



**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 29 March 2005 from the Permanent Mission of
France to the United Nations (Vienna) addressed to the Secretary-
General**

The Permanent Mission of France 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 submit information on space objects launched by France during the period from 1 July to 31 December 2004 (annex I), supplementary information on France's previously launched space objects (annex II) and amendments to information provided in document ST/SG/SER.E/445 (annex III).

The Permanent Mission of France to the United Nations (Vienna) also has the honour to inform the Secretary-General that, in conformity with article IV, paragraph 2, of the Registration Convention and in line with the recommendations of the Committee on the Peaceful Uses of Outer Space, the Helios 1B satellite, registered under international number 1999-064A (see ST/SG/SER.E/445), is no longer operational and that deorbiting manoeuvres commenced on 21 October 2004 to limit its lifetime, in accordance with the recommendations of the Inter-Agency Space Debris Coordination Committee.



Annex I

Registration data on space objects launched by France between 1 July and 31 December 2004*

Registration number	Date of launch	Launch site	Type of launcher	Basic orbital characteristics				General function of space object	Ariane launch number	Remarks	
				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)			Satellite launched	State/organization
2004 027 B	18 July 2004	Kourou, French Guiana	Ariane 5 G+	693	7.2	38 417	693	Ariane 5 storable propellant stage	V 163	ANIK F2	Canada
2004 049 A	18 December 2004	Kourou, French Guiana	Ariane 5 G+	98	98.0	670	670	Helios IIA military observation satellite	V 165	Helios II A Nanosat	France, Spain
2004 049 C	18 December 2004	Kourou, French Guiana	Ariane 5 G+	98	98.0	660	660	Essaim 1: characterization of Earth's electromagnetic environment		Essaim 1	France
2004 049 D	18 December 2004	Kourou, French Guiana	Ariane 5 G+	98	98.0	659	659	Essaim 2: characterization of Earth's electromagnetic environment		Essaim 2	France
2004 049 E	18 December 2004	Kourou, French Guiana	Ariane 5 G+	98	98.0	659	659	Essaim 3: characterization of Earth's electromagnetic environment		Essaim 3	France
2004 049 F	18 December 2004	Kourou, French Guiana	Ariane 5 G+	98	98.0	658	658	Essaim 4: characterization of Earth's electromagnetic environment		Essaim 4	France
2004 049 G	18 December 2004	Kourou, French Guiana	Ariane 5 G+	98	98.0	705	705	Polarization and Anisotropy of Reflectances for Atmospheric Sciences coupled with Observations from a Lidar (PARASOL) will be positioned with the Aqua and Aura satellites of the National Aeronautics and Space Administration (NASA) of the United States of America, the NASA/Centre national d'études spatiales satellite CALIPSO and the NASA/Canadian Space Agency		PARASOL	France

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

Registration number	Date of launch	Launch site	Type of launcher	Basic orbital characteristics				General function of space object	Remarks		
				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		Ariane launch number	Satellite launched	State/organization
				2004 049 G	18 December 2004	Kourou, French Guiana	Ariane 5 G+		98	98,0	705

Registration number	Date of launch	Launch site	Type of launcher	Basic orbital characteristics				General function of space object	Remarks		
				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		Ariane launch number	Satellite launched	State/organization
									Frequency plan:		
								Earth-Space	2033.2 MHz (telecommand)		
								Space-Earth	2208 MHz (housekeeping telemetry)		
									8253 MHz (scientific telemetry)		
								Lifetime:	1 year (nominal)		
									2 years (desired)		
2004 049 H	18 December 2004	Kourou, French Guiana	Ariane 5 G+	98	98.0	654	654	Ariane 5 storable propellant stage			

Note: France registers European Telecommunications Satellite Organization (EUTELSAT) satellites.

Annex II

Information provided by France in conformity with article IV, paragraph 3, of the Convention on Registration of Objects Launched into Outer Space on space objects registered by France that have re-entered the Earth's atmosphere since 1 January 2004*

<i>Registration number</i>	<i>Date of launch</i>	<i>General function of space object</i>	<i>Atmospheric re-entry</i>
1998 006 C	4 February 1998	Third stage of Ariane 4	3 March 2004
1994 070 B	1 November 1994	Third stage of Ariane 4	20 March 2004
2000 002 B	25 January 2004	Third stage of Ariane 4	16 April 2004
1997 049 D	2 September 1997	SPELDA inter-satellite structure	22 April 2004
1997 083 B	21 December 1997	Third stage of Ariane 4	3 May 2004
1992 072 F	28 October 1992	Non-functional launcher element	25 May 2004
1998 070 B	6 December 1998	Third stage of Ariane 4	12 July 2004
1965 096 D	26 November 1965	Non-functional Diamant launcher element	30 November 2004
2000 060 B	6 October 2000	Third stage of Ariane 4	12 December 2004

