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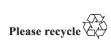
## Committee on the Peaceful Uses of Outer Space

Information furnished in conformity with General Assembly resolution 1721 B (XVI) by States launching objects into orbit or beyond

Note verbale dated 8 February 2021 from the Permanent Mission of Luxembourg to the United Nations (Vienna) addressed to the Secretary-General

The Permanent Mission of Luxembourg to the United Nations (Vienna) has the honour to transmit, in accordance with paragraph 1 of General Assembly resolution 1721 B (XVI) of 20 December 1961, information concerning objects launched into Earth orbit or beyond by Luxembourg as at 31 January 2021 (see annex).<sup>1</sup>

<sup>&</sup>lt;sup>1</sup> The data on space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 5 March 2021.





## Annex

## List of Luxembourg space objects (as at January 2021)\*

1. Committee on Space Research

international designator

1988-109B

Name of space object

ASTRA 1A

Launch date

11 December 1988

Launch site

Kourou, French Guiana

Launcher

Ariane

Owner of object

Société Européenne des Satellites

(SES ASTRA S.A.)

Date of decommissioning

10 December 2004

Orbital characteristics

The satellite is in a graveyard orbit, at a minimum perigee altitude of 400 km above

the geostationary orbit

2. Committee on Space Research

international designator

1991-015A

Name of space object

Launch date

ASTRA 1B 2 March 1991

Launch site

Kourou, French Guiana

Launcher

Ariane

Owner of object

SES ASTRA S.A.

Date of decommissioning

12 July 2006

Orbital characteristics

The satellite is in a graveyard orbit, at a minimum perigee altitude of 500 km above

the geostationary orbit

3. Committee on Space Research

international designator

1993-031A

Name of space object ASTRA 1C Launch date 12 May 1993

Launch site Kourou, French Guiana

Launcher Ariane

Owner of object SES ASTRA S.A.

Date of decommissioning 31 July 2014

Orbital characteristics The satellite is in a graveyard orbit, at a

minimum perigee altitude of 387 km above

the geostationary orbit

4. Committee on Space Research

international designator

1994-070A

Name of space object ASTRA 1D

Launch date 31 October 1994

Launch site Kourou, French Guiana

Launcher Ariane

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

Owner of object SES ASTRA S.A.

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination Uncontrolled inclination since 22 October

2007. Orbital inclination is therefore increasing over time and was 9.2 degrees on

10 Appear 2020

10 August 2020

Apogee 35,820 km Perigee 35,752 km

Longitude 73.0 degrees West since 30 November 2017

General purpose of object Encrypted and unencrypted transmission of

radio, television and multimedia data services and of occasional-use services

5. Committee on Space Research

international designator

1995-055A

Name of space object ASTRA 1E

Launch date 19 October 1995

Launch site Kourou, French Guiana

Launcher Ariane

Owner of object SES ASTRA S.A.

Date of decommissioning 12 June 2015

Orbital characteristics The satellite is in a graveyard orbit, at a

minimum perigee altitude of 390 km above

the geostationary orbit

6. Committee on Space Research

international designator

1996-021A

Name of space object ASTRA 1F Launch date 8 April 1996

Launch site Baikonur, Kazakhstan

Launcher Proton

Owner of object SES ASTRA S.A.

Date of decommissioning 4 November 2020

Orbital characteristics The satellite is in a graveyard orbit, at a

minimum perigee altitude of 312 km above

the geostationary orbit

7. Committee on Space Research

international designator

1997-076A

Name of space object ASTRA 1G

Launch date 2 December 1997

Launch site Baikonur, Kazakhstan

Launcher Proton

Owner of object SES ASTRA S.A.

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

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Maximum inclination Uncontrolled inclination since 23 May 2014.

Orbital inclination is therefore increasing over time and was 4.7 degrees on 10 August

2020

Apogee 35,820 km Perigee 35,752 km

Longitude 63.24 degrees East since 18 August 2019

General purpose of object Encrypted and unencrypted transmission of

radio, television and multimedia data

services

8. Committee on Space Research

international designator

1998-050A

Name of space object ASTRA 2A

Launch date 30 August 1998

Launch site Baikonur, Kazakhstan

Launcher Proton

Owner of object SES ASTRA S.A.

