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**Committee on the Peaceful  
Uses of Outer Space****Information furnished in conformity with the Convention  
on Registration of Objects Launched into Outer Space****Note verbale dated 15 October 2021 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 June and July 2021 (see annex).<sup>1</sup>

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.

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<sup>1</sup> The data on space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 19 October 2021.



## Annex

## Registration data on space launches by the United States of America for June and July 2021\*

The following report supplements the registration data on United States space launches as at 31 July 2021.

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 2021:									
1998-067SL	RamSat	3 June 2021; deployed: 14 June 2021	TTMTR	92.88	51.64	418	413	C	-
2021-013C	ORCA-7	20 February 2021; deployed: 30 June 2021	WLPIS	94.51	51.62	502	488	C	-
2021-013D	Gunsmoke-J 2	20 February 2021; deployed: 30 June 2021	WLPIS	94.52	51.62	502	488	C	-
2021-013E	ORCA-6	20 February 2021; deployed: 30 June 2021	WLPIS	94.51	51.62	502	487	C	-
2021-013G	IT-SPINS	20 February 2021; deployed: 30 June 2021	WLPIS	94.56	51.64	503	491	C	-
2021-049A	XM-8	6 June 2021	AFETR	1 436.13	0.1	35 794	35 780	C	-
2021-049B	Falcon 9 R/B	6 June 2021	AFETR	339.02	27.1	19 243	212	D	-
2021-051A	Odyssey	13 June 2021	WRAS	93.03	97.47	446	400	C	-
2021-051B	Pegasus R/B	13 June 2021	WRAS	93.1	97.48	450	403	D	-
2021-052A	USA 316	15 June 2021	WLPIS	96.65	54.99	602	594	C	-
2021-052B	USA 317	15 June 2021	WLPIS	96.64	54.99	602	594	C	-
2021-052C	USA 318	15 June 2021	WLPIS	96.62	54.99	600	594	C	-
2021-052D	Minotaur 1 R/B	15 June 2021	WLPIS	96.64	54.99	601	594	D	-
2021-054A	Navstar 81 (USA 319)	17 June 2021	AFETR	717.99	55.05	20 191	20 174	C	-
2021-058D	CNCE 3	30 June 2021	WRAS	94.76	60.7	529	485	C	-
2021-058E	CNCE 1	30 June 2021	WRAS	94.76	60.7	529	485	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)		
2021-058G	HALO-Net Free Flyer	30 June 2021	WRAS	94.8	60.69	533	485	C	-
2021-058H	Gunsmoke-J 4	30 June 2021	WRAS	94.82	60.69	534	485	C	-
2021-059A	Starlink-3003	30 June 2021	AFETR	94.99	97.52	524	512	C	-
2021-059B	Starlink-3004	30 June 2021	AFETR	94.97	97.52	523	511	C	-
2021-059C	Starlink-3005	30 June 2021	AFETR	94.99	97.52	519	517	C	-
2021-059E	SpaceBEE-100	30 June 2021	AFETR	95.22	97.53	535	524	C	-
2021-059F	SpaceBEE-101	30 June 2021	AFETR	95.22	97.53	535	524	C	-
2021-059H	SpaceBEE-102	30 June 2021	AFETR	95.22	97.53	535	524	C	-
2021-059K	SpaceBEE-103	30 June 2021	AFETR	95.21	97.53	534	524	C	-
2021-059M	SpaceBEE-104	30 June 2021	AFETR	95.23	97.53	536	524	C	-
2021-059Q	SpaceBEE-106	30 June 2021	AFETR	95.21	97.53	535	523	C	-
2021-059R	SpaceBEE-107	30 June 2021	AFETR	95.21	97.53	534	523	C	-
2021-059S	SpaceBEE-108	30 June 2021	AFETR	95.21	97.53	535	523	C	-
2021-059T	SpaceBEE-105	30 June 2021	AFETR	95.23	97.53	535	524	C	-
2021-059U	SpaceBEE-109	30 June 2021	AFETR	95.21	97.53	535	523	C	-
2021-059W	SpaceBEE-110	30 June 2021	AFETR	95.2	97.53	534	522	C	-
2021-059Y	TROPICS Pathfinder	30 June 2021	AFETR	95.2	97.52	535	522	C	-
2021-059Z	LINCS 1	30 June 2021	AFETR	95.21	97.53	535	522	C	-
2021-059AA	LINCS 2	30 June 2021	AFETR	95.21	97.52	535	522	C	-
2021-059AB	SpaceBEE-111	30 June 2021	AFETR	95.19	97.53	534	521	C	-
2021-059AD	Umbra-SAR 2001	30 June 2021	AFETR	95.17	97.52	533	521	C	-
2021-059AE	Mandrake 2 Able	30 June 2021	AFETR	95.19	97.52	535	521	C	-
2021-059AF	Mandrake 2 Baker	30 June 2021	AFETR	95.2	97.52	535	522	C	-
2021-059AH	GNOMES 2	30 June 2021	AFETR	95.18	97.53	535	520	C	-
2021-059AJ	YAM 2	30 June 2021	AFETR	95.19	97.53	535	521	C	-
2021-059AL	Capella-5 (Whitney)	30 June 2021	AFETR	95.13	97.52	532	518	C	-
2021-059AN	YAM 3	30 June 2021	AFETR	95.19	97.52	535	520	C	-
2021-059BC	Lemur 2 Merima	30 June 2021	AFETR	95.11	97.52	535	512	C	-
2021-059BE	Hawk-3B	30 June 2021	AFETR	95.11	97.51	534	514	C	-
2021-059BF	SpaceBEE-92	30 June 2021	AFETR	95.05	97.52	533	510	C	-
2021-059BG	SpaceBEE-89	30 June 2021	AFETR	95.05	97.52	533	510	C	-
2021-059BH	SpaceBEE-96	30 June 2021	AFETR	95.06	97.52	533	510	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)		
2021-059BJ	SpaceBEE-88	30 June 2021	AFETR	95.05	97.52	533	510	C	-
2021-059BK	SpaceBEE-97	30 June 2021	AFETR	95.06	97.52	533	510	C	-
2021-059BL	SpaceBEE-94	30 June 2021	AFETR	95.05	97.52	533	510	C	-
2021-059BM	Lynk 06 (Shannon)	30 June 2021	AFETR	95.11	97.53	534	513	C	-
2021-059BN	SpaceBEE-93	30 June 2021	AFETR	95.05	97.52	533	510	C	-
2021-059BP	SpaceBEE-91	30 June 2021	AFETR	95.05	97.52	533	510	C	-
2021-059BQ	Sherpa-LTE 1	30 June 2021	AFETR	95.11	97.53	535	513	C	-
2021-059BU	SpaceBEE-95	30 June 2021	AFETR	95.06	97.52	533	510	C	-
2021-059BV	SpaceBEE-99	30 June 2021	AFETR	95.06	97.52	533	510	C	-
2021-059BW	SpaceBEE-90	30 June 2021	AFETR	95.05	97.52	533	510	C	-
2021-059BX	Hawk-3C	30 June 2021	AFETR	95.11	97.54	535	513	C	-
2021-059BY	SpaceBEE-98	30 June 2021	AFETR	95.06	97.52	533	510	C	-
2021-059CA	Astro Digital Demo 8 (Tenzing)	30 June 2021	AFETR	95.12	97.53	535	514	C	-
2021-059CF	Astro Digital Demo 9 (Aurora)	30 June 2021	AFETR	95.11	97.53	535	513	C	-
2021-059CG	Hawk-3A	30 June 2021	AFETR	95.11	97.52	535	513	C	-
2021-059CH	Sherpa-FX2	30 June 2021	AFETR	95.11	97.53	535	513	C	-
2021-068A	Monolith	29 July 2021	RLLC	96.77	37.02	608	599	A	-

