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**Information furnished in conformity with the Convention
on Registration of Objects Launched into Outer Space****Note verbale dated 28 January 2025 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), 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 a list of space objects registered by Luxembourg (see annex).¹

¹ The data on the space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 7 February 2025.



[Original: English]

Information provided in conformity with article IV of the Convention on Registration of Objects Launched into Outer Space*

Submission date: 17 January 2025

Table 1
New space object registrations

Committee on Space Research international designator	Name of the space object	Date and time of the launch (UTC)	Location of the launch	State of registry	Basic orbital parameters					General function of the space object	Additional voluntary information		
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	Geostationary position (degrees East)		Owner or operator	Launch vehicle	Date of entry of record into the National Registry
2024-115A	SES-24/ ASTRA 1P	20 June 2024, 2135 hours and 0 seconds	Cape Canaveral, United States of America	Luxembourg	1,436	0.10	35 820	35 752	19.2	Encrypted and unencrypted transmission of radio, television, multimedia data, very small aperture terminal (VSAT) and broadband services	SES LU Satellites Holdings S.à. r.l.	SpaceX Falcon 9	17 January 2025
2024-149DP	FM196, LEMUR-2 LLOYD	16 August 2024	Vandenberg Space Force Base, United States	Luxembourg	96.52	97.75	601.9	596.5	-	Earth exploration and meteorology	Spire Global Luxembourg S.à. r.l.	SpaceX Falcon 9	25 October 2024
2024-149DR	FM197, LEMUR-2 SIERRINI	16 August 2024	Vandenberg Space Force Base, United States	Luxembourg	96.51	97.75	600.6	596.2	-	Earth exploration and meteorology	Spire Global Luxembourg S.à. r.l.	SpaceX Falcon 9	25 October 2024
2024-149DQ	FM198, LEMUR-2 SQUIRREL COMM	16 August 2024	Vandenberg Space Force Base, United States	Luxembourg	96.43	97.74	598.6	590.6	-	Earth exploration and meteorology	Spire Global Luxembourg S.à. r.l.	SpaceX Falcon 9	25 October 2024
2024-149DN	FM199, LEMUR-2 AHMED- ASRAR	16 August 2024	Vandenberg Space Force Base, United States	Luxembourg	96.41	97.75	598.3	589.4	-	Earth exploration and meteorology	Spire Global Luxembourg S.à. r.l.	SpaceX Falcon 9	25 October 2024

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

Table 2
Additional information on previously registered space objects

		Additional information as recommended in General Assembly resolution 62/101			Additional voluntary information for use in the United Nations Register of Objects Launched into Outer Space						
Committee on Space Research international designator	Name of the space object	Date when no longer functional ("Date of Decommissioning" according to the Luxembourg Registry of Space Objects)	Physical conditions when moved to a disposal orbit ^a	Date of decay/ re-entry/deorbit	Changes to basic orbital parameters					Basic information	
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	Geostationary position (degrees East)	Other information	Date of entry of record into the National Registry
2018-111J	FM91, LEMUR 2 REMY-COLTON	The satellite has been decommissioned. However, the operator did not provide the date of decommissioning	-	-	-	-	-	-	-	-	17 January 2025
2018-111K	FM92, LEMUR 2 GUSTAVO	The satellite has been decommissioned. However, the operator did not provide the date of decommissioning	-	-	-	-	-	-	-	-	17 January 2025
2018-111G	FM93, LEMUR 2 CHRISTINAHOLT	The satellite has been decommissioned. However, the operator did not provide the date of decommissioning	-	-	-	-	-	-	-	-	17 January 2025
2018-111L	FM94, LEMUR 2 ZO	The satellite has been decommissioned. However, the operator did not provide the date of decommissioning	-	-	-	-	-	-	-	-	17 January 2025
2018-111H	FM95, LEMUR 2 TINYKEV	2 January 2025	-	-	87.421	97.509	157.7	150	-	The satellite has been decommissioned. The most recent orbital parameters are presented herein	17 January 2025
2018-111N	FM96, LEMUR 2 SARAHBETTYBOO	The satellite has been decommissioned. However, the operator did not provide the date of decommissioning	-	-	-	-	-	-	-	-	17 January 2025
2018-111M	FM97, LEMUR 2 NATALIEMURRAY	The satellite has been decommissioned. However, the operator did not provide the date of decommissioning	-	-	-	-	-	-	-	-	17 January 2025
2018-111P	FM98, LEMUR 2 DAISY-HARPER	The satellite has been decommissioned. However, the operator did not provide the date of decommissioning	-	-	-	-	-	-	-	-	17 January 2025