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination Uncontrolled inclination since 10 August

2018. Orbital inclination is therefore increasing over time and was 1.8 degrees on

10 August 2020

Apogee 35,820 km Perigee 35,752 km

Longitude 28 degrees East since 6 August 2020

General purpose of object Encrypted and unencrypted transmission of

radio, television and multimedia data

services

9. Committee on Space Research

international designator

1999-033A

Name of space object ASTRA 1H Launch date 18 June 1999

Launch site Baikonur, Kazakhstan

Launcher Proton

Owner of object SES ASTRA S.A.

Date of decommissioning 12 October 2019

Orbital characteristics The satellite is in a graveyard orbit, at a minimum perigee altitude of 340 km above

the geostationary orbit

10. Committee on Space Research

international designator

2000-054A

Name of space object ASTRA 2B

Launch date 14 September 2000

Launch site Kourou, French Guiana

Launcher Ariane 5

Owner of object SES ASTRA S.A.

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination Uncontrolled inclination since 7 June 2014.

Orbital inclination is therefore increasing over time and was 4.6 degrees on 10 August

2020

Apogee 35,820 km Perigee 35,752 km

Longitude 19.6 degrees East since 1 October 2019

General purpose of object Encrypted and unencrypted transmission of

radio, television and multimedia data

services

11. Committee on Space Research

international designator

2000-081A

Name of space object ASTRA 2D

Launch date 20 December 2000

Launch site Kourou, French Guiana

Launcher Ariane 5

Owner of object SES ASTRA S.A.

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination Uncontrolled inclination since 22 April

2014. Orbital inclination is therefore increasing over time and was 5.9 degrees on

10 August 2020

Apogee 35,820 km Perigee 35,752 km

Longitude 57.25 degrees East since 5 March 2020

General purpose of object Encrypted and unencrypted transmission of

radio, television and multimedia data

services

12. Committee on Space Research

international designator

2001-025A

Name of space object ASTRA 2C Launch date 16 June 2001

Launch site Baikonur, Kazakhstan

Launcher Proton

Owner of object SES ASTRA S.A.

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination Uncontrolled inclination since 9 November

2016. Orbital inclination is therefore

increasing over time and was 3.0 degrees on

5/18

10 August 2020

Apogee 35,820 km Perigee 35,752 km

V 21-02246

Longitude 23.7 degrees East since 23 May 2018

General purpose of object Encrypted and unencrypted transmission of

radio, television and multimedia data

services

13. Committee on Space Research

international designator

2002-015B

Name of space object ASTRA 3A

Launch date 29 March 2002

Launch site Kourou, French Guiana

Launcher Ariane 4

Owner of object SES ASTRA S.A.

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination Uncontrolled inclination since 29 March

2012. Orbital inclination is therefore

increasing over time and was 6.0 degrees on

10 August 2020

Apogee 35,820 km Perigee 35,752 km

Longitude 86.85 degrees West since 6 December 2019

General purpose of object Encrypted and unencrypted transmission of

radio, television and multimedia data services; occasional-use services and very small aperture terminal (VSAT) services

14. Committee on Space Research

international designator

2006-012A

Name of space object ASTRA 1KR Launch date 20 April 2006

Launch site Cape Canaveral, United States of America

Launcher Atlas V

Owner of object SES ASTRA S.A. (through its subsidiary

SES ASTRA 1KR)

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination0.10 degreesApogee35,820 kmPerigee35,752 km

Longitude 19.2 degrees East

General purpose of object Encrypted and unencrypted transmission of

radio, television and multimedia data

services

15. Committee on Space Research

international designator

2007-016A

Name of space object ASTRA 1L Launch date 4 May 2007

Launch site Kourou, French Guiana

Launcher Ariane 5

Owner of object SES ASTRA S.A. (through its subsidiary

SES ASTRA 1L)

