



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

Note verbale dated 7 November 2022 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 July 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 space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 11 November 2022.



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

The following report supplements the registration data on United States space launches as at 31 July 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 31 July 2022:									
2022-073A	USA 332	1 July 2022	AFETR	1 461.91	0.07	36 343	36 238	A	-
2022-073B	USA 333	1 July 2022	AFETR	639.77	26.19	36 168	209	C	-
2022-073C	Atlas 5 Centaur R/B	1 July 2022	AFETR	639.77	26.19	36 168	209	D	-
2022-074A	Recurve	2 July 2022	WRAS	94.5	45	496	493	A	-
2022-074B	NACHOS-2	2 July 2022	WRAS	94.5	45	495	493	A	-
2022-074D	Slingshot1	2 July 2022	WRAS	94.46	44.99	494	491	A	-
2022-074F	MISR-B 1	2 July 2022	WRAS	94.47	45	494	491	A	-
2022-074G	CTIM	2 July 2022	WRAS	94.47	45.02	494	492	A	-
2022-076A	Starlink-4260	7 July 2022	AFETR	92.23	53.22	385	383	C	-
2022-076B	Starlink-4259	7 July 2022	AFETR	94.85	53.22	513	510	C	-
2022-076C	Starlink-4291	7 July 2022	AFETR	92.23	53.22	385	383	C	-
2022-076D	Starlink-4293	7 July 2022	AFETR	94.83	53.22	511	509	C	-
2022-076E	Starlink-4286	7 July 2022	AFETR	94.81	53.22	510	508	C	-
2022-076F	Starlink-4285	7 July 2022	AFETR	94.79	53.22	510	507	C	-
2022-076G	Starlink-4269	7 July 2022	AFETR	94.77	53.22	509	506	C	-
2022-076H	Starlink-4264	7 July 2022	AFETR	92.23	53.22	385	383	C	-
2022-076J	Starlink-4256	7 July 2022	AFETR	92.23	53.22	385	383	C	-
2022-076K	Starlink-4296	7 July 2022	AFETR	92.23	53.22	385	383	C	-
2022-076L	Starlink-4295	7 July 2022	AFETR	92.23	53.22	385	383	C	-
2022-076M	Starlink-4301	7 July 2022	AFETR	92.23	53.22	385	383	C	-
2022-076N	Starlink-4254	7 July 2022	AFETR	92.23	53.22	385	383	C	-
2022-076P	Starlink-4217	7 July 2022	AFETR	92.23	53.22	384	383	C	-
2022-076Q	Starlink-4194	7 July 2022	AFETR	92.23	53.22	385	383	C	-
2022-076R	Starlink-4190	7 July 2022	AFETR	92.23	53.22	384	383	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)		
2022-076S	Starlink-4121	7 July 2022	AFETR	92.23	53.22	385	383	C	-
2022-076T	Starlink-4255	7 July 2022	AFETR	92.23	53.22	384	383	C	-
2022-076U	Starlink-4253	7 July 2022	AFETR	92.23	53.22	384	383	C	-
2022-076V	Starlink-4288	7 July 2022	AFETR	92.22	53.22	384	383	C	-
2022-076W	Starlink-4290	7 July 2022	AFETR	92.23	53.22	384	383	C	-
2022-076X	Starlink-4215	7 July 2022	AFETR	92.22	53.22	384	383	C	-
2022-076Y	Starlink-4275	7 July 2022	AFETR	92.22	53.22	384	383	C	-
2022-076Z	Starlink-4277	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AA	Starlink-4263	7 July 2022	AFETR	92.22	53.22	384	383	C	-
2022-076AB	Starlink-4265	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AC	Starlink-4271	7 July 2022	AFETR	92.22	53.22	384	383	C	-
2022-076AD	Starlink-4177	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AE	Starlink-4183	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AF	Starlink-4262	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AG	Starlink-4283	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AH	Starlink-4281	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AJ	Starlink-4279	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AK	Starlink-4282	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AL	Starlink-4287	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AM	Starlink-4203	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AN	Starlink-4216	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AP	Starlink-4284	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AQ	Starlink-4289	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AR	Starlink-4218	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AS	Starlink-4119	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AT	Starlink-4158	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AU	Starlink-4161	7 July 2022	AFETR	91.49	53.22	349	346	C	-
