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Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space

Note verbale dated 21 May 2024 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 2024 (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 12 June 2024.

Annex

Registration data on space launches by the United States of America for February 2024*

The following report supplements the registration data on United States space launches as at 29 February 2024.

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 29 February 2024:									
2024-025A	PACE	8 February 2024	AFETR	98.27	98.09	677	675	C	-
2024-027A	Starlink-31317	10 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-027B	Starlink-31378	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027C	Starlink-31350	10 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-027D	Starlink-31337	10 February 2024	AFWTR	94.24	53.16	482	481	C	-
2024-027E	Starlink-31362	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027F	Starlink-31383	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027G	Starlink-31390	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027H	Starlink-31377	10 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-027J	Starlink-31372	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027K	Starlink-31371	10 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-027L	Starlink-31345	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027M	Starlink-31354	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027N	Starlink-31346	10 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-027P	Starlink-31336	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027Q	Starlink-31359	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027R	Starlink-31331	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027S	Starlink-31116	10 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-027T	Starlink-31311	10 February 2024	AFWTR	94.23	53.16	483	480	C	-
2024-027U	Starlink-31294	10 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-027V	Starlink-31287	10 February 2024	AFWTR	87.52	53.15	153	150	C	-
2024-027W	Starlink-31330	10 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-027X	Starlink-31293	10 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-028A	HBTSS-SV2	14 February 2024	AFETR	105.09	39.99	1006	992	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)*		
2024-028B	Raptor4	14 February 2024	AFETR	105.09	39.99	1005	992	C	-
2024-028C	Raptor1	14 February 2024	AFETR	105.08	39.99	1005	992	C	-
2024-028D	Raptor3	14 February 2024	AFETR	105.08	39.99	1005	991	C	-
2024-028E	Raptor2	14 February 2024	AFETR	105.08	39.99	1005	991	C	-
2024-028F	HBTSS-SV1	14 February 2024	AFETR	105.07	39.99	1005	990	C	-
2024-030A	IM-1 (Odysseus)	15 February 2024	AFETR	17 559.89	28.51	434 594	230	C	-
2024-030B	Falcon 9 R/B	15 February 2024	AFETR	17 559.89	28.51	434 594	230	D	-
2024-031A	Starlink-31373	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031B	Starlink-31449	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031C	Starlink-31314	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031D	Starlink-31356	15 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-031E	Starlink-31335	15 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-031F	Starlink-31368	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031G	Starlink-31333	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031H	Starlink-31351	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031J	Starlink-31365	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031K	Starlink-31361	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031L	Starlink-31369	15 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-031M	Starlink-31324	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031N	Starlink-31358	15 February 2024	AFWTR	94.24	53.16	482	481	C	-
2024-031P	Starlink-31355	15 February 2024	AFWTR	94.24	53.16	482	481	C	-
2024-031Q	Starlink-31380	15 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-031R	Starlink-31353	15 February 2024	AFWTR	94.54	53.16	516	477	C	-
2024-031S	Starlink-31339	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031T	Starlink-31360	15 February 2024	AFWTR	94.25	53.16	483	481	C	-
2024-031U	Starlink-31384	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031V	Starlink-31379	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-031W	Starlink-31385	15 February 2024	AFWTR	94.23	53.16	482	481	C	-
2024-031X	Starlink-31229	15 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-035B	Falcon 9 R/B	20 February 2024	AFETR	1039.42	20.5	54913	311	D	-
2024-036A	Starlink-31468	23 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-036B	Starlink-31440	23 February 2024	AFWTR	94.24	53.16	483	481	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)*		
2024-036C	Starlink-31529	23 February 2024	AFWTR	94.23	53.16	482	480	C	-
