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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 8 September 2020 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 2020 (see annexes I and II).¹

The United States requests that the space objects contained in the annexes 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 annexes were entered into the Register of Objects Launched into Outer Space on 11 September 2020.



Annex I

Registration data on space launches by the United States of America for June 2020*

The following report supplements the registration data on United States space launches as at 30 June 2020.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects were launched since the last report and remain in orbit:								
2020-035A	Starlink 1440	4 June 2020	AFETR	89.98	53	339	208	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AA	Starlink 1396	4 June 2020	AFETR	91.83	53	367	362	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AB	Starlink 1397	4 June 2020	AFETR	91.84	53	367	362	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AC	Starlink 1399	4 June 2020	AFETR	91.83	53	367	362	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AD	Starlink 1401	4 June 2020	AFETR	91.85	53	368	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AE	Starlink 1402	4 June 2020	AFETR	91.85	53	367	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AF	Starlink 1404	4 June 2020	AFETR	91.84	53	367	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AG	Starlink 1406	4 June 2020	AFETR	90.99	53	352	294	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AH	Starlink 1408	4 June 2020	AFETR	91.01	53	353	295	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AJ	Starlink 1413	4 June 2020	AFETR	91.85	53	368	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AK	Starlink 1414	4 June 2020	AFETR	91.84	53	367	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AL	Starlink 1415	4 June 2020	AFETR	91.39	53	361	325	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AM	Starlink 1416	4 June 2020	AFETR	91.84	53	367	362	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AN	Starlink 1417	4 June 2020	AFETR	91.85	53	367	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

