



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

Note verbale dated 27 April 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 March 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 5 May 2023.



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

The following report supplements the registration data on United States space launches as at 31 March 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 March 2023:									
2023-027A	Dragon Endeavour 4	2 March 2023	AFETR	92.93	51.64	423	414	E	-
2023-028A	Starlink-5592	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028B	Starlink-5594	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028C	Starlink-5602	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028D	Starlink-5601	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028E	Starlink-5565	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028F	Starlink-5579	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028G	Starlink-5539	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028H	Starlink-5580	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028J	Starlink-5560	3 March 2023	AFWTR	92.83	70	416	411	C	-
2023-028K	Starlink-5573	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028L	Starlink-5577	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028M	Starlink-5613	3 March 2023	AFWTR	92.83	70	416	411	C	-
2023-028N	Starlink-5617	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028P	Starlink-5612	3 March 2023	AFWTR	92.83	70	416	411	C	-
2023-028Q	Starlink-5619	3 March 2023	AFWTR	92.69	70	408	404	C	-
2023-028R	Starlink-5614	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028S	Starlink-5544	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028T	Starlink-5072	3 March 2023	AFWTR	92.83	70	416	411	C	-
2023-028U	Starlink-5081	3 March 2023	AFWTR	90.83	69.99	317	313	C	-
2023-028V	Starlink-5532	3 March 2023	AFWTR	92.83	70	415	411	C	-
2023-028W	Starlink-5611	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028X	Starlink-5603	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028Y	Starlink-5593	3 March 2023	AFWTR	92.83	70	416	411	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>		
2023-028Z	Starlink-5499	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AA	Starlink-5595	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AB	Starlink-5599	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AC	Starlink-5606	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AD	Starlink-5583	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AE	Starlink-5584	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AF	Starlink-5557	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AG	Starlink-5591	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AH	Starlink-5835	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AJ	Starlink-5833	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AK	Starlink-5812	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AL	Starlink-5809	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AM	Starlink-5810	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AN	Starlink-5814	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AP	Starlink-5816	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AQ	Starlink-5817	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AR	Starlink-5819	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AS	Starlink-5820	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AT	Starlink-5826	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AU	Starlink-5825	3 March 2023	AFWTR	91.72	70	362	357	C	-
2023-028AV	Starlink-5797	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AW	Starlink-5818	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AX	Starlink-5823	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AY	Starlink-5811	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028AZ	Starlink-5804	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028BA	Starlink-5815	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028BB	Starlink-5813	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-028BC	Starlink-5807	3 March 2023	AFWTR	91.72	70	361	357	C	-
2023-033A	Dragon CRS-27	15 March 2023	AFETR	92.93	51.64	423	413	E	-
2023-035B	Capella-10 (Whitney)	16 March 2023	WLPIS	96.57	44	597	592	C	-
2023-035C	Capella-9 (Whitney)	16 March 2023	WLPIS	96.59	44	598	593	C	-
2023-037A	Starlink-5856	17 March 2023	AFWTR	91.72	70	362	357	C	-

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				<i>Nodal period (minutes)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>	<i>Perigee (km)</i>		
2023-037B	Starlink-5859	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037C	Starlink-5796	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037D	Starlink-5855	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037E	Starlink-5867	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037F	Starlink-5871	17 March 2023	AFWTR	91.72	70	362	356	C	-
2023-037G	Starlink-5862	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037H	Starlink-5861	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037J	Starlink-5863	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037K	Starlink-5854	17 March 2023	AFWTR	91.72	70	362	356	C	-
2023-037L	Starlink-5849	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037M	Starlink-5922	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037N	Starlink-5921	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037P	Starlink-5919	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037Q	Starlink-5930	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037R	Starlink-5898	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037S	Starlink-5896	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037T	Starlink-5897	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037U	Starlink-5848	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037V	Starlink-5852	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037W	Starlink-5927	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037X	Starlink-5920	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037Y	Starlink-5882	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037Z	Starlink-5913	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037AA	Starlink-5909	17 March 2023	AFWTR	91.73	70	361	357	C	-
2023-037AB	Starlink-5918	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037AC	Starlink-5864	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037AD	Starlink-5914	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037AE	Starlink-5917	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037AF	Starlink-5932	17 March 2023	AFWTR	91.72	70	362	356	C	-
2023-037AG	Starlink-5926	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037AH	Starlink-5925	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037AJ	Starlink-5857	17 March 2023	AFWTR	91.72	70	361	357	C	-

