE	-	-	-	-	-	-	-	-	1 November 2022

* 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)		
2018-096B	-	-	-	-	-	-	-	-	1 November 2022
2020-085X	-	-	-	-	-	-	-	-	5 November 2022
2017-008V	-	-	-	-	-	-	-	-	8 November 2022
2018-096E	-	-	-	-	-	-	-	-	8 November 2022
2018-096Y	-	-	-	-	-	-	-	-	8 November 2022
2007-006F	-	-	-	-	-	-	-	-	12 November 2022
2022-111U	-	-	-	-	-	-	-	-	14 November 2022
2022-076AU	-	-	-	-	-	-	-	-	15 November 2022
2022-111R	-	-	-	-	-	-	-	-	15 November 2022
1998-067RM	-	-	-	-	-	-	-	-	16 November 2022
1998-067RN	-	-	-	-	-	-	-	-	16 November 2022
2016-040U	-	-	-	-	-	-	-	-	16 November 2022
2017-008Q	-	-	-	-	-	-	-	-	16 November 2022
2020-085AD	-	-	-	-	-	-	-	-	16 November 2022
2020-085Z	-	-	-	-	-	-	-	-	16 November 2022
2022-111N	-	-	-	-	-	-	-	-	16 November 2022
1998-067TE	-	-	-	-	-	-	-	-	18 November 2022
2020-085H	-	-	-	-	-	-	-	-	18 November 2022
2020-085J	-	-	-	-	-	-	-	-	18 November 2022
2018-096Z	-	-	-	-	-	-	-	-	19 November 2022
2020-085V	-	-	-	-	-	-	-	-	21 November 2022
1991-082AL	-	-	-	-	-	-	-	-	22 November 2022
2020-085S	-	-	-	-	-	-	-	-	24 November 2022
2021-015N	-	-	-	-	-	-	-	-	24 November 2022
2022-104M	-	-	-	-	-	-	-	-	26 November 2022
2020-074G	-	-	-	-	-	-	-	-	27 November 2022
2020-038AH	-	-	-	-	-	-	-	-	28 November 2022
1961-015FR	-	-	-	-	-	-	-	-	29 November 2022
1970-025EF	-	-	-	-	-	-	-	-	29 November 2022
1994-089B	-	-	-	-	-	-	-	-	29 November 2022
2016-040S	-	-	-	-	-	-	-	-	29 November 2022
2017-008AK	-	-	-	-	-	-	-	-	29 November 2022

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)		
2017-008K	-	-	-	-	-	-	-	-	29 November 2022
2018-096G	-	-	-	-	-	-	-	-	29 November 2022
2018-096J	-	-	-	-	-	-	-	-	29 November 2022
2018-104M	-	-	-	-	-	-	-	-	29 November 2022
2020-085AF	-	-	-	-	-	-	-	-	29 November 2022
2020-085W	-	-	-	-	-	-	-	-	29 November 2022
2021-015Q	-	-	-	-	-	-	-	-	29 November 2022
The following objects were not previously reported and were no longer in orbit as at 2359Z on 30 November 2022:									
2019-036AC	Lightsail	25 June 2019	-	-	-	-	-	-	19 November 2022
2013-072E	Aerocube 5B	6 December 2013	-	-	-	-	-	-	23 November 2022
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; and 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