

## Changes to the UCS Satellite Database for 1-1-2022 Release

This version of the Database includes launches through December 31, 2021. There are currently 4,852 active satellites in the database. The changes to this version of the database include:

- The addition of 363 satellites
- The deletion of 61 satellites
- The addition of and corrections to some satellite data

### *Satellites Removed for the 1-1-2022 Release*

Dellinger – 1998-067NJ	Starlink-1756 – 2020-062BG
RemoveDebris – 1998-067NT	Starlink-1768 – 2020-062BJ
UNITE – 1998-067PX	Starlink-1674 – 2020-070Z
NepaliSat-1 – 1998-067QE	Starlink-1731 – 2020-073G
Uguisu – 1998-067QG	Starlink-1778 – 2020-073P
SpooQy-1 – 1998-067QH	Starlink-1796 – 2020-073AD
CryoCube-1 (CC-1) – 1998-067RD	Starlink-1824 – 2020-073BD
AztecSat-1 – 1998-067RE	Starlink-1827 – 2020-073BG
Lemur 2 Baxter-Oliver – 1998-067RV	Starlink-1901 – 2020-074Z
exactView-1 – 2012-039C	Starlink-1937 – 2020-074AL
Aerocube 8A – 2015-025J	Starlink-1949 – 2020-074AQ
Aerocube 8B – 2015-025K	Starlink-1787 – 2020-088D
Zhongxing 9A – 2017-035A	Starlink-1836 – 2020-088F
Skynet 4C – Chefsat – 2017-071H	Starlink-1855 – 2020-088W
Starlink-76 – 2019-029BE	Starlink-1875 – 2020-088AQ
SpaceBEE-9 – 2019-037F	Starlink-1886 – 2020-088AZ
Swampsat-2 – 2019-071E	Starlink-1914 – 2020-088BL
Starlink-76 – 2019-029BE	Starlink-1949 – 2020-074AQ
Starlink-1051 – 2019-074AV	Starlink-2079 – 2021-005R
Starlink-1097 – 2020-001C	Starlink-2199 – 2021-006A
Starlink-1101 – 2020-001F	Starlink-2203 – 2021-006E
Starlink-1072 – 2020-001X	Starlink-2204 – 2021-006F
Starlink-1078 – 2020-001Y	Starlink-2205 – 2021-006G
Starlink-1095 – 2020-001BK	Starlink-2206 – 2021-006H
Starlink-1178 – 2020-006V	Starlink-2207 – 2021-006J
Starlink-1254 – 2020-012AQ	Starlink-2091 – 2021-012BL
Starlink-1188 – 2020-012AU	Starlink-2277 – 2021-024AF
Starlink-1508 – 2020-038AM	Starlink-2259 – 2021-024AG
Starlink-1632 – 2020-057BF	Starlink-2311 – 2021-024L
Starlink-1757 – 2020-062Q	Starlink-2529 – 2021-040AF
Starlink-1662 – 2020-062AW	

### *Satellites Added for the 1-1-2022 Release*

Gaofen 5-02 – 2021-079A	Starlink-3096 – 2021-082B
Zhongxing 9B – 2021-080A	Starlink-3090 – 2021-082C

Starlink-3077 – 2021-082D  
Starlink-3078 – 2021-082E  
Starlink-3073 – 2021-082F  
Starlink-3084 – 2021-082G  
Starlink-3055 – 2021-082H  
Starlink-3058 – 2021-082J  
Starlink-3057 – 2021-082K  
Starlink-3118 – 2021-082L  
Starlink-3093 – 2021-082M  
Starlink-3042 – 2021-082N  
Starlink-3109 – 2021-082P  
Starlink-3100 – 2021-082Q  
Starlink-3119 – 2021-082R  
Starlink-3116 – 2021-082S  
Starlink-3071 – 2021-082T  
Starlink-3048 – 2021-082U  
Starlink-3053 – 2021-082V  
Starlink-3104 – 2021-082W  
Starlink-3102 – 2021-082X  
Starlink-3081 – 2021-082Y  
Starlink-3072 – 2021-082Z  
Starlink-3068 – 2021-082AA  
Starlink-3060 – 2021-082AB  
Starlink-3085 – 2021-082AC  
Starlink-3051 – 2021-082AD  
Starlink-3083 – 2021-082AE  
Starlink-3056 – 2021-082AF  
Starlink-3095 – 2021-082AG  
Starlink-3080 – 2021-082AH  
Starlink-3082 – 2021-082AJ  
Starlink-3088 – 2021-082AK  
Starlink-3106 – 2021-082AL  
Starlink-3052 – 2021-082AM  
Starlink-3089 – 2021-082AN  
Starlink-3054 – 2021-082AP  
Starlink-3101 – 2021-082AQ  
Starlink-3046 – 2021-082AR  
Starlink-3074 – 2021-082AS  
Starlink-3107 – 2021-082AT  
Starlink-3091 – 2021-082AU  
Starlink-3045 – 2021-082AV  
Starlink-3047 – 2021-082AW  
Starlink-3087 – 2021-082AX  
Starlink-3069 – 2021-082AY  
Starlink-3103 – 2021-082AZ  
Starlink-3086 – 2021-082BA  
Starlink-3043 – 2021-082BB  
Starlink-3050 – 2021-082BC  
Starlink-3059 – 2021-082BD  
OneWeb-0292 – 2021-083A  
OneWeb-0303 – 2021-083B|

OneWeb-0306 – 2021-083C  
OneWeb-0307 – 2021-083D  
OneWeb-0320 – 2021-083E  
OneWeb-0321 – 2021-083F  
OneWeb-0322 – 2021-083G  
OneWeb-0324 – 2021-083H  
OneWeb-0325 – 2021-083J  
OneWeb-0326 – 2021-083K  
OneWeb-0327 – 2021-083L  
OneWeb-0328 – 2021-083M  
OneWeb-0331 – 2021-083N  
OneWeb-0333 – 2021-083P  
OneWeb-0334 – 2021-083Q  
OneWeb-0335 – 2021-083R  
OneWeb-0336 – 2021-083S  
OneWeb-0337 – 2021-083T  
OneWeb-0338 – 2021-083U  
OneWeb-0339 – 2021-083V  
OneWeb-0340 – 2021-083W  
OneWeb-0341 – 2021-083X  
OneWeb-0342 – 2021-083Y  
OneWeb-0343 – 2021-083Z  
OneWeb-0344 – 2021-083AA  
OneWeb-0345 – 2021-083AB  
OneWeb-0346 – 2021-083AC  
OneWeb-0348 – 2021-083AD  
OneWeb-0350 – 2021-083AE  
OneWeb-0351 – 2021-083AF  
OneWeb-0352 – 2021-083AG  
OneWeb-0354 – 2021-083AH  
OneWeb-0355 – 2021-083AJ  
OneWeb-0357 – 2021-083AK  
Jilin-1 Gaofen 02D -- 2021-086A  
Landsat-9 – 2021-088A  
Cesium Satellite 1 – 2021-088B  
Cesium Satellite 2 – 2021-088C  
CUTE – 2021-088D  
CuPID – 2021-088E  
OneWeb-0332 – 2021-090A  
OneWeb-0347 – 2021-090B  
OneWeb-0349 – 2021-090C  
OneWeb-0353 – 2021-090D  
OneWeb-0356 – 2021-090E  
OneWeb-0358 – 2021-090F  
OneWeb-0359 – 2021-090G  
OneWeb-0360 – 2021-090H  
OneWeb-0361 – 2021-090J  
OneWeb-0362 – 2021-090K  
OneWeb-0363 – 2021-090L  
OneWeb-0364 – 2021-090M  
OneWeb-0365 – 2021-090N

OneWeb-0366 – 2021-090P  
OneWeb-0367 – 2021-090Q  
OneWeb-0368 – 2021-090R  
OneWeb-0369 – 2021-090S  
OneWeb-0370 – 2021-090T  
OneWeb-0371 – 2021-090U  
OneWeb-0372 – 2021-090V  
OneWeb-0373 – 2021-090W  
OneWeb-0374 – 2021-090X  
OneWeb-0375 – 2021-090Y  
OneWeb-0376 – 2021-090Z  
OneWeb-0377 – 2021-090AA  
OneWeb-0378 – 2021-090AB  
OneWeb-0379 – 2021-090AC  
OneWeb-0380 – 2021-090AD  
OneWeb-0381 – 2021-090AE  
OneWeb-0382 – 2021-090AF  
OneWeb-0383 – 2021-090AG  
OneWeb-0384 – 2021-090AH  
OneWeb-0385 – 2021-090AJ  
OneWeb-0386 – 2021-090AK  
OneWeb-0387 – 2021-090AL  
OneWeb-0388 – 2021-090AM  
CHASE (Xihe) – 2021-091A  
Tianshu 1 – 2021-091C  
HEAD-2E – 2021-091E  
SSS-1 -- 2021-091G  
HEAD-2F -- 2021-091H  
Tianyuan 1 – 2021-091J  
Jin Zijing Weixing 2 – 2021-091K  
SSS-2A – 2021-091L  
Shijian 21 – 2021-094A  
SES-17 – 2021-095A  
Syracuse 4A – 2021-095B  
QZS 1R – 2021-096A  
Jilin 1 Gaofen 02F – 2021-097A  
Yaogan 32-2A – 2021-099A  
Yaogan 32-2B – 2021-099B  
SDGSAT – 2021-100A  
Yaogan 35A – 2021-101A  
Yaogan 35B – 2021-101B  
Yaogan 35C – 2021-101C  
RAISE-2 – 2021-102A  
TeikyoSat 4 – 102B  
ASTERISC – 102C  
DRUMS – 2021-102D  
Z-Sat – 2021-102E  
Hibari – 2021-102F  
NanoDragon – 2021-102G  
KOSEN-1 – 2021-102H  
ARICA – 2021-102J

Starlink-3151 – 2021-104A  
Starlink-3075 – 2021-104B  
Starlink-3147 – 2021-104C  
Starlink-3162 – 2021-104D  
Starlink-3144 – 2021-104E  
Starlink-3157 – 2021-104F  
Starlink-3146 – 2021-104G  
Starlink-3159 – 2021-104H  
Starlink-3133 – 2021-104J  
Starlink-3154 – 2021-104K  
Starlink-3111 – 2021-104L  
Starlink-3120 – 2021-104M  
Starlink-3110 – 2021-104N  
Starlink-3112 – 2021-104P  
Starlink-3161 – 2021-104Q  
Starlink-3149 – 2021-104R  
Starlink-3135 – 2021-104S  
Starlink-3139 – 2021-104T  
Starlink-3114 – 2021-104U  
Starlink-3131 – 2021-104V  
Starlink-3121 – 2021-104W  
Starlink-3138 – 2021-104Y  
Starlink-3153 – 2021-104Z  
Starlink-3158 – 2021-104AA  
Starlink-3079 – 2021-104AB  
Starlink-3134 – 2021-104AC  
Starlink-3117 – 2021-104AD  
Starlink-3049 – 2021-104AE  
Starlink-3130 – 2021-104AF  
Starlink-3044 – 2021-104AG  
Starlink-3108 – 2021-104AH  
Starlink-3105 – 2021-104A  
Starlink-3128 – 2021-104AK  
Starlink-3098 – 2021-104AL  
Starlink-3136 – 2021-104AM  
Starlink-3126 – 2021-104AN  
Starlink-3122 – 2021-104AP  
Starlink-3099 – 2021-104AQ  
Starlink-3115 – 2021-104AR  
Starlink-3097 – 2021-104AS  
Starlink-3137 – 2021-104AT  
Starlink-3127 – 2021-104AU  
Starlink-3125 – 2021-104AV  
Starlink-3150 – 2021-104AW  
Starlink-3129 – 2021-104AX  
Starlink-3160 – 2021-104AY  
Starlink-3145 – 2021-104AZ  
Starlink-3124 – 2021-104BA  
Starlink-3132 – 2021-104BB  
Starlink-3156 – 2021-104BC

Starlink-3141 – 2021-104BD  
Starlink-3140 – 2021-104BE  
CERES 1 – 2021-105A  
CERES 2 – 2021-105B  
CERES 3 – 2021-105C  
BlackSky Global 14 – 2021-106A  
BlackSky Global 15 – 2021-106B  
Gaofen 11-03 – 2021-107A  
Gaofen 3-02 – 2021-109A  
Shiyan 11 – 2021-112A  
EKS-5 (Cosmos 2552) 2021-113A  
Zhongxing-1D – 2021-114A  
Starlink-3219 – 2021-115A  
Starlink-3218 – 2021-115B  
Starlink-3237 – 2021-115C  
Starlink-3242 – 2021-115D  
Starlink-3240 – 2021-115E  
Starlink-3251 – 2021-115F  
Starlink-3249 – 2021-115G  
Starlink-3228 – 2021-115H  
Starlink-3246 – 2021-115J  
Starlink-3252 – 2021-115K  
Starlink-3238 – 2021-115L  
Starlink-3113 – 2021-115M  
Starlink-3148 – 2021-115N  
Starlink-3225 – 2021-115P  
Starlink-3143 – 2021-115Q  
Starlink-3155 – 2021-115R  
Starlink-3226 – 2021-115S  
Starlink-3244 – 2021-115T  
Starlink-3202 – 2021-115U  
Starlink-3239 – 2021-115V  
Starlink-3231 – 2021-115W  
Starlink-3241 – 2021-115X  
Starlink-3233 – 2021-115Y  
Starlink-3247 – 2021-115Z  
Starlink-3248 – 2021-115AA  
Starlink-3250 – 2021-115AB  
Starlink-3236 – 2021-115AC  
Starlink-3229 – 2021-115AD  
Starlink-3209 – 2021-115AE  
Starlink-3200 – 2021-115AF  
Starlink-3193 – 2021-115AG  
Starlink-3210 – 2021-115AH  
Starlink-3207 – 2021-115AJ  
Starlink-3197 – 2021-115AK  
Starlink-3194 – 2021-115AL  
Starlink-3204 – 2021-115AM  
Starlink-3199 – 2021-115AN  
Starlink-3203 – 2021-115AP  
Starlink-3195 – 2021-115AQ

Starlink-3198 – 2021-115AR  
Starlink-3206 – 2021-115AS  
Starlink-3227 – 2021-115AT  
Starlink-3190 – 2021-115AU  
Starlink-3192 – 2021-115AV  
Starlink-3196 – 2021-115AW  
Starlink-3208 – 2021-115AX  
Starlink-3191 – 2021-115AY  
Starlink-3201 – 2021-115AZ  
Galileo FOC FM23 – 2021-116A  
Galileo FOC FM24 – 2021-116B  
Tianjin Daxue 1 – 2021-117A  
Lize 1 – 2021-117B  
Baoyun – 2021-117C  
Golden Bauhinia 5 – 2021-117D  
Golden Bauhinia 1-03 – 2021-117E  
STPSat-6 – 2021-118A  
LDPE 1 – 2021-118B  
BlackSky Global 17 – 2021-120A  
BlackSky Global 16 – 2021-120B  
IXPE – 2021-121A  
Shijian 6-05B – 2021-122A  
Shijian 6-05A – 2021-122B  
Ekspress-AMU3 – 2021-123A  
Ekspress-AMU7 – 2021-123B  
Tian Lian 2-02 – 2021-124A  
Starlink-3317 – 2021-125A|  
Starlink-3313 – 2021-125B  
Starlink-3309 – 2021-125C  
Starlink-3297 – 2021-125D  
Starlink-3288 – 2021-125E  
Starlink-3304 – 2021-125F  
Starlink-3303 – 2021-125G  
Starlink-3306 – 2021-125H  
Starlink-3307 – 2021-125J  
Starlink-3298 – 2021-125K  
Starlink-3305 – 2021-125L  
Starlink-3271 – 2021-125M  
Starlink-3296 – 2021-125N  
Starlink-3301 – 2021-125P  
Starlink-3245 – 2021-125Q  
Starlink-3286 – 2021-125R  
Starlink-3287 – 2021-125S  
Starlink-3289 – 2021-125T  
Starlink-3292 – 2021-125U  
Starlink-3291 – 2021-125V  
Starlink-3293 – 2021-125W  
Starlink-3282 – 2021-125X  
Starlink-3284 – 2021-125Y  
Starlink-3283 – 2021-125Z  
Starlink-3265 – 2021-125AA

Starlink-3285 – 2021-125AB  
Starlink-3277 – 2021-125AC  
Starlink-3281 – 2021-125AD  
Starlink-3279 – 2021-125AF  
Starlink-3274 – 2021-125AG  
Starlink-3272 – 2021-125AH  
Starlink-3275 – 2021-125AJ  
Starlink-3276 – 2021-125AK  
Starlink-3268 – 2021-125AL  
Starlink-3273 – 2021-125AM  
Starlink-3259 – 2021-125AN  
Starlink-3261 – 2021-125AP  
Starlink-3269 – 2021-125AQ  
Starlink-3266 – 2021-125AR  
Starlink-3263 – 2021-125AS  
Starlink-3267 – 2021-125AT  
Starlink-3264 – 2021-125AU  
Starlink-3270 – 2021-125AV  
Starlink-3235 – 2021-125AW  
Starlink-3255 – 2021-125AX  
Starlink-3256 – 2021-125AY  
Starlink-3257 – 2021-125AZ  
Starlink-3254 – 2021-125BA  
Starlink-3260 – 2021-125BB  
Starlink-3258 – 2021-125BC  
Starlink-3262 – 2021-125BD  
Turksat 5B – 2021-126A  
INMARSAT 6 F1 – 2021-128A  
Shiyan 12-01 – 2021-129A  
Shiyan 12-02 – 2021-129B  
OneWeb-0389 – 2021-132A  
OneWeb-0390 – 2021-132B  
OneWeb-0391 – 2021-132C  
OneWeb-0392 – 2021-132D

OneWeb-0393 – 2021-132E  
OneWeb-0394 – 2021-132F  
OneWeb-0395 – 2021-132G  
OneWeb-0396 – 2021-132H  
OneWeb-0397 – 2021-132J  
OneWeb-0398 – 2021-132K  
OneWeb-0399 – 2021-132L  
OneWeb-0400 – 2021-132M  
OneWeb-0401 – 2021-132N  
OneWeb-0402 – 2021-132P  
OneWeb-0403 – 2021-132Q  
OneWeb-0404 – 2021-132R  
OneWeb-0405 – 2021-132S  
OneWeb-0406 – 2021-132T  
OneWeb-0407 – 2021-132U  
OneWeb-0409 – 2021-132V  
OneWeb-0412 – 2021-132W  
OneWeb-0413 – 2021-132X  
OneWeb-0414 – 2021-132Y  
OneWeb-0417 – 2021-132Z  
OneWeb-0418 – 2021-132AA  
OneWeb-0419 – 2021-132AB  
OneWeb-0420 – 2021-132AC  
OneWeb-0421 – 2021-132AD  
OneWeb-0424 – 2021-132AE  
OneWeb-0426 – 2021-132AF  
OneWeb-0427 – 2021-132AG  
OneWeb-0429 – 2021-132AH  
OneWeb-0430 – 2021-132AJ  
OneWeb-0432 – 2021-132AK  
OneWeb-0440 – 2021-132AL  
OneWeb-0450 – 2021-132AM

## UCS Satellite Database Release September 1, 2021

This version of the Database includes launches through August 31, 2021. There are currently 4,550 active satellites in the database. The changes to this version of the database include:

- The addition of 503 satellites
- The deletion of 38 satellites

### *Satellites Removed from Database for September 1, 2021 Release*

Telkom-2 – 2005-046A	Starlink-1473 – 2020-038H
Garpun-1 (Cosmos 2473) – 2011-048A	Starlink-1562 – 2020-055AG
Glonass 742 (Cosmos 2474) – 2011-055A	Starlink-1127 – 2020-006AZ
GSSAP 1 (USA 253) -- 2014-043A	Starlink-1516 – 2020-038V
Dove 3p-60 – 2017-008AE	Starlink-1592 – 2020-057Y
Dove 3p-31 -- 2017-008DF	Starlink-1652 – 2020-062AU
Dove 2k-31 -- 2017-042AW	Starlink-1691 – 2020-062BA
Dove 2k-44 -- 2017-042BA	Starlink-1745 – 2020-062BE
Dove 3k-1 -- 2018-111U	Starlink-1744 – 2020-070BH
Dove 3k-6 -- 2018-111W	Starlink-1685 – 2020-070J
Dove 4a-7 -- 2019-018R	Starlink-1841 – 2020-073BM
Starlink-64 – 2019-029AS	Starlink-1847 – 2020-074A
Dove 4p-12 -- 2019-081G	Starlink-1897 – 2020-074Y
R2D2 -- 2019-016A	Starlink-1935 – 2020-074AJ
Starlink-1025 – 2019-074T	Starlink-1779 – 2020-088B
Starlink-1075 – 2020-001AW	Sirius XM-7 – 2020-096A
Starlink-1163 – 2020-005AB	Dove 4s-38 – 2021-006DD
Starlink-1164 – 2020-006AC	Starlink-2638 – 2021-040BB
Starlink-1198 – 2020-012Y	Starlink-2276 – 2021-041BA