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				<i>Nodal period (minutes)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>	<i>Perigee (km)</i>		
2023-037AK	Starlink-5851	17 March 2023	AFWTR	91.73	70	361	358	C	-
2023-037AL	Starlink-5900	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037AM	Starlink-5899	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037AN	Starlink-5911	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037AP	Starlink-5908	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037AQ	Starlink-5893	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037AR	Starlink-5889	17 March 2023	AFWTR	91.72	70	362	356	C	-
2023-037AS	Starlink-5892	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037AT	Starlink-5878	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037AU	Starlink-5883	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037AV	Starlink-5884	17 March 2023	AFWTR	91.73	70	361	357	C	-
2023-037AW	Starlink-5928	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037AX	Starlink-5929	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037AY	Starlink-5938	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037AZ	Starlink-5933	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037BA	Starlink-5906	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037BB	Starlink-5924	17 March 2023	AFWTR	91.72	70	361	357	C	-
2023-037BC	Starlink-5895	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-037BD	Starlink-5894	17 March 2023	AFWTR	91.72	70	362	357	C	-
2023-038C	Falcon 9 R/B	17 March 2023	AFETR	347.68	26.89	19 699	302	D	-
2023-042A	Starlink-5905	24 March 2023	AFETR	91.64	43	356	354	C	-
2023-042B	Starlink-5915	24 March 2023	AFETR	91.64	43	356	354	C	-
2023-042C	Starlink-5916	24 March 2023	AFETR	91.64	43	356	354	C	-
2023-042D	Starlink-5947	24 March 2023	AFETR	91.64	43	356	354	C	-
2023-042E	Starlink-5946	24 March 2023	AFETR	91.64	43	356	354	C	-
2023-042F	Starlink-5948	24 March 2023	AFETR	91.64	43	356	354	C	-
2023-042G	Starlink-5962	24 March 2023	AFETR	91.64	43	356	354	C	-
2023-042H	Starlink-5969	24 March 2023	AFETR	91.64	43	356	354	C	-
2023-042J	Starlink-5956	24 March 2023	AFETR	91.64	43	356	354	C	-
2023-042K	Starlink-5957	24 March 2023	AFETR	91.64	43	356	354	C	-
2023-042L	Starlink-5903	24 March 2023	AFETR	91.63	43	356	354	C	-
2023-042M	Starlink-5904	24 March 2023	AFETR	91.64	43	356	354	C	-

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				<i>Nodal period (minutes)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>	<i>Perigee (km)</i>		
2023-042N	Starlink-5902	24 March 2023	AFETR	91.63	43	355	354	C	-
2023-042P	Starlink-5901	24 March 2023	AFETR	91.63	43	356	354	C	-
2023-042Q	Starlink-5910	24 March 2023	AFETR	91.63	43	355	353	C	-
2023-042R	Starlink-5944	24 March 2023	AFETR	91.63	43	355	353	C	-
2023-042S	Starlink-5799	24 March 2023	AFETR	91.63	43	355	353	C	-
2023-042T	Starlink-5789	24 March 2023	AFETR	91.63	43	356	354	C	-
2023-042U	Starlink-5787	24 March 2023	AFETR	91.62	43	355	353	C	-
2023-042V	Starlink-5801	24 March 2023	AFETR	91.63	43	355	353	C	-
2023-042W	Starlink-5794	24 March 2023	AFETR	91.62	43	355	353	C	-
2023-042X	Starlink-5806	24 March 2023	AFETR	91.62	43	355	353	C	-
2023-042Y	Starlink-5803	24 March 2023	AFETR	91.62	43	355	353	C	-
2023-042Z	Starlink-5964	24 March 2023	AFETR	91.62	43	355	353	C	-
2023-042AA	Starlink-5968	24 March 2023	AFETR	91.62	43	355	353	C	-
2023-042AB	Starlink-5936	24 March 2023	AFETR	91.61	43	355	353	C	-
2023-042AC	Starlink-5940	24 March 2023	AFETR	91.61	43	355	353	C	-
2023-042AD	Starlink-5941	24 March 2023	AFETR	91.62	43	355	353	C	-
2023-042AE	Starlink-5942	24 March 2023	AFETR	91.61	43	355	352	C	-
2023-042AF	Starlink-5939	24 March 2023	AFETR	91.61	43	355	353	C	-
2023-042AG	Starlink-5943	24 March 2023	AFETR	91.6	43	354	352	C	-
2023-042AH	Starlink-5934	24 March 2023	AFETR	91.61	43	354	352	C	-
2023-042AJ	Starlink-5945	24 March 2023	AFETR	91.6	43	354	352	C	-
2023-042AK	Starlink-5949	24 March 2023	AFETR	91.61	43	354	352	C	-
2023-042AL	Starlink-5912	24 March 2023	AFETR	91.61	43	354	352	C	-
2023-042AM	Starlink-5907	24 March 2023	AFETR	91.61	43	354	352	C	-
2023-042AN	Starlink-5783	24 March 2023	AFETR	91.6	43	354	352	C	-
2023-042AP	Starlink-5771	24 March 2023	AFETR	91.6	43	354	352	C	-
2023-042AQ	Starlink-5772	24 March 2023	AFETR	91.6	43	354	352	C	-
2023-042AR	Starlink-5766	24 March 2023	AFETR	91.6	43	354	352	C	-
2023-042AS	Starlink-5770	24 March 2023	AFETR	91.6	43	354	352	C	-
2023-042AT	Starlink-5777	24 March 2023	AFETR	91.6	43	354	352	C	-
2023-042AU	Starlink-5779	24 March 2023	AFETR	91.59	43	354	351	C	-
2023-042AV	Starlink-5774	24 March 2023	AFETR	91.6	43	354	352	C	-

