

**Secretariat**Distr.: General
31 October 2023

Original: English

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

Note verbale dated 4 October 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 July 2023 (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 18 October 2023.



Annex

Registration data on space launches by the United States of America for July 2023*

The following report supplements the registration data on United States space launches as at 31 July 2023.

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 2023:									
2023-092B	Falcon 9 R/B	1 July 2023	AFETR	Heliocentric orbit				D	-
1998-067VU	Moonlighter	6 July 2023	ISS	92.65	51.64	405	404	A	-
2023-094A	Starlink-5525	7 July 2023	AFWTR	94.04	43	473	471	C	-
2023-094B	Starlink-5520	7 July 2023	AFWTR	94.03	43	472	470	C	-
2023-094C	Starlink-5880	7 July 2023	AFWTR	93.94	43	468	466	C	-
2023-094D	Starlink-5875	7 July 2023	AFWTR	94.02	43	472	470	C	-
2023-094E	Starlink-5870	7 July 2023	AFWTR	93.98	43	470	468	C	-
2023-094F	Starlink-5519	7 July 2023	AFWTR	94.01	43	471	469	C	-
2023-094G	Starlink-5983	7 July 2023	AFWTR	93.98	43	470	468	C	-
2023-094H	Starlink-6294	7 July 2023	AFWTR	93.96	43	469	467	C	-
2023-094J	Starlink-6350	7 July 2023	AFWTR	93.89	43	466	464	C	-
2023-094K	Starlink-5996	7 July 2023	AFWTR	93.93	43	468	466	C	-
2023-094L	Starlink-6230	7 July 2023	AFWTR	93.88	43	465	463	C	-
2023-094M	Starlink-6233	7 July 2023	AFWTR	93.91	43	467	465	C	-
2023-094N	Starlink-6250	7 July 2023	AFWTR	93.86	43	464	462	C	-
2023-094P	Starlink-5840	7 July 2023	AFWTR	93.76	43	459	457	C	-
2023-094Q	Starlink-5872	7 July 2023	AFWTR	93.71	43	457	455	C	-
2023-094R	Starlink-5866	7 July 2023	AFWTR	93.8	43	461	459	C	-
2023-094S	Starlink-6368	7 July 2023	AFWTR	93.76	43	459	457	C	-
2023-094T	Starlink-6360	7 July 2023	AFWTR	93.81	43	462	460	C	-
2023-094U	Starlink-6315	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094V	Starlink-6365	7 July 2023	AFWTR	93.79	43	461	459	C	-
2023-094W	Starlink-6334	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094X	Starlink-6330	7 July 2023	AFWTR	93.74	43	458	456	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>		
2023-094Y	Starlink-6351	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094Z	Starlink-6349	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AA	Starlink-6306	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AB	Starlink-6346	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AC	Starlink-5610	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AD	Starlink-5587	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AE	Starlink-5049	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AF	Starlink-5039	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AG	Starlink-5514	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AH	Starlink-5517	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AJ	Starlink-5488	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AK	Starlink-5513	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AL	Starlink-5511	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AM	Starlink-5516	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AN	Starlink-5490	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AP	Starlink-5481	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AQ	Starlink-5512	7 July 2023	AFWTR	92.33	43	390	388	C	-
2023-094AR	Starlink-5503	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AS	Starlink-5476	7 July 2023	AFWTR	91.79	43	364	361	C	-
2023-094AT	Starlink-5505	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AU	Starlink-5026	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AV	Starlink-5485	7 July 2023	AFWTR	93.84	43	463	461	C	-
2023-094AW	Starlink-5504	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AX	Starlink-5509	7 July 2023	AFWTR	93.82	43	462	461	C	-