### *Satellites Added to Database for September 1, 2021 Release*

SpaceBEE-65 -- 2021-006ES	DhabiSat – 2021-013F
SpaceBEE-64 -- 2021-006ET	Starlink-2613 – 2021-038A
SpaceBEE-66 -- 2021-006EU	Starlink-2674 – 2021-038B
SpaceBEE-67 -- 2021-006EV	Starlink-2635 – 2021-038C
SpaceBEE-68 -- 2021-006EW	Starlink-2637 – 2021-038D
SpaceBEE-69 -- 2021-006EX	Starlink-2636 – 2021-038E
SpaceBEE-70 -- 2021-006EY	Starlink-2624 – 2021-038F
SpaceBEE-71 -- 2021-006EZ	Starlink-2628 – 2021-038G
SpaceBEE-72 -- 2021-006FA	Starlink-2622 – 2021-038H
SpaceBEE-73 -- 2021-006FB	Starlink-2591 – 2021-038J
SpaceBEE-74 -- 2021-006FC	Starlink-2578 – 2021-038K
SpaceBEE-75 -- 2021-006FD	Starlink-2626 – 2021-038L
ORCA-7 – 2021-013C	Starlink-2611 – 2021-038M
Gunsmoke-J2 – 2021-013D	Starlink-2608 – 2021-038N
ORCA-6 – 2021-013E	Starlink-2631 – 2021-038P
	Starlink-2643 – 2021-038Q

Starlink-2623 – 2021-038R  
Starlink-2641 – 2021-038S  
Starlink-2621 – 2021-038T  
Starlink-2589 – 2021-038U  
Starlink-2572 – 2021-038V  
Starlink-2609 – 2021-038W  
Starlink-2604 – 2021-038X  
Starlink-2603 – 2021-038Y  
Starlink-2610 – 2021-038Z  
Starlink-2499 – 2021-038AA  
Starlink-2526 – 2021-038AB  
Starlink-2612 – 2021-038AC  
Starlink-2614 – 2021-038AD  
Starlink-2630 – 2021-038AE  
Starlink-2585 – 2021-038AF  
Starlink-2599 – 2021-038AG  
Starlink-2601 – 2021-038AH  
Starlink-2598 – 2021-038AJ  
Starlink-2606 – 2021-038AK  
Starlink-2600 – 2021-038AL  
Starlink-2594 – 2021-038AM  
Starlink-1904 – 2021-038AN  
Starlink-2586 – 2021-038AP  
Starlink-2607 – 2021-038AQ  
Starlink-2605 – 2021-038AR  
Starlink-2602 – 2021-038AS  
Starlink-2573 – 2021-038AT  
Starlink-2574 – 2021-038AU  
Starlink-2575 – 2021-038AV  
Starlink-2590 – 2021-038AW  
Starlink-2588 – 2021-038AX  
Starlink-2587 – 2021—038AY  
Starlink-2576 – 2021-038AZ  
Starlink-2571 – 2021-038BA  
Starlink-2560 – 2021-038BB  
Starlink-2561 – 2021-038BC  
Starlink-2593 – 2021-038BD  
Starlink-2570 – 2021-038BE  
Starlink-2568 – 2021-038BF  
Starlink-2595 – 2021-038BG  
Starlink-2592 – 2021-038BH  
Starlink-2596 – 2021-038BJ  
Starlink-2563 – 2021-038BK  
Starlink-2505 – 2021-038BL  
Starlink-2581 – 2021-038BM  
Yaogan 30-8-1 – 2021-039A  
Yaogan 30-8-2 – 2021-039B  
Yaogan 30-8-3 – 2021-039C  
Tianqi-12 – 2021-039D  
Starlink-2461 -- 2021-040A  
Starlink-2749 -- 2021-040B

Starlink-2729 -- 2021-040C  
Starlink-2700 -- 2021-040D  
Starlink-2680 -- 2021-040E  
Starlink-2699 -- 2021-040F  
Starlink-2692 -- 2021-040G  
Starlink-2633 -- 2021-040H  
Starlink-2639 -- 2021-040J  
Starlink-2642 -- 2021-040K  
Starlink-2640 -- 2021-040L  
Starlink-2583 -- 2021-040M  
Starlink-2682 -- 2021-040N  
Starlink-2702 -- 2021-040P  
Starlink-2644 -- 2021-040Q  
Starlink-2633 -- 2021-040R  
Starlink-2645 -- 2021-040S  
Starlink-2634 -- 2021-040T  
Starlink-2247 -- 2021-040U  
Starlink-2269 -- 2021-040V  
Starlink-2632 -- 2021-040W  
Starlink-2655 -- 2021-040X  
Starlink-2600 -- 2021-040Y  
Starlink-2652 -- 2021-040Z  
Starlink-2703 -- 2021-040AA  
Starlink-2620 -- 2021-040AB  
Starlink-2654 -- 2021-040AC  
Starlink-2497 -- 2021-040AD  
Starlink-2508 -- 2021-040AE  
Starlink-2529 -- 2021-040AF  
Starlink-2698 -- 2021-040AG  
Starlink-2579 -- 2021-040AH  
Starlink-2582 -- 2021-040AJ  
Starlink-2693 -- 2021-040AK  
Starlink-2683 -- 2021-040AL  
Starlink-2689 -- 2021-040AM  
Starlink-2686 -- 2021-040AN  
Starlink-2681 -- 2021-040AP  
Starlink-2687 -- 2021-040AQ  
Starlink-2659 -- 2021-040AR  
Starlink-2685 -- 2021-040AS  
Starlink-2661 -- 2021-040AT  
Starlink-2675 -- 2021-040AU  
Starlink-2684 -- 2021-040AV  
Starlink-2722 -- 2021-040AW  
Starlink-2658 -- 2021-040AX  
Starlink-2697 -- 2021-040AY  
Starlink-2619 -- 2021-040AZ  
Starlink-2723 -- 2021-040BA  
Starlink-2638 -- 2021-040BB  
Starlink-2728 -- 2021-040BC  
Starlink-2755 -- 2021-040BD  
Starlink-2690 -- 2021-040BE

Starlink-2706 -- 2021-040BF  
Starlink-2525 -- 2021-040BG  
Starlink-2531 -- 2021-040BH  
Starlink-2696 -- 2021-040BJ  
Starlink-2500 -- 2021-040BK  
Starlink-2496 -- 2021-040BL  
Starlink-2494 -- 2021-040BM  
Starlink-2063 -- 2021-041A  
Starlink-2139 -- 2021-041B  
Starlink-2145 -- 2021-041C  
Starlink-2151 -- 2021-041D  
Starlink-2155 -- 2021-041E  
Starlink-2166 -- 2021-041F  
Starlink-2167 -- 2021-041G  
Starlink-2173 -- 2021-041H  
Starlink-2186 -- 2021-041J  
Starlink-2187 -- 2021-041K  
Starlink-2188 -- 2021-041L  
Starlink-2190 -- 2021-041M  
Starlink-2191 -- 2021-041N  
Starlink-2214 -- 2021-041P  
Starlink-2215 -- 2021-041Q  
Starlink-2217 -- 2021-041R  
Starlink-2219 -- 2021-041S  
Starlink-2220 -- 2021-041T  
Starlink-2221 -- 2021-041U  
Starlink-2222 -- 2021-041V  
Starlink-2224 -- 2021-041W  
Starlink-2225 -- 2021-041X  
Starlink-2227 -- 2021-041Y  
Starlink-2228 -- 2021-041Z  
Starlink-2231 -- 2021-041AA  
Starlink-2232 -- 2021-041AB  
Starlink-2233 -- 2021-041AC  
Starlink-2234 -- 2021-041AD  
Starlink-2235 -- 2021-041AE  
Starlink-2236 -- 2021-041AF  
Starlink-2237 -- 2021-041AG  
Starlink-2238 -- 2021-041AH  
Starlink-2240 -- 2021-041AJ  
Starlink-2241 -- 2021-041AK  
Starlink-2242 -- 2021-041AL  
Starlink-2244 -- 2021-041AM  
Starlink-2245 -- 2021-041AN  
Starlink-2246 -- 2021-041AP  
Starlink-2248 -- 2021-041AQ  
Starlink-2249 -- 2021-041AR  
Starlink-2250 -- 2021-041AS  
Starlink-2251 -- 2021-041AT  
Starlink-2252 -- 2021-041AU  
Starlink-2253 -- 2021-041AV

Starlink-2255 -- 2021-041AW  
Starlink-2256 -- 2021-041AX  
Starlink-2274 -- 2021-041AY  
Starlink-2275 -- 2021-041AZ  
Starlink-2276 -- 2021-041BA  
Starlink-2213 -- 2021-041BB  
Starlink-2714 -- 2021-041BC  
Starlink-2757 -- 2021-041BD  
Capella-6 -- 2021-041BE  
Tyvak-0130 -- 2021-041BF  
SBIRS GEO-5 (USA 315) -- 2021-042A  
Haiyang 2D -- 2021-043A  
Starlink-2758 -- 2021-044A  
Starlink-2739 -- 2021-044B  
Starlink-2736 -- 2021-044C  
Starlink-2754 -- 2021-044D  
Starlink-2646 -- 2021-044E  
Starlink-2704 -- 2021-044F  
Starlink-2695 -- 2021-044G  
Starlink-2733 -- 2021-044H  
Starlink-2732 -- 2021-044J  
Starlink-2691 -- 2021-044K  
Starlink-2521 -- 2021-044L  
Starlink-2673 -- 2021-044M  
Starlink-2672 -- 2021-044N  
Starlink-2731 -- 2021-044P  
Starlink-2727 -- 2021-044Q  
Starlink-2720 -- 2021-044R  
Starlink-2651 -- 2021-044S  
Starlink-2657 -- 2021-044T  
Starlink-2701 -- 2021-044U  
Starlink-2734 -- 2021-044V  
Starlink-2647 -- 2021-044W  
Starlink-2717 -- 2021-044X  
Starlink-2688 -- 2021-044Y  
Starlink-2708 -- 2021-044Z  
Starlink-2726 -- 2021-044AA  
Starlink-2667 -- 2021-044AB  
Starlink-2709 -- 2021-044AC  
Starlink-2653 -- 2021-044AD  
Starlink-2666 -- 2021-044AE  
Starlink-2735 -- 2021-044AF  
Starlink-2738 -- 2021-044AG  
Starlink-2707 -- 2021-044AH  
Starlink-2763 -- 2021-044AJ  
Starlink-2745 -- 2021-044AK  
Starlink-2705 -- 2021-044AL  
Starlink-2711 -- 2021-044AM  
Starlink-2712 -- 2021-044AN  
Starlink-2737 -- 2021-044AP  
Starlink-2746 -- 2021-044AQ



Starlink-2719 -- 2021-044AR  
Starlink-2615 -- 2021-044AS  
Starlink-2648 -- 2021-044AT  
Starlink-2649 -- 2021-044AU  
Starlink-2725 -- 2021-044AV  
Starlink-2743 -- 2021-044AW  
Starlink-2756 -- 2021-044AX  
Starlink-2741 -- 2021-044AY  
Starlink-2751 -- 2021-044AZ  
Starlink-2629 -- 2021-044BA  
Starlink-2627 -- 2021-044BB  
Starlink-2742 -- 2021-044BC  
Starlink-2617 -- 2021-044BD  
Starlink-2740 -- 2021-044BE  
Starlink-2750 -- 2021-044BF  
Starlink-2752 -- 2021-044BG  
Starlink-2618 -- 2021-044BH  
Starlink-2748 -- 2021-044BJ  
Starlink-2616 -- 2021-044BK  
Starlink-2753 -- 2021-044BL  
Starlink-2715 -- 2021-044BM  
OneWeb-0211 -- 2021-045A  
OneWeb-0223 -- 2021-045B  
OneWeb-0230 -- 2021-045C  
OneWeb-0237 -- 2021-045D  
OneWeb-0235 -- 2021-045E  
OneWeb-0242 -- 2021-045F  
OneWeb-0241 -- 2021-045G  
OneWeb-0243 -- 2021-045H  
OneWeb-0222 -- 2021-045J  
OneWeb-0244 -- 2021-045K  
OneWeb-0247 -- 2021-045L  
OneWeb-0245 -- 2021-045M  
OneWeb-0229 -- 2021-045N  
OneWeb-0228 -- 2021-045P  
OneWeb-0232 -- 2021-045Q  
OneWeb-0231 -- 2021-045R  
OneWeb-0234 -- 2021-045S  
OneWeb-0238 -- 2021-045T  
OneWeb-0240 -- 2021-045U  
OneWeb-0246 -- 2021-045V  
OneWeb-0210 -- 2021-045W  
OneWeb-0214 -- 2021-045X  
OneWeb-0221 -- 2021-045Y  
OneWeb-0213 -- 2021-045Z  
OneWeb-0212 -- 2021-045AA  
OneWeb-0227 -- 2021-045AB  
OneWeb-0226 -- 2021-045AC  
OneWeb-0224 -- 2021-045AD  
OneWeb-0233 -- 2021-045AE  
OneWeb-0190 -- 2021-045AF

OneWeb-0236 -- 2021-045AG  
OneWeb-0248 -- 2021-045AH  
OneWeb-0225 -- 2021-045AJ  
OneWeb-0215 -- 2021-045AK  
OneWeb-0216 -- 2021-045AL  
OneWeb-0239 -- 2021-045AM  
Fengyun 4B -- 2021-047A  
SXM-8 -- 2021-049A  
Beijing-3 -- 2021-050A  
Yangwang-1 -- 2021-050B  
Haisi 2 -- 2021-050C  
Odyssey -- 2021-051A  
USA 316 (NROL 111) -- 2021-052A  
USA 317 (NROL 111) -- 2021-052B  
USA 318 (NROL 111) -- 2021-052C  
Navstar GPS III-5 (USA 319) -- 2021-054A  
Yaogan 30-9-1 -- 2021-055A  
Yaogan 30-9-2 -- 2021-055B  
Yaogan 30-9-3 -- 2021-055D  
Tianqi-14 -- 2021-055E  
Pion-NKS 901 (Cosmos 2550) -- 056A  
Stork-4 -- 2021-058B  
Stork-5 -- 2021-058C  
CNCE-3 -- 2021-058D  
CNCE-1 -- 2021-058E  
Brik-II -- 2021-058F  
Halo-NET Free Flyer -- 2021-058G  
Gunsmoke J-4 -- 2021-058H  
Starlink-3003 -- 2021-059A  
Starlink-3004 -- 2021-059B  
Starlink-3005 -- 2021-059C  
SpaceBEE-NZ10 -- 2021-059D  
SpaceBEE-100 -- 2021-059E  
SpaceBEE-101 -- 2021-059F  
Lemur-2 Jackson -- 2021-059G  
SpaceBEE-102 -- 2021-059H  
SpaceBEE-NZ9 -- 2021-059J  
SpaceBEE-103 -- 2021-059K  
SpaceBEE-NZ7 -- 2021-059L  
SpaceBEE-104 -- 2021-059M  
SpaceBEE-NZ8 -- 2021-059N  
Tyvak 0173 -- 2021-059P  
SpaceBEE-106 -- 2021-059Q  
SpaceBEE-107 -- 2021-059R  
SpaceBEE-108 -- 2021-059S  
SpaceBEE-105 -- 2021-059T  
SpaceBEE-109 -- 2021-059U  
Tyvak 0211 -- 2021-059V  
SpaceBEE-110 -- 2021-059W  
TUBIN -- 2021-059X  
TROPICS Pathfinder -- 2021-059Y

LINCS -1 – 2021-059Z  
LINCS-2 – 2021-059AA  
SpaceBEE-111 -- 2021-059AB  
ÑuSat-19 – 2021-059AC  
Umbra-SAR 2001 – 2021-059AD  
Mandrake-2A – 2021-059AE  
Mandrake-2B – 2021-059AF  
PACE-1 – 2021-059AG  
GNOMES-2 – 2021-059AH  
YAM-2 – 2021-059AJ  
Capella 5 – 2021-059AL  
ICEYE-X12 – 2021-059AM  
YAM-3 – 2021-059AN  
ICEYE-X13 – 2021-059AP  
ICEYE-X15 – 2021-059AQ  
ICEYE-X11 – 2021-059AR  
ÑuSat-22 – 2021-059AS  
ÑuSat-21 – 2021-059AT  
ÑuSat-19 – 2021-059AU  
D2/AtlaCom-1 – 2021-059AV  
Lemur-2 AnnaBanana – 2021-059AW  
Faraday Phoenix – 2021-059AX  
Lemur-2 John-Treires – 2021-059AY  
KSF1-B – 2021-059AZ  
Lemur-2 AC-Cubed – 2021-059BA  
PAINANI-2 – 2021-059BB  
Lemur-2 Merima – 2021-059BC  
KSF1-A – 2021-059BD  
Hawk-3B – 2021-059BE  
SpaceBEE-92 -- 2021-059BF  
SpaceBEE-89 -- 2021-059BG  
SpaceBEE-96 -- 2021-059BH  
SpaceBEE-88 -- 2021-059BJ  
SpaceBEE-97 -- 2021-059BK  
SpaceBEE-94 -- 2021-059BL  
Lynk-6 Shannon – 2021-059BM  
SpaceBEE-93 -- 2021-059BN  
SpaceBEE-91 -- 2021-059BP  
KFS1-C – 2021-059BR  
QMR-KWT – 2021-059BS  
SpaceBEE-95 -- 2021-059BU  
SpaceBEE-99 -- 2021-059BV  
SpaceBEE-90 -- 2021-059BW  
Hawk-3C – 2021-059BX  
SpaceBEE-98 – 2021-059BY  
KSF1-D – 2021-059BZ  
Tanker-001 Tenzing – 2021-059CA  
Astrocast-0204 – 2021-059CB  
Arthur – 2021-059CC  
Astrocast-0201 – 2021-059CD  
Astrocast-0203 – 2021-059CE

Shasta – 2021-059CF  
Hawk-3A – 2021-059CG  
Lemur-2 CarlSantaMari – 2021-059CJ  
Astrocast-0205 – 2021-059CK  
Astrocast-0202 – 2021-059CL  
Ghalib – 2021-059CM  
NAPA-2 – 2021-059CN  
SPARTAN – 2021-059CP  
W-Cube – 2021-059CQ  
Neptuno – 2021-059CR  
OneWeb-0249 -- 2021-060A  
OneWeb-0250 -- 2021-060B  
OneWeb-0251 -- 2021-060C  
OneWeb-0252 -- 2021-060D  
OneWeb-0253 -- 2021-060E  
OneWeb-0254 -- 2021-060F  
OneWeb-0255 -- 2021-060G  
OneWeb-0256 -- 2021-060H  
OneWeb-0257 -- 2021-060J  
OneWeb-0258 -- 2021-060K  
OneWeb-0259 -- 2021-060L  
OneWeb-0260 -- 2021-060M  
OneWeb-0261 -- 2021-060N  
OneWeb-0262 -- 2021-060P  
OneWeb-0263 -- 2021-060Q  
OneWeb-0264 -- 2021-060R  
OneWeb-0265 -- 2021-060S  
OneWeb-0266 -- 2021-060T  
OneWeb-0267 -- 2021-060U  
OneWeb-0268 -- 2021-060V  
OneWeb-0269 -- 2021-060W  
OneWeb-0270 -- 2021-060X  
OneWeb-0271 -- 2021-060Y  
OneWeb-0272 -- 2021-060Z  
OneWeb-0273 -- 2021-060AA  
OneWeb-0274 -- 2021-060AB  
OneWeb-0275 -- 2021-060AC  
OneWeb-0276 -- 2021-060AD  
OneWeb-0277 -- 2021-060AE  
OneWeb-0278 -- 2021-060AF  
OneWeb-0279 -- 2021-060AG  
OneWeb-0280 -- 2021-060AH  
OneWeb-0281 -- 2021-060AJ  
OneWeb-0282 -- 2021-060AK  
OneWeb-0283 -- 2021-060AL  
OneWeb-0284 -- 2021-060AM  
Jilin 1 Kuanfu 01B – 2021-061A  
Jilin-1 Gaofen 03D-01 – 2021-061B  
Jilin-1 Gaofen 03D-02 – 2021-061C  
Jilin-1 Gaofen 03D-03 – 2021-061D  
Fengyun 3E – 2021-062A