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

Annex III

Amendments to information provided by France in document ST/SG/SER.E/445*

Table 1
Amendments to information on space objects

Registration number	Date of launch	Launch site	Type of launcher	Basic orbital characteristics				General function of space object	Remarks
				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		
1968 084 A	3 October 1968	Western Test Range, USA	Scout B	89	97.3	237	211	Aurorae scientific satellite	Registered under wrong date of launch. Prior to 1 October 1969, registered as no. 1969 084 A. Date of atmospheric re-entry unknown.
1971 030 A	15 April 1971	Kourou, French Guiana	Diamant	88	46.3	158	155	D2A Tournesol scientific satellite	Erroneously described as D2A Polaire. Atmospheric re-entry on 28 January 1980.
1984 081 B	4 August 1984	Kourou, French Guiana	Ariane 3	1 463	9.2	36 460	36 179	Telecom 1A telecommunications satellite	Erroneously registered as no. 1984 081 A (European Space Agency (ESA) European Communications Satellite (ECS) 2)

Table 2
Space objects to be deleted

Registration number	Date of launch	Launch site	Type of launcher	Basic orbital characteristics				General function of space object	Remarks
				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		
1973 107 A	26 December 1973	USSR	Molniya	100	74.0	1 184	381	Auréole 2 scientific satellite	Deleted from national register; already registered by the USSR
1981 094 A	21 September 1981	USSR	Cyclone 3	103	82.5	1 448	390	Auréole 3 scientific satellite	Deleted from national register; already registered by the USSR
1988 063 B	21 July 1988	Kourou, French Guiana	Ariane 3	1 467	7.0	36 456	36 320	ECS 5 telecommunications satellite	Deleted from national register; already registered by ESA

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

Table 3
Space objects to be added

Registration number	Date of launch	Launch site	Type of launcher	Basic orbital characteristics				General function of space object	Remarks
				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		
1965 101 A	6 December 1965	Western Test Range, USA	Scout X-4	98.4	75.9	688	678	FR1 technological satellite	
1969 083A	1 October 1969	Western Test Range, USA	Scout B	88.0	85.0	180	180	ESRO 1B scientific satellite	Atmospheric re-entry on 23 November 1969
1972 092 A	22 November 1972	Western Test Range, USA	Scout D 1	88.0	91.0	255	177	ESRO 4 scientific satellite	Atmospheric re-entry on 15 April 1974
1975 039 A	17 May 1975	Hammaguir, Algeria	Diamant BP 4	91.0	30.0	406	232	D5A scientific satellite	Atmospheric re-entry on 4 January 1978
1975 039 B	17 May 1975	Hammaguir, Algeria	Diamant BP 4	89.5	30.0	300	200	D5B scientific satellite	Atmospheric re-entry on 18 February 1979
1975 039 C	17 May 1975	Hammaguir, Algeria	Diamant BP 4	88.6	30.0	225	186	Diamant launcher stage	Atmospheric re-entry on 7 August 1976
1975 039 D	17 May 1975	Hammaguir, Algeria	Diamant BP 4	86.6	30.0	104	104	Non-functional launcher element	Atmospheric re-entry on 26 September 1976
1975 039 E	17 May 1975	Hammaguir, Algeria	Diamant BP 4	95.5	30.0	828	261	Non-functional launcher element	Atmospheric re-entry on 18 June 1976
1975 039 F	17 May 1975	Hammaguir, Algeria	Diamant BP 4	89.1	30.0	249	210	Non-functional launcher element	Atmospheric re-entry on 30 September 1976
1975 039 G	17 May 1975	Hammaguir, Algeria	Diamant BP 4	90.9	30.0	518	122	Non-functional launcher element	Atmospheric re-entry on 29 November 1978
1975 049 B	5 June 1975	USSR	SL-6	90.1	63.3	420	135	SRET 2 scientific satellite	Atmospheric re-entry on 10 July 1988
1975 092 A	27 September 1975	Hammaguir, Algeria	Diamant BP 4	88.2	37.1	187	184	D2B scientific satellite	Atmospheric re-entry on 30 September 1982
1975 092 B	27 September 1975	Hammaguir, Algeria	Diamant BP 4	88.1	37.1	181	177	Diamant launcher stage	Atmospheric re-entry on 30 March 1982
1975 092 C	27 September 1975	Hammaguir, Algeria	Diamant BP 4	92.4	37.1	395	387	Non-functional launcher element	Atmospheric re-entry on 17 October 1978

Registration number	Date of launch	Launch site	Type of launcher	Basic orbital characteristics				General function of space object	Remarks
				Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)		
1975 092 D	27 September 1975	Hammaguir, Algeria	Diamant BP 4	94.5	37.1	540	449	Non-functional launcher element	Atmospheric re-entry on 16 May 1978
1975 092 E	27 September 1975	Hammaguir, Algeria	Diamant BP 4	91.9	37.1	372	362	Non-functional launcher element	Atmospheric re-entry on 27 October 1978
1975 092 F	27 September 1975	Hammaguir, Algeria	Diamant BP 4	90.7	37.1	333	284	Non-functional launcher element	Atmospheric re-entry on 1 January 1980
1975 092 G	27 September 1975	Hammaguir, Algeria	Diamant BP 4	92.4	37.1	424	364	Non-functional launcher element	Atmospheric re-entry on 20 November 1979
1977 102 B	22 October 1977	Cape Canaveral, USA	Delta 2914	3 438.0	8.7	137 956	224	ISEE B scientific satellite	Atmospheric re-entry on 26 September 1987
1978 044 A	11 May 1978	Cape Canaveral, USA	Delta 2914	1 452.4	13.7	36 145	36 067	OTS2 telecommunications satellite	