Committee on Space Research international designator	Name of the space object	Additional information as recommended in General Assembly resolution 62/101			Additional voluntary information for use in the United Nations Register of Objects Launched into Outer Space						
		Date when no longer functional ("Date of Decommissioning" according to the Luxembourg Registry of Space Objects)	Physical conditions when moved to a disposal orbit ^a	Date of decay/ re-entry/deorbit	Changes to basic orbital parameters				Basic information		
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	Geostationary position (degrees East)	Other information	Date of entry of record into the National Registry
2020-068S	FM144, LEMUR 2 SUSURRUS	9 October 2024	-	-	87.725	97.427	175.4	162.5	-	The satellite has been decommissioned. The most recent orbital parameters are presented herein	17 January 2025
2020-068Q	FM145, LEMUR 2 SLICERS	9 October 2024	-	-	87.659	97.715	171	160.4	-	The satellite has been decommissioned. The most recent orbital parameters are presented herein	17 January 2025
2021-059G	FM139, LEMUR-2 JACKSON	9 February 2024	-	-	88.14	97.52	197.8	181.1	-	The satellite has re-entered Earth's atmosphere. The orbital parameters from the satellite's last contact are presented herein	25 October 2024
2021-059AW	FM140, LEMUR-2 ANNABANANA	12 July 2024	-	-	87.46	97.53	166.2	145.3	-	The satellite has re-entered Earth's atmosphere. The orbital parameters from the satellite's last contact are presented herein	25 October 2024
2021-059BA	FM148, LEMUR-2 AC-CUBED	19 February 2024	-	-	88.13	97.59	195.4	182.2	-	The satellite has re-entered Earth's atmosphere. The orbital parameters from the satellite's last contact are presented herein	25 October 2024
2022-002AP	FM149, LEMUR-2 RAMONAMAE	29 May 2024	-	-	87.68	97.38	176.6	156.5	-	The satellite has re-entered Earth's atmosphere. The orbital parameters from the satellite's last contact are presented herein	25 October 2024
2022-002BY	FM152, LEMUR-2 MIRIWARI	29 June 2024	-	-	87.38	97.36	160.9	142.8	-	The satellite has re-entered Earth's atmosphere. The orbital parameters from the satellite's last contact are presented herein	25 October 2024

Committee on Space Research international designator	Name of the space object	Additional information as recommended in General Assembly resolution 62/101			Additional voluntary information for use in the United Nations Register of Objects Launched into Outer Space						
		Date when no longer functional (“Date of Decommissioning” according to the Luxembourg Registry of Space Objects)	Physical conditions when moved to a disposal orbit ^a	Date of decay/ re-entry/deorbit	Changes to basic orbital parameters				Basic information		
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	Geostationary position (degrees East)	Other information	Date of entry of record into the National Registry
2022-002CC	FM153, LEMUR-2 DJIRANG	29 June 2024	-	-	87.67	97.35	176.7	155.4	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024
2022-002BE	FM154, LEMUR-2 ROHOVITHSA	3 August 2024	-	-	88.30	97.36	207.9	187.5	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024
2022-057A	FM162, LEMUR-2 TENNYSONLILY	11 March 2024	-	-	87.45	97.54	163.6	147.0	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024
2022-057B	FM155, LEMUR-2 VANDENDRIES	21 May 2024	-	-	87.55	97.54	172.6	148.2	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024
2022-057E	FM163, LEMUR-2 KAREN_B	31 January 2024	-	-	88.36	97.53	207.1	193.3	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024
2022-057J	FM161, LEMUR-2 HANCOM-1	26 July 2024	-	-	87.22	97.57	153.7	134.0	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024
2022-057AP	FM156, LEMUR-2 MIMI1307	3 May 2024	-	-	88.35	97.55	209.7	190.3	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024

Committee on Space Research international designator	Name of the space object	Additional information as recommended in General Assembly resolution 62/101			Additional voluntary information for use in the United Nations Register of Objects Launched into Outer Space						
		Date when no longer functional (“Date of Decommissioning” according to the Luxembourg Registry of Space Objects)	Physical conditions when moved to a disposal orbit ^a	Date of decay/ re-entry/deorbit	Changes to basic orbital parameters				Basic information		
					Nodal period (minutes)	Inclination (degrees)	Apogee (km)	Perigee (km)	Geostationary position (degrees East)	Other information	Date of entry of record into the National Registry
2022-033AP	KSF2–A	-	-	13 August 2024	-	-	-	-	-	-	27 November 2024
2022-033AJ	KSF2–C	-	-	16 August 2024	-	-	-	-	-	-	27 November 2024
2023-001AE	FM164, LEMUR-2 EMMACULATE	23 May 2024	-	-	87.51	97.40	166.4	149.8	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024
2023-001F	FM165, LEMUR-2 DISCLAIMER	28 July 2024	-	-	87.60	97.39	173.0	152.7	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024
2023-001E	FM166, LEMUR-2 PHILARI	12 August 2024	-	-	88.64	97.39	222.6	205.8	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024
2023-001AF	FM167, LEMUR-2 MMOLO	20 October 2024	-	-	88.434	97.388	210.2	198	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	17 January 2025
2023-001J	FM168, LEMUR-2 STEVEALBERS	20 September 2024	-	-	87.76	97.37	179.0	162.0	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024
2023-001CH	FM169, LEMUR-2 FUENTETAJA-01	4 August 2024	-	-	88.45	97.41	214.1	195.6	-	The satellite has re-entered Earth’s atmosphere. The orbital parameters from the satellite’s last contact are presented herein	25 October 2024

^a See the Space Debris Mitigation Guidelines of the Committee on the Peaceful Uses of Outer Space ([ST/SPACE/49](#)).