TianLian 5 – 2021-063A  
Ningxia-2 01 -- 2021-064A  
Ningxia-2 02 – 2021-064B  
Ningxia-2 03 – 2021-064C  
Ningxia-2 04 – 2021-064D  
Ningxia-2 05 – 2021-064E  
Yaogan 30-10-1 – 2021-065A  
Tianqi 15 – 2021-065-B  
Yaogan 30-10-2 – 2021-065C  
Yaogan 30-10-3 – 2021- 065D  
Tianhui 1-04 – 2021-067A  
Monolith – 2021-068A  
Star One D2 – 2021-069A  
Eutelsat Quantum – 2021-069B  
KL-Beta-A – 2021-070A  
KL-Beta-B – 2021-070B  
Zhongxing 2E – 2021-071A  
BRO-4 – 2021-073A  
RadCube – 2021-073B  
Sunstorm – 2021-073C  
LEDSAT – 2021-073D  
Pléiades Neo 4 – 2021-073E  
Tianhui-2 02-01 – 2021-074A  
Tianhui-2 02-02 – 2021-074B  
OneWeb-0285 -- 2021-075A  
OneWeb-0286 -- 2021-075B  
OneWeb-0287 -- 2021-075C  
OneWeb-0288 -- 2021-075D  
OneWeb-0289 -- 2021-075E  
OneWeb-0290 -- 2021-075F  
OneWeb-0291 -- 2021-075G

OneWeb-0293 -- 2021-075H  
OneWeb-0294 -- 2021-075J  
OneWeb-0295 -- 2021-075K  
OneWeb-0296 -- 2021-075L  
OneWeb-0297 -- 2021-075M  
OneWeb-0298 -- 2021-075N  
OneWeb-0299 -- 2021-075P  
OneWeb-0300 -- 2021-075Q  
OneWeb-0301 -- 2021-075R  
OneWeb-0302 -- 2021-075S  
OneWeb-0304 -- 2021-075T  
OneWeb-0305 -- 2021-075U  
OneWeb-0308 -- 2021-075V  
OneWeb-0309 -- 2021-075W  
OneWeb-0310 -- 2021-075X  
OneWeb-0311 -- 2021-075Y  
OneWeb-0312 -- 2021-075Z  
OneWeb-0313 -- 2021-075AA  
OneWeb-0314 -- 2021-075AB  
OneWeb-0315 -- 2021-075AC  
OneWeb-0316 -- 2021-075AD  
OneWeb-0317 -- 2021-075AE  
OneWeb-0318 -- 2021-075AF  
OneWeb-0319 -- 2021-075AG  
OneWeb-0323 -- 2021-075AH  
OneWeb-0329 -- 2021-075AJ  
OneWeb-0330 -- 2021-075AK  
RSW-1 01 – 2021-076A  
RSW-1 02 – 2021-076C  
TJS-7 – 2021-077A

*Satellites Deployed from International Space Station*

Ramsat – 1998-067SL  
SOAR – 1998-067SM  
Mir-Sat-1 – 1998-067SN

## Changes to the Database for May 1, 2021 Release

This version of the Database includes launches through April 30, 2021. There are currently 4,084 active satellites in the database. The changes to this version of the database include:

- The addition of 836 satellites
- The deletion of 124 satellites
- The addition of and corrections to some satellite data

### *Satellites Deleted from Database for May 1, 2021 Release*

Quetzal-1 – 1998-057RK	ChubuSat 1 – 2014-070C
Lacrosse/Onyx 3 (USA 133) – 1997-064A	TSUBAME – 2014-070E
Diwata-1 – 1998-067HT	GRIFEX – 2015-003D
HaloSat – 1998-067NX	Tianwang 1C – 2015-051B
UiTMSAT-1 – 1998-067PD	Fox-1A – 2015-058D
Maya-1 -- 1998-067PE	ChubuSat 2 – 2016-012B
Tanyusha No. 3 – 1998-067PJ	ChubuSat 3 – 2016-012C
Tanyusha No. 4 – 1998-067PK	AIST-2D – 2016-026B
Catsat-2 -- 1998-067PV	ÑuSat-1 – 2016-033B
Delphini – 1998-067PW	ÑuSat-2 – 2016-033C
Catsat-1 – 1998-067PZ	Dove 2p-6 – 2016-040H
IOD-1 GEMS – 1998-067QK	Dove 2p-10 – 2016-040P
SWIATOWID – 1998-067QM	Dove 2p-12 – 2016-040R
NARSSCUBE-1 – 1998-067QX	Beesat-4 – 2016-040W
TechEdSat-10 – 1998-067RQ	Dove 3p-51 – 2017-008E
Radsat-U – 1998-067RF	Dove 3p-79 – 2017-008AN
ABS-7 – 1999-046A	Dove 3p-86 – 2017-008AP
Nimiq-2 – 2002-062A	Dove 3p-35 – 2017-008AT
DirecTV-7S – 2004-016A	Dove 3p-68 – 2017-008BH
Apstar-6 – 2005-012A	Dove 3p-14 – 2017-008BS
Sinah-1 – 2005-043D	Dove 3p-20 – 2017-008C
MTSAT-2 – 2006-004A	Dove 3p-77 – 2017-008CF
INSAT-4CR – 2007-037A	Dove 3p-47 – 2017-008CN
Yubileiny – 2008-025A	Dove 3p-81 – 2017-008CZ
AIST-2 – 2013-015D	Dove 3p-87 – 2017-008DA
Yaogan-18 – 2013-059A	Dove 3p-83 – 2017-008DG
UWE-3 – 2013-066AG	Lithuanicasat-2 – 2017-036D
BRITE-PL-1 – 2013-066R	Ursa Maior 2017-036M
AIST-1 – 2013-078C	Compass-2 – 2017-036N
RS-47 (Cosmos 2499) – 2014-028E	Pegasus – 2017-036V
Saudisat-4 – 2014-033G	NUDTSat – 2017-036Y
Aurora – 2014-033H	Dove 2k-4 – 2017-042AC
Duchifat-1 – 2014-033M	Dove 2k-47 – 2017-042AF
AISat-1 – 2014-034B	Dove 2k-46 – 2017-042AK
Velox 1 – 2014-034E	Dove 2k-23 – 2017-042AL
DX-1 – 2014-037C	Dove 2k-43 – 2017-042BB
Ukuba-1 – 2014-037F	Dove 2k-25 – 2017-042BM
Hodoyoshi-1 – 2014-070B	Dove 2k-16 – 2017-042BS

Dove 2k-9 – 2017-042BZ  
 Dove 2k-6 – 2017-042CA  
 Fox-1D (AO-92) – 2018-004AC  
 Microsat-TD – 2018-004T  
 EMKA-1 (Cosmos 2525) -- 2018-028A  
 Irvine-1 – 2018-088D  
<sup>3</sup>Cat-1 – 2018-096K  
 Dove 3r-15 – 2018-096T  
 Dove 3r-10 – 2018-096X  
 MINXSS-2 – 2018-099A  
 SNUSat-2 – 2018-099AA  
 SNUGLITE – 2018-099AC  
 Dove 3s-3 – 2018-099AG  
 Astrocast 0.1 – 2018-099AS  
 PWSat-2 – 2018-099BJ  
 Dove 3s-2 – 2018-099BR  
 RSat-P – 2018-104F  
 Dove 3k-8 – 2018-111AB  
 Aoba-VELOX 4 – 2019-003J  
 Dove 4a-4 – 2019-018E  
 Astrocast 0.2 – 2019-018F  
 Dove 4a-18 – 2019-018M  
 Dove 4a-15 – 2019-018Y  
 Dove 4a-14 – 2019-018Z

Dove 4a-13 – 2019-018AA  
 Starlink-26 – 2019-029F  
 Starlink-75 – 2019-029BD  
 SpaceBEE-8 – 2019-037G  
 Starlink-55 – 2019-029AK  
 Starlink-48 – 2019-029BG  
 BricSat-2 – 2019-036S  
 TBEX-A – 2019-036T  
 TBEX-B – 2019-036W  
 LightSat – 2019-038H  
 Exoconnect – 2019-038AA  
 Huskysat-1 – 2019-071J  
 Starlink-1045 – 2019-074AP  
 Dove 4p-9 – 2019-081D  
 Dove 4p-6 – 2019-081P  
 Noor-1A – 2019-084D  
 TRSI-Sat – 2019-084H  
 Duchifat-3 – 2019-089C  
 FloripaSat-1 – 2019-093G  
 Starlink-1175 – 2020-006BF  
 Starlink-1105 -- 2020-012AS  
 Starlink-1447 – 2020-035H  
 Starlink-1702 – 2020-070V  
 Starlink-1900 – 2020-088BG

*Satellites Added to Database for May 1, 2021 Release*

Turksat-5A – 2021-001A  
 CAPE-3 – 2021-002A  
 PolarCube – 2021-002B  
 Prometheus 2-11 – 2021-002E  
 PICS-1 – 2021-002J  
 PICS-2 – 2021-002K  
 ExoCube-2 – 2021-002L  
 CACTUS-1 – 2021-002M  
 Prometheus 2-8 – 2021-002N  
 Tiantong-1-03 – 2021-003A  
 GMS-T – 2021-004A  
 Starlink-1952 – 2021-005A  
 Starlink-2011 – 2021-005B  
 Starlink-2017 – 2021-005C  
 Starlink-2034 – 2021-005D  
 Starlink-2045 – 2021-005E  
 Starlink-2046 – 2021-005F  
 Starlink-2047 – 2021-005G  
 Starlink-2049 – 2021-005H  
 Starlink-2050 – 2021-005J  
 Starlink-2055 – 2021-005K  
 Starlink-2069 – 2021-005L  
 Starlink-2070 – 2021-005M

Starlink-2071 – 2021-005N  
 Starlink-2076 – 2021-005P  
 Starlink-2077 – 2021-005Q  
 Starlink-2079 – 2021-005R  
 Starlink-2080 – 2021-005S  
 Starlink-2081 – 2021-005T  
 Starlink-2082 – 2021-005U  
 Starlink-2084 – 2021-005V  
 Starlink-2085 – 2021-005W  
 Starlink-2086 – 2021-005X  
 Starlink-2088 – 2021-005Y  
 Starlink-2089 – 2021-005Z  
 Starlink-2092 – 2021-005AA  
 Starlink-2093 – 2021-005AB  
 Starlink-2094 – 2021-005AC  
 Starlink-2096 – 2021-005AD  
 Starlink-2097 – 2021-005AE  
 Starlink-2098 – 2021-005AF  
 Starlink-2099 – 2021-005AG  
 Starlink-2100 – 2021-005AH  
 Starlink-2101 – 2021-005AJ  
 Starlink-2102 – 2021-005AK  
 Starlink-2103 – 2021-005AL

Starlink-2104 – 2021-005AM  
Starlink-2105 – 2021-005AN  
Starlink-2106 – 2021-005AP  
Starlink-2108 – 2021-005AQ  
Starlink-2109 – 2021-005AR  
Starlink-2110 – 2021-005AS  
Starlink-2111 – 2021-005AT  
Starlink-2112 – 2021-005AU  
Starlink-2113 – 2021-005AV  
Starlink-2114 – 2021-005AW  
Starlink-2115 – 2021-005AX  
Starlink-2117 – 2021-005AY  
Starlink-2118 – 2021-005AZ  
Starlink-2119 – 2021-005BA  
Starlink-2120 – 2021-005BB  
Starlink-2121 – 2021-005BC  
Starlink-2122 – 2021-005BD  
Starlink-2123 – 2021-005BE  
Starlink-2124 – 2021-005BF  
Starlink-2127 – 2021-005BG  
Starlink-2128 – 2021-005BH  
Starlink-2130 – 2021-005BJ  
Starlink-2133 – 2021-005BK  
Starlink-2134 – 2021-005BL  
Starlink-2135 – 2021-005BM  
Starlink-2199 – 2021-006A  
Starlink-2200 – 2021-006B  
Starlink-2201 – 2021-006C  
Starlink-2202 – 2021-006D  
Starlink-2203 – 2021-006E  
Starlink-2204 – 2021-006F  
Starlink-2205 – 2021-006G  
Starlink-2206 – 2021-006H  
Starlink-2207 – 2021-006J  
Starlink-2208 – 2021-006K  
SpaceBEE-52 – 2021-006N  
SpaceBEE-46 – 2021-006P  
SpaceBEE-47 – 2021-006Q  
SpaceBEE-59 – 2021-006R  
SpaceBEE-62 – 2021-006S  
Astrocast-0101 – 2021-006T  
SpaceBEE-61 – 2021-006U  
SpaceBEE-49 – 2021-006V  
SpaceBEE-60 – 2021-006W  
SpaceBEE-53 – 2021-006X  
UVSQ-Sat – 2021-006AB  
AII-Charlie – 2021-006AD  
ASELSAT – 2021-006AE  
SpaceBEE-63 – 2021-006AF  
SpaceBEE-50 – 2021-006AG  
SpaceBEE-51 – 2021-006AH

SOMP-2b – 2021-006AJ  
Kepler-12 BOBA – 2021-006AK  
SpaceBEE-48 – 2021-006AL  
PIXL-1 – 2021-006AM  
SpaceBEE-40 – 2021-006AN  
Lemur-2 Neva – 2021-006AP  
SpaceBEE-41 – 2021-006AQ  
Dove-4s-22 – 2021-006AR  
Lemur-2-SaoirseDH5Guo – 2021-006AS  
Kepler-13 LUCKY – 2021-006AT  
SpaceBEE-42 – 2021-006AU  
Dove-4s-21 – 2021-006AV  
Lemur-2-NallyWacker – 2021-006AW  
SpaceBEE-55 – 2021-006AY  
SpaceBEE-54 – 2021-006AZ  
Kepler-15 SUDORMRF – 2021-006BA  
Dove-4s-11 – 2021-006BB  
V-R3X 3 – 2021-006BC  
SpaceBEE-58 – 2021-006BD  
SpaceBEE-57 – 2021-006BE  
SpaceBEE-44 – 2021-006BF  
Prometheus 2.10 – 2021-006BG  
SpaceBEE-56 – 2021-006BH  
Dove-4s-33 – 2021-006BJ  
SpaceBEE-45 – 2021-006BK  
Dove-4s-12 – 2021-006BL  
Dove-4s-13 – 2021-006BM  
Dove-4s-35 – 2021-006BN  
Dove-4s-8 – 2021-006BP  
Dove-4s-31 – 2021-006BQ  
Kepler-8 AMAROK – 2021-006BR  
Dove-4s-34 – 2021-006BS  
Dove-4s-9 – 2021-006BT  
Dove-4s-32 – 2021-006BU  
SpaceBEE-43 – 2021-006BV  
Capella-4 – 2021-006BW  
V-R3X 1 – 2021-006BY  
ARCE-1A – 2021-006BZ  
QPS-SAR 2 -- 2021-006CA  
Kepler-14 STELLA – 2021-006CB  
Astrocast-0103 – 2021-006CC  
Astrocast-0102 – 2021-006CD  
Capella-3 – 2021-006CE  
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Jin Zijing 1-02 – 2021-033H  
Taijing 2-01 – 2021-033J  
Pleiades Neo 3 – 2021-034A  
Lemur-2-Amanda-Svant – 2021-034B  
All-Bravo – 2021-034C  
ELO Alpha – 2021-034D  
NorSat-3 – 2021-034E  
Lemur-2-SpecialK – 2021-034F  
Tianhe – 2021-035A  
Starlink-2567 – 2021-036A  
Starlink-2569 – 2021-036B  
Starlink-2543 – 2021-036C  
Starlink-2580 – 2021-036D  
Starlink-2565 – 2021-036E  
Starlink-2520 – 2021-036F  
Starlink-2558 – 2021-036G  
Starlink-2516 – 2021-036H  
Starlink-2564 – 2021-036J  
Starlink-2548 – 2021-036K  
Starlink-2547 – 2021-036L  
Starlink-2566 – 2021-036M  
Starlink-2562 – 2021-036N  
Starlink-2545 – 2021-036P  
Starlink-2540 – 2021-036Q  
Starlink-2555 – 2021-036R  
Starlink-2542 – 2021-036S

Starlink-2550 – 2021-036T  
Starlink-2533 – 2021-036U  
Starlink-2535 – 2021-036V  
Starlink-2546 – 2021-036W  
Starlink-2544 – 2021-036X  
Starlink-2559 – 2021-036Y  
Starlink-2557 – 2021-036Z  
Starlink-2538 – 2021-036AA  
Starlink-2537 – 2021-036AB  
Starlink-2556 – 2021-036AC  
Starlink-2530 – 2021-036AD  
Starlink-2524 – 2021-036AE  
Starlink-2519 – 2021-036AF  
Starlink-2523 – 2021-036AG  
Starlink-2528 – 2021-036AH  
Starlink-2532 – 2021-036AJ  
Starlink-2517 – 2021-036AK  
Starlink-2536 – 2021-036AL  
Starlink-2534 – 2021-036AM  
Starlink-2061 – 2021-036AN  
Starlink-2541 – 2021-036AP  
Starlink-2549 – 2021-036AQ  
Starlink-2506 – 2021-036AR  
Starlink-2507 – 2021-036AS  
Starlink-2513 – 2021-036AT  
Starlink-2509 – 2021-036AU  
Starlink-2512 – 2021-036AV  
Starlink-2029 – 2021-036AW  
Starlink-2457 – 2021-036AX  
Starlink-2477 – 2021-036AY  
Starlink-2515 – 2021-036AZ  
Starlink-2527 – 2021-036BA  
Starlink-2495 – 2021-036BB  
Starlink-2498 – 2021-036BC  
Starlink-2502 – 2021-036BD  
Starlink-2504 – 2021-036BE  
Starlink-2510 – 2021-036BF  
Starlink-2501 – 2021-036BG  
Starlink-2514 – 2021-036BH  
Starlink-2511 – 2021-036BJ  
Starlink-2518 – 2021-036BK  
Starlink-2470 – 2021-036BL  
Starlink-2441 – 2021-036BM  
Yaogan-34 – 2021-037A

*Launches from the International Space Station*

Lemur-2-Baxter-Oliver -- 1998-067RV

WARP-1 -- 1998-067SA

RSP-01 -- 1998-067SB

TAU-Sat-1 -- 1998-067SC

Tsuru -- 1998-067SD

Stars-EC -- 1998-067SE

Hirogari -- 1998-067SG

GuarantiSat-1 -- 1998-067SH

## Changes to the Database for January 1, 2021 Release

This version of the Database includes launches through December 31, 2020. There are currently 3,372 active satellites in the database. The changes to this version of the database include:

- The addition of 651 satellites
- The deletion of 66 satellites
- The addition of and corrections to some satellite data