2022-076AV	Starlink-4143	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AW	Starlink-4160	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AX	Starlink-4137	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AY	Starlink-4115	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076AZ	Starlink-4167	7 July 2022	AFETR	91.53	53.22	351	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)		
2022-076BA	Starlink-4151	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076BB	Starlink-4157	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076BC	Starlink-4155	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076BD	Starlink-4153	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-076BE	Starlink-4156	7 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-077A	Starlink-4362	11 July 2022	AFWTR	94.57	97.66	499	496	C	-
2022-077B	Starlink-4349	11 July 2022	AFWTR	94.47	97.66	494	492	C	-
2022-077C	Starlink-4350	11 July 2022	AFWTR	94.47	97.66	494	492	C	-
2022-077D	Starlink-4331	11 July 2022	AFWTR	94.47	97.66	494	492	C	-
2022-077E	Starlink-4352	11 July 2022	AFWTR	94.46	97.66	494	491	C	-
2022-077F	Starlink-4355	11 July 2022	AFWTR	94.77	97.66	509	506	C	-
2022-077G	Starlink-4345	11 July 2022	AFWTR	94.75	97.66	508	505	C	-
2022-077H	Starlink-4343	11 July 2022	AFWTR	94.76	97.66	508	506	C	-
2022-077J	Starlink-4336	11 July 2022	AFWTR	94.73	97.66	507	504	C	-
2022-077K	Starlink-4341	11 July 2022	AFWTR	94.75	97.66	508	505	C	-
2022-077L	Starlink-4337	11 July 2022	AFWTR	94.73	97.66	507	504	C	-
2022-077M	Starlink-4339	11 July 2022	AFWTR	94.74	97.66	507	505	C	-
2022-077N	Starlink-4338	11 July 2022	AFWTR	94.72	97.66	506	504	C	-
2022-077P	Starlink-4314	11 July 2022	AFWTR	94.73	97.66	507	504	C	-
2022-077Q	Starlink-4252	11 July 2022	AFWTR	94.71	97.66	506	503	C	-
2022-077R	Starlink-4317	11 July 2022	AFWTR	94.72	97.66	506	504	C	-
2022-077S	Starlink-4320	11 July 2022	AFWTR	94.69	97.66	505	502	C	-
2022-077T	Starlink-4305	11 July 2022	AFWTR	94.72	97.66	506	504	C	-
2022-077U	Starlink-4308	11 July 2022	AFWTR	94.68	97.66	504	502	C	-
2022-077V	Starlink-4311	11 July 2022	AFWTR	94.71	97.66	506	503	C	-
2022-077W	Starlink-4307	11 July 2022	AFWTR	94.29	97.65	485	483	C	-
2022-077X	Starlink-4313	11 July 2022	AFWTR	94.69	97.66	505	502	C	-
2022-077Y	Starlink-4312	11 July 2022	AFWTR	94.67	97.66	504	501	C	-
2022-077Z	Starlink-4309	11 July 2022	AFWTR	94.67	97.66	504	502	C	-
2022-077AA	Starlink-4306	11 July 2022	AFWTR	94.66	97.66	504	501	C	-
2022-077AB	Starlink-4325	11 July 2022	AFWTR	94.66	97.66	504	501	C	-
2022-077AC	Starlink-4323	11 July 2022	AFWTR	94.65	97.66	503	501	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)		
2022-077AD	Starlink-4342	11 July 2022	AFWTR	94.66	97.66	504	501	C	-
2022-077AE	Starlink-4328	11 July 2022	AFWTR	94.61	97.66	501	498	C	-
2022-077AF	Starlink-4344	11 July 2022	AFWTR	94.66	97.66	503	501	C	-
2022-077AG	Starlink-4346	11 July 2022	AFWTR	94.6	97.66	501	498	C	-
2022-077AH	Starlink-4310	11 July 2022	AFWTR	94.65	97.66	503	500	C	-
2022-077AJ	Starlink-4348	11 July 2022	AFWTR	94.59	97.66	500	497	C	-
2022-077AK	Starlink-4347	11 July 2022	AFWTR	94.6	97.66	501	498	C	-
2022-077AL	Starlink-4315	11 July 2022	AFWTR	94.58	97.66	500	497	C	-
2022-077AM	Starlink-4322	11 July 2022	AFWTR	94.59	97.66	500	497	C	-
2022-077AN	Starlink-4327	11 July 2022	AFWTR	94.57	97.66	499	496	C	-
2022-077AP	Starlink-4330	11 July 2022	AFWTR	94.58	97.66	500	497	C	-