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination0.10 degreesApogee35,820 kmPerigee35,752 km

Longitude 19.2 degrees East

General purpose of object Encrypted and unencrypted transmission of

radio, television, multimedia data and

broadband services

16. Committee on Space Research

international designator

2008-057A

Name of space object ASTRA 1M

Launch date 5 November 2008

Launch site Baikonur, Kazakhstan
Launcher Proton-M/Breeze-M

Owner of object SES ASTRA S.A. (through its subsidiary

SES ASTRA 1M)

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination0.10 degreesApogee35,820 kmPerigee35,752 km

Longitude 19.2 degrees East

General purpose of object Encrypted and unencrypted transmission of

radio, television and multimedia data

services

17. Committee on Space Research

international designator

2010-021A

Name of space object ASTRA 3B Launch date 21 May 2010

Launch site Kourou, French Guiana

Launcher Ariane 5

Owner of object SES ASTRA S.A. (through its subsidiary

SES 3B)

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination 0.10 degrees
Apogee 35,820 km
Perigee 35,752 km

Longitude 23.5 degrees East since 10 June 2010

General purpose of object Encrypted and unencrypted transmission of

radio, television, multimedia data, VSAT and

broadband services

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18. Committee on Space Research

international designator

2011-041A

Name of space object ASTRA 1N

Launch date 6 August 2011

Launch site Kourou, French Guiana

Launcher Ariane 5

Owner of object SES ASTRA S.A. (through its subsidiary

SES 1N)

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination 0.10 degrees
Apogee 35,820 km
Perigee 35,752 km

Longitude 19.2 degrees East since 28 February 2014
General purpose of object Encrypted and unencrypted transmission of

radio, television, multimedia data, VSAT and

broadband services

19. Committee on Space Research

international designator

2011-058C

Name of space object Vesselsat 1

Launch date 12 October 2011 Launch site Sriharikota, India

Launcher PSLV-CA

Owner of object LuxSpace S.A.

Orbital characteristics

Nodal period 102.10 minutes Maximum inclination 20.00 degrees

Apogee 867 km Perigee 847 km

General purpose of object The object is still in orbit but is no longer

operational

20. Committee on Space Research

international designator

2012-051A

Name of space object ASTRA 2F

Launch date 28 September 2012
Launch site Kourou, French Guiana

Launcher Ariane 5

Owner of object SES ASTRA S.A. (through its subsidiary

SES ASTRA 2F)

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination0.10 degreesApogee35,820 kmPerigee35,752 km

Longitude 28.2 degrees East

General purpose of object Encrypted and unencrypted transmission of

radio, television, multimedia data, VSAT and

broadband services

21. Committee on Space Research

international designator

2012-001B

Name of space object Vesselsat 2

Launch date 9 January 2012

Launch site Taiyuan LC-9, China

Launcher Chang Zheng 4B Y26

Owner of object LuxSpace S.A.

Orbital characteristics The satellite has not been in orbit since

27 October 2016

22. Committee on Space Research

international designator

2013-056A

Name of space object ASTRA 2E

Launch date 29 September 2013

Launch site Baikonur, Kazakhstan

Launcher Proton-M/Breeze-M

Owner of object SES ASTRA S.A. (through its subsidiary

SES ASTRA 2E)

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination 0.10 degrees
Apogee 35,820 km
Perigee 35,752 km

Longitude 28.5 degrees East since 31 July 2015

General purpose of object Encrypted and unencrypted transmission of

radio, television, multimedia data, VSAT and

broadband services

23. Committee on Space Research

international designator

2014-011B

Name of space object ASTRA 5B Launch date 22 March 2014

Launch site Kourou, French Guiana

Launcher Ariane 5

Owner of object SES ASTRA S.A. (through its subsidiary

SES ASTRA 5B)

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination0.10 degreesApogee35,820 kmPerigee35,752 km