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				<i>Nodal period (minutes)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>	<i>Perigee (km)</i>		
2023-042AW	Starlink-5781	24 March 2023	AFETR	91.59	43	354	352	C	-
2023-042AX	Starlink-5785	24 March 2023	AFETR	91.59	43	354	352	C	-
2023-042AY	Starlink-5786	24 March 2023	AFETR	91.56	43	353	350	C	-
2023-042AZ	Starlink-5784	24 March 2023	AFETR	91.59	43	354	352	C	-
2023-042BA	Starlink-5782	24 March 2023	AFETR	91.59	43	354	351	C	-
2023-042BB	Starlink-5792	24 March 2023	AFETR	91.59	43	354	352	C	-
2023-042BC	Starlink-5790	24 March 2023	AFETR	91.59	43	353	351	C	-
2023-042BD	Starlink-5758	24 March 2023	AFETR	91.59	43	353	351	C	-
2023-042BE	Starlink-5793	24 March 2023	AFETR	91.59	43	354	351	C	-
2023-042BF	Starlink-5795	24 March 2023	AFETR	91.59	43	353	351	C	-
2023-042BG	Starlink-5798	24 March 2023	AFETR	91.58	43	353	351	C	-
2023-042BH	Starlink-5800	24 March 2023	AFETR	91.58	43	353	351	C	-
2023-046A	Starlink-6102	29 March 2023	AFETR	91.53	43	351	349	C	-
2023-046B	Starlink-6109	29 March 2023	AFETR	91.53	43	350	349	C	-
2023-046C	Starlink-6090	29 March 2023	AFETR	91.53	43	351	349	C	-
2023-046D	Starlink-6089	29 March 2023	AFETR	91.53	43	350	348	C	-
2023-046E	Starlink-6077	29 March 2023	AFETR	90.75	43	328	295	C	-
2023-046F	Starlink-6088	29 March 2023	AFETR	91.5	43	351	346	C	-
2023-046G	Starlink-6093	29 March 2023	AFETR	91.52	43	350	348	C	-
2023-046H	Starlink-6076	29 March 2023	AFETR	91.52	43	350	348	C	-
2023-046J	Starlink-6095	29 March 2023	AFETR	91.52	43	350	348	C	-
2023-046K	Starlink-6075	29 March 2023	AFETR	91.52	43	350	348	C	-
2023-046L	Starlink-6096	29 March 2023	AFETR	91.52	43	350	348	C	-
2023-046M	Starlink-6062	29 March 2023	AFETR	91.52	43	350	348	C	-
2023-046N	Starlink-6066	29 March 2023	AFETR	91.51	43	350	348	C	-
2023-046P	Starlink-6078	29 March 2023	AFETR	91.51	43	350	348	C	-
2023-046Q	Starlink-6030	29 March 2023	AFETR	91.51	43	350	348	C	-
2023-046R	Starlink-6081	29 March 2023	AFETR	91.52	43	350	348	C	-
2023-046S	Starlink-6083	29 March 2023	AFETR	91.51	43	350	348	C	-
2023-046T	Starlink-6082	29 March 2023	AFETR	91.51	43	350	348	C	-
2023-046U	Starlink-6084	29 March 2023	AFETR	91.5	43	349	348	C	-
2023-046V	Starlink-6080	29 March 2023	AFETR	91.51	43	349	347	C	-