### *Satellites Deleted for January 1, 2021 Release*

Iridium 45 – 1997-082A	Starlink-29 – 2019-029J
Iridium 61 – 1998-018B	Starlink-30 – 2019-029K
CubeRRT -- 1998-067NU	Starlink-21 – 2019-029L
RainCube – 1998-067NW	Starlink-33 – 2019-029N
EquiSat – 1998-067PA	Starlink-34 – 2019-029P
Bhutan-1 – 1998-067PF	Starlink-37 – 2019-029S
SiriusSat-1 -- 1998-067PG	Starlink-39 – 2019-029U
SiriusSat-2 -- 1998-067PH	Starlink-32 – 2019-029V
Eutelsat 12 West B – 2001-042A	Starlink-40 – 2019-029Z
PCSat -- 2001-043C	Starlink-45 – 2019-029AB
Iridium 96 – 2002-005E	Starlink-44 – 2019-029AC
Intelsat 903 -- 2002-016A	Starlink-49 – 2019-029AD
N-Star C – 2002-035B	Starlink-72 – 2019-029AE
DTRS (Kodama) – 2002-042B	Starlink-35 – 2019-029AF
Intelsat 907 – 2003-007A	Starlink-63 – 2019-029AG
Parus-95 (Cosmos 2407) – 2004-028A	Starlink-54 – 2019-029AH
Parus-96 (Cosmos 2414) – 2005-002A	Starlink-69 – 2019-029AJ
Beidou G1 (Compass G-1) -- 2010-001A	Starlink-59 – 2019-029AN
Parus-99 (Cosmos 2463) – 2010-017A	Starlink-51 – 2019-029AP
Gonets M-05 – 2010-043B	Starlink-65 – 2019-029AT
Gonets M-03 – 2012-041B	Starlink-38 – 2019-029AX
Gonets M-04 – 2012-041D	Starlink-56 – 2019-029BA
Beidou 3M-3S -- 2016-006A	Starlink-78 – 2019-029BH
Tintin A (Starlink Demo 1) – 2018-020B	Starlink-77 – 2019-029BJ
Mycroft (USA 285) -- 2018-036A	Starlink-81 – 2019-029BK
KazSciSat-1 -- 2018-099AF	Starlink-74 – 2019-029BL
Dove 3k-3 – 2018-111S	Starlink-53 – 2019-029BM
Dove 4a-1 – 2019-018B	GPIM (Green Propellant Infusion Mission) – 2019-036D
Dove 4a-10 – 2019-018V	Dove 4p-8 – 2019-081M
Dove 4a-12 – 2019-018AE	Fossasat – 2019-084F
Starlink-31 – 2019-029A	ATL-1 – 2019-084H
Starlink-23 – 2019-029C	SMOG-P – 2019-084J
Starlink-25 – 2019-029E	
Starlink-27 – 2019-029G	

*Satellites Added for January 1, 2021 Release*

Dove 4p-8 – 2019-081M  
Gaofen 9-04 – 2020-054A  
Zhongli yu Daqi Kexue – 2020-054B  
Starlink-1522 -- 2020-055A  
Starlink-1523 – 2020-055B  
Starlink-1526 – 2020-055C  
Starlink-1534 – 2020-055D  
Starlink-1544 – 2020-055E  
Starlink-1555 – 2020-055F  
Starlink-1556 – 2020-055G  
Starlink-1557 – 2020-055H  
Starlink-1558 – 2020-055J  
Starlink-1560 – 2020-055K  
Starlink-1565 – 2020-055L  
Starlink-1567 – 2020-055M  
Starlink-1569 – 2020-055N  
Starlink-1576 – 2020-055P  
Starlink-1580 – 2020-055Q  
Starlink-1581 – 2020-055R  
Starlink-1582 – 2020-055S  
Starlink-1584 – 2020-055T  
Starlink-1591 – 2020-055U  
Starlink-1514 – 2020-055V  
Starlink-1524 – 2020-055W  
Starlink-1527 – 2020-055X  
Starlink-1530 – 2020-055Y  
Starlink-1535 – 2020-055Z  
Starlink-1540 – 2020-055AA  
Starlink-1541 – 2020-055AB  
Starlink-1543 – 2020-055AC  
Starlink-1548 – 2020-055AD  
Starlink-1554 – 2020-055AE  
Starlink-1561 – 2020-055AF  
Starlink-1562 – 2020-055AG  
Starlink-1564 – 2020-055AH  
Starlink-1570 – 2020-055AJ  
Starlink-1572 – 2020-055AK  
Starlink-1573 – 2020-055AL  
Starlink-1574 – 2020-055AM  
Starlink-1577 – 2020-055AN  
Starlink-1583 – 2020-055AP  
Starlink-1515 – 2020-055AQ  
Starlink-1525 – 2020-055AR  
Starlink-1529 – 2020-055AS  
Starlink-1532 – 2020-055AT  
Starlink-1533 – 2020-055AU  
Starlink-1536 – 2020-055AV  
Starlink-1538 – 2020-055AW  
Starlink-1539 – 2020-055AX

Starlink-1542 – 2020-055AY  
Starlink-1549 – 2020-055AZ  
Starlink-1551 – 2020-055BA  
Starlink-1552 – 2020-055BB  
Starlink-1559 – 2020-055BC  
Starlink-1563 – 2020-055BD  
Starlink-1566 – 2020-055BE  
Starlink-1568 – 2020-055BF  
Starlink-1571 – 2020-055BG  
Starlink-1578 – 2020-055BH  
Starlink-1579 – 2020-055BJ  
BlackSky Global 7 – 2020-055BP  
BlackSky Global 8 – 2020-055BQ  
BSAT-4B – 2020-056A  
MEV-2 – 2020-056B  
(5) Galaxy 30 – 2020-056C  
Starlink-1585 – 2020-057A  
Starlink-1588 – 2020-057B  
Starlink-1593 – 2020-057C  
Starlink-1601 – 2020-057D  
Starlink-1602 – 2020-057E  
Starlink-1604 – 2020-057F  
Starlink-1605 – 2020-057G  
Starlink-1614 – 2020-057H  
Starlink-1618 – 2020-057J  
Starlink-1619 – 2020-057K  
Starlink-1621 – 2020-057L  
Starlink-1622 – 2020-057M  
Starlink-1623 – 2020-057N  
Starlink-1624 – 2020-057P  
Starlink-1625 – 2020-057Q  
Starlink-1630 – 2020-057R  
Starlink-1637 – 2020-057S  
Starlink-1638 – 2020-057T  
Starlink-1639 – 2020-057U  
Starlink-1643 – 2020-057V  
Starlink-1586 – 2020-057W  
Starlink-1590 – 2020-057X  
Starlink-1592 – 2020-057Y  
Starlink-1594 – 2020-057Z  
Starlink-1596 – 2020-057AA  
Starlink-1597 – 2020-057AB  
Starlink-1599 – 2020-057AC  
Starlink-1606 – 2020-057AD  
Starlink-1607 – 2020-057AE  
Starlink-1608 – 2020-057AF  
Starlink-1611 – 2020-057AG  
Starlink-1616 – 2020-057AH  
Starlink-1620 – 2020-057AJ



Starlink-1629 – 2020-057AK  
Starlink-1631 – 2020-057AL  
Starlink-1634 – 2020-057AM  
Starlink-1636 – 2020-057AN  
Starlink-1642 – 2020-057AP  
Starlink-1667 – 2020-057AQ  
Starlink-1545 – 2020-057AR  
Starlink-1587 – 2020-057AS  
Starlink-1589 – 2020-057AT  
Starlink-1595 – 2020-057AU  
Starlink-1598 – 2020-057AV  
Starlink-1600 – 2020-057AW  
Starlink-1603 – 2020-057AX  
Starlink-1610 – 2020-057AY  
Starlink-1612 – 2020-057AZ  
Starlink-1613 – 2020-057BA  
Starlink-1615 – 2020-057BB  
Starlink-1626 – 2020-057BC  
Starlink-1627 – 2020-057BD  
Starlink-1628 – 2020-057BE  
Starlink-1632 – 2020-057BF  
Starlink-1633 – 2020-057BG  
Starlink-1635 – 2020-067BH  
Starlink-1640 – 2020-057BJ  
Starlink-1641 – 2020-057BK  
SkySat-19 – 2020-057BQ  
SkySat-20 – 2020-057BR  
SkySat-21 – 2020-057BS  
Gaofen 9-05 – 2020-058A  
Tiantuo-5 – 2020-058B  
Duogongneng Shiyan Weixing – 2020-058C  
SAOCOM-1B – 2020-059A  
GNOMES-1 – 2020-059B  
Tyvak-0172 – 2020-059C  
Capella-2 -- 2020-060B  
ÑuSat-6– 2020-061A  
ESAIL – 2020-061B  
ION SVC Lucas – 2020-061C  
Athena – 2020-061D  
UPMSat-2 – 2020-061E  
NEMO-HD – 2020-061F  
GHGSat-C1 – 2020-061G  
SIMBA – 2020-061H  
TRISAT – 2020-061J  
PICASSO – 2020-061K  
Dove 4v-9 – 2020-061L  
Dove 4v-12 – 2020-061M  
Dido-3 – 2020-061N  
Dove 4v-11 – 2020-061P  
Dove 4v-14 – 2020-061Q  
Dove 4v-8 – 2020-061S

Dove 4v-6 – 2020-061T  
Dove 4v-5 – 2020-061U  
Dove 4v-7 – 2020-061V  
FSSCAT A – 2020-061W  
FSSCAT B – 2020-061X  
Tyvak-0088 – 2020-061Y  
Tyvak-0171 – 2020-061Z  
Dove 4v-10 – 2020-061AA  
Dove 4v-13 – 2020-061AB  
Lemur-2-EthanOakes – 2020-061AC  
Lemur-2-Oscarlator – 2020-061AD  
Spacebee 21 – 2020-061AE  
Spacebee 20 – 2020-061AF  
Spacebee 15 – 2020-061AG  
Spacebee 19 – 2020-061AH  
Spacebee 18 – 2020-061AJ  
Spacebee 10 – 2020-061AK  
Spacebee 17 – 2020-061AL  
Spacebee 11 – 2020-061AM  
Spacebee 16 – 2020-061AN  
Spacebee 12 – 2020-061AP  
Spacebee 13 – 2020-061AQ  
Spacebee 14 – 2020-061AR  
TTU100 – 2020-061AS  
Dove 4v-1 – 2020-061AT  
Dove 4v-4 – 2020-061AU  
Lemur-2-Schmidtfall – 2020-061AV  
Lemur-2-Djuproera – 2020-061AW  
Lemur-2-Squarejaws – 2020-061AX  
Lemur-2-Ursa Avion – 2020-061AY  
TARS – 2020-061AZ  
NAPA-1 – 2020-061BA  
Dove 4v-2 – 2020-061BB  
Dove 4v-3 – 2020-061BC  
Dove 4v-16 – 2020-061BD  
Dove 4v-15 – 2020-061BE  
Dove 4v-17 – 2020-061BF  
Dove 4v-18 – 2020-061BG  
Dove 4v-19 – 2020-061BH  
Dove 4v-20 – 2020-061BJ  
Dove 4v-21 – 2020-061BK  
Dove 4v-22 – 2020-061BL  
Dove 4v-23 – 2020-061BM  
Dove 4v-24 – 2020-061BN  
Dove 4v-25 – 2020-061BP  
Dove 4v-26 – 2020-061PQ  
Starlink-1734 – 2020-062A  
Starlink-1654 – 2020-062B  
Starlink-1673 – 2020-062C  
Starlink-1686 – 2020-062D  
Starlink-1695 – 2020-062E

Starlink-1710 – 2020-062F  
Starlink-1719 – 2020-062G  
Starlink-1721 – 2020-062H  
Starlink-1723 – 2020-062J  
Starlink-1725 – 2020-062K  
Starlink-1727 – 2020-062L  
Starlink-1738 – 2020-062M  
Starlink-1750 – 2020-062N  
Starlink-1752 – 2020-062P  
Starlink-1757 – 2020-062Q  
Starlink-1759 – 2020-062R  
Starlink-1760 – 2020-062S  
Starlink-1762 – 2020-062T  
Starlink-1764 – 2020-062U  
Starlink-1765 – 2020-062V  
Starlink-1767 – 2020-062W  
Starlink-1546 – 2020-062X  
Starlink-1547 – 2020-062Y  
Starlink-1553 – 2020-062Z  
Starlink-1575 – 2020-062AA  
Starlink-1617 – 2020-062AB  
Starlink-1646 – 2020-062AC  
Starlink-1653 – 2020-062AD  
Starlink-1656 – 2020-062AE  
Starlink-1657 – 2020-062AF  
Starlink-1661 – 2020-062AG  
Starlink-1665 – 2020-062AH  
Starlink-1666 – 2020-062AJ  
Starlink-1690 – 2020-062AK  
Starlink-1707 – 2020-062AL  
Starlink-1713 – 2020-062AM  
Starlink-1722 – 2020-062AN  
Starlink-1726 – 2020-062AP  
Starlink-1739 – 2020-062AQ  
Starlink-1763 – 2020-062AR  
Starlink-1550 – 2020-062AS  
Starlink-1651 – 2020-062AT  
Starlink-1652 – 2020-062AU  
Starlink-1658 – 2020-062AV  
Starlink-1662 – 2020-062AW  
Starlink-1670 – 2020-062AX  
Starlink-1688 – 2020-062AY  
Starlink-1689 – 2020-062AZ  
Starlink-1691 – 2020-062BA  
Starlink-1711 – 2020-062BB  
Starlink-1724 – 2020-062BC  
Starlink-1742 – 2020-062BD  
Starlink-1745 – 2020-062BE  
Starlink-1751 – 2020-062BF  
Starlink-1756 – 2020-062BG  
Starlink-1758 – 2020-062BH

Starlink-1768 – 2020-062BJ  
Starlink-1769 – 2020-062BK  
Starlink-1770 – 2020-062BL  
Starlink-1771 – 2020-062BM  
Gaofen 11-2 – 2020-064A  
Jilin-1 GaoFen 03B-01 – 2020-065A  
Jilin-1 GaoFen 03B-02 – 2020-065B  
Jilin-1 GaoFen 03B-03 – 2020-065C  
Jilin-1 GaoFen 03B-04 – 2020-065D  
Jilin-1 GaoFen 03B-05 – 2020-065E  
Jilin-1 GaoFen 03B-06 – 2020-065F  
Jilin-1 GaoFen 03C-01 – 2020-065G  
Jilin-1 GaoFen 03C-02 – 2020-065H  
Jilin-1 GaoFen 03C-03 – 2020-065J  
Haiyang 2C -- 2020-066A  
Huanjing-2A – 2020-067A  
Huanjing-2B – 2020-067B  
Gonets M-27 – 2020-068A  
Gonets M-28 – 2020-068B  
Gonets M-29 – 2020-068C  
MeznSat – 2020-068D  
Yarilo-1 – 2020-068E  
Yarilo-2 – 2020-068F  
LacunaSat 3 – 2020-068G  
Dekart (Descartes) – 2020-068H  
Norbi – 2020-068J  
SALSAT – 2020-068K  
ICESAT-X7 – 2020-068L  
ICESAT-X6 – 2020-068M  
Kepler-4 – 2020-068N  
Kepler-5 – 2020-068P  
Lemur-2-Slicers – 2020-068Q  
Lemur-2-DayWzaGoodDay – 2020-068R  
Lemur-2-Susurrus -- 2020-068S  
Lemur-2-Nichol – 2020-068T  
Netsat-4 – 2020-068U  
Netsat-3 – 2020-068V  
Netsat-1 – 2020-068W  
Netsat-2 – 2020-068X  
Starlink-1644 – 2020-070A  
Starlink-1648 – 2020-070B  
Starlink-1659 – 2020-070C  
Starlink-1663 – 2020-070D  
Starlink-1668 – 2020-070E  
Starlink-1672 – 2020-070F  
Starlink-1678 – 2020-070G  
Starlink-1684 – 2020-070H  
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Starlink-1694 – 2020-070N  
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Starlink-1697 – 2020-070Q  
Starlink-1698 – 2020-070R  
Starlink-1699 – 2020-070S  
Starlink-1700 – 2020-070T  
Starlink-1701 -- 2020-070U  
Starlink-1702 – 2020-070V  
Starlink-1649 – 2020-070W  
Starlink-1664 – 2020-070X  
Starlink-1671 -- 2020-070Y  
Starlink-1674 – 2020-070Z  
Starlink-1676 – 2020-070AA  
Starlink-1679 – 2020-070AB  
Starlink-1680 – 2020-070AC  
Starlink-1681 – 2020-070AD  
Starlink-1706 – 2020-070AE  
Starlink-1709 – 2020-070AF  
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Starlink-1735 – 2020-070AK  
Starlink-1740 – 2020-070AL  
Starlink-1741 – 2020-070AM  
Starlink-1743 – 2020-070AN  
Starlink-1747 – 2020-070AP  
Starlink-1748 – 2020-070AQ  
Starlink-1753 – 2020-070AR  
Starlink-1531 – 2020-070AS  
Starlink-1650 – 2020-070AT  
Starlink-1660 – 2020-070AU  
Starlink-1675 – 2020-070AV  
Starlink-1677 – 2020-070AW  
Starlink-1682 – 2020-070AX  
Starlink-1683 – 2020-070AY  
Starlink-1705 – 2020-070AZ  
Starlink-1708 – 2020-070BA  
Starlink-1712 – 2020-070BB  
Starlink-1728 – 2020-070BC  
Starlink-1729 – 2020-070BD  
Starlink-1732 – 2020-070BE  
Starlink-1736 – 2020-070BF  
Starlink-1737 – 2020-070BG  
Starlink-1744 – 2020-070BH  
Starlink-1746 – 2020-070BJ  
Starlink-1749 – 2020-070BK  
Starlink-1754 – 2020-070BL  
Starlink-1755 – 2020-070BM  
Gaofen-13 – 2020-071A  
Starlink-1715 – 2020-073B  
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Starlink-1717 – 2020-073D  
Starlink-1718 – 2020-073E  
Starlink-1720 – 2020-073F  
Starlink-1731 – 2020-073G  
Starlink-1766 – 2020-073H  
Starlink-1773 – 2020-073K  
Starlink-1774 – 2020-073L  
Starlink-1775 – 2020-073M  
Starlink-1776 – 2020-073N  
Starlink-1778 – 2020-073P  
Starlink-1780 – 2020—073Q  
Starlink-1781 – 2020-073R  
Starlink-1783 – 2020-073S  
Starlink-1784 – 2020-073T  
Starlink-1786 – 2020-073U  
Starlink-1788 – 2020-073V  
Starlink-1789 – 2020-073W  
Starlink-1790 – 2020-073X  
Starlink-1791 – 2020-073Y  
Starlink-1792 – 2020-073Z  
Starlink-1793 – 2020-073AA  
Starlink-1794 – 2020-073AB  
Starlink-1795 – 2020-073AC  
Starlink-1796 – 2020-073AD  
Starlink-1797 – 2020-073AE  
Starlink-1799 – 2020-073AF  
Starlink-1800 – 2020-073AG  
Starlink-1801 – 2020-073AH  
Starlink-1802 – 2020-073AJ  
Starlink-1803 – 2020-073AK  
Starlink-1804 – 2020-073AL  
Starlink-1805 – 2020-073AM  
Starlink-1807 – 2020-073AN  
Starlink-1808 – 2020-073AP  
Starlink-1809 – 2020-073AQ  
Starlink-1810 – 2020-073AR  
Starlink-1811 – 2020-073AS  
Starlink-1813 – 2020-073AT  
Starlink-1814 – 2020-073AU  
Starlink-1815 – 2020-073AV  
Starlink-1816 – 2020-073AW  
Starlink-1817 – 2020-073AX  
Starlink-1818 – 2020-073AY  
Starlink-1820 – 2020-073AZ  
Starlink-1821 – 2020-073BA  
Starlink-1822 – 2020-073BB  
Starlink-1823 – 2020-073BC  
Starlink-1824 – 2020-073BD  
Starlink-1825 – 2020-073BE  
Starlink-1826 – 2020—073BF  
Starlink-1827 – 2020-073BG

Starlink-1828 – 2020-073BH  
Starlink-1829 – 2020-073BJ  
Starlink-1830 – 2020-073BK  
Starlink-1831 – 2020-073BL  
Starlink-1841 – 2020-073BM  
Starlink-1847 – 2020-074A  
Starlink-1848 – 2020-074B  
Starlink-1865 – 2020-074C  
Starlink-1872 – 2020-074D  
Starlink-1892 – 2020-074E  
Starlink-1894 – 2020-074F  
Starlink-1898 – 2020-074G  
Starlink-1905 – 2020-074H  
Starlink-1908 – 2020-074J  
Starlink-1910 – 2020-074K  
Starlink-1911 – 2020-074L  
Starlink-1920 – 2020-074N  
Starlink-1921 – 2020-074P  
Starlink-1922 – 2020-074Q  
Starlink-1923 – 2020-074R  
Starlink-1924 – 2020-074S  
Starlink-1925 – 2020-074T  
Starlink-1926 – 2020-074U  
Starlink-1928 – 2020-074V  
Starlink-1833 – 2020-074W  
Starlink-1896 – 2020-074X  
Starlink-1897 – 2020-074Y  
Starlink-1901 – 2020-074Z  
Starlink-1902 – 2020-074AA  
Starlink-1903 – 2020-074AB  
Starlink-1906 – 2020-074AC  
Starlink-1916 – 2020-074AD  
Starlink-1917 – 2020-074AE  
Starlink-1918 – 2020-074AF  
Starlink-1919 – 2020-074AG  
Starlink-1932 – 2020-074AH  
Starlink-1935 – 2020-074AJ  
Starlink-1936 – 2020-074AK  
Starlink-1937 – 2020-074AL  
Starlink-1939 – 2020-074AM  
Starlink-1945 – 2020-074AN  
Starlink-1946 – 2020-074AP  
Starlink-1949 – 2020-074AQ  
Starlink-1798 – 2020-074AS  
Starlink-1832 – 2020-074AT  
Starlink-1834 – 2020-074AU  
Starlink-1835 – 2020-074AV  
Starlink-1851 – 2020-074AW  
Starlink-1882 – 2020-074AX  
Starlink-1883 – 2020-074AY  
Starlink-1893 – 2020-074AZ