2022-077AQ	Starlink-4326	11 July 2022	AFWTR	94.56	97.66	499	496	C	-
2022-077AR	Starlink-4321	11 July 2022	AFWTR	94.56	97.66	499	496	C	-
2022-077AS	Starlink-4251	11 July 2022	AFWTR	94.46	97.66	494	491	C	-
2022-077AT	Starlink-4319	11 July 2022	AFWTR	94.56	97.66	499	496	C	-
2022-077AU	Starlink-4324	11 July 2022	AFWTR	94.55	97.66	498	495	C	-
2022-077AV	Starlink-4318	11 July 2022	AFWTR	94.56	97.66	498	496	C	-
2022-077AW	Starlink-4329	11 July 2022	AFWTR	94.53	97.66	497	494	C	-
2022-077AX	Starlink-4333	11 July 2022	AFWTR	94.53	97.66	497	494	C	-
2022-079A	USA 334	13 July 2022	RLLC	93.46	40	624	262	C	-
2022-081A	CRS-25	15 July 2022	AFETR	92.89	51.64	420	412	E	-
2022-083A	Starlink-4063	17 July 2022	AFETR	92.89	53.22	417	415	C	-
2022-083B	Starlink-4154	17 July 2022	AFETR	92.89	53.22	417	415	C	-
2022-083C	Starlink-4150	17 July 2022	AFETR	92.89	53.22	417	415	C	-
2022-083D	Starlink-4023	17 July 2022	AFETR	92.89	53.22	417	415	C	-
2022-083E	Starlink-4152	17 July 2022	AFETR	92.89	53.22	417	415	C	-
2022-083F	Starlink-4145	17 July 2022	AFETR	92.89	53.22	417	415	C	-
2022-083G	Starlink-4141	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083H	Starlink-4185	17 July 2022	AFETR	92.88	53.22	417	415	C	-
2022-083J	Starlink-4170	17 July 2022	AFETR	92.88	53.22	417	415	C	-
2022-083K	Starlink-4103	17 July 2022	AFETR	92.88	53.22	417	415	C	-
2022-083L	Starlink-4101	17 July 2022	AFETR	92.88	53.22	417	415	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)		
2022-083M	Starlink-4102	17 July 2022	AFETR	92.88	53.22	417	415	C	-
2022-083N	Starlink-4100	17 July 2022	AFETR	92.88	53.22	417	415	C	-
2022-083P	Starlink-4106	17 July 2022	AFETR	92.88	53.22	417	415	C	-
2022-083Q	Starlink-4099	17 July 2022	AFETR	92.88	53.22	417	415	C	-
2022-083R	Starlink-4094	17 July 2022	AFETR	92.88	53.22	417	415	C	-
2022-083S	Starlink-4066	17 July 2022	AFETR	92.88	53.22	417	415	C	-
2022-083T	Starlink-4021	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083U	Starlink-4038	17 July 2022	AFETR	91.53	53.21	352	348	C	-
2022-083V	Starlink-4040	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083W	Starlink-4045	17 July 2022	AFETR	91.54	53.22	352	348	C	-
2022-083X	Starlink-4098	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083Y	Starlink-4077	17 July 2022	AFETR	91.53	53.21	352	348	C	-
2022-083Z	Starlink-4088	17 July 2022	AFETR	91.53	53.22	352	347	C	-
2022-083AA	Starlink-4087	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AB	Starlink-4093	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AC	Starlink-4054	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AD	Starlink-4111	17 July 2022	AFETR	91.53	53.22	353	347	C	-
2022-083AE	Starlink-4096	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AF	Starlink-4055	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AG	Starlink-4114	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AH	Starlink-4104	17 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-083AJ	Starlink-4116	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AK	Starlink-4090	17 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-083AL	Starlink-4110	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AM	Starlink-3683	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AN	Starlink-4105	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AP	Starlink-4117	17 July 2022	AFETR	91.53	53.22	352	347	C	-
2022-083AQ	Starlink-4095	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AR	Starlink-4052	17 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-083AS	Starlink-4299	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083AT	Starlink-4300	17 July 2022	AFETR	91.53	53.22	352	347	C	-
2022-083AU	Starlink-4205	17 July 2022	AFETR	92.89	53.22	417	415	C	-