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				<i>Nodal period (minutes)</i>	<i>Inclination (degrees)</i>	<i>Apogee (km)</i>	<i>Perigee (km)</i>		
2023-046W	Starlink-6113	29 March 2023	AFETR	91.5	43	349	347	C	-
2023-046X	Starlink-6103	29 March 2023	AFETR	91.51	43	350	347	C	-
2023-046Y	Starlink-6101	29 March 2023	AFETR	91.5	43	349	347	C	-
2023-046Z	Starlink-6114	29 March 2023	AFETR	91.51	43	349	347	C	-
2023-046AA	Starlink-6107	29 March 2023	AFETR	91.5	43	349	347	C	-
2023-046AB	Starlink-6105	29 March 2023	AFETR	91.5	43	349	347	C	-
2023-046AC	Starlink-6091	29 March 2023	AFETR	91.49	43	349	347	C	-
2023-046AD	Starlink-6079	29 March 2023	AFETR	91.5	43	349	347	C	-
2023-046AE	Starlink-6092	29 March 2023	AFETR	91.49	43	349	347	C	-
2023-046AF	Starlink-6094	29 March 2023	AFETR	91.5	43	349	347	C	-
2023-046AH	Starlink-6115	29 March 2023	AFETR	91.39	43	344	342	C	-
2023-046AJ	Starlink-6126	29 March 2023	AFETR	91.49	43	349	347	C	-
2023-046AK	Starlink-6119	29 March 2023	AFETR	91.39	43	344	342	C	-
2023-046AL	Starlink-6124	29 March 2023	AFETR	91.39	43	344	342	C	-
2023-046AM	Starlink-6104	29 March 2023	AFETR	91.48	43	348	346	C	-
2023-046AN	Starlink-6122	29 March 2023	AFETR	91.49	43	349	346	C	-
2023-046AP	Starlink-6121	29 March 2023	AFETR	91.49	43	348	347	C	-
2023-046AQ	Starlink-6117	29 March 2023	AFETR	91.48	43	348	346	C	-
2023-046AR	Starlink-6120	29 March 2023	AFETR	91.48	43	348	346	C	-
2023-046AS	Starlink-6071	29 March 2023	AFETR	91.39	43	344	342	C	-
2023-046AT	Starlink-5566	29 March 2023	AFETR	91.48	43	348	346	C	-
2023-046AU	Starlink-5564	29 March 2023	AFETR	91.39	43	344	341	C	-
2023-046AV	Starlink-5563	29 March 2023	AFETR	91.47	43	348	345	C	-
2023-046AW	Starlink-5489	29 March 2023	AFETR	91.48	43	348	346	C	-
2023-046AX	Starlink-5090	29 March 2023	AFETR	91.47	43	347	346	C	-
2023-046AY	Starlink-4774	29 March 2023	AFETR	91.47	43	348	346	C	-
2023-046AZ	Starlink-5378	29 March 2023	AFETR	91.47	43	348	346	C	-
2023-046BA	Starlink-5375	29 March 2023	AFETR	91.47	43	348	346	C	-
2023-046BB	Starlink-5377	29 March 2023	AFETR	91.46	43	347	345	C	-
2023-046BC	Starlink-5376	29 March 2023	AFETR	91.47	43	348	346	C	-
2023-046BD	Starlink-5016	29 March 2023	AFETR	91.46	43	347	345	C	-
2023-046BE	Starlink-5374	29 March 2023	AFETR	91.47	43	347	346	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>		
2023-046BF	Starlink-5370	29 March 2023	AFETR	91.46	43	347	345	C	-
2023-046BG	Starlink-5111	29 March 2023	AFETR	91.46	43	347	345	C	-
2023-046BH	Starlink-5140	29 March 2023	AFETR	91.46	43	347	345	C	-
2023-046BJ	Starlink-5089	29 March 2023	AFETR	91.46	43	347	345	C	-

The following objects not previously reported were identified after the last report and remained in orbit as at 2359Z on 31 March 2023:

None.