Starlink-1899 – 2020-074BA  
Starlink-1929 – 2020-074BB  
Starlink-1930 – 2020-074BC  
Starlink-1931 – 2020-074BD  
Starlink-1933 – 2020-074BE  
Starlink-1934 – 2020-074BF  
Starlink-1941 – 2020-074BG  
Starlink-1942 – 2020-074BH  
Starlink-1943 – 2020-074BJ  
Starlink-1944 – 2020-074BK  
Starlink-1947 – 2020-074BL  
Starlink-1948 – 2020-074BM  
Glonass 705 (Cosmos 2547) – 2020-075A  
Yaogan 30-19 – 2020-076A  
Yaogan 30-20 – 2020-076B  
Yaogan 30-21 – 2020-076C  
Tianqi-7 – 2020-076D  
Dove 4e'-1 – 2020-077A  
Dove 4e'-7 – 2020-077B  
Dove 4e'-9 – 2020-077C  
Dove 4e'-8 – 2020-077D  
Dove 4e'-5 – 2020-077E  
CE-SAT-2B – 2020-077F  
Dove 4e'-3 – 2020-077G  
Dove 4e'-2 – 2020-077H  
Dove 4e'-4 – 2020-077J  
Dove 4e'-6 – 2020-077K  
Navstar GPS III-4 SVN 77 (USA 309) – 2020-078A  
ÑuSat-12 – 2020-079A  
ÑuSat-9 – 2020-079B  
ÑuSat-11 – 2020-079C  
ÑuSat-15 – 2020-079D  
ÑuSat-14 – 2020-079E  
ÑuSat-10 – 2020-079F  
ÑuSat-13 – 2020-079G  
ÑuSat-17 – 2020-079J  
ÑuSat-18 – 2020-079K  
ÑuSat-16 – 2020-079P  
Tianqi-11 – 2020-080A  
EOS-1 – 2020-081A  
KSM-1A – 2020-081B  
KSM-1B – 2020-081C  
KSM-1C – 2020-081H  
KSM-1D – 2020-081K  
Lemur-2-Ozarak – 2020-081D  
Lemur-2-Jindra – 2020-081E  
Lemur-2-Wallace – 2020-081F  
Lemur-2-Jeremiah—2020-081G  
Tiantong 1-02 – 2020-082A  
USA 310 – 2020-083A

CORVUS BC5 -- 2020-085C  
SpaceBEE-34 -- 2020-085E  
SpaceBEE-35 -- 2020-085F  
SpaceBEE-36 -- 2020-085G  
SpaceBEE-37 -- 2020-085H  
SpaceBEE-38 -- 2020-085J  
SpaceBEE NZ3 -- 2020-085K  
SpaceBEE NZ4 -- 2020-085L  
BRO-2 -- 2020-085M  
SpaceBEE NZ5 -- 2020-085N  
SpaceBEE NZ6 -- 2020-085P  
BRO-3 -- 2020-085Q  
SpaceBEE-33 -- 2020-085R  
SpaceBEE-32 -- 2020-085S  
SpaceBEE-30 -- 2020-085T  
SpaceBEE-31 -- 2020-085U  
SpaceBEE-28 -- 2020-085V  
SpaceBEE-29 -- 2020-085W  
SpaceBEE-27 -- 2020-085X  
SpaceBEE-25 -- 2020-085Y  
SpaceBEE-24 -- 2020-085Z  
SpaceBEE-22 -- 2020-085AA  
SpaceBEE-26 -- 2020-085AD  
SpaceBEE NZ2 -- 2020-085AE  
SpaceBEE 39 -- 2020-085AF  
SpaceBEE NZ1 -- 2020-085AG  
SpaceBEE-23 -- 2020-085AH  
(66) Sentinel-6 -- 2020-086A  
Starlink-1777 -- 2020-088A  
Starlink-1779 -- 2020-088B  
Starlink-1785 -- 2020-088C  
Starlink-1787 -- 2020-088D  
Starlink-1812 -- 2020-088E  
Starlink-1836 -- 2020-088F  
Starlink-1837 -- 2020-088G  
Starlink-1838 -- 2020-088H  
Starlink-1839 -- 2020-088J  
Starlink-1840 -- 2020-088K  
Starlink-1842 -- 2020-088L  
Starlink-1843 -- 2020-088M  
Starlink-1844 -- 2020-088N  
Starlink-1845 -- 2020-088P  
Starlink-1846 -- 2020-088Q  
Starlink-1849 -- 2020-088R  
Starlink-1850 -- 2020-088S  
Starlink-1852 -- 2020-088T  
Starlink-1853 -- 2020-088U  
Starlink-1854 -- 2020-088V  
Starlink-1855 -- 2020-088W  
Starlink-1856 -- 2020-088X  
Starlink-1857 -- 2020-088Y

Starlink-1858 -- 2020-088Z  
Starlink-1859 -- 2020-088AA  
Starlink-1860 -- 2020-088AB  
Starlink-1861 -- 2020-088AC  
Starlink-1862 -- 2020-088AD  
Starlink-1863 -- 2020-088AE  
Starlink-1864 -- 2020-088AF  
Starlink-1866 -- 2020-088AG  
Starlink-1867 -- 2020-088AH  
Starlink-1868 -- 2020-088AJ  
Starlink-1869 -- 2020-088AK  
Starlink-1870 -- 2020-088AL  
Starlink-1871 -- 2020-088AM  
Starlink-1873 -- 2020-088AN  
Starlink-1874 -- 2020-088AP  
Starlink-1875 -- 2020-088AQ  
Starlink-1876 -- 2020-088AR  
Starlink-1877 -- 2020-088AS  
Starlink-1878 -- 2020-088AT  
Starlink-1879 -- 2020-088AU  
Starlink-1880 -- 2020-088AV  
Starlink-1881 -- 2020-088AW  
Starlink-1884 -- 2020-088AX  
Starlink-1885 -- 2020-088AY  
Starlink-1886 -- 2020-088AZ  
Starlink-1887 -- 2020-088BA  
Starlink-1888 -- 2020-088BB  
Starlink-1889 -- 2020-088BC  
Starlink-1890 -- 2020-088BD  
Starlink-1891 -- 2020-088BE  
Starlink-1895 -- 2020-088BF  
Starlink-1900 -- 2020-088BG  
Starlink-1907 -- 2020-088BH  
Starlink-1912 -- 2020-088BJ  
Starlink-1913 -- 2020-088BK  
Starlink-1914 -- 2020-088BL  
Starlink-1927 -- 2020-088BM  
LUCAS (JDRS-1) -- 2020-089A  
FalconEye-2 -- 2020-090A  
Gonets M-30 -- 2020-091A  
Gonets M-31 -- 2020-091B  
Gonets M-32 -- 2020-091C  
ERA-1 (Cosmos 2548) -- 2020-091D  
Gaofen-14 -- 2020-092A  
GECAM A -- 2020-094A  
GECAM B -- 2020-094B  
Advanced Orion 10 (USA 311) -- 2020-095A  
Sirius XM-7 -- 2020-096A  
StriX- $\alpha$  -- 2020-098A  
CMS-1 -- 2020-099A  
OneWeb-0102 -- 2020-100A

OneWeb-0109 – 2020-100B  
OneWeb-0110 – 2020-100C  
OneWeb-0111 – 2020-100D  
OneWeb-0114 – 2020-100E  
OneWeb-0117 – 2020-100F  
OneWeb-0118 – 2020-100G  
OneWeb-0119 – 2020-100H  
OneWeb-0120 – 2020-100J  
OneWeb-0121 – 2020-100K  
OneWeb-0122 – 2020-100L  
OneWeb-0123 – 2020-100M  
OneWeb-0124 – 2020-100N  
OneWeb-0125 – 2020-100P  
OneWeb-0126 – 2020-100Q  
OneWeb-0127 – 2020-100R  
OneWeb-0128 – 2020-100S  
OneWeb-0129 – 2020-100T  
OneWeb-0130 – 2020-100U  
OneWeb-0131 – 2020-100V  
OneWeb-0132 – 2020-100W  
OneWeb-0133 – 2020-100X  
OneWeb-0134 – 2020-100Y  
OneWeb-0135 – 2020-100Z  
OneWeb-0136 – 2020-100AA  
OneWeb-0137 – 2020-100AB  
OneWeb-0138 – 2020-100AC  
OneWeb-0139 – 2020-100AD  
OneWeb-0140 – 2020-100AE  
OneWeb-0141 – 2020-100AF  
OneWeb-0142 – 2020-100AG  
OneWeb-0143 – 2020-100AH  
OneWeb-0144 – 2020-100AJ  
OneWeb-0145 – 2020-100AK  
OneWeb-0146 – 2020-100AL  
OneWeb-0147 – 2020-100AM  
USA 312 – 2020-101A  
USA 313 – 2020-101B  
Tianqi-8 – 2020-102A  
Hisea-1 – 2020-102B  
XJY-7 – 2020-102C  
Yuanguang – 2020-102D  
ET-SMART-RSS – 2020-102E  
Yaogan-33 – 2020-103A  
CSO-2 – 2020-104A

*Satellites Launched from International Space Station*

Bobcat-1 – 1998-067RS  
Lemur-2 Baxter-Oliver – 1998-067RV  
Lemur-2 DJara – 1998-067RW

This version of the Database includes launches through July 31, 2020. There are currently 2,787 active satellites in the database. The changes to this version of the database include:

- The addition of 247 satellites
- The deletion of 126 satellites
- The addition of and corrections to some satellite data

### **Additions and Deletions for UCS Satellite Database Release August 1, 2020**

#### *Deletions for August 1, 2020 Release*

ZA-Aerosat – 1998-067LU  
Nsight-1 – 1998-067MF  
ASTERIA – 1998-067NH  
INMARSAT 3-F1 – 1996-020A  
INMARSAT 3-F2 – 1996-053A  
Navstar GPS SVN 60 (USA 178) – 2004-023A  
RapidEye-1 – 2008-040C  
RapidEye-2 – 2008-040A  
RapidEye-3 – 2008-040D  
RapidEye-4 – 2008-040E  
RapidEye-5 – 2008-040B  
Dove 2 – 2013-015c  
Dove 3 – 2013-066P  
Dove 1c-10 – 2014-033P  
Dove 1c-7 – 2014-033S  
Dove 1c-1 – 2014-033T  
Dove 1c-2 – 2014-033V  
Dove 1c-4 – 2014-033X  
Dove 1c-11 – 2014-033Z  
Dove 1c-9 – 2014-033AB  
Dove 1c-6 – 2014-033AC  
Dove 1c-5 – 2014-033AE  
Dove 1c-8 – 2014-033AG  
Dove 1c-3 – 2014-033AH  
Dove 3m-1 – 2016-040J  
Dove 2p-11 – 2016-040K  
Dove 2p-2 – 2016-040L  
Dove 2p-4 – 2016-040N  
Dove 2p-7 – 2016-040S  
Dove 2p-5 – 2016-040T  
Dove 2p-1 – 2016-040U  
Dove 3p-37 – 2017-008F  
Dove 3p-19 – 2017-008H  
Dove 3p-18 – 2017-008K  
Dove 3p-22 – 2017-008L

Dove 3p-21 – 2017-008M  
Dove 3p-28 – 2017-008N  
Dove 3p-26 – 2017-008P  
Dove 3p-17 – 2017-008Q  
Dove 3p-27 – 2017-008R  
Dove 3p-25 – 2017-008S  
Dove 3p-1 – 2017-008V  
Dove 3p-6 – 2017-008X  
Dove 3p-7 – 2017-008Y  
Dove 3p-5 – 2017-008Z  
Dove 3p-9 – 2017-008AB  
Dove 3p-10 – 2017-008AC  
Dove 3p-75 – 2017-008AH  
Dove 3p-73 – 2017-008AK  
Dove 3p-36 – 2017-008AQ  
Dove 3p-30 – 2017-008AR  
Dove 3p-67 – 2017-008BG  
Dove 3p-41 – 2017-008BJ  
Dove 3p-45 – 2017-008BK  
Dove 3p-48 – 2017-008BL  
Dove 3p-43 – 2017-008BM  
Dove 3p-42 – 2017-008BN  
Dove 3p-16 – 2017-008BR  
Dove 3p-53 – 2017-008BT  
Dove 2k-14 – 2017-008BV  
Dove 3p-84 – 2017-008CB  
Dove 3p-59 – 2017-008CC  
Dove 3p-71 – 2017-008CE  
Dove 3p-52 – 2017-008CL  
Dove 3p-46 – 2017-008CM  
Dove 3p-44 – 2017-008CP  
Dove 3p-63 – 2017-008CR  
Dove 3p-62 – 2017-008CS  
Dove 3p-38 – 2017-008CT  
Dove 3p-39 – 2017-008CU  
Dove 3p-15 – 2017-008CV  
Dove 3p-13 – 2017-008CW  
Dove 3p-56 – 2017-008CY  
Dove 3p-29 – 2017-008DB  
Dove 3p-82 – 2017-008DC  
Dove 3p-78 – 2017-008DD  
Dove 3p-72 – 2017-008DH  
Venta-1 – 2017-036AC  
Dove 2k-1 – 2017-042AD  
Dove 2k-2 – 2017-042AE  
Dove 2k-48 – 2017-042AG  
Dove 2k-24 – 2017-042AJ  
Dove 3p-88 – 2017-042AL  
Dove 3p-85 – 2017-042AM  
Dove 2k-22 – 2017-042AN  
Dove 2k-8 – 2017-042AQ



Dove 2k-5 – 2017-042AR  
Cicero-1 -- 2017-042U  
Dove 2k-38 – 2017-042AV  
Dove 2k-36 – 2017-042BD  
Dove 2k-34 – 2017-042BF  
Dove 2k-33 – 2017-042BG  
Dove 2k-28 – 2017-042BH  
Dove 2k-27 – 2017-042BK  
Dove 2k-26 – 2017-042BL  
Dove 2k-20 – 2017-042BN  
Dove 2k-17 – 2017-042BR  
Dove 2k-13 – 2017-042BU  
Dove 2k-11 – 2017-042BX  
Dove 3p-69 – 2017-042CA  
DHFR -- 2017-050B  
Dove 3m-3 – 2017-068K  
ICEYE-X1 – 2018-004D  
Dove 3p'-1 – 2018-004L  
Starlink Demo 2 Tintin-B – 2018-020C  
OVS-2 -- 2018-040B  
Dove 3r-5 – 2018-096H  
Dove 3r-2 – 2018-096AF  
Dove 3r-14 – 2018-096AG  
Dove 3r-13 – 2018-096AH  
Dove 3r-16 – 2018-096S  
Dove 3k-12 – 2018-111AD  
Dove 4a-20 – 2019-018P  
Dove 4a-8 – 2019-018Q  
Starlink-22 – 2019-029B  
Starlink-28 -- 2019-029H  
Starlink-62 – 2019-029AR  
Starlink-41 -- 2019-029AU  
Starlink-67 – 2019-029AV  
Starlink-1040 – 2019-074AJ  
Dove 4p-8 – 2019-081M  
Starlink-1118 -- 2020-001AL  
Starlink-1087 – 2020-001BD  
Starlink-1220 – 2020-012AG  
Starlink-1311 – 2020-019D  
Starlink-1268 – 2020-019AB

*Additions for August 1, 2020 Release*

Beesat-4 – 2016-040W  
Aerocube-8C -- 2016-067F  
Lithuanicasat-2 -- 2017-036D  
Pegasus – 2017-036V  
CORVUS BC1 – 2017-042X  
CORVUS BC2 – 2017-042Y  
Aerocube-7B -- 2017-071F

Aerocube-7C -- 2017-071G  
Chiefsat – 2017-071H  
ISARA -- 2017-071P  
Propcube-2 – 2017-071R  
CORVUS BC3 – 2018-004H  
WEINA-1B – 2018-034E  
Mycroft (USA 285)– 2018-036E  
ESPASat (USA 286) – 2018-036F  
Changshagaoxin (TY 4-01) – 2018-083H  
Chiefsat-2 – 2018-092E  
CORVUS BC4 – 2018-099K  
NARSCUBE-2 -- 2019-022E  
ORCA-1 -- 2019-022H  
Lightsail-2 – 2019-036AC  
DoT-1 – 2019-038P  
Beidou 3 IGSO-3 – 2019-073A  
Noor – 2020-024A  
Starlink-1329 – 2020-025A  
Starlink-1338 – 2020-025B  
Starlink-1339 – 2020-025C  
Starlink-1341 – 2020-025D  
Starlink-1350 – 2020-025E  
Starlink-1352 – 2020-025F  
Starlink-1353 – 2020-025G  
Starlink-1362 – 2020-025H  
Starlink-1367 – 2020-025J  
Starlink-1368 – 2020-025K  
Starlink-1369 – 2020-025L  
Starlink-1371 – 2020-025M  
Starlink-1372 – 2020-025N  
Starlink-1373 – 2020-025P  
Starlink-1374 – 2020-025Q  
Starlink-1375 – 2020-025R  
Starlink-1377 – 2020-025S  
Starlink-1378 – 2020-025T  
Starlink-1379 – 2020-025U  
Starlink-1390 – 2020-025V  
Starlink-1294 – 2020-025W  
Starlink-1322 – 2020-025X  
Starlink-1323 – 2020-025Y  
Starlink-1325 – 2020-025Z  
Starlink-1327 – 2020-025AA  
Starlink-1334 – 2020-025AB  
Starlink-1336 – 2020-025AC  
Starlink-1342 – 2020-025AD  
Starlink-1344 – 2020-025AE  
Starlink-1346 – 2020-025AF  
Starlink-1348 – 2020-025AG  
Starlink-1354 – 2020-025AH  
Starlink-1355 – 2020-025AJ

Starlink-1356 – 2020-025AK  
Starlink-1357 – 2020-025AL  
Starlink-1358 – 2020-025AM  
Starlink-1361 – 2020-025AN  
Starlink-1363 – 2020-025AP  
Starlink-1366 – 2020-025AQ  
Starlink-1376 – 2020-025AR  
Starlink-1261 – 2020-025AS  
Starlink-1320 – 2020-025AT  
Starlink-1321 – 2020-025AU  
Starlink-1324 – 2020-025AV  
Starlink-1326 – 2020-025AW  
Starlink-1328 – 2020-025AX  
Starlink-1330 – 2020-025AY  
Starlink-1331 – 2020-025AZ  
Starlink-1332 – 2020-025BA  
Starlink-1333 – 2020-025BB  
Starlink-1335 – 2020-025BC  
Starlink-1337 – 2020-025BD  
Starlink-1340 – 2020-025BE  
Starlink-1343 – 2020-025BF  
Starlink-1345 – 2020-025BG  
Starlink-1347 – 2020-025BH  
Starlink-1349 – 2020-025BJ  
Starlink-1360 – 2020-025BK  
Starlink-1364 – 2020-025BL  
Starlink-1365 – 2020-025BM  
Xingyun 2-01 – 2020-028A  
Xingyun 2-02 – 2020-028B  
X-37B OTV-7 – 2020-029A  
Falconsat-8 (USA 300) – 2020-029B  
EKS-4 (Cosmos 2546) – 2020-031A  
XJS-G – 2020-032A  
XJS-H – 2020-032B  
HEAD-4 – 2020-034A  
Gaofen 9-02 – 2020-034B  
Starlink-1441 – 2020-035B  
Starlink-1442 – 2020-035C  
Starlink-1443 – 2020-035D  
Starlink-1444 – 2020-035E  
Starlink-1445 – 2020-035F  
Starlink-1446 – 2020-035G  
Starlink-1447 – 2020-035H  
Starlink-1448 – 2020-035J  
Starlink-1449 – 2020-035K  
Starlink-1450 – 2020-035L  
Starlink-1451 – 2020-035M  
Starlink-1452 – 2020-035N  
Starlink-1453 – 2020-035P  
Starlink-1454 – 2020-035Q  
Starlink-1455 – 2020-035R  
Starlink-1456 – 2020-035S  
Starlink-1457 – 2020-035T

