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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

Letter dated 22 June 1993 from the Legal Counsellor of the
European Space Agency addressed to the Secretary-General

In conformity with the Convention on Registration of Objects Launched into Outer Space, to which the European Space Agency has acceded, I have the honour to inform you of the objects launched into outer space after 21 July 1988 from the Kourou Space Centre (French department of Guiana).

Attached please find information on:

- EURECA
- ERS-1
- METEOSTAT 4
- METEOSTAT 5
- ULYSSES
- HIPPARCOS
- OLYMPUS - 1
- MARECS-A-EXP
- MARECS-B-ATL

Annex I

[Original: English]

REGISTER OF OBJECTS LAUNCHED INTO OUTER SPACE

(United Nations General Assembly resolution 3235 (XXIX))

(a) Name of space object: EURECA

(b) Name of launching authority: European Space Agency (ESA)

(c) Designator: ESA/92/01

(d) Date of launch/location of launch site: 31 July 1992
Kennedy Space Centre
Cape Canaveral, Florida,
United States of America

(e) Orbital parameters:

(i) period (min): 93

(ii) inclination (deg): 28.5

(iii) apogee distance (km): 426

(iv) perigee distance (km): 426

(v) position on geostationary orbit (deg. E): -

(f) General description and mission of space object:

EURECA is a European scientific and technology mission, launched by the United States/Space Transportation System. The spacecraft is scheduled to be retrieved likewise by the United States/Space Transportation System in late spring/early summer 1993.

(g) Frequency plan: 2053,4583 MHz/2230 MHz
28 GHz/18GHz (data-relay via OLYMPUS)

(h) State of jurisdiction:

(i) Other information:

Annex II

[Original: English]

REGISTER OF OBJECTS LAUNCHED INTO OUTER SPACE

(United Nations General Assembly resolution 3235 (XXIX))

(a) Name of space object: ERS-1

(b) Name of launching authority: European Space Agency (ESA)

(c) Designator: ESA/91/02

(d) Date of launch/location of launch site: 17 July 1991
1:46:31 UT
Kourou (French Guiana)

(e) Orbital parameters:

(i) period (min): 101

(ii) inclination (deg): 98.5

(iii) apogee distance (km): 785

(iv) perigee distance (km): 785

(v) position on geostationary orbit (deg. E): n.a.

(f) General description and mission of space object:

ERS-1 is an Earth exploration satellite, using active and passive sensors for oceanography etc.

(g) Frequency plan: 2048,8542 MHz/2225 MHz (TTC)
7225,2960 MHz/8489 MHz (PRARE)
8040 MHz}
8140 MHz} Data transmission

(h) State of jurisdiction:

(i) Other information:

Annex III

[Original: English]

REGISTER OF OBJECTS LAUNCHED INTO OUTER SPACE

(United Nations General Assembly resolution 3235 (XXIX))

(a) Name of space object: METEOSAT 4

(b) Name of launching authority: European Space Agency (ESA)

(c) Designator: ESA/89/01

(d) Date of launch/location of launch site: 6 March 1989
23:29:00 UT
Kourou (French Guiana)

(e) Orbital parameters:

(i) period (min): 1436.069 (sidereal day)

(ii) inclination (deg): < 1 deg

(iii) apogee distance (km): }
} 35 785
(iv) perigee distance (km): }

(v) position on geostationary orbit (deg. E): 0

(f) General description and mission of space object:

METEOSAT 4 is a geostationary meteorological satellite, operating within the world-wide network of the World Weather Watch of the World Meteorological Organization (WMO). Its main missions are:

- imaging in the visible, infrared and water vapour region of the spectrum

- data reception from so-called Data Collection Platforms (DCPs)

- data distribution to meteorological services and other interested parties (research institutes, etc.)

(g) Frequency plan: 136 - 138 MHz (S-E)
148 - 149.9 MHz (E-S)
401 - 403 MHz (E-S)
1670 - 1700 MHz (S-E)
2025 - 2110 MHz (E-S)

(h) State of jurisdiction: The ownership of METEOSAT 4 has been transferred to EUMETSAT by an act of transfer signed by both parties on 19 June 1989.

(i) Other information:

Annex IV

[Original: English]

REGISTER OF OBJECTS LAUNCHED INTO OUTER SPACE

(United Nations General Assembly resolution 3235 (XXIX))

(a) Name of space object: METEOSAT 5

(b) Name of launching authority: European Space Agency (ESA)

(c) Designator: ESA/91/01

(d) Date of launch/location of launch site: 2 March 1991
23:36:00 UT
Kourou (French Guiana)

(e) Orbital parameters:

(i) period (min): 1436.069 (sidereal day)

(ii) inclination (deg): < 1 deg

(iii) apogee distance (km): }
} 35 785
(iv) perigee distance (km): }

(v) position on geostationary orbit (deg. E): 0

(f) General description and mission of space object:

METEOSAT 5 is a geostationary meteorological satellite, operating within the world-wide network of the World Weather Watch of the World Meteorological Organization (WMO). Its main missions are:

- imaging in the visible, infrared and water vapour region of the spectrum

- data reception from so-called Data Collection Platforms (DCPs)

- data distribution to meteorological services and other interested parties (research institutes, etc.)