* 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
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
2020-035AP	Starlink 1419	4 June 2020	AFETR	91.85	53	367	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AQ	Starlink 1420	4 June 2020	AFETR	91.86	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AR	Starlink 1422	4 June 2020	AFETR	91.85	53	367	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AS	Starlink 1351	4 June 2020	AFETR	91.88	53	369	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AT	Starlink 1370	4 June 2020	AFETR	91.87	53	368	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AU	Starlink 1398	4 June 2020	AFETR	91.87	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AV	Starlink 1400	4 June 2020	AFETR	91.86	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AW	Starlink 1403	4 June 2020	AFETR	91.69	53	369	346	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AX	Starlink 1405	4 June 2020	AFETR	89.23	53	276	198	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AY	Starlink 1407	4 June 2020	AFETR	91.86	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035AZ	Starlink 1409	4 June 2020	AFETR	91.88	53	368	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035B	Starlink 1441	4 June 2020	AFETR	91.89	53	369	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BA	Starlink 1410	4 June 2020	AFETR	91.86	53	368	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BB	Starlink 1411	4 June 2020	AFETR	91.89	53	370	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BC	Starlink 1412	4 June 2020	AFETR	91.9	53	370	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BD	Starlink 1418	4 June 2020	AFETR	91.88	53	369	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BE	Starlink 1421	4 June 2020	AFETR	91.86	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BF	Starlink 1423	4 June 2020	AFETR	91.86	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
2020-035BG	Starlink 1433	4 June 2020	AFETR	91.88	53	368	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BH	Starlink 1434	4 June 2020	AFETR	91.39	53	362	323	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BJ	Starlink 1436	4 June 2020	AFETR	91.88	53	369	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BK	Starlink 1437	4 June 2020	AFETR	91.88	53	369	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BL	Starlink 1438	4 June 2020	AFETR	91.88	53	369	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035BM	Starlink 1439	4 June 2020	AFETR	90.52	53	342	258	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035C	Starlink 1442	4 June 2020	AFETR	91.88	53	369	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035D	Starlink 1443	4 June 2020	AFETR	91.88	53	369	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035E	Starlink 1444	4 June 2020	AFETR	91.87	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035F	Starlink 1445	4 June 2020	AFETR	91.87	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035G	Starlink 1446	4 June 2020	AFETR	91.87	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035H	Starlink 1447	4 June 2020	AFETR	91.88	53	368	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035J	Starlink 1448	4 June 2020	AFETR	91.89	53	369	366	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035K	Starlink 1449	4 June 2020	AFETR	91.82	53	367	361	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035L	Starlink 1450	4 June 2020	AFETR	91.85	53	368	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035M	Starlink 1451	4 June 2020	AFETR	91.87	53	368	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035N	Starlink 1452	4 June 2020	AFETR	91.87	53	369	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035P	Starlink 1453	4 June 2020	AFETR	91.43	53	358	331	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
2020-035Q	Starlink 1454	4 June 2020	AFETR	91.87	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035R	Starlink 1455	4 June 2020	AFETR	91.09	53	349	307	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035S	Starlink 1456	4 June 2020	AFETR	91.87	53	368	364	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035T	Starlink 1457	4 June 2020	AFETR	91.88	53	368	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035U	Starlink 1458	4 June 2020	AFETR	91.88	53	368	365	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035V	Starlink 1460	4 June 2020	AFETR	91.85	53	368	363	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035W	Starlink 1392	4 June 2020	AFETR	91.83	53	367	362	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035X	Starlink 1393	4 June 2020	AFETR	91.83	53	366	362	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035Y	Starlink 1394	4 June 2020	AFETR	91.83	53	367	362	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-035Z	Starlink 1395	4 June 2020	AFETR	91.48	53	356	338	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-037A	USA 301	13 June 2020	RLLC	96.4	97.1	590	584	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-037B	USA 302	13 June 2020	RLLC	96.4	97.7	590	584	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-037C	USA 303	13 June 2020	RLLC	96.4	97.7	590	584	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-037D	ANDESITE	13 June 2020	RLLC	96.52	97.71	602	581	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038A	Starlink 1461	13 June 2020	AFETR	94.08	53	475	473	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AA	Starlink 1477	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AB	Starlink 1478	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AC	Starlink 1484	13 June 2020	AFETR	92.15	53	380	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
2020-038AD	Starlink 1486	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AE	Starlink 1487	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AF	Starlink 1493	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AG	Starlink 1494	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AH	Starlink 1495	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AJ	Starlink 1499	13 June 2020	AFETR	92.14	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AK	Starlink 1501	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AL	Starlink 1502	13 June 2020	AFETR	92.14	53	380	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AM	Starlink 1508	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AN	Starlink 1509	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AP	Starlink 1511	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AQ	Starlink 1521	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AR	Starlink 1459	13 June 2020	AFETR	94.22	53	482	480	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AS	Starlink 1462	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AT	Starlink 1463	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AU	Starlink 1470	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AV	Starlink 1482	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AW	Starlink 1485	13 June 2020	AFETR	92.14	53	380	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
2020-038AX	Starlink 1488	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AY	Starlink 1489	13 June 2020	AFETR	92.14	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038AZ	Starlink 1490	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038B	Starlink 1465	13 June 2020	AFETR	94.13	53	477	475	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BA	Starlink 1491	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BB	Starlink 1492	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BC	Starlink 1496	13 June 2020	AFETR	92.14	53	380	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BD	Starlink 1497	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BE	Starlink 1498	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BF	Starlink 1505	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BG	Starlink 1510	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BH	Starlink 1512	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BJ	Starlink 1513	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BK	Starlink 1517	13 June 2020	AFETR	92.15	53	380	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BL	SkySat C14	13 June 2020	AFETR	92.55	53	401	397	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BM	SkySat C16	13 June 2020	AFETR	92.26	53	394	377	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038BN	SkySat C15	13 June 2020	AFETR	92.32	53	397	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038C	Starlink 1466	13 June 2020	AFETR	94.1	53	476	474	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
2020-038D	Starlink 1467	13 June 2020	AFETR	94.12	53	476	476	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038E	Starlink 1468	13 June 2020	AFETR	94.65	53	503	501	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038F	Starlink 1471	13 June 2020	AFETR	94.2	53	481	479	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038G	Starlink 1472	13 June 2020	AFETR	94.11	53	476	474	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038H	Starlink 1473	13 June 2020	AFETR	91.08	53	328	327	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038J	Starlink 1474	13 June 2020	AFETR	94.14	53	478	476	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038K	Starlink 1475	13 June 2020	AFETR	92.15	53	380	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038L	Starlink 1479	13 June 2020	AFETR	94.19	53	480	479	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038M	Starlink 1480	13 June 2020	AFETR	94.08	53	475	473	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038N	Starlink 1481	13 June 2020	AFETR	94.63	53	502	500	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038P	Starlink 1483	13 June 2020	AFETR	94.15	53	478	476	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038Q	Starlink 1500	13 June 2020	AFETR	94.6	53	500	498	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038R	Starlink 1503	13 June 2020	AFETR	94.21	53	481	480	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038S	Starlink 1504	13 June 2020	AFETR	94.61	53	501	499	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038T	Starlink 1506	13 June 2020	AFETR	94.62	53	501	499	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038U	Starlink 1507	13 June 2020	AFETR	94.22	53	482	480	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038V	Starlink 1516	13 June 2020	AFETR	92.14	53	380	378	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038W	Starlink 1391	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
2020-038X	Starlink 1464	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038Y	Starlink 1469	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-038Z	Starlink 1476	13 June 2020	AFETR	92.15	53	381	379	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-041A	Navstar 79 (USA 304)	30 June 2020	AFETR	717.96	55.07	20 199	20 164	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
Deployments from the International Space Station								
1998-067RM	RedEye 2 (Merlot)	20 November 1998; deployed on 17 June 2020	KM	92.92	51.64	418	417	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067RN	RedEye 3 (Cabernet)	20 November 1998; deployed on 23 June 2020	KM	92.92	51.64	419	416	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
The following objects not previously reported have been identified since the last report:								
None.								
The following objects not previously reported have been identified since the last report but are no longer in orbit as at 2359Z on 30 June 2020:								
None.								
The following objects achieved orbit since the last report but are no longer in orbit as at 2359Z on 30 June 2020:								
None.								
The following objects identified on a previous report are no longer in orbit as at 2359Z on 30 June 2020:								
None.								
The following objects were launched since the last report but did not achieve orbit:								
None.								
Revisions that should be made to previously reported data:								
None.								