Longitude 31.5 degrees East

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General purpose of object Encrypted and unencrypted transmission of

radio, television, multimedia data, VSAT and

broadband services

24. Committee on Space Research

international designator

2014-089A

Name of space object ASTRA 2G

Launch date 27 December 2014

Launch site Baikonur, Kazakhstan

Launcher Proton-M/Breeze-M

Owner of object SES ASTRA S.A. (through its subsidiary

SES ASTRA 2G)

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination0.10 degreesApogee35,820 kmPerigee35,752 km

Longitude 28.2 degrees East since 16 June 2015

General purpose of object Encrypted and unencrypted transmission of

radio, television, multimedia data and broadband services and of governmental and

institutional communication services

25. Committee on Space Research

international designator

2018-013A

Name of space object Govsat-1 (SES-16)
Launch date 31 January 2018

Launch site Cape Canaveral, United States

Launcher SpaceX Falcon 9
Owner of object LuxGovSat S.A.

Orbital characteristics

Nodal period 1,435.8–1,436.4 minutes

Maximum inclination0.05 degreesApogee35,820 kmPerigee35,752 km

Longitude 21.42 degrees East

General purpose of object Provision of governmental and institutional

communication services

26. Committee on Space Research

international designator

2018-111J

Name of space object FM91, LEMUR 2 Remy-Colton

Launch date 27 December 2018

Launch site Vostochny Cosmodrome, Russian Federation

Launcher Soyuz 2.1 a

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 96.2 minutes

11/18

Maximum inclination 97.73 degrees

Apogee 576 km Perigee 576 km

Longitude of the ascending

node

139.3 degrees

General purpose of object Earth exploration and meteorology

("Automatic Identification System" (AIS), "Automatic Dependent Surveillance-Broadcast" (ADS-B), "Global Navigation

Satellite System Radio

Occultation/Reflectometry" (GNSS-RO/R))

27. Committee on Space Research

international designator

2018-111K

Name of space object FM92, LEMUR 2 Gustavo

Launch date 27 December 2018

Launch site Vostochny Cosmodrome, Russian Federation

Launcher Soyuz 2.1 a

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 96.2 minutes

Maximum inclination 97.72 degrees

Apogee 577 km

Perigee 577 km

Longitude of the ascending

node

139.3 degrees

General purpose of object Earth exploration and meteorology (AIS,

ADS-B, GNSS-RO/R)

28. Committee on Space Research

international designator

2018-111G

Name of space object FM93, LEMUR 2 ChristinaHolt

Launch date 27 December 2018

Launch site Vostochny Cosmodrome, Russian Federation

Launcher Soyuz 2.1 a

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 96.2 minutes

Maximum inclination 97.73 degrees

Apogee 574 km

Perigee 574 km

Longitude of the ascending

node

139.3 degrees

General purpose of object Earth exploration and meteorology

(AIS, ADS-B, GNSS-RO/R)

29. Committee on Space Research

international designator

2018-111L

Name of space object FM94, LEMUR 2 Zo

V 21-02246

Launch date 27 December 2018

Launch site Vostochny Cosmodrome, Russian Federation

Launcher Soyuz 2.1 a

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 96.2 minutes

Maximum inclination 97.72 degrees

Apogee 579 km

Perigee 579 km

Longitude of the ascending

node

139.3 degrees

General purpose of object Earth exploration and meteorology

(AIS, ADS-B, GNSS-RO/R)

30. Committee on Space Research

international designator

2018-111H

Name of space object FM95, LEMUR 2 Tinykev

Launch date 27 December 2018

Launch site Vostochny Cosmodrome, Russian Federation

Launcher Soyuz 2.1 a

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 96.2 minutes

Maximum inclination 97.73 degrees

Apogee 575 km

Perigee 575 km

Longitude of the ascending

node

139.3 degrees

Earth exploration and meteorology

(AIS, ADS-B, GNSS-RO/R)