2023-094AY	Starlink-5858	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-094AZ	Starlink-5890	7 July 2023	AFWTR	91.82	43	365	363	C	-
2023-096A	Starlink-30198	10 July 2023	AFETR	95.71	43	553	553	C	-
2023-096B	Starlink-30239	10 July 2023	AFETR	95.71	43	554	552	C	-
2023-096C	Starlink-30210	10 July 2023	AFETR	95.71	43	554	553	C	-
2023-096D	Starlink-30202	10 July 2023	AFETR	95.52	43	544	544	C	-
2023-096E	Starlink-30235	10 July 2023	AFETR	95.71	43	554	552	C	-
2023-096F	Starlink-30206	10 July 2023	AFETR	95.89	43	562	561	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>		
2023-096G	Starlink-30238	10 July 2023	AFETR	95.71	43	553	553	C	-
2023-096H	Starlink-30234	10 July 2023	AFETR	95.71	43	553	553	C	-
2023-096J	Starlink-30241	10 July 2023	AFETR	95.84	43	559	559	C	-
2023-096K	Starlink-30199	10 July 2023	AFETR	95.71	43	553	553	C	-
2023-096L	Starlink-30236	10 July 2023	AFETR	95.71	43	554	552	C	-
2023-096M	Starlink-30201	10 July 2023	AFETR	95.71	43	554	553	C	-
2023-096N	Starlink-30233	10 July 2023	AFETR	95.89	43	562	561	C	-
2023-096P	Starlink-30232	10 July 2023	AFETR	95.84	43	560	558	C	-
2023-096Q	Starlink-30211	10 July 2023	AFETR	95.71	43	553	553	C	-
2023-096R	Starlink-30177	10 July 2023	AFETR	95.84	43	560	558	C	-
2023-096S	Starlink-30200	10 July 2023	AFETR	95.84	43	560	558	C	-
2023-096T	Starlink-30209	10 July 2023	AFETR	95.83	43	560	558	C	-
2023-096U	Starlink-30194	10 July 2023	AFETR	95.71	43	553	553	C	-
2023-096V	Starlink-30163	10 July 2023	AFETR	95.71	43	554	552	C	-
2023-096W	Starlink-30184	10 July 2023	AFETR	92.47	43	396	395	C	-
2023-096X	Starlink-30175	10 July 2023	AFETR	95.71	43	554	552	C	-
2023-099A	Starlink-6290	16 July 2023	AFETR	93.33	43	438	437	C	-
2023-099B	Starlink-6138	16 July 2023	AFETR	93.25	43	435	433	C	-
2023-099C	Starlink-6212	16 July 2023	AFETR	93.32	43	438	436	C	-
2023-099D	Starlink-6234	16 July 2023	AFETR	93.3	43	437	435	C	-
2023-099E	Starlink-5831	16 July 2023	AFETR	93.28	43	436	434	C	-
2023-099F	Starlink-5585	16 July 2023	AFETR	93.27	43	435	434	C	-
2023-099G	Starlink-5589	16 July 2023	AFETR	93.22	43	433	431	C	-
2023-099H	Starlink-6316	16 July 2023	AFETR	93.25	43	435	433	C	-
2023-099J	Starlink-6320	16 July 2023	AFETR	93.09	43	428	424	C	-
2023-099K	Starlink-6322	16 July 2023	AFETR	93.2	43	432	430	C	-
2023-099L	Starlink-6374	16 July 2023	AFETR	93.06	43	426	423	C	-
2023-099M	Starlink-6332	16 July 2023	AFETR	93.21	43	433	431	C	-
2023-099N	Starlink-6321	16 July 2023	AFETR	93.06	43	426	423	C	-
2023-099P	Starlink-6377	16 July 2023	AFETR	93.05	43	425	423	C	-
2023-099Q	Starlink-6375	16 July 2023	AFETR	93.04	43	424	422	C	-
2023-099R	Starlink-6379	16 July 2023	AFETR	93.06	43	426	423	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)		
2023-099S	Starlink-6380	16 July 2023	AFETR	93.03	43	424	422	C	-
2023-099T	Starlink-6373	16 July 2023	AFETR	93.05	43	425	422	C	-
2023-099U	Starlink-6359	16 July 2023	AFETR	93.03	43	424	422	C	-
2023-099V	Starlink-6378	16 July 2023	AFETR	93.03	43	424	422	C	-
2023-099W	Starlink-6372	16 July 2023	AFETR	93.03	43	424	422	C	-
2023-099X	Starlink-6376	16 July 2023	AFETR	93.03	43	424	422	C	-
2023-099Y	Starlink-6362	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099Z	Starlink-6331	16 July 2023	AFETR	93.03	43	424	422	C	-
2023-099AA	Starlink-6297	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AB	Starlink-6324	16 July 2023	AFETR	93.03	43	424	422	C	-
2023-099AC	Starlink-6293	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AD	Starlink-6276	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AE	Starlink-6355	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AF	Starlink-5600	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AG	Starlink-6299	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AH	Starlink-6347	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AJ	Starlink-6348	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AK	Starlink-6340	16 July 2023	AFETR	91.64	43	357	353	C	-