Abbreviations: AFETR, United States Air Force Eastern Test Range; KM, International Space Station Kibo Module; RLLC, Rocket Lab Launch Complex, New Zealand.

Annex II

Registration data on space launches by the United States of America for July 2020*

The following report supplements the registration data on United States space launches as at 31 July 2020.

International designation	Name of the space object	Date of the launch	Location of the launch	Basic orbital characteristics				General function of the space object
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects were launched since the last report and remain in orbit:								
2020-046A	USA 305	15 July 2020	WLPIS	96.2	53.9	579	577	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-046B	USA 306	15 July 2020	WLPIS	96.2	53.9	579	577	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-046C	USA 307	15 July 2020	WLPIS	96.2	53.9	579	577	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-046D	USA 308	15 July 2020	WLPIS	96.2	53.9	579	577	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-046E	Minotaur 4 R/B	15 July 2020	WLPIS	96.2	53.9	579	577	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2020-048B	Falcon 9 R/B	20 July 2020	AFETR	828.4	27.5	45 481	197	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2020-052A	Mars 2020	30 July 2020	AFETR		Mars orbit			Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2020-052B	Atlas Centaur R/B	30 July 2020	AFETR		Heliocentric orbit			Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
Deployments from the International Space Station								
1998-067RP	DeMi	20 November 1998; deployed on 13 July 2020	KM	92.9	51.64	418	415	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
1998-067RQ	TechEdSat 10	20 November 1998; deployed on 13 July 2020	KM	92.87	51.64	418	410	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

The following objects not previously reported have been identified since the last report:

None.

* 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
				Nodal period (min)	Inclination (degrees)	Apogee (km)	Perigee (km)	
The following objects not previously reported have been identified since the last report but are no longer in orbit as at 2359Z on 31 July 2020:								
None.								
The following objects achieved orbit since the last report but are no longer in orbit as at 2359Z on 31 July 2020:								
None.								
The following objects identified on a previous report are no longer in orbit as at 2359Z on 31 July 2020:								
2020-035A								
The following objects were launched since the last report but did not achieve orbit:								
None.								
Revisions that should be made to previously reported data:								
None.								

Abbreviations: AFETR, United States Air Force Eastern Test Range; KM, International Space Station Kibo Module; WLPIS, Wallops Island, United States.