31. Committee on Space Research

General purpose of object

international designator

2018-111N

Name of space object FM96, LEMUR 2 SarahBettyBoo

Launch date 27 December 2018

Launch site Vostochny Cosmodrome, Russian Federation

Launcher Soyuz 2.1 a

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 96.2 minutes
Maximum inclination 97.72 degrees
Apogee 582 km
Perigee 582 km

Longitude of the ascending

node

139.3 degrees

General purpose of object Earth exploration and meteorology

(AIS, ADS-B, GNSS-RO/R)

32. Committee on Space Research

international designator

2018-111M

Name of space object FM97, LEMUR 2 NatalieMurray

Launch date 27 December 2018

Launch site Vostochny Cosmodrome, Russian Federation

Launcher Soyuz 2.1 a

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 96.2 minutes

Maximum inclination 97.72 degrees

Apogee 580 km

Perigee 580 km

Longitude of the ascending

node

139.3 degrees

General purpose of object Earth exploration and meteorology

(AIS, ADS-B, GNSS RO/R)

33. Committee on Space Research

international designator

2018-111P

Name of space object FM98, LEMUR 2 Daisy-Harper

Launch date 27 December 2018

Launch site Vostochny Cosmodrome, Russian Federation

Launcher Soyuz 2.1 a

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 96.2 minutes

Maximum inclination 97.72 degrees

Apogee 584 km

Perigee 584 km

Longitude of the ascending

node

139.3 degrees

General purpose of object Earth exploration and meteorology

(AIS, ADS-B, GNSS-RO/R)

34. Committee on Space Research

international designator

2019-018G

Name of space object FM99, LEMUR 2 JohanLoran

Launch date 1 April 2019

Launch site Sriharikota, Andhra Pradesh, India

Launcher PSLV

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 94.6 minutes Maximum inclination 97.4 degrees

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Apogee 512.4 km Perigee 495.8 km Longitude of the ascending 140.7 degrees

General purpose of object Earth exploration and meteorology

(AIS, ADS-B, GNSS-RO/R)

35. Committee on Space Research

international designator

2019-018H

FM100, LEMUR 2 Beaudacious Name of space object

Launch date 1 April 2019

Launch site Sriharikota, Andhra Pradesh, India

Launcher **PSLV** 

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 94.6 minutes Maximum inclination 97.4 degrees Apogee 513.1 km Perigee 496.1 km Longitude of the ascending

node

140.7 degrees

General purpose of object Earth exploration and meteorology

(AIS, ADS-B, GNSS-RO/R)

36. Committee on Space Research

international designator

2019-018J

Name of space object FM101, LEMUR 2 Elham

Launch date 1 April 2019

Launch site Sriharikota, Andhra Pradesh, India

**PSLV** Launcher

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 94.5 minutes Maximum inclination 97.4 degrees 511.8 km Apogee Perigee 495.1 km Longitude of the ascending 140.7 degrees

node

General purpose of object Earth exploration and meteorology

(AIS, ADS-B, GNSS-RO/R)

37. Committee on Space Research

international designator

2019-018K

Name of space object FM102, LEMUR 2 Victor-Andrew

Launch date 1 April 2019

Launch site Sriharikota, Andhra Pradesh, India

Launcher **PSLV** 

Owner of object Spire Global Luxembourg

14/18 V 21-02246 Orbital characteristics

Nodal period 94.5 minutes Maximum inclination 97.4 degrees 511.6 km Apogee 495.1 km Perigee Longitude of the ascending 140.7 degrees

node

Earth exploration and meteorology (AIS, ADS-B, GNSS-RO/R)

38. Committee on Space Research

General purpose of object

international designator

2020-068S

Name of space object FM144, LEMUR 2 Susurrus

Launch date 28 September 2020

Launch site Plesetsk, Russian Federation

Launcher Soyuz 2.1 b/Fregat

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 96.0 minutes Maximum inclination 97.66 degrees Apogee 575 km 575 km Perigee