2023-099AL	Starlink-6343	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AM	Starlink-6356	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AN	Starlink-6338	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AP	Starlink-5007	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AQ	Starlink-6174	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AR	Starlink-6215	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AS	Starlink-6218	16 July 2023	AFETR	91.64	43	357	353	C	-
2023-099AT	Starlink-6168	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AU	Starlink-5353	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AV	Starlink-6032	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AW	Starlink-5975	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AX	Starlink-6370	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AY	Starlink-6369	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099AZ	Starlink-6363	16 July 2023	AFETR	91.64	43	356	354	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>		
2023-099BA	Starlink-6367	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099BB	Starlink-6358	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099BC	Starlink-6364	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099BD	Starlink-6361	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-099BE	Starlink-6366	16 July 2023	AFETR	91.64	43	357	353	C	-
2023-099BF	Starlink-6371	16 July 2023	AFETR	91.64	43	356	354	C	-
2023-100A	Starling 4	18 July 2023	RLLC	96.14	99.46	584	563	C	-
2023-100B	Starling 2	18 July 2023	RLLC	96.15	99.46	584	563	C	-
2023-100C	Starling 1	18 July 2023	RLLC	96.13	99.47	576	570	C	-
2023-100D	Starling 3	18 July 2023	RLLC	96.14	99.46	584	564	C	-
2023-100E	Lemur 2 Mano	18 July 2023	RLLC	96.1	99.46	582	562	C	-
2023-100F	Lemur 2 Deverill-M-T	18 July 2023	RLLC	96.07	99.47	581	560	C	-
2023-102A	Starlink-30240	20 July 2023	AFWTR	95.09	43	524	522	C	-
2023-102B	Starlink-30192	20 July 2023	AFWTR	95.09	43	524	522	C	-
2023-102C	Starlink-30195	20 July 2023	AFWTR	95.09	43	524	522	C	-
2023-102D	Starlink-30207	20 July 2023	AFWTR	92.7	43	407	406	C	-
2023-102E	Starlink-30205	20 July 2023	AFWTR	95.09	43	524	522	C	-
2023-102F	Starlink-30222	20 July 2023	AFWTR	95.1	43	525	522	C	-
2023-102G	Starlink-30172	20 July 2023	AFWTR	95.09	43	524	522	C	-
2023-102H	Starlink-30214	20 July 2023	AFWTR	95.09	43	523	523	C	-
2023-102J	Starlink-30182	20 July 2023	AFWTR	95.09	43	525	522	C	-
2023-102K	Starlink-30191	20 July 2023	AFWTR	95.09	43	524	522	C	-
2023-102L	Starlink-30193	20 July 2023	AFWTR	95.09	43	524	522	C	-
2023-102M	Starlink-30208	20 July 2023	AFWTR	95.09	43	524	522	C	-
2023-102N	Starlink-30224	20 July 2023	AFWTR	94.59	43	501	496	C	-
2023-102P	Starlink-30043	20 July 2023	AFWTR	95.09	43	524	522	C	-
2023-102Q	Starlink-30221	20 July 2023	AFWTR	95.09	43	524	522	C	-
2023-105A	Starlink-30189	24 July 2023	AFETR	94.83	43	511	510	C	-
2023-105B	Starlink-30170	24 July 2023	AFETR	94.81	43	511	508	C	-
2023-105C	Starlink-30188	24 July 2023	AFETR	94.77	43	508	506	C	-
2023-105D	Starlink-30105	24 July 2023	AFETR	94.67	43	503	501	C	-
2023-105E	Starlink-30102	24 July 2023	AFETR	94.7	43	505	503	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)		
2023-105F	Starlink-30180	24 July 2023	AFETR	94.73	43	507	505	C	-
2023-105G	Starlink-30183	24 July 2023	AFETR	94.63	43	501	500	C	-
2023-105H	Starlink-30237	24 July 2023	AFETR	94.56	43	499	496	C	-
2023-105J	Starlink-30158	24 July 2023	AFETR	94.2	43	481	478	C	-
2023-105K	Starlink-30173	24 July 2023	AFETR	93.37	43	440	439	C	-
2023-105L	Starlink-30159	24 July 2023	AFETR	94.5	43	495	493	C	-
2023-105M	Starlink-30160	24 July 2023	AFETR	94.46	43	493	492	C	-
2023-105N	Starlink-30146	24 July 2023	AFETR	94.43	43	492	490	C	-
2023-105P	Starlink-30197	24 July 2023	AFETR	94.4	43	490	488	C	-