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				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		
2022-083AV	Starlink-4292	17 July 2022	AFETR	92.89	53.22	417	415	C	-
2022-083AW	Starlink-4294	17 July 2022	AFETR	91.53	53.22	352	347	C	-
2022-083AX	Starlink-4298	17 July 2022	AFETR	91.53	53.22	352	347	C	-
2022-083AY	Starlink-4280	17 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-083AZ	Starlink-4276	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083BA	Starlink-4258	17 July 2022	AFETR	91.54	53.22	353	347	C	-
2022-083BB	Starlink-4273	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083BC	Starlink-4278	17 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-083BD	Starlink-4268	17 July 2022	AFETR	91.53	53.22	352	347	C	-
2022-083BE	Starlink-4257	17 July 2022	AFETR	91.54	53.22	352	348	C	-
2022-084A	Starlink-4391	22 July 2022	AFWTR	92.83	97.65	414	412	C	-
2022-084B	Starlink-4332	22 July 2022	AFWTR	92.85	97.66	415	413	C	-
2022-084C	Starlink-4369	22 July 2022	AFWTR	93.02	97.66	424	421	C	-
2022-084D	Starlink-4375	22 July 2022	AFWTR	93	97.66	423	420	C	-
2022-084E	Starlink-4351	22 July 2022	AFWTR	92.82	97.65	414	412	C	-
2022-084F	Starlink-4382	22 July 2022	AFWTR	93.03	97.66	424	422	C	-
2022-084G	Starlink-4404	22 July 2022	AFWTR	93	97.66	423	420	C	-
2022-084H	Starlink-4407	22 July 2022	AFWTR	93.01	97.66	423	421	C	-
2022-084J	Starlink-4403	22 July 2022	AFWTR	92.96	97.66	421	418	C	-
2022-084K	Starlink-4385	22 July 2022	AFWTR	92.97	97.66	421	419	C	-
2022-084L	Starlink-4395	22 July 2022	AFWTR	92.93	97.66	419	417	C	-
2022-084M	Starlink-4417	22 July 2022	AFWTR	92.96	97.66	421	418	C	-
2022-084N	Starlink-4405	22 July 2022	AFWTR	92.92	97.66	419	416	C	-
2022-084P	Starlink-4411	22 July 2022	AFWTR	92.95	97.66	420	418	C	-
2022-084Q	Starlink-4409	22 July 2022	AFWTR	92.91	97.66	418	416	C	-
2022-084R	Starlink-4410	22 July 2022	AFWTR	92.93	97.66	420	417	C	-
2022-084S	Starlink-4397	22 July 2022	AFWTR	92.9	97.66	418	415	C	-
2022-084T	Starlink-4408	22 July 2022	AFWTR	92.92	97.66	419	416	C	-
2022-084U	Starlink-4413	22 July 2022	AFWTR	92.89	97.66	417	415	C	-
2022-084V	Starlink-4425	22 July 2022	AFWTR	92.92	97.66	419	416	C	-
2022-084W	Starlink-4423	22 July 2022	AFWTR	92.88	97.66	417	414	C	-
2022-084X	Starlink-4427	22 July 2022	AFWTR	92.91	97.66	418	416	C	-