The following objects achieved orbit after the last report but were no longer in orbit as at 2359Z on 31 March 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 March 2023:

2021-059BW	-	-	-	-	-	-	-	-	1 March 2023
2016-040P	-	-	-	-	-	-	-	-	6 March 2023
2021-006N	-	-	-	-	-	-	-	-	6 March 2023
2017-008AE	-	-	-	-	-	-	-	-	7 March 2023
2017-008C	-	-	-	-	-	-	-	-	7 March 2023
2021-059BG	-	-	-	-	-	-	-	-	7 March 2023
2021-059BP	-	-	-	-	-	-	-	-	7 March 2023
2023-020AP	-	-	-	-	-	-	-	-	10 March 2023
1991-082BM	-	-	-	-	-	-	-	-	11 March 2023
2013-064A	-	-	-	-	-	-	-	-	11 March 2023
2021-021AG	-	-	-	-	-	-	-	-	11 March 2023
2022-124A	-	-	-	-	-	-	-	-	12 March 2023
2017-008BQ	-	-	-	-	-	-	-	-	14 March 2023
2017-036AG	-	-	-	-	-	-	-	-	14 March 2023
2019-018L	-	-	-	-	-	-	-	-	14 March 2023
2019-071L	-	-	-	-	-	-	-	-	14 March 2023
2021-023H	-	-	-	-	-	-	-	-	14 March 2023
2021-059BF	-	-	-	-	-	-	-	-	14 March 2023
2021-059BL	-	-	-	-	-	-	-	-	14 March 2023
1991-082CB	-	-	-	-	-	-	-	-	15 March 2023
2019-018N	-	-	-	-	-	-	-	-	15 March 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>		
2019-018T	-	-	-	-	-	-	-	-	15 March 2023
2021-021N	-	-	-	-	-	-	-	-	15 March 2023
2021-059BU	-	-	-	-	-	-	-	-	15 March 2023
2016-040M	-	-	-	-	-	-	-	-	20 March 2023
2017-008AJ	-	-	-	-	-	-	-	-	20 March 2023
2017-008W	-	-	-	-	-	-	-	-	20 March 2023
2018-096D	-	-	-	-	-	-	-	-	20 March 2023
2019-071C	-	-	-	-	-	-	-	-	20 March 2023
2021-006AL	-	-	-	-	-	-	-	-	20 March 2023
2021-059BH	-	-	-	-	-	-	-	-	20 March 2023
1970-025CV	-	-	-	-	-	-	-	-	22 March 2023
2017-008AU	-	-	-	-	-	-	-	-	22 March 2023
2017-008D	-	-	-	-	-	-	-	-	22 March 2023
2023-013AB	-	-	-	-	-	-	-	-	23 March 2023
2017-068J	-	-	-	-	-	-	-	-	24 March 2023
2020-070W	-	-	-	-	-	-	-	-	24 March 2023
2016-040Q	-	-	-	-	-	-	-	-	28 March 2023
2016-040V	-	-	-	-	-	-	-	-	28 March 2023
2018-004L	-	-	-	-	-	-	-	-	28 March 2023
2020-061AK	-	-	-	-	-	-	-	-	28 March 2023
2021-059BV	-	-	-	-	-	-	-	-	28 March 2023
2021-059BY	-	-	-	-	-	-	-	-	28 March 2023
2017-008DE	-	-	-	-	-	-	-	-	29 March 2023
2017-068M	-	-	-	-	-	-	-	-	29 March 2023
The following objects were not previously reported and were no longer in orbit as at 2359Z on 31 March 2023:									
2017-036AG	Tyvak 53B	23 June 2017	-	-	-	-	-	-	14 March 2023
2019-022F	Quantum-Radar-3	17 April 2019	-	-	-	-	-	-	7 March 2023
2022-122A	TIS Serenity	1 October 2022	-	-	-	-	-	-	12 October 2022
The following objects were deployed on a non-Earth celestial body:									
None.									

<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>		

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