Starlink-1458 – 2020-035U  
Starlink-1460 – 2020-035V  
Starlink-1392 – 2020-035W  
Starlink-1393 – 2020-035X  
Starlink-1394 – 2020-035Y  
Starlink-1395 – 2020-035Z  
Starlink-1396 – 2020-035AA  
Starlink-1397 – 2020-035AB  
Starlink-1399 – 2020-035AC  
Starlink-1401 – 2020-035AD  
Starlink-1402 – 2020-035AE  
Starlink-1404 – 2020-035AF  
Starlink-1406 – 2020-035AG  
Starlink-1408 – 2020-035AH  
Starlink-1413 – 2020-035AJ  
Starlink-1414 – 2020-035AK  
Starlink-1415 – 2020-035AL  
Starlink-1416 – 2020-035AM  
Starlink-1417 – 2020-035AN  
Starlink-1419 – 2020-035AP  
Starlink-1420 – 2020-035AQ  
Starlink-1422 – 2020-035AR  
Starlink-1351 – 2020-035AS  
Starlink-1370 – 2020-035AT  
Starlink-1398 – 2020-035AU  
Starlink-1400 – 2020-035AV  
Starlink-1403 – 2020-035AW  
Starlink-1405 – 2020-035AX  
Starlink-1407 – 2020-035AY  
Starlink-1409 – 2020-035AZ  
Starlink-1410 – 2020-035BA  
Starlink-1411 – 2020-035BB  
Starlink-1412 – 2020-035BC  
Starlink-1418 – 2020-035BD  
Starlink-1421 – 2020-035BE  
Starlink-1423 – 2020-035BF  
Starlink-1433 – 2020-035BG  
Starlink-1434 – 2020-035BH  
Starlink-1436 – 2020-035BJ  
Starlink-1437 – 2020-035BK  
Starlink-1438 – 2020-035BL  
Starlink-1439 – 2020-035BM  
Haiyang-1D – 2020-036A  
NROL RASR Smallsat-2 (USA 301) – 2020-037A  
NROL RASR Smallsat-3 (USA 302) – 2020-037B  
NROL RASR Smallsat-4 (USA 303) – 2020-037C  
ANDESITE Mule – 2020-037D  
RAAF M2 Pathfinder – 2020-037E  
Starlink-1461 – 2020-038A  
Starlink-1465 – 2020-038B  
Starlink-1466 – 2020-038C  
Starlink-1467 – 2020-038D  
Starlink-1468 – 2020-038E  
Starlink-1471 – 2020-038F

Starlink-1472 – 2020-038G  
Starlink-1473 – 2020-038H  
Starlink-1474 – 2020-038J  
Starlink-1475 – 2020-038K  
Starlink-1479 – 2020-038L  
Starlink-1480 – 2020-038M  
Starlink-1481 – 2020-038N  
Starlink-1483 – 2020-038P  
Starlink-1500 – 2020-038Q  
Starlink-1503 – 2020-038R  
Starlink-1504 – 2020-038S  
Starlink-1506 – 2020-038T  
Starlink-1507 – 2020-038U  
Starlink-1516 – 2020-038V  
Starlink-1391 – 2020-038W  
Starlink-1464 – 2020-038X  
Starlink-1469 – 2020-038Y  
Starlink-1476 – 2020-038Z  
Starlink-1477 – 2020-038AA  
Starlink-1478 – 2020-038AB  
Starlink-1484 – 2020-038AC  
Starlink-1486 – 2020-038AD  
Starlink-1487 – 2020-038AE  
Starlink-1493 – 2020-038AF  
Starlink-1494 – 2020-038AG  
Starlink-1495 – 2020-038AH  
Starlink-1499 – 2020-038AJ  
Starlink-1501 – 2020-038AK  
Starlink-1502 – 2020-038AL  
Starlink-1508 – 2020-038AM  
Starlink-1509 – 2020-038AN  
Starlink-1511 – 2020-038AP  
Starlink-1521 – 2020-038AQ  
Starlink-1459 – 2020-038AR  
Starlink-1462 – 2020-038AS  
Starlink-1463 – 2020-038AT  
Starlink-1470 – 2020-038AU  
Starlink-1482 – 2020-038AV  
Starlink-1485 – 2020-038AW  
Starlink-1488 – 2020-038AX  
Starlink-1489 – 2020-038AY  
Starlink-1490 – 2020-038AZ  
Starlink-1491 – 2020-038BA  
Starlink-1492 – 2020-038BB  
Starlink-1496 – 2020-038BC  
Starlink-1497 – 2020-038BD  
Starlink-1498 – 2020-038BE

Starlink-1505 – 2020-038BF  
Starlink-1510 – 2020-038BG  
Starlink-1512 – 2020-038BH  
Starlink-1513 – 2020-038BJ  
Starlink-1517 – 2020-038BK  
Skysat-16 – 2020-038BL  
Skysat-18 – 2020-038BM  
Skysat-17 – 2020-038BN  
Gaofen 9-03 – 2020-039A EO  
Zheda Pixing 3A – 2020-039B  
HEAD-5 – 2020-039C  
Beidou DW55 – 2020-040A  
Navstar GPS III-3 (USA 304) 2020-041A  
Gaofen Multi-mode 1 – 2020-042A  
Shiyan 6-02 – 2020-043A  
Ofeq-16 – 2020-044A  
Apstar-6D – 2020-045A  
NROL-129 (USA 305) – 2020-046A  
NROL-129 (USA 306) – 2020-046B  
NROL-129 (USA 307) – 2020-046C  
NROL-129 (USA 308) – 2020-046D  
ANASIS-II -- 2020-048A  
Ziyuan-3 03 -- 2020-051A  
Long Xia Yan (Lobster Eye) – 2020-051B  
Tianqi-6 – 2020-051C  
Express-80 – 2020-053A  
Express-103 – 2020-053B

*Satellites Launched from International Space Station*

NARSCUBE-1 – 1998-067QX  
Cryocube -- 1998-067RD  
SORTIE – 1998-067RH  
G-Satellite – 1998-067RK  
Quetzal-1 – 1998-067RL  
Red-Eye 2 – 1998-067R  
Red-Eye 3 – 1998-067RN  
DeMi -- 1998-067RP  
TechEdSat 10 – 1998-067RQ

## **Additions and Deletions for the 4-1-20 Release**

This version of the Database includes launches through March 31, 2020. There are currently 2,666 active satellites in the database. The changes to this version of the database include:

- The addition of 486 satellites
- The deletion of 38 satellites
- The addition of and corrections to some satellite data

## **Satellites Added and Removed for April 1, 2020 Release**

### *Satellites Removed*

Thor-3 – 1998-035A  
Intelsat 805 -- 1998-037A  
Batsu CS1 -- 1998-067NR  
RADIX -- 1998-067NY  
Astra 1H -- 1999-033A  
AMC-7 – 2000-054B  
Skynet 4F -- 2001-005B  
DirecTV-4S – 2001-052A  
Express 4A -- 2002-029A  
Iridium 97 – 2002-031A  
Eutelsat 12 West A – 2002-040A  
Kalpana-1 – 2002-043A  
AsiaSat-4 -- 2003-014A  
Echostar-12 – 2003-033A  
Ekspres-AM22 – 2003-060A  
AMC-10 – 2004-003A  
Telstar 18 (Apstar 5) – 2004-024A  
Spaceway-F1 – 2005-015A  
INSAT-4A – 2005-049A  
Thaicom-5 -- 2006-020B  
Kizuna – 2008-007A  
Jason-2 – 2008-032A  
VeneSat-1 -- 2008-055A  
STARS-1 Kukai -- 2009-002G  
Raduga-1M1 (Cosmos 2450) -- 2009-010A  
Glonass 754 (Cosmos 2491) -- 2014-012A  
TechDemoSat-1 – 2014-037H  
MICROSCOPE -- 2016-025B  
Worldview-4 – 2016-067A  
Cosmos 2521 Subsatellite -- 2017-037D  
X37B OTV-5 (USA 277) -- 2017-052A  
SLATS -- 2017-082B  
EAGLE (USA 284) -- 2018-036B  
MYCROFT (USA 285) -- 2018-036E  
ALE-1 -- 2019-003G  
S5 – 2019-009D

Starlink 46 – 2019-029M  
TEPCE – 2019-036H

*Satellites Added*

STPSat-4 -- 1998-067QY  
AztecSat-1 -- 1998-067RA  
QARMAN -- 1998-067RE  
Radsat-U -- 1998-067RF  
EKS-3 (Cosmos 2541) – 2019-065A  
Gaofen-10 – 2019-066A  
Eutelsat 5 West B – 2019-067A  
Mission Extension Vehicle-1 (MEV-1) – 2019-067B  
ICON – 2019-068A  
Palisade – 2019-069A  
TJS-4 – 2019-070A  
Huskysat-1 – 2019-071C  
Aerocube-14A -- 2019-071D  
Swampsat-2 – 2019-071E  
Aerocube-14B -- 2019-071F  
Aerocube-15A -- 2019-071H  
Orbital Factory II – 2019-071J  
ORCA – 2019-071K  
CIRiS – 2019-071L  
MakerSat-1 2019-071N  
Gaofen-7 – 2019-072A  
SSRS-1 – 2019-072B  
Huangpu-1 -- 2019-072C  
Xiaoxiang 1-08 – 2019-072D  
Beidou DW 49 – 2019-073A  
Starlink-1007 – 2019-074A  
Starlink-1008 – 2019-074B  
Starlink-1009 – 2019-074C  
Starlink-1010 – 2019-074D  
Starlink-1011 – 2019-074E  
Starlink-1012 – 2019-074F  
Starlink-1013 – 2019-074G  
Starlink-1014 – 2019-074H  
Starlink-1015 -- 2019-074J  
Starlink-1016 – 2019-074K  
Starlink-1017 – 2019-074L  
Starlink-1019 – 2019-074M  
Starlink-1020 – 2019-074N  
Starlink-1021 – 2019-074P  
Starlink-1022 – 2019-074Q  
Starlink-1023 – 2019-074R  
Starlink-1024 – 2019-074S  
Starlink-1025 – 2019-074T  
Starlink-1026 – 2019-074U



Starlink-1027 – 2019-074V  
Starlink-1028 – 2019-074W  
Starlink-1029 – 2019-074X  
Starlink-1030 – 2019-074Y  
Starlink-1031 – 2019-074Z  
Starlink-1032 – 2019-074AA  
Starlink-1033 – 2019-074AB  
Starlink-1052 – 2019-074AC  
Starlink-1035 – 2019-074AD  
Starlink-1036 – 2019-074AE  
Starlink-1037 – 2019-074AF  
Starlink-1038 – 2019-074AG  
Starlink-1039 – 2019-074AH  
Starlink-1040 – 2019-074AJ  
Starlink-1041 – 2019-074AK  
Starlink-1042 – 2019-074AL  
Starlink-1043 – 2019-074AM  
Starlink-1044 – 2019-074AN  
Starlink-1045 – 2019-074AP  
Starlink-1046 – 2019-074AQ  
Starlink-1047 – 2019-074AR  
Starlink-1048 – 2019-074AS  
Starlink-1049 – 2019-074AT  
Starlink-1050 – 2019-074AU  
Starlink-1051 – 2019-074AV  
Starlink-1034 – 2019-074AW  
Starlink-1053 – 2019-074AX  
Starlink-1054 – 2019-074AY  
Starlink-1055 – 2019-074AZ  
Starlink-1056 – 2019-074BA  
Starlink-1057 – 2019-074BB  
Starlink-1058 – 2019-074BC  
Starlink-1059 – 2019-074BD  
Starlink-1060 – 2019-074BE  
Starlink-1061 – 2019-074BF  
Starlink-1062 – 2019-074BG  
Starlink-1063 -- 2019-074BH  
Starlink-1064 – 2019-074BJ  
Starlink-1065 – 2019-074BK  
Starlink-1067 – 2019-074BL  
Starlink-1068 – 2019-074BM  
Jilin 1 Gaofen 02A – 2019-075A  
Ningxia-1 01 -- 2019-076A  
Ningxia-1 02 – 2019-076B  
Ningxia-1 03 – 2019-076C  
Ningxia-1 04 – 2019-076D  
Ningxia-1 05 – 2019-076E  
KL-Alpha-A – 2019-077A  
KL-Alpha-B – 2019-077B  
Beidou DW 50 – 2019-078A  
Beidou DW 51 – 2019-078B

Cosmos 2542 – 2019-079A  
 Cosmos 2543 – 2019- 079D  
 TIBA 1 – 2019-080A  
 Inmarsat 5F5 – 2019-080B  
 Cartosat-3 – 2019-081A  
 Meshbed – 2019-081C  
 Dove 4p-9 – 2019-081D  
 Dove 4p-10 -- 2019-081E  
 Dove 4p-11 – 2019-081F  
 Dove 4p-12 – 2019-081G  
 Dove 4p-4 -- 2019-081H  
 Dove 4p-3 -- 2019-081J  
 Dove 4p-2 – 2019-081K  
 Dove 4p-1 -- 2019-081L  
 Dove 4p-8 -- 2019-081M  
 Dove 4p-7 -- 2019-081N  
 Dove 4p-6 – 2019-081P  
 Dove 4p-5 -- 2019-081Q  
 Gaofen-12 – 2019-082A  
 ALE-2 – 2019-084A  
 NOOR-1A – 2019-084D  
 Fossasat-1 – 2019-084F  
 TRSI-Sat – 2019-084G  
 ATL-1 – 2019-084H  
 SMOG-P – 2019-084J  
 Jilin-1 Gaofen 02B – 2019-086A  
 HEAD-2A – 2019-087A  
 HEAD-2B – 2019-087B  
 Tianqi-4A – 2019-087C  
 Tianqi-4B – 2019-087D  
 TianYi-16 – 2019-087E  
 TianYi-17 – 2019-087F  
 Glonass-759 (Cosmos 2544) – 2019-088A  
 Tyvak 0092 – 2019-089A  
 Duchifat-3 – 2019-089C  
 Lemur-2-JPSquared – 2019-089D  
 QPS-SAR 1 – 2019-089E  
 RISAT-2BR1 – 2019-089F  
 Tyvak-0129 – 2019-089G  
 1HOPSAT – 2019-089H  
 Lemur-2-HiMomAndDad – 2019-089J  
 Lemur-2-Pappy – 2019-089K  
 Lemur-2-Theodosia -- 2019-089M  
 Beidou DW 52 – 2019-090A  
 Beidou DW 53 – 2019-090B  
 JCSAT 18/Kacific 1 – 2019-091A  
 COSMO-SkyMed Second Generation – 2019-092A  
 CHEOPS – 2019-092B  
 ANGELS – 2019-092D  
 Eyesat – 2019-092E  
 OPS-Sat – 2019-092F

BDSAGR 1 – 2019-093A  
ETRSS-1 – 2019-093B  
Tianqin-1 – 2019-093C  
CBERS-4A – 2019-093E  
FloripaSat-1 – 2019-093G  
Elektro-L No. 3 -- 2019-095A  
Gonets M-24 – 2019-096A  
Gonets M-25 – 2019-096B  
Gonets M-26 – 2019-096C  
Shijian-20 – 2019-097A  
Starlink-1073 – 2020-001A  
Starlink-1084 – 2020-001B  
Starlink-1097 – 2020-001C  
Starlink-1098 – 2020-001D  
Starlink-1099 – 2020-001E  
Starlink-1101 – 2020-001F  
Starlink-1102 – 2020-001G  
Starlink-1103 – 2020-001H  
Starlink-1104 – 2020-001J  
Starlink-1106 – 2020-001K  
Starlink-1111 – 2020-001L  
Starlink-1112 – 2020-001M  
Starlink-1113 – 2020-001N  
Starlink-1114 – 2020-001P  
Starlink-1119 – 2020-001Q  
Starlink-1121 – 2020-001R  
Starlink-1123 – 2020-001S  
Starlink-1128 – 2020-001T  
Starlink-1130 – 2020-001U  
Starlink-1144 – 2020-001V  
Starlink-1071 – 2020-001W  
Starlink-1072 – 2020-001X  
Starlink-1078 – 2020-001Y  
Starlink-1079 – 2020-001Z  
Starlink-1082 – 2020-001AA  
Starlink-1083 – 2020-001AB  
Starlink-1091 – 2020-001AC  
Starlink-1094 – 2020-001AD  
Starlink-1096 – 2020-001AE  
Starlink-1100 – 2020-001AF  
Starlink-1108 – 2020-001AG  
Starlink-1109 – 2020-001AH  
Starlink-1110 – 2020-001AJ  
Starlink-1116 – 2020-001AK  
Starlink-1118 – 2020-001AL  
Starlink-1122 – 2020-001AM  
Starlink-1125 – 2020-001AN  
Starlink-1126 – 2020-001AP  
Starlink-1117 – 2020-001AQ  
Starlink-1124 – 2020-001AR  
Starlink-1066 – 2020-001AS

Starlink-1069 – 2020-001AT  
Starlink-1070 – 2020-001AU  
Starlink-1074 – 2020—001AV  
Starlink-1075 – 2020-001AW  
Starlink-1076 – 2020-001AX  
Starlink-1077 – 2020-001AY  
Starlink-1080 – 2020-001AZ  
Starlink-1081 – 2020-001BA  
Starlink-1085 – 2020-001BB  
Starlink-1986 – 2020-001BC  
Starlink-1087 – 2020-001BD  
Starlink-1088 – 2020-001BE  
Starlink-1089 – 2020-001BF  
Starlink-1090 – 2020-001BG  
Starlink-1092 – 2020-001BH  
Starlink-1093 – 2020-001BJ  
Starlink-1095 – 2020-001BK  
Starlink-1107 – 2020—001BL  
Starlink-1115 – 2020-001BM  
TJS-5 – 2020-002A  
Jilin-1 Kuanfu-1 – 2020-003A  
ÑuSat 7 – 2020-003B  
ÑuSat 8 – 2020-003C  
Tianqi-5 – 2020-003D  
Yinhe 1 – 2020-004A  
GSAT-30 – 2020-005A  
EUTELSAT Konnect – 2020-005B  
Starlink 1132 – 2020-006A  
Starlink 1120 – 2020-006B  
Starlink 1129 – 2020-006C  
Starlink 1131 – 2020-006D  
Starlink 1134 – 2020-006E  
Starlink 1135 – 2020-006F  
Starlink 1140 – 2020-006G  
Starlink 1141 – 2020-006H  
Starlink 1148 – 2020-006J  
Starlink 1155 – 2020-006K  
Starlink 1156 – 2020-006L  
Starlink 1157 – 2020-006M  
Starlink 1158 – 2020-006N  
Starlink 1159 – 2020-006P  
Starlink 1162 – 2020-006Q  
Starlink 1165 – 2020-006R  
Starlink 1166 – 2020-006S  
Starlink 1169 – 2020-006T  
Starlink 1171 – 2020-006U  
Starlink 1178 – 2020-006V  
Starlink 1133 – 2020-006W  
Starlink 1139 – 2020-006X  
Starlink 1145 – 2020-006Y  
Starlink 1150 – 2020-006Z

Starlink 1161 – 2020-00AA  
Starlink 1163 – 2020-006AB  
Starlink 1164 – 2020-006AC  
Starlink 1167 – 2020-006AD  
Starlink 1168 – 2020-006AE  
Starlink 1170 – 2020-006AF  
Starlink 1172 – 2020-006AG  
Starlink 1174 – 2020-006AH  
Starlink 1180 – 2020-006AJ  
Starlink 1182 – 2020-006AK  
Starlink 1177 – 2020-006AL  
Starlink 1149 – 2020-006AM  
Starlink 1153 – 2020-006AN  
Starlink 1151 – 2020-006AP  
Starlink 1160 – 2020-006AQ  
Starlink 1190 – 2020-006AR  
Starlink 1173 – 2020-006AS  
Starlink 1179 – 2020-006AT  
Starlink 1181 – 2020-006AU  
Starlink 1185 – 2020-006AV  
Starlink 1183 – 2020-006AW  
Starlink 1136 – 2020-006AX  
Starlink 1176 – 2020-006AY  
Starlink 1127 – 2020-006AZ  
Starlink 1137 – 2020-006BA  
Starlink 1142 – 2020-006BB  
Starlink 1146 – 2020-006BC  
Starlink 1147 – 2020-006BD  
Starlink 1152 – 2020-006BE  
Starlink 1175 – 2020-006BF  
Starlink 1184 – 2020-006BG  
Starlink 1186 – 2020-006BH  
Starlink 1193 – 2020-006BJ  
Starlink 1194 – 2020-006BK  
Starlink 1195 – 2020-006BL  
Starlink 1196 – 2020-006BM  
NROL-151 (USA 294) -- 2020-007A  
OneWeb 0013 – 2020-008A  
OneWeb 0017 – 2020-008B  
OneWeb 0020 – 2020-008C  
OneWeb 0021 – 2020-008D  
OneWeb 0022 – 2020-008E  
OneWeb 0023 – 2020-008F  
OneWeb 0024 – 2020-008G  
OneWeb 0025 – 2020-008H  
OneWeb 0026 – 2020-008J  
OneWeb 0028 – 2020-008K  
OneWeb 0032 – 2020-008L  
OneWeb 0033 – 2020-008M  
OneWeb 0035 – 2020-008N

OneWeb 0036 – 2020-008P  
OneWeb 0038 -- 2020-008Q  
OneWeb 0039 – 2020-008R  
OneWeb 0040 – 2020-008S  
OneWeb 0041 – 2020-008T  
OneWeb 0043 – 2020-008U  
OneWeb 0044 – 2020-008V  
OneWeb 0045 – 2020-008W  
OneWeb 0047 – 2020-008X  
OneWeb 0048 – 2020-008Y  
OneWeb 0049 – 2020-008Z  
OneWeb 0051 – 2020-008AA  
OneWeb 0052 – 2020-008AB  
OneWeb 0053 – 2020-008AC  
OneWeb 0054 -- 2020-008AD  
OneWeb 0056 – 2020-008AE  
OneWeb 0057 – 2020-008AF  
OneWeb 0058 – 2020-008AG  
OneWeb 0059 – 2020-008AH  
OneWeb 0062 – 2020-008AJ  
OneWeb 0065 – 2020-008AK  
IGS Optical-7 – 2020-009A  
Starlink 1105 – 2020-012A  
Starlink 1138 – 2020-012B  
Starlink 1143 – 2020-012C  
Starlink 1154 – 2020-012D  
Starlink 1187 – 2020-012E  
Starlink 1188 – 2020-012F  
Starlink 1189 -- 2020-012G  
Starlink 1191 -- 2020-012H  
Starlink 1192 – 2020-012J  
Starlink 1197 – 2020-012Kr  
Starlink 1198 – 2020-012L  
Starlink 1199 – 2020-012M  
Starlink 1200 – 2020-012N  
Starlink 1201 – 2020-012P  
Starlink 1202 – 2020-012Q  
Starlink 1203 – 2020-012R  
Starlink 1204 – 2020-012S  
Starlink 1205 – 2020-012T  
Starlink 1206 – 2020-012U  
Starlink 1208 – 2020-012V  
Starlink 1209 – 2020-012W  
Starlink 1210 – 2020-012X  
Starlink 1211 – 2020-012Y  
Starlink 1212 – 2020-012Z  
Starlink 1214 – 2020-012AA  
Starlink 1215 -- 2020-012AB  
Starlink 1216 – 2020-012AC  
Starlink 1217 – 2020-012AD  
Starlink 1218 – 2020-012AE

Starlink 1219 – 2020-012AF  
Starlink 1220 -- 2020-012AG  
Starlink 1221 – 2020-012AH  
Starlink 1222 – 2020-012AJ  
Starlink 1224 – 2020-012AK  
Starlink 1225 – 2020-012AL  
Starlink 1226 – 2020-012AM  
Starlink 1227 – 2020-012AN  
Starlink 1228 – 2020-012AP  
Starlink 1229 – 2020-012AQ  
Starlink 1230 – 2020-012AR  
Starlink 1231 – 2020-012AS  
Starlink 1232 -- 2020-012AT  
Starlink 1233 – 2020-012AU  
Starlink 1234 – 2020-012AV  
Starlink 1235 – 2020-012AW  
Starlink 1236 -- 2020-012AX  
Starlink 1237 – 2020-012AY  
Starlink 1238 – 2020-012AZ  
Starlink 1239 – 2020-012BA  
Starlink 1240 – 2020-012BB  
Starlink 1241 – 2020-012BC  
Starlink 1243 – 2020-012BD  
Starlink 1244 – 2020-012BE  
Starlink 1245 -- 2020-012BF  
Starlink 1246 – 2020-012BG  
Starlink 1247 --2020-012BH  
Starlink 1254 – 2020-012BJ  
Starlink 1269 – 2020-012BK  
Starlink 1270 – 2020-012BL  
Starlink 1271 – 2020-012BM  
JCSat-17 – 2020-013A  
GEO Kompsat-2B – 2020-013B  
XJS-C – 2020-014A  
XJS-D – 2020-014B  
XJS-E – 2020-014C  
XJS-F – 2020-014D  
Meridian-9 – 2020-015A  
Beidou-G3 – 2020-017A  
Glonass-760 (Cosmos 2545) – 2020-018A  
Starlink-1279 – 2020-019A  
Starlink-1301 – 2020-019B  
Starlink-1306 – 2020-019C  
Starlink-1311 – 2020-019D  
Starlink-1313 – 2020-019E  
Starlink-1317 – 2020-019F  
Starlink-1262 – 2020-019G  
Starlink-1273 – 2020-019H  
Starlink-1276 – 2020-019J  
Starlink-1277 – 2020-019K  
Starlink-1281 – 2020-019L

Starlink-1287 – 2020-019M  
Starlink-1288 – 2020-019N  
Starlink-1295 – 2020-019P  
Starlink-1300 --2020-019Q  
Starlink-1302 – 2020-019R  
Starlink-1304 – 2020-019S  
Starlink-1305 – 2020-019T  
Starlink-1310 – 2020-019U  
Starlink-1319 – 2020-019V  
Starlink-1207 – 2020-019W  
Starlink-1258 – 2020-019X  
Starlink-1264 – 2020-019Y  
Starlink-1266 – 2020-019Z  
Starlink-1267 – 2020-019AA  
Starlink-1268 – 2020-019AB  
Starlink-1272 – 2020-019AC  
Starlink-1274 – 2020-019AD  
Starlink-1280 – 2020-019AE  
Starlink-1283 – 2020-019AF  
Starlink-1284 – 2020-019AG  
Starlink-1289 – 2020-019AH  
Starlink-1290 – 2020-019AJ  
Starlink-1291 – 2020-019AK  
Starlink-1292 – 2020-019AL  
Starlink-1297 – 2020-019AM  
Starlink-1303 – 2020-019AN  
Starlink-1307 – 2020-019AP  
Starlink-1312 – 2020-019AQ  
Starlink-1255 – 2020-019AR  
Starlink-1213 – 2020-019AS  
Starlink-1256 – 2020-019AT  
Starlink-1257 – 2020-019AU  
Starlink-1259 – 2020—019AV  
Starlink-1260 – 2020—019AW  
Starlink-1263 – 2020-019AX  
Starlink-1265 – 2020-019AY  
Starlink-1275 – 2020—019AZ  
Starlink-1278 – 2020-019BA  
Starlink-1282 – 2020-019BB  
Starlink-1285 – 2020-019BC  
Starlink-1293 – 2020-019BD  
Starlink-1296 – 2020-019BE  
Starlink-1298 – 2020-019BF  
Starlink-1309 – 2020-019BG  
Starlink-1316 – 2020-019BH  
Starlink-1318 – 2020-019BJ  
Starlink-1286 – 2020-019BK  
Starlink-1299 – 2020-019BL  
Starlink-1308 – 2020-019BM  
OneWeb-0066 – 2020-020A  
OneWeb-0067 – 2020-020B



OneWeb-0080 – 2020-020C  
OneWeb-0090 – 2020-020D  
OneWeb-0061 – 2020-020E  
OneWeb-0081 – 2020-020F  
OneWeb-0069 – 2020-020G  
OneWeb-0031 – 2020-020H  
OneWeb-0027 – 2020-020J  
OneWeb-0064 – 2020-020K  
OneWeb-0018 – 2020-020L  
OneWeb-0083 – 2020-020M  
OneWeb-0095 – 2020-020N  
OneWeb-0092 – 2020-020P  
OneWeb-0085 – 2020-020Q  
OneWeb-0096 – 2020-020R  
OneWeb-0037 – 2020-020S  
OneWeb-0042 – 2020-020T  
OneWeb-0098 – 2020-020U  
OneWeb-0055 – 2020-020V  
OneWeb-0093 – 2020-020W  
OneWeb-0029 – 2020-020X  
OneWeb-0068 – 2020-020Y  
OneWeb-0046 – 2020-020Z  
OneWeb-0063 – 2020-020AA  
OneWeb-0019 – 2020-020AB  
OneWeb-0094 – 2020-020AC  
OneWeb-0087 – 2020-020AD  
OneWeb-0082 – 2020-020AE  
OneWeb-0050 – 2020-020AF  
OneWeb-0034 – 2020-020AG  
OneWeb-0060 – 2020-020AH  
OneWeb-0086 – 2020-020AJ  
OneWeb-0088 – 2020-020AK  
Yaogan-30-16 – 2020-021A  
Yaogan-30-17 – 2020-021B  
Yaogan-30-18 – 2020-021C  
AEHF-6 (USA 298) -- 2020-022B

## **Additions and Deletions for the 10-1-19 Release**

This version of the Database includes launches through September 30, 2019. There are currently 2,218 active satellites in the database. The changes to this version of the database include:

- The addition of 209 satellites
- The deletion of 53 satellites
- The addition of and corrections to some satellite data

## **Satellites Removed**

UFO-6 (USA 114) – 1995-057A  
Iridium 24 – 1998-010C  
CXBN-2 – 1998-067LM  
PHOENIX – 1998-067LP  
Altair-1 – 1998-067LS  
SHARC – 1998-067LT  
DebrisSat-2 – 1998-067PR  
TechEdSat-8 – 1998-067PY  
CSUNSAT – 1998-067LW  
Duchifat-2 – 1998-067LZ  
NJUST-1 – 1998-067MB  
Exalta-1 – 1998-067MP  
Aoxiang-1 – 1998-067MQ  
BeEagleSat – 1998-067MR  
TOKI – 1998-067MU  
BIRD MM -- 1998-067MW  
BRAC ONNESHIA – 1998-067MX  
Nigeria Edusat-1 – 1998-067MY  
EnduroSat-1 – 1998-067NZ  
Iridium 61 – 1998-018B  
Glonass 715 (Cosmos 2424) – 2006-062C  
Fengyun 2E – 2008-066A  
BeeSat-1 – 2009-051C  
Glonass 734 (Cosmos 2458) -- 2009-070C  
Beidou G3 – 2010-024A  
Jugnu – 2011-058B  
BeeSat-2 – 2013-015G  
CUSat-1 – 2013-055B  
Antelsat – 2014-033AA  
QB50P1 -- 2014-033R  
ParkinsonSat-1 – 2015-025D  
NUDTPhonesat – 2015-049B  
Galassia -- 2015-077E  
Intelsat 29E – 2016-004A  
Sathyabamasat – 2016-040B  
Tiangong-2 – 2016-057A  
Aerocube 8C – 2016-067D  
Kaidun-1 – 2017-002C

BGUSat – 2017-008BD  
UCLSat -- 2017-036A  
Lituanicasat-2 -- 2017-036D  
SUCHAI – 2017-036Z  
skCube – 2017-036AA  
MiRaTA – 2017-073C  
MakerSat 0 -- 2017-073D  
Picsat – 2018-004X  
Surfsat – 2018-070B  
ITASAT-1 – 2018-099AE  
Audacy Zero – 2018-099BE  
NMTSat – 2018-104C  
ALBus – 2018-104L  
OrigamiSat-1 -- 2019-003B  
SpaceCube – 1998-067LY

### **Satellites Added**

Tianqi-1 – 2018-083G  
EMISat – 2019-018A  
Dove 4a-1 – 2019-018B  
Dove 4a-2 – 2019-018C  
Dove 4a-3 – 2019-018D  
Dove 4a-4 – 2019-018E  
Astrocast 02 – 2019-018F  
Lemur-2-JohanLoran – 2019-018G  
Lemur-2-Beaudacious – 2019-018H  
Lemur-2-Elham – 2019-018J  
Lemur-2-Victor-Andrew – 2019-018K  
Dove 4a-17 – 2019-018L  
Dove 4a-18 – 2019-018M  
Dove 4a-19 – 2019-018N  
Dove 4a-20 – 2019-018P  
Dove 4a-8 – 2019-018Q  
Dove 4a-7 – 2019-018R  
Dove 4a-6 – 2019-018S  
Dove 4a-5 – 2019-018T  
Dove 4a-11 – 2019-018U  
Dove 4a-10 – 2019-018V  
Dove 4a-9 – 2019-018W  
Dove 4a-16 – 2019-018X  
Dove 4a-15 – 2019-018Y  
Dove 4a-14 – 2019-018Z  
Dove 4a-13 – 2019-018AA  
AISTECHSAT 3 – 2019-018AB  
Bluewalker 1 – 2019-018AD  
Dove 4a-12 – 2019-018AE  
MP6 – 2019-018AF  
O3b FM20 – 2019-020A  
O3b FM19 – 2019-020B  
O3B FM18 – 2019-020C

O3b FM17 – 2019-020D  
Arabsat 6A – 2019-021A  
Aerocube 10B – 2019-022C  
Aerocube 10A – 2019-022D  
Beidou DW 44 -- 2019-023A  
Tianhui 2-01 – 2019-024A  
Tianhui 2-02 – 2019-024B  
SPARC-1 – 2019-026B  
Harbinger – 2019-026E  
Beidou DW 45 – 2019-027A  
RISAT 2B – 2019-028A  
Starlink-31 – 2019-029A  
Starlink-22 – 2019-029B  
Starlink-23 – 2019-029C  
Starlink-24 – 2019-029D  
Starlink-25 – 2019-029E  
Starlink-26 – 2019-029F  
Starlink-27 – 2019-029G  
Starlink-28 – 2019-029H  
Starlink-29 – 2019-029J  
Starlink-30 – 2019-029K  
Starlink-21 – 2019-029L  
Starlink-46 – 2019-029M  
Starlink-33 – 2019-029N  
Starlink-34 – 2019-029P  
Starlink-61 – 2019-029Q  
Starlink-36 – 2019-029R  
Starlink-37 – 2019-029S  
Starlink-71 – 2019-029T  
Starlink-39 – 2019-029U  
Starlink-32 – 2019-029V  
Starlink-66 – 2019-029W  
Starlink-42 – 2019-029X  
Starlink-43 – 2019-029Y  
Starlink-40 – 2019-029Z  
Starlink-45– 2019-029AB  
Starlink-44 – 2019-029AC  
Starlink-49 – 2019-029AD  
Starlink-72 – 2019-029AE  
Starlink-35 – 2019-029AF  
Starlink-63 – 2019-029AG  
Starlink-54 – 2019-029AH  
Starlink-69 – 2019-029AJ  
Starlink-55 – 2019-029AK  
Starlink-57 – 2019-029AL  
Starlink-58 – 2019-029AM  
Starlink-59 – 2019-029AN  
Starlink-51 – 2019-029AP  
Starlink-62 – 2019-029AR  
Starlink-64 – 2019-029AS  
Starlink-65 – 2019-029AT

Starlink-41 – 2019-029AU  
Starlink-67 – 2019-029AV  
Starlink-68 – 2019-029AW  
Starlink-38 – 2019-029AX  
Starlink-70 – 2019-029AY  
Starlink-56 – 2019-029BA  
Starlink-73 – 2019-029BB  
Starlink-50 – 2019-029BC  
Starlink-75 – 2019-029BD  
Starlink-76 – 2019-029BE  
Starlink-79 – 2019-029BF  
Starlink-48 – 2019-029BG  
Starlink-78 – 2019-029BH  
Starlink-77 – 2019-029BJ  
Starlink-81 – 2019-029BK  
Starlink-74 – 2019-029BL  
Starlink-53 – 2019-029BM  
Glonass 758 (Cosmos 2534) – 2019-030A  
Yamal-601 – 2019-031A  
Jilin-1-03A – 2019-032A  
Tianqi-3 – 2019-032B  
Bufeng-1A – 2019-032C  
Xiaoxiang-1-04 – 2019-032D  
Bufeng-1B – 2019-032E  
Tianxiang-1 – 2019-032F  
Tianxiang-2 – 2019-032G  
RCM-1 – 2019-033A  
RCM-2 – 2019-033B  
RCM-3 – 2019-033C  
AT&T T16 – 2019-034A  
Eutelsat 7C – 2019-034B  
Beidou DW46 – 2019-035A  
Prox-1 -- 2019-036A  
NPSat-1 – 2019-036B  
OTB-1 – 2019-036C  
GPIM – 2019-036D  
COSMIC 2-3 – 2019-036E  
DSX – 2019-036F  
TEPCE – 2019-036H  
Falconsat-7 – 2019-036J  
E-TBEx A – 2019-036K  
COSMIC 2-1 – 2019-036L  
COSMIC 2-2 – 2019-036N  
COSMIC 2-4 – 2019-036M  
ARMADILLO – 2019-036P  
ParkinsonSat-2 – 2019-036R  
BRICSat-2 – 2019-036S  
Oculus-ASR – 2019-036T  
COSMIC 2-5 – 2019-036V  
COSMIC 2-6 – 2019-036Q  
E-TBEx B – 2019-036W

LEO CP9 – 2019-036X  
Prometheus 2.6 – 2019-036AB  
Painani-1 – 2019-037A  
Prometheus 2.9 – 2019-037B  
BlackSky Global 3 – 2019-037C  
SpaceBEE 9 – 2019-037F  
SpaceBEE 8 – 2019-037G  
Prometheus 2.7 – 2019-037K  
Meteor-M 2-2 – 2019-038A  
ICEYE-X5 – 2019-038C  
ICEYE-X4 – 2019-038D  
NSLSat-1 – 2019-038E  
JAISAT-1 – 2019-038F  
VDNH-80 – 2019-038G  
LightSat – 2019-038H  
AmGU-1 – 2019-038J  
Ecuador-UTE – 2019-038K  
Lemur-2-LillyJo – 2019-038L  
Move-IIb – 2019-038N  
SONATE – 2019-038Q  
Lemur-2-Wanli – 2019-038S  
Lemur-2-Morag – 2019-038T  
Sokrat – 2019-038U  
Lemur-2-DustInTheWind – 2019-038V  
Lucky-7 – 2019-038W  
Lemur-2-Alex-Maddy – 2019-038X  
El Camino Real – 2019-038Y  
Lemur-2-EJatta – 2019-038Z  
Exoconnect – 2019-038AA  
Lemur-2-GregRobinson – 2019-038AB  
BeeSat-9 – 2019-038AC  
Lemur-2-Yndrd – 2019-038AE  
Cosmos-2535 – 2019-039A  
Cosmos-2536 – 2019-039D  
Cosmos-2537 – 2019-039B  
Cosmos-2538 – 2019-039C  
Yaogan 30-5-1 – 2019-045A  
Yaogan 30-5-2 – 2019-045B  
Yaogan 30-5-3 – 2019-045C  
Meridian 8 – 2019-046A  
Blagovest-14L (Cosmos 2539) – 2019-048A  
EDRS-C – 2019-049A  
Intelsat-39 – 2019-049B  
Amos 17 – 2019-050A  
AEHF-5 (USA 292) – 2019-051A  
TDO – 2019-051B  
Qiancheng-01 – 2019-052A  
Tianqi-2 – 2019-052B  
Xingshidai-5 – 2019-052C  
BRO-One – 2019-054A  
Pearl White 1 – 2019-054C

