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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

Notes verbales dated 13 and 17 November 2003 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) presents its compliments to the Secretary-General of the United Nations and, 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 space launches by the United States for the period from July to October 2003 (see annex).

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Annex

Registration data on space launches by the United States of America for the period from July to October 2003*

July 2003

1. The following report supplements the registration data on United States launches as at 31 July 2003. All launches were made from the territory of the United States unless otherwise specified.

			Basic orbital characteristics				
International designation	*Name of space object*	*Date of launch*	*Nodal period (min)*	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	*General function of space object*
The following objects were launched since the last report and remain in orbit:							
2003-032A	Mars Rover B	8 July 2003	Parameters not available				Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2003-032B	Delta 2 R/B	8 July 2003	Parameters not available				Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2003-032C	Delta 2 R/B (1)	8 July 2003	159.0	26.0	6 523	168	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2003-033A	Rainbow 1	17 July 2003	703.0	17.5	35 805	3 817	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2003-033B	Centaur R/B	17 July 2003	690.1	17.6	35 191	3 789	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects

* The registration data are reproduced in the form in which they were received.

International designation	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following object not previously reported has been identified since the last report:							
2003-031F	Quakesat	30 June 2003	101.4	98.7	837	824	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 but were no longer in orbit as at 2400Z 31 July 2003:

None.

The following objects achieved orbit since the last report but were no longer in orbit as at 2400Z 31 July 2003:

None.

The following object identified in a previous report was no longer in orbit as at 2400Z 31 July 2003:

2000-040C

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.

August 2003

2. The following report supplements the registration data on United States launches as at 31 August 2003. All launches were made from the territory of the United States unless otherwise specified.

International designation	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects were launched since the last report and remain in orbit:							
2003-034A	Echostar 9	8 August 2003	95.6	0.07	900	192	Spacecraft engaged in practical applications and uses of space technology such as weather or communications

International designation	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
2003-036B	Pegasus R/B	13 August 2003	97.6	73.9	660	649	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2003-038A	SIRTF	25 August 2003	87.8	31.5	172	171	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2003-038B	Delta 2 R/B	25 August 2003	87.8	31.5	179	160	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2003-040A	USA 170	29 August 2003	606.4	25.3	34 469	238	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2003-040B	Delta 4 R/B	29 August 2003	604.9	25.4	34 401	227	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2003-040C	IABS	29 August 2003	605.5	25.3	34 434	231	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
The following objects not previously reported have been identified since the last report:							
1965-108BA	Titan 3C debris	21 December 1965	541.2	26.7	30 389	851	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1965-108BB	Titan 3C debris	21 December 1965	553.9	26.7	31 003	925	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1965-108BC	Titan 3C debris	21 December 1965	552.9	26.8	30 546	1 329	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1965-108BD	Titan 3C debris	21 December 1965	540.2	26.4	30 114	1 073	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects

International designation	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
1990-037D	HST debris	24 April 1990	94.5	28.5	513	475	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects

The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2400Z 31 August 2003:

None.

The following objects achieved orbit since the last report but were no longer in orbit as at 2400Z 31 August 2003:

None.

The following objects identified in a previous report were no longer in orbit as at 2400Z 31 August 2003:

1960-007D, 2003-003A, 2003-003B

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.

September 2003

3. The following report supplements the registration data on United States launches as at 30 September 2003. All launches were made from the territory of the United States unless otherwise specified.

International designation	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects were launched since the last report and remain in orbit:							
2003-041A	USA 171	9 September 2003	630.2	26.7	35 778	165	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2003-041B	Titan 4B Centaur R/B	9 September 2003	630.4	26.7	35 786	170	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects

International designation	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects not previously reported have been identified since the last report:							
1965-108BE	Titan 3C debris	21 December 1965	511.5	26.5	29 010	609	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1965-108BF	Titan 3C debris	21 December 1965	553.5	26.5	31 058	848	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1966-025J	OV1 5 debris	30 March 1966	101.4	144.5	850	801	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1978-064M	Seasat 1 debris	27 June 1978	99.6	108.0	748	733	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects

The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2400Z 30 September 2003:

None.

The following objects achieved orbit since the last report but were no longer in orbit as at 2400Z 30 September 2003:

None.

The following objects identified in a previous report were no longer in orbit as at 2400Z 30 September 2003:

1970-025KH, 1990-037D

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.

October 2003

4. The following report supplements the registration data on United States launches as at 31 October 2003. All launches were made from the territory of the United States unless otherwise specified.

International designation	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	
The following objects were launched since the last report and remain in orbit:							
2003-044A	Horizons 1 (Galaxy 13)	1 October 2003	673.2	0.1	35 734	2 397	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2003-048A	DMSP 5D-3 F16	18 October 2003	101.8	98.9	870	862	Spacecraft engaged in practical applications and uses of space technology such as weather or communications
2003-048B	DMSP 5D-3 F16 debris	18 October 2003	101.9	98.9	856	840	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
2003-048C	DMSP 5D-3 F16 debris	18 October 2003	101.8	98.9	850	842	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
The following objects not previously reported have been identified since the last report:							
2003-005F	Delta 2 debris	29 January 2003	100.8	39.5	804	792	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
1990-105AF	DMSP 5D-2 F10 debris	1 December 1990	100.3	98.2	826	719	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
The following objects not previously reported have been identified since the last report but were no longer in orbit as at 2400Z 31 October 2003:							
1978-064N	Seasat 1 debris	27 June 1978	92.6	107.0	418	390	Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
The following objects achieved orbit since the last report but were no longer in orbit as at 2400Z 31 October 2003:							
None.							

International designation	*Name of space object*	*Date of launch*	*Basic orbital characteristics*				*General function of space object*
			Nodal period (min)	*Inclination (degrees)*	*Apogee (km)*	*Perigee (km)*	

The following objects identified in a previous report were no longer in orbit as at 2400Z 31 October 2003:

1970-067F, 1978-026BF, 1994-029MF, 1994-029MT, 2002-034C

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.