(g) Frequency plan: 136 - 138 MHz (S-E)
148 - 149.9 MHz (E-S)
401 - 403 MHz (E-S)
1670 - 1700 MHz (S-E)
2025 - 2110 MHz (E-S)

(h) State of jurisdiction: The ownership of METEOSAT 5 has been transferred to EUMETSAT by an act of transfer signed by both parties on 14 January 1992.

(i) Other information:

Annex V

[Original: English]

REGISTER OF OBJECTS LAUNCHED INTO OUTER SPACE

(United Nations General Assembly resolution 3235 (XXIX))

(a) Name of space object: ULYSSES

(b) Name of launching authority: European Space Agency (ESA)

(c) Designator: ESA/90/01

(d) Date of launch/location of launch site: 6 October 1990
Kennedy Space Centre
Cape Canaveral, Florida,
United States of America

(e) Orbital parameters:

(i) period (min):

(ii) inclination (deg): interplanetary trajectory into a polar flyby over the sun

(iii) apogee distance (km):

(iv) perigee distance (km):

(v) position on geostationary orbit (deg. E):

(f) General description and mission of space object:

ULYSSES is a scientific spacecraft, within the framework of the international solar/polar mission. It will be the first spacecraft to fly over the poles of the sun.

(g) Frequency plan: 2111,6073 MHz/2293,1481 MHz
8408,2099 MHz

(h) State of jurisdiction:

(i) Other information:

Annex VI

[Original: English]

REGISTER OF OBJECTS LAUNCHED INTO OUTER SPACE

(United Nations General Assembly resolution 3235 (XXIX))

(a) Name of space object: HIPPARCOS

(b) Name of launching authority: European Space Agency (ESA)

(c) Designator: ESA/89/03

(d) Date of launch/location of launch site: 8 August 1989
23:25:53 UT
Kourou (French Guiana)

(e) Orbital parameters:

(i) period (min): 1440

(ii) inclination (deg): 7.0

(iii) apogee distance (km): 35 950

(iv) perigee distance (km): 475

(v) position on geostationary orbit (deg. E): -

(f) General description and mission of space object:

scientific satellite for astrometry

(g) Frequency plan: 2054.25 MHz/2241 MHz

(h) State of jurisdiction:

(i) Other information:

Annex VII

[Original: English]

REGISTER OF OBJECTS LAUNCHED INTO OUTER SPACE

(United Nations General Assembly resolution 3235 (XXIX))

(a) Name of space object: OLYMPUS-1

(b) Name of launching authority: European Space Agency (ESA)

(c) Designator: ESA/89/02

(d) Date of launch/location of launch site: 17 July 1989
00:14:00 UT
Kourou (French Guiana)

(e) Orbital parameters:

(i) period (min): 1436.069 (sidereal day)

(ii) inclination (deg):

(iii) apogee distance (km):

(iv) perigee distance (km):

(v) position on geostationary orbit (deg. E): 341

(f) General description and mission of space object:

OLYMPUS-1 is a multi-payload communications satellite for direct TV broadcast in the bands of the 1977 Geneva Plan of the International Telecommunication Union (ITU) (including a national beam to Italy) plus communication transponders in the 14/12 GHz, 2nd 30/20 GHz bands. The latter are also used for a data relay experiment with ESA's EURECA satellite.

(g) Frequency plan: 2026,7542 MHz/2201 MHz
14 GHz/ 12 GHz
17 GHz/ 12 GHz TV BSS
28 GHz/ 19 GHz

(h) State of jurisdiction:

(i) Other information:

Annex VIII

[Original: English]

REGISTER OF OBJECTS LAUNCHED INTO OUTER SPACE

(United Nations General Assembly resolution 3235 (XXIX))

(a) Name of space object: MARECS-A-EXP

(b) Name of launching authority: European Space Agency (ESA)

(c) Designator: ESA/81/06

(d) Date of launch/location of launch site:

Move of MARECS-A Spacecraft to a new position on the geostationary orbit (GSO) (old position: 334E)

(e) Orbital parameters:

(i) period (min):

(ii) inclination (deg):

(iii) apogee distance (km):

(iv) perigee distance (km):

(v) position on geostationary orbit (deg. E): 22.5

(f) General description and mission of space object:

MARECS-A is a geostationary maritime mobile communication satellite, which after being decommissioned from the International Maritime Satellite Organization (INMARSAT) services, is used by ESA for experimental purposes.

(g) Frequency plan:

As in initial filing.

(h) State of jurisdiction:

(i) Other information:

Annex IX

[Original: English]

REGISTER OF OBJECTS LAUNCHED INTO OUTER SPACE

(United Nations General Assembly resolution 3235 (XXIX))

(a) Name of space object: MARECS-B-ATL

(b) Name of launching authority: European Space Agency (ESA)

(c) Designator: ESA/84/3

(d) Date of launch/location of launch site:

Move of MARECS-B Spacecraft to a new position on the GSO (old position: 177.5E)

(e) Orbital parameters:

(i) period (min):

(ii) inclination (deg):

(iii) apogee distance (km):

(iv) perigee distance (km):

(v) position on geostationary orbit (deg. E): 345

(f) General description and mission of space object:

As in initial filing.

(g) Frequency plan:

As in initial filing.

(h) State of jurisdiction:

(i) Other information:
