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## **Information furnished in conformity with the Convention on Registration of Objects Launched into Outer Space**

### **Note verbale dated 12 November 2024 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), 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 objects launched into outer space by the United States for September 2024 (see annex).<sup>1</sup>

The United States requests that the space objects contained in the annex to the present document be placed on the Register of Objects Launched into Outer Space maintained by the United Nations. In submitting this request, the United States notes that, consistent with its long-standing registration practice, the United States is not necessarily a launching State for each of the space objects it registers. The United States makes this request in the spirit of contributing to the practical effectiveness of the treaties and is providing information to the greatest extent practicable.

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<sup>1</sup> The data on the space objects referenced in the annex were entered into the Register of Objects Launched into Outer Space on 2 December 2024.



## A. Registration data on space launches by the United States of America for September 2024\*

The following report supplements the registration data on United States space launches as at 30 September 2024.

| International designation                                                                                         | Name of the space object | Date of the launch | Location of the launch | Basic orbital characteristics |                       |             |              | General function of the space object | Date of decay |
|-------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|------------------------|-------------------------------|-----------------------|-------------|--------------|--------------------------------------|---------------|
|                                                                                                                   |                          |                    |                        | Nodal period (minutes)        | Inclination (degrees) | Apogee (km) | Perigee (km) |                                      |               |
| The following objects were launched after the last report and remained in orbit as at 2359Z on 30 September 2024: |                          |                    |                        |                               |                       |             |              |                                      |               |
| 2024-158B                                                                                                         | Starlink-11289           | 5 September 2024   | AFETR                  | 91.33                         | 53.16                 | 341         | 339          | C                                    | -             |
| 2024-158C                                                                                                         | Starlink-11282           | 5 September 2024   | AFETR                  | 91.74                         | 53.16                 | 361         | 359          | C                                    | -             |
| 2024-158D                                                                                                         | Starlink-11283           | 5 September 2024   | AFETR                  | 91.74                         | 53.16                 | 361         | 359          | C                                    | -             |
| 2024-158E                                                                                                         | Starlink-11267           | 5 September 2024   | AFETR                  | 91.74                         | 53.16                 | 360         | 359          | C                                    | -             |
| 2024-158F                                                                                                         | Starlink-11269           | 5 September 2024   | AFETR                  | 91.74                         | 53.16                 | 361         | 359          | C                                    | -             |
| 2024-158G                                                                                                         | Starlink-11281           | 5 September 2024   | AFETR                  | 91.74                         | 53.16                 | 361         | 359          | C                                    | -             |
| 2024-158H                                                                                                         | Starlink-11260           | 5 September 2024   | AFETR                  | 90.42                         | 53.14                 | 296         | 295          | C                                    | -             |
| 2024-158J                                                                                                         | Starlink-11287           | 5 September 2024   | AFETR                  | 91.74                         | 53.16                 | 361         | 358          | C                                    | -             |
| 2024-158K                                                                                                         | Starlink-11270           | 5 September 2024   | AFETR                  | 91.74                         | 53.16                 | 361         | 359          | C                                    | -             |
| 2024-158L                                                                                                         | Starlink-11290           | 5 September 2024   | AFETR                  | 91.74                         | 53.16                 | 361         | 359          | C                                    | -             |
| 2024-158M                                                                                                         | Starlink-11274           | 5 September 2024   | AFETR                  | 91.74                         | 53.16                 | 361         | 359          | C                                    | -             |
| 2024-158N                                                                                                         | Starlink-11288           | 5 September 2024   | AFETR                  | 91.72                         | 53.16                 | 359         | 358          | C                                    | -             |
| 2024-158P                                                                                                         | Starlink-32279           | 5 September 2024   | AFETR                  | 93.53                         | 53.16                 | 448         | 446          | C                                    | -             |
| 2024-158Q                                                                                                         | Starlink-32336           | 5 September 2024   | AFETR                  | 93.53                         | 53.16                 | 448         | 446          | C                                    | -             |
| 2024-158R                                                                                                         | Starlink-32284           | 5 September 2024   | AFETR                  | 93.53                         | 53.16                 | 448         | 446          | C                                    | -             |
| 2024-158S                                                                                                         | Starlink-32282           | 5 September 2024   | AFETR                  | 93.53                         | 53.16                 | 448         | 447          | C                                    | -             |
| 2024-158T                                                                                                         | Starlink-32360           | 5 September 2024   | AFETR                  | 91.06                         | 53.14                 | 327         | 326          | C                                    | -             |
| 2024-158U                                                                                                         | Starlink-32340           | 5 September 2024   | AFETR                  | 91.86                         | 53.16                 | 367         | 365          | C                                    | -             |
| 2024-158V                                                                                                         | Starlink-32357           | 5 September 2024   | AFETR                  | 91.86                         | 53.16                 | 367         | 365          | C                                    | -             |
| 2024-158W                                                                                                         | Starlink-32347           | 5 September 2024   | AFETR                  | 93.53                         | 53.16                 | 448         | 446          | C                                    | -             |
| 2024-160A                                                                                                         | USA 400                  | 6 September 2024   | AFWTR                  | 90.58                         | 70                    | 307         | 299          | C                                    | -             |
| 2024-160B                                                                                                         | USA 401                  | 6 September 2024   | AFWTR                  | 90.62                         | 69.99                 | 316         | 294          | C                                    | -             |

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

| International designation | Name of the space object | Date of the launch | Location of the launch | Basic orbital characteristics |                       |             |              | General function of the space object | Date of decay |
|---------------------------|--------------------------|--------------------|------------------------|-------------------------------|-----------------------|-------------|--------------|--------------------------------------|---------------|
|                           |                          |                    |                        | Nodal period (minutes)        | Inclination (degrees) | Apogee (km) | Perigee (km) |                                      |               |
| 2024-160C                 | USA 402                  | 6 September 2024   | AFWTR                  | 90.58                         | 69.94                 | 323         | 283          | C                                    | -             |
| 2024-160D                 | USA 403                  | 6 September 2024   | AFWTR                  | 90.55                         | 69.99                 | 314         | 289          | C                                    | -             |
| 2024-160E                 | USA 404                  | 6 September 2024   | AFWTR                  | 90.56                         | 70                    | 312         | 292          | C                                    | -             |
| 2024-160F                 | USA 405                  | 6 September 2024   | AFWTR                  | 90.57                         | 70.01                 | 312         | 293          | C                                    | -             |
| 2024-160G                 | USA 406                  | 6 September 2024   | AFWTR                  | 90.63                         | 70.01                 | 313         | 298          | C                                    | -             |
| 2024-160H                 | USA 407                  | 6 September 2024   | AFWTR                  | 90.57                         | 69.94                 | 319         | 286          | C                                    | -             |
| 2024-160J                 | USA 408                  | 6 September 2024   | AFWTR                  | 90.59                         | 69.95                 | 322         | 285          | C                                    | -             |
| 2024-160K                 | USA 409                  | 6 September 2024   | AFWTR                  | 90.53                         | 69.96                 | 318         | 283          | C                                    | -             |
| 2024-160L                 | USA 410                  | 6 September 2024   | AFWTR                  | 90.56                         | 69.96                 | 320         | 284          | C                                    | -             |
| 2024-160M                 | USA 411                  | 6 September 2024   | AFWTR                  | 90.59                         | 69.95                 | 322         | 285          | C                                    | -             |
| 2024-160N                 | USA 412                  | 6 September 2024   | AFWTR                  | 90.59                         | 70.01                 | 312         | 295          | C                                    | -             |
| 2024-160P                 | USA 413                  | 6 September 2024   | AFWTR                  | 90.68                         | 69.92                 | 327         | 289          | C                                    | -             |
| 2024-160Q                 | USA 414                  | 6 September 2024   | AFWTR                  | 90.65                         | 70                    | 310         | 303          | C                                    | -             |
| 2024-160R                 | USA 415                  | 6 September 2024   | AFWTR                  | 90.52                         | 69.94                 | 316         | 284          | C                                    | -             |
| 2024-160S                 | USA 416                  | 6 September 2024   | AFWTR                  | 90.67                         | 70                    | 311         | 304          | C                                    | -             |
| 2024-160T                 | USA 417                  | 6 September 2024   | AFWTR                  | 90.65                         | 70.01                 | 312         | 301          | C                                    | -             |
| 2024-160U                 | USA 418                  | 6 September 2024   | AFWTR                  | 90.58                         | 70.01                 | 311         | 295          | C                                    | -             |
| 2024-160V                 | USA 419                  | 6 September 2024   | AFWTR                  | 90.6                          | 70.01                 | 313         | 295          | C                                    | -             |
| 2024-160W                 | USA 420                  | 6 September 2024   | AFWTR                  | 90.54                         | 69.99                 | 312         | 289          | C                                    | -             |
| 2024-163A                 | Spacemobile-003          | 12 September 2024  | AFETR                  | 94.9                          | 52.98                 | 523         | 504          | C                                    | -             |
| 2024-163B                 | Spacemobile-005          | 12 September 2024  | AFETR                  | 94.89                         | 52.98                 | 523         | 503          | C                                    | -             |
| 2024-163C                 | Spacemobile-001          | 12 September 2024  | AFETR                  | 94.88                         | 52.97                 | 523         | 503          | C                                    | -             |
| 2024-163D                 | Spacemobile-002          | 12 September 2024  | AFETR                  | 94.87                         | 52.98                 | 522         | 503          | C                                    | -             |
| 2024-163E                 | Spacemobile-004          | 12 September 2024  | AFETR                  | 94.85                         | 52.98                 | 521         | 502          | C                                    | -             |
| 2024-164A                 | Starlink-11286           | 13 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 340         | 339          | C                                    | -             |
| 2024-164B                 | Starlink-11252           | 13 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 340         | 339          | C                                    | -             |
| 2024-164C                 | Starlink-11284           | 13 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 341         | 339          | C                                    | -             |
| 2024-164D                 | Starlink-11230           | 13 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 341         | 339          | C                                    | -             |
| 2024-164E                 | Starlink-11294           | 13 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 341         | 339          | C                                    | -             |

| International designation | Name of the space object | Date of the launch | Location of the launch | Basic orbital characteristics |                       |             |              | General function of the space object | Date of decay |
|---------------------------|--------------------------|--------------------|------------------------|-------------------------------|-----------------------|-------------|--------------|--------------------------------------|---------------|
|                           |                          |                    |                        | Nodal period (minutes)        | Inclination (degrees) | Apogee (km) | Perigee (km) |                                      |               |
| 2024-164F                 | Starlink-11268           | 13 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 341         | 339          | C                                    | -             |
| 2024-164G                 | Starlink-11156           | 13 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 341         | 338          | C                                    | -             |
| 2024-164H                 | Starlink-11231           | 13 September 2024  | AFWTR                  | 91.74                         | 53.16                 | 360         | 359          | C                                    | -             |
| 2024-164J                 | Starlink-11299           | 13 September 2024  | AFWTR                  | 91.74                         | 53.16                 | 360         | 359          | C                                    | -             |
| 2024-164K                 | Starlink-11154           | 13 September 2024  | AFWTR                  | 91.74                         | 53.16                 | 361         | 359          | C                                    | -             |
| 2024-164L                 | Starlink-11297           | 13 September 2024  | AFWTR                  | 91.74                         | 53.16                 | 361         | 359          | C                                    | -             |
| 2024-164M                 | Starlink-11233           | 13 September 2024  | AFWTR                  | 91.74                         | 53.16                 | 360         | 359          | C                                    | -             |
| 2024-164N                 | Starlink-11236           | 13 September 2024  | AFWTR                  | 91.74                         | 53.16                 | 361         | 359          | C                                    | -             |
| 2024-164P                 | Starlink-32350           | 13 September 2024  | AFWTR                  | 93.53                         | 53.16                 | 448         | 446          | C                                    | -             |
| 2024-164Q                 | Starlink-32378           | 13 September 2024  | AFWTR                  | 93.53                         | 53.16                 | 448         | 446          | C                                    | -             |
| 2024-164R                 | Starlink-32321           | 13 September 2024  | AFWTR                  | 93.53                         | 53.16                 | 448         | 446          | C                                    | -             |
| 2024-164S                 | Starlink-32381           | 13 September 2024  | AFWTR                  | 93.24                         | 53.16                 | 434         | 433          | C                                    | -             |
| 2024-164T                 | Starlink-32368           | 13 September 2024  | AFWTR                  | 93.01                         | 53.16                 | 424         | 420          | C                                    | -             |
| 2024-164U                 | Starlink-32385           | 13 September 2024  | AFWTR                  | 93.53                         | 53.16                 | 448         | 446          | C                                    | -             |
| 2024-164V                 | Starlink-32380           | 13 September 2024  | AFWTR                  | 93.53                         | 53.16                 | 448         | 446          | C                                    | -             |
| 2024-164W                 | Starlink-32375           | 13 September 2024  | AFWTR                  | 93.34                         | 53.16                 | 439         | 437          | C                                    | -             |
| 2024-167C                 | Falcon R/B               | 17 September 2024  | AFETR                  | 834.23                        | 55.41                 | 23 006      | 22 947       | D                                    | -             |
| 2024-171A                 | Starlink-11209           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |
| 2024-171B                 | Starlink-11257           | 20 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 340         | 339          | C                                    | -             |
| 2024-171C                 | Starlink-11309           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 341         | 339          | C                                    | -             |
| 2024-171D                 | Starlink-11292           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |
| 2024-171E                 | Starlink-11302           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 341         | 339          | C                                    | -             |
| 2024-171F                 | Starlink-11277           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 341         | 339          | C                                    | -             |
| 2024-171G                 | Starlink-11279           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |
| 2024-171H                 | Starlink-11091           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |
| 2024-171J                 | Starlink-11291           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |
| 2024-171K                 | Starlink-11304           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |
| 2024-171L                 | Starlink-11307           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |
| 2024-171M                 | Starlink-11298           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |

| International designation | Name of the space object | Date of the launch | Location of the launch | Basic orbital characteristics |                       |             |              | General function of the space object | Date of decay |
|---------------------------|--------------------------|--------------------|------------------------|-------------------------------|-----------------------|-------------|--------------|--------------------------------------|---------------|
|                           |                          |                    |                        | Nodal period (minutes)        | Inclination (degrees) | Apogee (km) | Perigee (km) |                                      |               |
| 2024-171N                 | Starlink-11310           | 20 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 341         | 339          | C                                    | -             |
| 2024-171P                 | Starlink-32386           | 20 September 2024  | AFWTR                  | 93.27                         | 53.16                 | 435         | 434          | C                                    | -             |
| 2024-171Q                 | Starlink-32392           | 20 September 2024  | AFWTR                  | 93.47                         | 53.16                 | 445         | 444          | C                                    | -             |
| 2024-171R                 | Starlink-32436           | 20 September 2024  | AFWTR                  | 93.37                         | 53.16                 | 440         | 439          | C                                    | -             |
| 2024-171S                 | Starlink-32425           | 20 September 2024  | AFWTR                  | 93.86                         | 53.16                 | 464         | 463          | C                                    | -             |
| 2024-171T                 | Starlink-32342           | 20 September 2024  | AFWTR                  | 93.58                         | 53.16                 | 450         | 449          | C                                    | -             |
| 2024-171U                 | Starlink-32423           | 20 September 2024  | AFWTR                  | 93.78                         | 53.16                 | 460         | 459          | C                                    | -             |
| 2024-171V                 | Starlink-32248           | 20 September 2024  | AFWTR                  | 92.94                         | 53.16                 | 419         | 418          | C                                    | -             |
| 2024-175A                 | Starlink-11300           | 25 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 340         | 339          | C                                    | -             |
| 2024-175B                 | Starlink-11276           | 25 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |
| 2024-175C                 | Starlink-11280           | 25 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |
| 2024-175D                 | Starlink-11308           | 25 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 340         | 339          | C                                    | -             |
| 2024-175E                 | Starlink-11305           | 25 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 341         | 339          | C                                    | -             |
| 2024-175F                 | Starlink-11317           | 25 September 2024  | AFWTR                  | 91.33                         | 53.15                 | 341         | 339          | C                                    | -             |
| 2024-175G                 | Starlink-11293           | 25 September 2024  | AFWTR                  | 91.33                         | 53.16                 | 340         | 339          | C                                    | -             |
| 2024-175H                 | Starlink-11334           | 25 September 2024  | AFWTR                  | 90.95                         | 53.16                 | 323         | 319          | C                                    | -             |
| 2024-175J                 | Starlink-11319           | 25 September 2024  | AFWTR                  | 91.26                         | 53.16                 | 337         | 336          | C                                    | -             |
| 2024-175K                 | Starlink-11318           | 25 September 2024  | AFWTR                  | 91.18                         | 53.16                 | 333         | 332          | C                                    | -             |
| 2024-175L                 | Starlink-11311           | 25 September 2024  | AFWTR                  | 91.12                         | 53.16                 | 330         | 329          | C                                    | -             |
| 2024-175M                 | Starlink-11306           | 25 September 2024  | AFWTR                  | 91.05                         | 53.16                 | 327         | 325          | C                                    | -             |
| 2024-175N                 | Starlink-11313           | 25 September 2024  | AFWTR                  | 90.99                         | 53.16                 | 324         | 322          | C                                    | -             |
| 2024-175P                 | Starlink-32431           | 25 September 2024  | AFWTR                  | 91.94                         | 53.16                 | 370         | 369          | C                                    | -             |
| 2024-175Q                 | Starlink-32432           | 25 September 2024  | AFWTR                  | 91.94                         | 53.16                 | 370         | 369          | C                                    | -             |
| 2024-175R                 | Starlink-32382           | 25 September 2024  | AFWTR                  | 91.94                         | 53.16                 | 370         | 369          | C                                    | -             |
| 2024-175S                 | Starlink-32435           | 25 September 2024  | AFWTR                  | 91.94                         | 53.16                 | 370         | 369          | C                                    | -             |
| 2024-175T                 | Starlink-32474           | 25 September 2024  | AFWTR                  | 91.94                         | 53.16                 | 370         | 369          | C                                    | -             |
| 2024-175U                 | Starlink-32447           | 25 September 2024  | AFWTR                  | 91.94                         | 53.16                 | 370         | 369          | C                                    | -             |
| 2024-175V                 | Starlink-32446           | 25 September 2024  | AFWTR                  | 91.94                         | 53.16                 | 370         | 369          | C                                    | -             |
| 2024-178A                 | Dragon Freedom-2         | 28 September 2024  | AFETR                  | 92.91                         | 51.64                 | 423         | 411          | E                                    | -             |

| International designation                                                                                                                   | Name of the space object | Date of the launch | Location of the launch | Basic orbital characteristics |                       |             |              | General function of the space object | Date of decay     |
|---------------------------------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|------------------------|-------------------------------|-----------------------|-------------|--------------|--------------------------------------|-------------------|
|                                                                                                                                             |                          |                    |                        | Nodal period (minutes)        | Inclination (degrees) | Apogee (km) | Perigee (km) |                                      |                   |
| The following objects not previously reported were identified after the last report and remained in orbit as at 2359Z on 30 September 2024: |                          |                    |                        |                               |                       |             |              |                                      |                   |
| 2024-125F                                                                                                                                   | TechEdSat-11             | 4 July 2024        | AFWTR                  | 94.54                         | 97.31                 | 513         | 480          | C                                    | -                 |
| 2024-125D                                                                                                                                   | R5-S4                    | 4 July 2024        | AFWTR                  | 94.54                         | 97.31                 | 513         | 480          | C                                    | -                 |
| 2024-125E                                                                                                                                   | R5-S2                    | 4 July 2024        | AFWTR                  | 94.53                         | 97.31                 | 512         | 479          | C                                    | -                 |
| 2024-149DM                                                                                                                                  | Hawk-10C                 | 16 August 2024     | AFWTR                  | 96.46                         | 97.74                 | 591         | 588          | C                                    | -                 |
| 2024-149CU                                                                                                                                  | Flock 4BE 35             | 16 August 2024     | AFWTR                  | 94.77                         | 97.44                 | 510         | 505          | C                                    | -                 |
| 2024-149CX                                                                                                                                  | Flock 4BE 3              | 16 August 2024     | AFWTR                  | 94.77                         | 97.43                 | 512         | 503          | C                                    | -                 |
| 2024-149CZ                                                                                                                                  | Flock 4BE 19             | 16 August 2024     | AFWTR                  | 94.75                         | 97.44                 | 511         | 502          | C                                    | -                 |
| The following objects achieved orbit after the last report but were no longer in orbit as at 2359Z on 30 September 2024:                    |                          |                    |                        |                               |                       |             |              |                                      |                   |
| 2024-158A                                                                                                                                   | Starlink-11278           | 5 September 2024   | AFETR                  | 87.15                         | 53.15                 | 137         | 130          | C                                    | 12 September 2024 |
| 2024-161A                                                                                                                                   | Polaris Dawn             | 10 September 2024  | AFETR                  | 90.92                         | 51.65                 | 452         | 187          | E                                    | 15 September 2024 |
| The following objects were launched after the last report but did not achieve orbit:                                                        |                          |                    |                        |                               |                       |             |              |                                      |                   |
| None.                                                                                                                                       |                          |                    |                        |                               |                       |             |              |                                      |                   |
| The following objects identified in a previous report were no longer in orbit as at 2359Z on 30 September 2024:                             |                          |                    |                        |                               |                       |             |              |                                      |                   |
| 1975-052DC                                                                                                                                  | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 1 September 2024  |
| 2020-012BJ                                                                                                                                  | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 1 September 2024  |
| 2020-061T                                                                                                                                   | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 1 September 2024  |
| 2021-006DP                                                                                                                                  | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 1 September 2024  |
| 2022-002BW                                                                                                                                  | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 1 September 2024  |
| 2023-001CX                                                                                                                                  | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 1 September 2024  |
| 2024-012U                                                                                                                                   | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 1 September 2024  |
| 2020-038C                                                                                                                                   | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 2 September 2024  |
| 2022-002Z                                                                                                                                   | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 2 September 2024  |
| 2022-062BD                                                                                                                                  | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 2 September 2024  |
| 2021-021AP                                                                                                                                  | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 3 September 2024  |
| 2023-001AT                                                                                                                                  | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 3 September 2024  |
| 2020-057AM                                                                                                                                  | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 4 September 2024  |
| 2020-081E                                                                                                                                   | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 4 September 2024  |
| 2021-006CL                                                                                                                                  | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 4 September 2024  |

| International designation | Name of the space object | Date of the launch | Location of the launch | Basic orbital characteristics |                       |             |              | General function of the space object | Date of decay     |
|---------------------------|--------------------------|--------------------|------------------------|-------------------------------|-----------------------|-------------|--------------|--------------------------------------|-------------------|
|                           |                          |                    |                        | Nodal period (minutes)        | Inclination (degrees) | Apogee (km) | Perigee (km) |                                      |                   |
| 2022-001Z                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 5 September 2024  |
| 2023-001CW                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 5 September 2024  |
| 2023-001CM                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 6 September 2024  |
| 2019-074AK                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 7 September 2024  |
| 2020-012X                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 7 September 2024  |
| 2020-012AN                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 7 September 2024  |
| 2020-019N                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 7 September 2024  |
| 2020-070R                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 7 September 2024  |
| 2024-109A                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 7 September 2024  |
| 2020-025S                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 8 September 2024  |
| 2018-099AP                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 9 September 2024  |
| 2020-061AA                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 9 September 2024  |
| 2022-057D                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 9 September 2024  |
| 2024-020N                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 9 September 2024  |
| 2023-001BU                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 10 September 2024 |
| 2023-067D                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 10 September 2024 |
| 2019-089D                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 11 September 2024 |
| 2020-061BJ                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 11 September 2024 |
| 2022-074D                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 11 September 2024 |
| 1975-052BD                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 12 September 2024 |
| 2020-006K                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 12 September 2024 |
| 2020-006AQ                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 12 September 2024 |
| 2020-081F                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 13 September 2024 |
| 2021-006CM                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 13 September 2024 |
| 2023-001CV                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 13 September 2024 |
| 2021-006CR                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 14 September 2024 |
| 2021-040U                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 14 September 2024 |
| 2021-115C                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 14 September 2024 |
| 2022-002P                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 14 September 2024 |

| International designation | Name of the space object | Date of the launch | Location of the launch | Basic orbital characteristics |                       |             |              | General function of the space object | Date of decay     |
|---------------------------|--------------------------|--------------------|------------------------|-------------------------------|-----------------------|-------------|--------------|--------------------------------------|-------------------|
|                           |                          |                    |                        | Nodal period (minutes)        | Inclination (degrees) | Apogee (km) | Perigee (km) |                                      |                   |
| 2022-057C                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 14 September 2024 |
| 2020-073H                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 15 September 2024 |
| 2023-001CU                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 15 September 2024 |
| 2022-002AW                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 16 September 2024 |
| 2023-001CS                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 16 September 2024 |
| 1965-082AK                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 17 September 2024 |
| 1970-025LG                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 17 September 2024 |
| 2021-006EE                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 17 September 2024 |
| 2019-089M                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 18 September 2024 |
| 2021-009Y                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 18 September 2024 |
| 2022-002V                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 18 September 2024 |
| 2022-052R                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 18 September 2024 |
| 2022-057K                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 18 September 2024 |
| 2023-001CP                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 18 September 2024 |
| 2023-054AM                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 18 September 2024 |
| 2023-096D                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 18 September 2024 |
| 2020-025AE                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 19 September 2024 |
| 2022-177K                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 19 September 2024 |
| 2024-084M                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 19 September 2024 |
| 2021-017H                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 20 September 2024 |
| 2021-106B                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 20 September 2024 |
| 2020-001N                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 21 September 2024 |
| 2023-001CR                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 21 September 2024 |
| 2023-090AR                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 22 September 2024 |
| 2020-035AM                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 23 September 2024 |
| 2022-001X                 | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 23 September 2024 |
| 2023-010AF                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 23 September 2024 |
| 2020-038BM                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 25 September 2024 |
| 2023-001CQ                | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 25 September 2024 |