2024-036D	Starlink-31525	23 February 2024	AFWTR	94.22	53.16	481	480	C	-
2024-036E	Starlink-31431	23 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-036F	Starlink-31429	23 February 2024	AFWTR	94.24	53.16	483	480	C	-
2024-036G	Starlink-31435	23 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-036H	Starlink-31484	23 February 2024	AFWTR	94.24	53.16	482	481	C	-
2024-036J	Starlink-31450	23 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-036K	Starlink-31456	23 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-036L	Starlink-31460	23 February 2024	AFWTR	94.11	53.16	476	474	C	-
2024-036M	Starlink-31488	23 February 2024	AFWTR	94.24	53.16	482	481	C	-
2024-036N	Starlink-31528	23 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-036P	Starlink-31491	23 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-036Q	Starlink-31465	23 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-036R	Starlink-31389	23 February 2024	AFWTR	94.23	53.16	483	480	C	-
2024-036S	Starlink-31454	23 February 2024	AFWTR	94.24	53.16	483	481	C	-
2024-036T	Starlink-31521	23 February 2024	AFWTR	94.23	53.16	482	481	C	-
2024-036U	Starlink-31526	23 February 2024	AFWTR	92.73	53.16	409	408	C	-
2024-036V	Starlink-31406	23 February 2024	AFWTR	93.35	53.16	441	437	C	-
2024-036W	Starlink-31527	23 February 2024	AFWTR	93.7	53.16	456	455	C	-
2024-036X	Starlink-31436	23 February 2024	AFWTR	93.34	53.16	439	437	C	-
2024-038A	Starlink-30996	25 February 2024	AFETR	93.93	43	468	466	C	-
2024-038B	Starlink-31006	25 February 2024	AFETR	92.91	43	418	416	C	-
2024-038C	Starlink-31178	25 February 2024	AFETR	93.9	43	466	464	C	-
2024-038D	Starlink-31227	25 February 2024	AFETR	93.87	43	465	462	C	-
2024-038E	Starlink-30863	25 February 2024	AFETR	93.84	43	463	461	C	-
2024-038F	Starlink-31206	25 February 2024	AFETR	90.46	43	298	296	C	-
2024-038G	Starlink-31224	25 February 2024	AFETR	93.8	43	461	459	C	-
2024-038H	Starlink-31186	25 February 2024	AFETR	93.76	43	460	457	C	-
2024-038J	Starlink-31211	25 February 2024	AFETR	93.73	43	458	456	C	-
2024-038K	Starlink-30862	25 February 2024	AFETR	93.4	43	442	440	C	-
2024-038L	Starlink-31210	25 February 2024	AFETR	92.99	43	423	419	C	-
2024-038M	Starlink-31231	25 February 2024	AFETR	92.97	43	421	419	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)*		
2024-038N	Starlink-31207	25 February 2024	AFETR	92.97	43	421	419	C	-
2024-038P	Starlink-31217	25 February 2024	AFETR	92.97	43	421	418	C	-
2024-038Q	Starlink-31208	25 February 2024	AFETR	93.4	43	442	440	C	-
2024-038R	Starlink-31235	25 February 2024	AFETR	92.97	43	421	419	C	-
2024-038S	Starlink-31220	25 February 2024	AFETR	93.52	43	447	446	C	-
2024-038T	Starlink-31225	25 February 2024	AFETR	92.43	43	395	393	C	-
2024-038U	Starlink-31240	25 February 2024	AFETR	93.41	43	442	440	C	-
2024-038V	Starlink-31202	25 February 2024	AFETR	92.54	43	400	398	C	-
2024-038W	Starlink-31234	25 February 2024	AFETR	93.3	43	437	435	C	-
2024-038X	Starlink-31153	25 February 2024	AFETR	92.97	43	421	419	C	-
2024-038Y	Starlink-31241	25 February 2024	AFETR	93.26	43	435	433	C	-
2024-038Z	Starlink-31205	25 February 2024	AFETR	93.23	43	433	432	C	-
2024-041A	Starlink-31265	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041B	Starlink-31276	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041C	Starlink-31259	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041D	Starlink-31281	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041E	Starlink-31274	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041F	Starlink-31257	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041G	Starlink-31299	29 February 2024	AFETR	91.54	43	351	350	C	-
2024-041H	Starlink-31292	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041J	Starlink-31286	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041K	Starlink-31252	29 February 2024	AFETR	91.46	43	348	345	C	-
2024-041L	Starlink-31261	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041M	Starlink-31290	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041N	Starlink-31279	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041P	Starlink-31266	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041Q	Starlink-31313	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041R	Starlink-31307	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041S	Starlink-31316	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041T	Starlink-31352	29 February 2024	AFETR	90.51	43	302	297	C	-
2024-041U	Starlink-31310	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041V	Starlink-31343	29 February 2024	AFETR	92.58	43	402	400	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)*		
2024-041W	Starlink-31302	29 February 2024	AFETR	90.82	43	317	312	C	-
2024-041X	Starlink-31295	29 February 2024	AFETR	92.58	43	402	400	C	-
2024-041Y	Starlink-31291	29 February 2024	AFETR	92.58	43	402	400	C	-