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				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		
2022-084Y	Starlink-4419	22 July 2022	AFWTR	92.86	97.66	416	413	C	-
2022-084Z	Starlink-4416	22 July 2022	AFWTR	92.88	97.66	417	414	C	-
2022-084AA	Starlink-4414	22 July 2022	AFWTR	92.84	97.66	415	413	C	-
2022-084AB	Starlink-4353	22 July 2022	AFWTR	92.87	97.66	416	414	C	-
2022-084AC	Starlink-4335	22 July 2022	AFWTR	92.84	97.66	415	412	C	-
2022-084AD	Starlink-4376	22 July 2022	AFWTR	92.86	97.66	416	413	C	-
2022-084AE	Starlink-4379	22 July 2022	AFWTR	92.84	97.66	415	412	C	-
2022-084AF	Starlink-4384	22 July 2022	AFWTR	92.85	97.66	415	413	C	-
2022-084AG	Starlink-4373	22 July 2022	AFWTR	92.83	97.66	415	412	C	-
2022-084AH	Starlink-4363	22 July 2022	AFWTR	92.84	97.66	415	412	C	-
2022-084AJ	Starlink-4377	22 July 2022	AFWTR	92.84	97.65	415	413	C	-
2022-084AK	Starlink-4381	22 July 2022	AFWTR	92.84	97.66	415	412	C	-
2022-084AL	Starlink-4354	22 July 2022	AFWTR	92.83	97.66	415	412	C	-
2022-084AM	Starlink-4356	22 July 2022	AFWTR	92.84	97.66	415	412	C	-
2022-084AN	Starlink-4358	22 July 2022	AFWTR	92.82	97.65	414	411	C	-
2022-084AP	Starlink-4359	22 July 2022	AFWTR	92.84	97.66	415	412	C	-
2022-084AQ	Starlink-4366	22 July 2022	AFWTR	92.82	97.65	414	411	C	-
2022-084AR	Starlink-4365	22 July 2022	AFWTR	92.83	97.66	415	412	C	-
2022-084AS	Starlink-4367	22 July 2022	AFWTR	92.82	97.65	414	412	C	-
2022-084AT	Starlink-4364	22 July 2022	AFWTR	92.82	97.65	414	412	C	-
2022-084AU	Starlink-4370	22 July 2022	AFWTR	92.82	97.65	414	412	C	-
2022-084AV	Starlink-4371	22 July 2022	AFWTR	92.83	97.65	414	412	C	-
2022-084AW	Starlink-4372	22 July 2022	AFWTR	92.83	97.65	414	412	C	-
2022-084AX	Starlink-4368	22 July 2022	AFWTR	92.83	97.65	414	412	C	-
2022-086A	Starlink-4056	24 July 2022	AFETR	91.53	53.22	355	344	C	-
2022-086B	Starlink-4047	24 July 2022	AFETR	92.61	53.22	403	402	C	-
2022-086C	Starlink-4125	24 July 2022	AFETR	92.61	53.22	404	401	C	-
2022-086D	Starlink-4124	24 July 2022	AFETR	92.61	53.22	403	401	C	-
2022-086E	Starlink-4131	24 July 2022	AFETR	92.61	53.22	403	401	C	-
2022-086F	Starlink-4061	24 July 2022	AFETR	91.53	53.22	354	345	C	-
2022-086G	Starlink-4135	24 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-086H	Starlink-4128	24 July 2022	AFETR	91.53	53.22	352	347	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)		
2022-086J	Starlink-4059	24 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-086K	Starlink-4129	24 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-086L	Starlink-4132	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086M	Starlink-4133	24 July 2022	AFETR	91.53	53.22	355	344	C	-
2022-086N	Starlink-4134	24 July 2022	AFETR	91.53	53.22	352	347	C	-
2022-086P	Starlink-4142	24 July 2022	AFETR	91.53	53.22	356	344	C	-
2022-086Q	Starlink-4147	24 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-086R	Starlink-4144	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086S	Starlink-4127	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086T	Starlink-4140	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086U	Starlink-4136	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086V	Starlink-4062	24 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-086W	Starlink-4085	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086X	Starlink-4130	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086Y	Starlink-3950	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086Z	Starlink-4097	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AA	Starlink-4058	24 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-086AB	Starlink-4060	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AC	Starlink-4109	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AD	Starlink-4057	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AE	Starlink-4113	24 July 2022	AFETR	88	53.21	186	166	C	-