2023-105Q	Starlink-30181	24 July 2023	AFETR	94.31	43	486	484	C	-
2023-105R	Starlink-30215	24 July 2023	AFETR	94.36	43	489	486	C	-
2023-105S	Starlink-30162	24 July 2023	AFETR	93.21	43	433	431	C	-
2023-105T	Starlink-30178	24 July 2023	AFETR	94.33	43	487	486	C	-
2023-105U	Starlink-30196	24 July 2023	AFETR	94.23	43	482	480	C	-
2023-105V	Starlink-30225	24 July 2023	AFETR	94.16	43	478	478	C	-
2023-105W	Starlink-30217	24 July 2023	AFETR	94.06	43	475	472	C	-
2023-105X	Starlink-30216	24 July 2023	AFETR	94.94	43	517	515	C	-
2023-107A	Starlink-30165	28 July 2023	AFETR	94.75	43	507	505	C	-
2023-107B	Starlink-30140	28 July 2023	AFETR	94.72	43	506	504	C	-
2023-107C	Starlink-30185	28 July 2023	AFETR	94.67	43	504	502	C	-
2023-107D	Starlink-30077	28 July 2023	AFETR	94.63	43	502	500	C	-
2023-107E	Starlink-30229	28 July 2023	AFETR	94.6	43	500	498	C	-
2023-107F	Starlink-30088	28 July 2023	AFETR	94.56	43	498	496	C	-
2023-107G	Starlink-30091	28 July 2023	AFETR	94.5	43	496	493	C	-
2023-107H	Starlink-30115	28 July 2023	AFETR	94.45	43	493	491	C	-
2023-107J	Starlink-30116	28 July 2023	AFETR	94.52	43	497	494	C	-
2023-107K	Starlink-30156	28 July 2023	AFETR	92.03	43	379	369	C	-
2023-107L	Starlink-30092	28 July 2023	AFETR	94.41	43	491	489	C	-
2023-107M	Starlink-30039	28 July 2023	AFETR	94.37	43	489	487	C	-
2023-107N	Starlink-30171	28 July 2023	AFETR	94.34	43	487	486	C	-
2023-107P	Starlink-30186	28 July 2023	AFETR	94.3	43	485	484	C	-
2023-107Q	Starlink-30190	28 July 2023	AFETR	93.97	43	470	467	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)		
2023-107R	Starlink-30204	28 July 2023	AFETR	94.26	43	483	482	C	-
2023-107S	Starlink-30187	28 July 2023	AFETR	93.8	43	461	460	C	-
2023-107T	Starlink-30110	28 July 2023	AFETR	94.15	43	478	477	C	-
2023-107U	Starlink-30155	28 July 2023	AFETR	94.11	43	477	474	C	-
2023-107V	Starlink-30161	28 July 2023	AFETR	94.08	43	475	474	C	-
2023-107W	Starlink-30176	28 July 2023	AFETR	94.04	43	473	471	C	-
2023-107X	Starlink-30167	28 July 2023	AFETR	90.43	43.01	302	289	C	-
2023-108A	Jupiter 3 (EchoStar 24)	29 July 2023	AFETR	1 275.81	0.9	35 447	29 729	C	-
2023-108B	Falcon Heavy R/B	29 July 2023	AFETR	781.11	10.38	35 505	7 930	D	-
The following objects not previously reported were identified after the last report and remained in orbit as at 2359Z on 31 July 2023:									
2021-058A	LauncherOne R/B	30 June 2021	WRAS	89.4	60.64	250	240	D	-
2023-084BK	Outpost Mission 1	12 June 2023	AFWTR	95.07	97.52	529	515	C	-
2023-086B	Falcon 9 R/B	18 June 2023	AFETR	982.92	28.36	52 163	574	D	-
The following objects achieved orbit after the last report but were no longer in orbit as at 2359Z on 31 July 2023:									
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 31 July 2023:									
2019-018H	-	-	-	-	-	-	-	-	30 June 2023
1961-015DT	-	-	-	-	-	-	-	-	1 July 2023
2018-004J	-	-	-	-	-	-	-	-	4 July 2023
2023-067J	-	-	-	-	-	-	-	-	7 July 2023
2023-079G	-	-	-	-	-	-	-	-	7 July 2023
2020-001AN	-	-	-	-	-	-	-	-	9 July 2023
2017-008AV	-	-	-	-	-	-	-	-	11 July 2023
2021-012BB	-	-	-	-	-	-	-	-	14 July 2023
2019-018C	-	-	-	-	-	-	-	-	15 July 2023
2020-012T	-	-	-	-	-	-	-	-	16 July 2023
2023-015AZ	-	-	-	-	-	-	-	-	17 July 2023
2019-081P	-	-	-	-	-	-	-	-	18 July 2023
2023-079H	-	-	-	-	-	-	-	-	18 July 2023
1977-065DB	-	-	-	-	-	-	-	-	25 July 2023

<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>		
2017-008J	-	-	-	-	-	-	-	-	26 July 2023
2019-074Q	-	-	-	-	-	-	-	-	29 July 2023

The following objects were not previously reported and were no longer in orbit as at 2359Z on 31 July 2023:

None.

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

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; ISS, International Space Station; RLLC, Rocket Lab Launch Complex, New Zealand; and WRAS, United States Western Range Airspace.

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