The following objects not previously reported were identified after the last report and remained in orbit as at 2359Z on 29 February 2024:

None.

The following objects achieved orbit after the last report but were no longer in orbit as at 2359Z on 29 February 2024:

None.

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 29 February 2024:

2020-001BC	-	-	-	-	-	-	-	-	3 February 2024
2021-006BX	-	-	-	-	-	-	-	-	3 February 2024
2018-004AC	-	-	-	-	-	-	-	-	7 February 2024
2019-038AB	-	-	-	-	-	-	-	-	7 February 2024
2024-014A	-	-	-	-	-	-	-	-	9 February 2024
2018-104N	-	-	-	-	-	-	-	-	10 February 2024
2019-038S	-	-	-	-	-	-	-	-	10 February 2024
2023-202A	-	-	-	-	-	-	-	-	10 February 2024
2017-050G	-	-	-	-	-	-	-	-	12 February 2024
2020-061BB	-	-	-	-	-	-	-	-	14 February 2024
2020-006BL	-	-	-	-	-	-	-	-	15 February 2024
2019-038Z	-	-	-	-	-	-	-	-	16 February 2024
2021-059AB	-	-	-	-	-	-	-	-	17 February 2024
2021-125G	-	-	-	-	-	-	-	-	18 February 2024
2018-104D	-	-	-	-	-	-	-	-	21 February 2024
2019-038L	-	-	-	-	-	-	-	-	21 February 2024
2020-077B	-	-	-	-	-	-	-	-	21 February 2024
2021-002A	-	-	-	-	-	-	-	-	21 February 2024
2021-006CK	-	-	-	-	-	-	-	-	21 February 2024
2022-026G									21 February 2024
2022-026P	-	-	-	-	-	-	-	-	21 February 2024
2023-084AD	-	-	-	-	-	-	-	-	21 February 2024

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)*		
2015-003D	-	-	-	-	-	-	-	-	24 February 2024
2019-081Q	-	-	-	-	-	-	-	-	24 February 2024
2020-061M	-	-	-	-	-	-	-	-	24 February 2024
2021-006DG	-	-	-	-	-	-	-	-	24 February 2024
2021-006DM	-	-	-	-	-	-	-	-	24 February 2024
2022-026E	-	-	-	-	-	-	-	-	24 February 2024
2020-057BQ	-	-	-	-	-	-	-	-	26 February 2024
2018-096M	-	-	-	-	-	-	-	-	27 February 2024
2018-099BM	-	-	-	-	-	-	-	-	27 February 2024
2022-026C	-	-	-	-	-	-	-	-	27 February 2024
2022-026D	-	-	-	-	-	-	-	-	27 February 2024
2022-026F	-	-	-	-	-	-	-	-	27 February 2024
2018-004V	-	-	-	-	-	-	-	-	28 February 2024
2020-061BD	-	-	-	-	-	-	-	-	28 February 2024
2021-013G	-	-	-	-	-	-	-	-	28 February 2024

The following objects were not previously reported and were no longer in orbit as at 2359Z on 29 February 2024:

1998-067VU	Moonlighter	5 June 2024	2 October 2024

The following objects were deployed on a non-Earth celestial body:

None.

Additional information:

None.

Abbreviations and key

Location of the launch: AFETR, United States Air Force Eastern Test Range; and AFWTR, United States Air Force Western Test Range.

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 or outer space

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