2022-086AF	Starlink-4069	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AG	Starlink-4122	24 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-086AH	Starlink-4051	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AJ	Starlink-4050	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AK	Starlink-4179	24 July 2022	AFETR	91.53	53.22	352	347	C	-
2022-086AL	Starlink-4174	24 July 2022	AFETR	91.53	53.22	352	348	C	-
2022-086AM	Starlink-4178	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AN	Starlink-4180	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AQ	Starlink-4169	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AR	Starlink-4182	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AS	Starlink-4164	24 July 2022	AFETR	91.53	53.22	351	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)		
2022-086AT	Starlink-4175	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AU	Starlink-4172	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AV	Starlink-4173	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AW	Starlink-4165	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AX	Starlink-4107	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AY	Starlink-4162	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086AZ	Starlink-4176	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086BA	Starlink-4149	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086BB	Starlink-4166	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086BC	Starlink-4159	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086BD	Starlink-4148	24 July 2022	AFETR	91.53	53.22	351	348	C	-
2022-086BE	Starlink-4146	24 July 2022	AFETR	91.53	53.22	351	348	C	-
The following objects not previously reported were identified after the last report and remained in orbit as at 2359Z on 31 July 2022:									
2022-057AX	VEERY-FS1	25 May 2022	AFETR	95.13	97.52	535	514	A	-
2022-015D	NACHOS-1	29 June 2022	WLPIS	92.53	51.64	403	394	A	-
2022-003B	TECHEDSAT 13	13 January 2022	WRAS	94.43	44.99	495	487	C	-
The following objects achieved orbit after the last report but were no longer in orbit as at 2359Z on 31 July 2022:									
2022-086AP	Starlink-4163	24 July 2022	AFETR	87.9	53.21	179	162	C	31 July 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 31 July 2022:									
2017-042AZ	-	-	-	-	-	-	-	-	7 July 2022
2017-042BQ	-	-	-	-	-	-	-	-	8 July 2022
2017-042BH	-	-	-	-	-	-	-	-	11 July 2022
2021-024AS	-	-	-	-	-	-	-	-	11 July 2022
2018-092E	-	-	-	-	-	-	-	-	14 July 2022
2020-055V	-	-	-	-	-	-	-	-	17 July 2022
2021-005S	-	-	-	-	-	-	-	-	22 July 2022
1998-067QJ	-	-	-	-	-	-	-	-	24 July 2022
2020-038AK	-	-	-	-	-	-	-	-	25 July 2022

<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>		
1998-067NF	-	-	-	-	-	-	-	-	26 July 2022
2019-029Q	-	-	-	-	-	-	-	-	29 July 2022
2017-071R	-	-	-	-	-	-	-	-	30 July 2022

The following objects were not previously reported and were no longer in orbit as at 2359Z on 31 July 2022:

None.

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; RLLC, Rocket Lab Launch Complex 1, New Zealand; WLPIS, Wallops Island, United States; and WRAS, United States Western Range Air Space.

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