Longitude of the ascending

node

28.38 degrees

General purpose of object Earth exploration and meteorology; testing

of inter-satellite links

39. Committee on Space Research

international designator

2020-068Q

Name of space object FM145, LEMUR 2 Slicers

Launch date 28 September 2020

Launch site Plesetsk, Russian Federation

Launcher Soyuz 2.1 b/Fregat

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 96.0 minutes Maximum inclination 97.66 degrees Apogee 575 km Perigee 575 km Longitude of the ascending

node

28.38 degrees

General purpose of object Earth exploration and meteorology; testing

of inter-satellite links

40. Committee on Space Research

international designator

1998-067RW

Name of space object FM137, LEMUR 2 Baxter-Oliver,

LEMUR 2 v4.7

V 21-02246 15/18 Launch date 3 October 2020

Launch site Wallops Island, Virginia, United States of

America

Launcher Antares

Date of deployment 5 November 2020 (date of deployment from

the International Space Station)

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 93.1 minutes

Maximum inclination 51.6 degrees

Apogee 421 km

Perigee 409 km

Longitude of the ascending

node

8.25 degrees (right ascension of the ascending node, M50 reference frame)

General purpose of object Earth exploration and meteorology; testing

of inter-satellite links

41. Committee on Space Research

international designator

1998-067RU

Name of space object FM142, LEMUR 2 Djara, LEMUR 2 V4.8

Launch date 3 October 2020

Launch site Wallops Island, Virginia, United States of

America

Launcher Antares

Date of deployment 5 November 2020 (date of deployment from

the International Space Station)

Owner of object Spire Global Luxembourg

Orbital characteristics

Nodal period 93.1 minutes

Maximum inclination 51.6 degrees

Apogee 421 km

Perigee 409 km

Longitude of the ascending

node

8.57 degrees (RAAN, M50)

General purpose of object Earth exploration and meteorology

(AIS, ADS-B, GNSS-RO/R)

42. Committee on Space Research

international designator

2020-081H

Name of space object KSM1-a

Launch date 7 November 2020

Launch site Sriharikota, Andhra Pradesh, India

Launcher PSLV C49

Owner of object Kleos Space S.A.

Orbital characteristics

Nodal period 96 minutes
Maximum inclination 37 degrees

Apogee 576.60 km Perigee 569.97 km

Longitude of the ascending

ode

99.44 degrees (RAAN)

General purpose of object Passive geolocation of radio transmissions

in order to provide radio frequency scouting

data in relation to maritime activities

43. Committee on Space Research

international designator

2020-081K

Name of space object KSM1-b

Launch date 7 November 2020

Launch site Sriharikota, Andhra Pradesh, India

Launcher PSLV C49

Owner of object Kleos Space S.A.

Orbital characteristics

Nodal period 96 minutes
Maximum inclination 37 degrees
Apogee 576.60 km
Perigee 569.97 km

Longitude of the ascending

node

99.44 degrees (RAAN)

General purpose of object Passive geolocation of radio transmissions

in order to provide radio frequency scouting

data in relation to maritime activities

44. Committee on Space Research

international designator

2020-081C

Name of space object KSM1-c

Launch date 7 November 2020

Launch site Sriharikota, Andhra Pradesh, India

Launcher PSLV C49

Owner of object Kleos Space S.A.

Orbital characteristics

Nodal period 96 minutes
Maximum inclination 37 degrees
Apogee 576.60 km
Perigee 569.97 km

Longitude of the ascending

node

99.44 degrees (RAAN)

General purpose of object Passive geolocation of radio transmissions

in order to provide radio frequency scouting

17/18

data in relation to maritime activities

45. Committee on Space Research

international designator

2020-081B

Name of space object KSM1-d

Launch date 7 November 2020

Launch site Sriharikota, Andhra Pradesh, India

V 21-02246

Launcher PSLV C49

Owner of object Kleos Space S.A.

Orbital characteristics

Nodal period 96 minutes
Maximum inclination 37 degrees
Apogee 576.60 km
Perigee 569.97 km

Longitude of the ascending

node

99.44 degrees (RAAN)

General purpose of object Passive geolocation of radio transmissions

in order to provide radio frequency scouting

data in relation to maritime activities