| International designation                                                                                        | Name of the space object | Date of the launch | Location of the launch | Basic orbital characteristics |                       |             |              | General function of the space object | Date of decay     |
|------------------------------------------------------------------------------------------------------------------|--------------------------|--------------------|------------------------|-------------------------------|-----------------------|-------------|--------------|--------------------------------------|-------------------|
|                                                                                                                  |                          |                    |                        | Nodal period (minutes)        | Inclination (degrees) | Apogee (km) | Perigee (km) |                                      |                   |
| 2024-065H                                                                                                        | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 25 September 2024 |
| 2024-136J                                                                                                        | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 25 September 2024 |
| 2020-019AH                                                                                                       | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 26 September 2024 |
| 2021-005AQ                                                                                                       | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 26 September 2024 |
| 2023-001CL                                                                                                       | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 26 September 2024 |
| 2021-006DJ                                                                                                       | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 27 September 2024 |
| 2021-006DN                                                                                                       | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 27 September 2024 |
| 2022-001AG                                                                                                       | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 29 September 2024 |
| 2022-002L                                                                                                        | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 29 September 2024 |
| 2022-026K                                                                                                        | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 29 September 2024 |
| 2023-154B                                                                                                        | -                        | -                  | -                      | -                             | -                     | -           | -            | -                                    | 29 September 2024 |
| The following objects were not previously reported and were no longer in orbit as at 2359Z on 30 September 2024: |                          |                    |                        |                               |                       |             |              |                                      |                   |
| 2019-089B                                                                                                        | PTD-3                    | 11 December 2019   |                        |                               |                       |             |              |                                      | 14 September 2024 |
| 1998-067WN                                                                                                       | SNOoPI                   | 21 March 2024      |                        |                               |                       |             |              |                                      | 28 September 2024 |
| 1998-067WM                                                                                                       | Burstcube                | 24 March 2024      |                        |                               |                       |             |              |                                      | 17 September 2024 |
| The following objects were deployed on a non-Earth celestial body:                                               |                          |                    |                        |                               |                       |             |              |                                      |                   |
| None.                                                                                                            |                          |                    |                        |                               |                       |             |              |                                      |                   |
| Additional information:                                                                                          |                          |                    |                        |                               |                       |             |              |                                      |                   |
| None.                                                                                                            |                          |                    |                        |                               |                       |             |              |                                      |                   |

*Abbreviations and key*

*Location of the launch:* AFETR, United States Air Force Eastern Test Range; and AFWTR, United States Air Force Western Test Range.

*General function of the space object:*

- A      Spacecraft engaged in investigation of spaceflight techniques and technology
- B      Spacecraft engaged in research and exploration of the upper atmosphere or outer space
- C      Spacecraft engaged in practical applications and uses of space technology such as weather or communications
- D      Spent boosters, spent manoeuvring stages, shrouds and other non-functional objects
- E      Reusable space transportation systems

B. Revisions that should be made to previously reported data <sup>\*\*</sup>

| <i>Registration document</i>     | <i>Common name of the space object</i> | <i>Original international designation</i> | <i>Updated international designation</i> |
|----------------------------------|----------------------------------------|-------------------------------------------|------------------------------------------|
| <a href="#">ST/SG/SER.E/1227</a> | Flock 4BE 16                           | 2024-149P                                 | 2024-149R                                |
| <a href="#">ST/SG/SER.E/1227</a> | PTD-4                                  | 2024-149BH                                | 2024-149DB                               |

<sup>\*\*</sup> The registration data are reproduced in the form in which they were received.