The following objects not previously reported were identified after the last report and remained in orbit as at 2359Z on 31 July 2021:

None.

The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2359Z on 31 July 2021:

1998-067NV - - - - - - - 21 June 2021

The following objects achieved orbit after the last report but were no longer in orbit as at 2359Z on 31 July 2021:

2021-048A Dragon CRS-22 3 June 2021 AFETR 89.7 51.64 318 202 E 10 July 2021

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 2021:

2021-040BB - - - - - - - 2 June 2021  
 1998-067NJ - - - - - - - 10 June 2021  
 2019-021B - - - - - - - 15 June 2021  
 2020-012AS - - - - - - - 16 June 2021

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)		
2020-038V	-	-	-	-	-	-	-	-	19 June 2021
2019-029AW	-	-	-	-	-	-	-	-	26 June 2021
2020-035BL	-	-	-	-	-	-	-	-	27 June 2021
2020-038H	-	-	-	-	-	-	-	-	28 June 2021
2019-036J	-	-	-	-	-	-	-	-	2 July 2021
2021-013A	-	-	-	-	-	-	-	-	2 July 2021
2020-088L	-	-	-	-	-	-	-	-	5 July 2021
2019-022P	-	-	-	-	-	-	-	-	8 July 2021
2021-021AK	-	-	-	-	-	-	-	-	11 July 2021
2020-074A	-	-	-	-	-	-	-	-	14 July 2021
2020-070BH	-	-	-	-	-	-	-	-	18 July 2021
2020-085AB	-	-	-	-	-	-	-	-	19 July 2021
2020-062AU	-	-	-	-	-	-	-	-	25 July 2021
2021-040AF	-	-	-	-	-	-	-	-	28 July 2021
2020-001AW	-	-	-	-	-	-	-	-	29 July 2021
2020-006AC	-	-	-	-	-	-	-	-	30 July 2021
2020-012Y	-	-	-	-	-	-	-	-	31 July 2021

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; RLLC, Rocket Lab Launch Complex 1, Mahia Peninsula, New Zealand; TTMTR, Baikonur Cosmodrome, Kazakhstan; WLPIS, Wallops Island, United States.; 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