Pearl White 2 – 2019-054D  
BlackSky Global 4 – 2019-054E  
Navstar GPS III-2 (USA 293) – 2019-056A  
Geo-IK-2 No.13L (Cosmos 2540) – 2019-057A  
Xiaoxiang 1-07 – 2019-058A  
KX-09 – 2019-058B  
Ziyuan 1-2D – 2019-059A  
Jingshi 1 – 2019-059B  
Zhuhai-1 OVS-03 – 2019-060A  
Zhuhai-1 (OHS 5) – 2019-060C  
Zhuhai-1 (OHS 6) – 2019-060D  
Zhuhai-1 (OHS 7) – 2019-060E  
Zhuhai-1 (OHS 8) – 2019-060F  
Beidou 3M23 – 2019-061A  
Beidou 3M24 – 2019-061B  
Yunhai 1-2 – 2019-063A

*Released from International Space Station:*

NepaliSat-1 – 1998-067QE  
Raavana-1 – 1998-067QF  
Uguisu – 1998-067QG  
SpooQy-1 – 1998-067QH  
RED-EYE -- 1998-067QJ  
IOD-1 GEMS – 1998-067QK  
Swiatowid – 1998-067QM

## **Additions and Deletions for the 4-1-19 Release**

This version of the Database includes launches through March 31, 2019. There are currently 2,062 active satellites in the database. The changes to this version of the database include:

- The addition of 173 satellites
- The deletion of 68 satellites
- The addition of and corrections to some satellite data

## **Satellites Removed**

Brasilsat-B2 – 1995-016A  
Milstar-DFS2 (USA 115) – 1995-060A  
UFO-7 (USA 127) – 1996-042A  
Iridium-5 – 1997-020D  
Iridium-7 – 1997-020B  
Iridium 64 -- 1998-021C  
Iridium-10 – 1997-030D  
Iridium-46 – 1997-043C  
Iridium-22 – 1997-043E  
Iridium-32 – 1997-051B  
Iridium-31 – 1997-051G  
Iridium-35 – 1997-056B  
Brasilsat-B3 – 1998-006A  
NSS-806 – 1998-014A  
Iridium-51 -- 1998-018A  
Iridium-55 – 1998-019A  
Iridium-58 – 1998-019C  
Iridium-59 -- 1998-019D  
Iridium-60 – 1998-019E  
Iridium-70 -- 1998-032A  
Iridium-74 -- 1998-032D  
Apstar-9A – 1998-033A  
Orbcomm FM 16 -- 1998-046E  
ITF-2 -- 1998-067KU  
Aoba-VELOX-III -- 1998-067KX  
Lemur 2F21 – 1998-067LA  
Lemur 2F19 – 1998-067LE  
HavelSat – 1998-067LJ  
SGSat -- 1998-067LL  
XCubesat -- 1998-067LQ  
LINK QB50 -- 1998-067LV  
Challenger QB50 -- 1998-067MA  
UNSW-ECO – 1998-067MC  
LilacSat-1 -- 1998-067ME  
PolyITAN-2-SAU – 1998-067MM  
Intelsat-APR2 -- 1999-016A  
Iridium-14A -- 1999-032A



DirecTV-1R – 1999-056A  
Orbcomm FM 34 -- 1999-065G  
Superbird-B2 – 2000-012A  
Eutelsat-16C – 2000-019A  
BermudaSat-1 – 2000-038A  
Nilesat-102 – 2000-046B  
EurasiaSat-1 – 2001-002A  
Iridium-91 -- 2002-005A  
Iridium-90 – 2002-005B  
Iridium-95 – 2002-095D  
Eutelsat-70D – 2002-038A  
GSAT-2 – 2003-018A  
Eutelsat-33A – 2003-043A  
Express-AM2 – 2005-010A  
Zhongxing-22A – 2006-038A  
Globalstar M068 – 2007-048D  
STPSat-2 (USA 217) – 2010-062A  
Aerocube 4.5A – 2012-048K  
Aerocube 4.5B – 2012-048L  
Aerocube 5A – 2013-072D  
Aerocube 5B – 2013-072E  
XW-2E -- 2015-049L  
XC-1 – 2015-049V  
XC-2 – 2015-049S  
XC-3 – 2015-049T  
XC-4 – 2015-049U  
Zijing-1 – 2015-049W  
Jilin-1A – 2015-057A  
Prometheus 2.2 – 2017-050C  
Prometheus 2.4 – 2017-050D  
CANYVAL-X2 -- 2018-004G

### **Satellites Added**

ZACUBE-1 – 2013-066B  
Tiangong-2 – 2016-057A  
Aerocube 12A – 2018-046C  
Aerocube 12B – 2018-046D  
Lemur 2F81 – 2018-046E  
Lemur 2F80 – 2018-046F  
Lemur 2F79 – 2018-046G  
Lemur 2F78 – 2018-046H  
MINXSS-2 – 2018-099A  
Pathfinder II – 2018-099B  
STPSat-5 – 2018-099E  
Polar Scout B – 2018-099G  
Hawk-A – 2018-099H  
Landmapper-BC4 – 2018-099K  
AISTechSat-2 – 2018-099L  
Dove 3s-1 – 2018-099M

Fox-1Cliff (AO 95) – 2018-099N  
RANGE-A – 2018-099Q  
RANGE-B – 2018-099R  
Hiber-2 – 2018-099S  
ExSeedSat-1 – 2018-099T  
Move II – 2018-099Y  
SNUSat-2 – 2018-099AA  
KazSTSAT – 2018-099AB  
SNUGLITE – 2018-099AC  
Orbweaver-2 – 2018-099AD  
ITASAT-1 – 2018-099AE  
KazSciSat-1 – 2018-099AF  
Dove 3s-3 – 2018-099AG  
Eaglet-1 – 2018-099AJ  
Capella-1 – 2018-099AK  
ESEO – 2018-099AL  
CSIM-FD – 2018-099AM  
Hawk-B – 2018-099AN  
Orbweaver 1 – 2018-099AP  
THEA – 2018-099AQ  
Skysat C12 – 2018-099AR  
Astrocast-0.1 – 2018-099AS  
Hawk-C 99 2018-099AT  
IceEye-X2 – 2018-099AU  
Skysat C13 – 2018-099AW  
JYISat (JO 97) – 2018-099AX  
Suomi-100 – 2018-099AY  
Al-Farabi-2 – 2018-099AZ  
KNACKSAT – 2018-099BA  
Eu:CROPIS – 2018-099BB  
Polar Scout A – 2018-099BC  
Centauri-1 – 2018-099BD  
Audacy Zero – 2018-099BE  
NextSat-1 – 2018-099BF  
BlackSky Global 2 – 2018-099BG  
BRIO – 2018-099BH  
PWSat-2 – 2018-099BJ  
FalconSat-6 – 2018-099BK  
SpaceBEE-7 – 2018-099BL  
SpaceBEE-5 – 2018-099BM  
SpaceBEE-6 – 2018-099BN  
eXCITe – 2018-099BP  
Seahawk-1 – 2018-099BQ  
Dove 3s-2 – 2018-099BR  
SeeMe – 2018-099BS  
Geo-Compsat-2A -- 2018-100A  
GSAT-11 -- 2018-100B  
SaudiSat-5A – 2018-102A  
SaudiSat-5B – 2018-102C  
Ladybird-1 – 2018-102F  
Ladybird-2 – 2018-102G

Ladybird-3 – 2018-102H  
Ladybird-4 – 2018-102J  
Ladybird-5 – 2018-102K  
Ladybird-6 – 2018-102L  
Ladybird-7 – 2018-102M  
Aerocube-11B – 2018-104A  
Shields 1 – 2018-104B  
NMTSat – 2018-104C  
STF-1 – 2018-104D  
CeReS – 2018-104E  
RSat – 2018-104F  
CHOMPTT – 2018-104G  
ISX – 2018-104H  
DaVinci – 2018-104J  
Cubesail Usat – 2018-104K  
AlBus – 2018-104L  
SHFT-1 – 2018-104M  
Aerocube-11A – 2018-104N  
GSAT-7A – 2018-105A  
CSO-1 – 2018-106A  
Blagovest-13L (Cosmos 2533) – 2018-107A  
Hongyun-1 – 2018-108A  
Navstar GPS III-1 – 2018-109A  
TJS-3 – 2018-110A  
TJS-3 Subsatellite – 2018-110C  
Kanopus-V-IK5 – 2018-111A  
Kanopus-V-IK-6 – 2018-111B  
iSat – 2018-111D  
UWE-4 – 2018-111E  
D-Star ONE Sparrow – 2018-111F  
Lemur 2F84 – 2018-111G  
Lemur 2F86 – 2018-111H  
Lemur 2F90 – 2018-111J  
Lemur 2F83 – 2018-111K  
Lemur 2F85 – 2018-111L  
Lemur 2F88 – 2018-111M  
Lemur 2F87 – 2018-111N  
Lemur 2F89 – 2018-111P  
GRUS-1 – 2018-111Q  
Dove 3k3 -- 2018-111S  
Dove 3k4 -- 2018-111T  
Dove 3k1 -- 2018-111U  
Dove 3k2 -- 2018-111V  
Dove 3k6 -- 2018-111W  
Dove 3k5 -- 2018-111Z  
Dove 3k8 -- 2018-111AB  
Dove 3k7 -- 2018-111AC  
Dove 3k12 -- 2018-111AD  
Dove 3k11 -- 2018-111AE  
Dove 3k10 -- 2018-111AF  
Dove 3k9 -- 2018-111AG

ZACUBE-2 – 2018-111AH  
Lume-1 – 2018-111AJ  
Yunhai-2 01 – 2018-112A  
Yunhai-2 02 – 2018-112B  
Yunhai-2 03 – 2018-112C  
Yunhai-2 04 – 2018-112D  
Yunhai-2 05 – 2018-112E  
Hongyan-1 – 2018-112F  
Yunhai-2 06 – 2018-112G  
Zhongxing 2D -- 2019-001A  
Iridium Next 180 – 2019-002A  
Iridium Next 176 – 2019-002B  
Iridium Next 168 – 2019-002C  
Iridium Next 173 – 2019-002D  
Iridium Next 169 – 2019-002E  
Iridium Next 172 – 2019-002F  
Iridium Next 175 – 2019-002G  
Iridium Next 171 – 2019-002H  
Iridium Next 170 – 2019-002J  
Iridium Next 167 – 2019-002K  
RAPIS-1 – 2019-003A  
OrigamiSat – 2019-003B  
RISESAT – 2019-003C  
MicroDragon – 2019-003D  
Nexus – 2019-003F  
ALE-1 – 2019-003G  
Aoba-VELOX IV – 2019-003J  
Keyhole 8 (USA 290) – 2019-004A  
Lingque 1A – 2019-005A  
Jilin 1 Guanpu 1 – 2019-005B  
Xiaoxiang-1 – 2019-005C  
Jilin 1 Guanpu 2 – 2019-005E  
Hellas-Sat 4/SGS 1 – 2019-007A  
GSAT-31 – 2019-007B  
EgyptSat-A -- 2019-008A  
Nusantara Satu – 2019-009A  
S5 – 2019-009D  
OneWeb-0012 -- 2019-010A  
OneWeb-0010 -- 2019-010B  
OneWeb-0008 -- 2019-010C  
OneWeb-0007 -- 2019-010D  
OneWeb-0006 -- 2019-010E  
OneWeb-0011 -- 2019-010F  
Zhongxing-6C – 2019-012A  
WGS 10 (USA 291) – 2019-014A  
PRISMA – 2019-015A  
R3D2 – 2019-016A  
Tianlian 2.01 – 2019-017A

Cube RRT – 1998-067NU  
Endurosat-One – 1998-067NZ

SPATIUM-I -- 1998-067PN  
Delphini-1 – 1998-067PW  
UNITE – 1998-067PX  
TechEdSat-8 – 1998-067PY  
CATSat-1 – 1998-067PZ

## **Additions and Deletions for the 12-1-18 Release**

This version of the Database includes launches through November 30, 2018.

There are currently 1,957 active satellites in the database.

The changes to this version of the database include:

- The addition of 141satellites
- The deletion of 71 satellites
- The addition of and corrections to some satellite data

## **Satellites Removed**

Echostar-1 – 1995-073A  
Palapa C2 -- 1996-030A  
Measat-2 – 1996-063B  
Iridium 12 – 1997-030B  
Iridium 10 – 1997-030D  
Iridium 15 – 1997-034A  
Iridium 18 -- 1997-034D  
ABS-3 -- 1997-042A  
Iridium 25 – 1997-043B  
Iridium 37 – 1997-056D  
Iridium 41 – 1997-069B  
JCSat-1B – 1997-075A  
Iridium 47 – 1997-082C  
Globalstar FM4 – 1998-008B  
Iridium 52 – 1998-010A  
Iridium 56 – 1998-010B  
Iridium 50 – 1998-010D  
Iridium 53 – 1998-010E  
Iridium 62 -- 1998-021A  
Iridium 65 – 1998-021D  
Iridium 66 – 1998-021E  
Iridium 67 – 1998-021F  
Iridium 68 – 1998-021G  
Iridium 72 – 1998-032B  
Iridium 75 – 1998-032E  
Iridium 76 – 1998-048B  
Iridium 81 – 1998-051B  
Iridium 80 – 1998-051C  
Iridium 86 – 1998-066B  
Iridium 84 – 1998-066D  
Iridium 83 – 1998-066E  
Dove 2e-1 – 1998-067JD  
Dove 2e-5 – 1998-067JN  
Dove 2ep-5 – 1998-067JR  
Dove 2ep-14 – 1998-067KJ  
Dove 2ep-15 – 1998-067KL  
Dove 2ep-17 – 1998-067KN  
Dove 2ep-18 – 1998-067KM

Dove 23p-20 – 1998-067KP  
Dove 2ep-19 – 1998-067KQ  
Lemur-2F20 -- 1998-067LD  
i-INSPIRE-2 – 1998-067ML  
Tomsk-TPU-120 -- 1998-067MZ  
Tanyusha 1 -- 1998-067NA  
Tanyusha 2 -- 1998-067NB  
TNS-0-2 Nanosputnik -- 1998-067ND  
SIMPL – 1998-067NF  
Iridium 20A – 1998-074A  
Iridium 11A – 1998-074B  
Globalstar M023 – 1999-004A  
Globalstar M040 – 1999-004B  
Iridium 21A – 1999-032B  
Globalstar M028 – 1999-041D  
Globalstar M059 – 1999-058B  
Globalstar M056 – 1999-058C  
Globalstar M031 – 1999-058D  
Globalstar M039 – 1999-062A  
Globalstar M063 – 2000-008A  
Iridium 94 – 2002-005C  
Iridium 98 – 2002-031B  
Glonass 714 (Cosmos 2419) – 2005-050A  
DubaiSat-1 – 2009-041B  
Glonass 737 (Cosmos 2465) -- 2010-041B  
ORBCOMM OG2 FM-104 – 2014-040E  
ORBCOMM OG2 FM-119 -- 2015-081B  
ORBCOMM OG2 FM-105 -- 2015-081C  
e-st@r-2 – 2016-025D  
Al-Farabi-1 – 2017-008BW  
EagleSat-1 -- 2017-073F  
CNUSail-1 – 2018-004Y  
KAUSAT-5 -- 2018-004AA

### **Satellites Added**

Diwata-1 --1998-067HT  
Aoxiang-1 – 1998-067MQ  
EcAmSat – 1998-067NG  
Batsu-CS1 – 1998-067NR  
RemoveDebris – 1998-067NT  
Tempest-D – 1998-067NV  
RaInCube – 1998-067NW  
HaloSat – 1998-067NX  
Radix – 1998-067NY  
EquiSat – 1998-067PA  
UiTMSAT-1 – 1998-067PD  
Maya-1 – 1998-067PE

Bhutan-1 – 1998-067PF  
SiriusSat-1 – 1998-067PG  
SiriusSat-2 – 1998-067PH  
Tanyusha No. 3 – 1998-067PJ  
Tanyusha No. 4 – 1998-067PK  
Dove-2 – 2013-015C  
Fengyun 4A – 2016-077A  
Apstar-6C – 2018-041A  
Gaofen-5 – 2018-043A  
Bangabandhu 1 – 2018-044A  
Grace Follow-on-1 – 2018-047A  
Grace Follow-on-2 – 2018-047B  
Iridium Next SV 161 – 2018-047C  
Iridium Next SV 152 – 2018-047D  
Iridium Next SV 147 – 2018-047E  
Iridium Next SV 110 – 2018-047F  
Iridium Next SV 162 – 2018-047G  
Gaofen-6 – 2018-048A  
LuoJia-1 – 2018-048B  
SES-12 – 2018-049A  
Fengyun-2H – 2018-050A  
IGS-Radar 6 – 2018-052A  
Glonass 756 (Cosmos 2527) – 2018-053A  
XJS-A – 2018-054A  
XJS-B – 2018-054B  
PRSS-1 – 2018-056A  
PakTES-1a – 2018-056B  
Beidou DW 32 -- 2018-057A  
Telstar 19 Vantage – 2018-059A  
Galileo FOC FM21 – 2018-060A  
Galileo FOC FM22 – 2018-060B  
Galileo FOC FM19 – 2018-060C  
Galileo FOC FM20 – 2018-060D  
Iridium Next SV 160 – 2018-061A  
Iridium Next SV 166 – 2018-061B  
Iridium Next SV 158 – 2018-061C  
Iridium Next SV 165 – 2018-061D  
Iridium Next SV 155 – 2018-061E  
Iridium Next SV 154 – 2018-061F  
Iridium Next SV 163 – 2018-061G  
Iridium Next SV 156 – 2018-061H  
Iridium Next SV 164 – 2018-061J  
Iridium Next SV 159 – 2018-061K  
Beidou DW 33 – 2018-062A  
Beidou DW 34 – 2018-062B  
Gaofen-11 – 2018-063A  
Merah Putih – 2018-064A  
Aeolus – 2018-066A  
Beidou DW-35 – 2018-067A  
Beidou DW-36 – 2018-067B



Haiyang 1C – 2018-068A  
Telstar 18 Vantage – 2018-069A  
Icesat-2 – 2018-070A  
ELFIN – 2018-070B  
ELFIN-STAR – 2018-070C  
DAVE – 2018-070D  
Surfsat – 2018-070E  
SSTL-S1-4 – 2018-071A  
NovaSAR-1 – 2018-071B  
Beidou DW-37 – 2018-072A  
Beidou DW-38 – 2018-072B  
Azerspace 2/Intelsat 38 – 2018-074A  
Horizons 3e – 2018-074B  
Centispace-1-S1 – 2018-075A  
SAOCOM 1A – 2018-076A  
Yaogan 32-01 – 2018-077A  
Yaogan 32-02 – 2018-077B  
Beidou DW-39 – 2018-078A  
Beidou DW-40 – 2018-078B  
AEHF-FV4 (USA 288) – 2018-079A  
Haiyang 2B – 2018-081A  
Tangguo Guan – 2018-081B  
Lotos-S1 (Cosmos 2528) – 2018-082A  
CFOSat – 2018-083A  
check extra 4 under 2018-083  
Ten-Koh – 2018-084A  
GOSAT-2 – 2018-084B  
KhalifaSat – 2018-084F  
Diwata-2B – 2018-084H  
Beidou DW-41 – 2018-085A  
Glonass 757 (Cosmos 2529) – 2018-086A  
MetOp-C – 2018-087A  
Cicero-10 – 2018-088A  
Irvine-1 – 2018-088D  
Proxima-1 – 2018-088E  
Lemur 2 – Zupanski – 2018-088F  
Proxima-2 – 2018-088G  
Lemur 2 – Chanusiak – 2018-088H  
GSAT-29 – 2018-089A  
Es'hail-2 – 2018-090A  
Beidou DW-42 – 2018-093A  
Beidou DW-43 – 2018-093B  
Shiyan-6 – 2018-094A  
Jiading-1 – 2018-094B  
Tianzhi-1 – 2018-094C  
Mohammed-VIB – 2018-095A  
HySIS – 2018-096A  
BlackSky Global-1 – 2018-096B  
FACSAT – 2018-096C

Cicero-8 – 2018-096  
Dove 3r-10 – 2018-096E  
Dove 3r-11 – 2018-096G  
Dove 3r-12 – 2018-096F  
Dove 3r-5 – 2018-096H  
Dove 3r-8 – 2018-096J  
Reaktor Hello World – 2018-096K  
Dove 3r-6 – 2018-096Y  
Dove 3r-7 – 2018-096Z  
Dove 3r-3 – 2018-096R  
Dove 3r-4 – 2018-096Q  
Dove 3r-15 – 2018-096T  
Dove 3r-16 – 2018-096S  
Dove 3r-13 – 2018-096AH  
Dove 3r-14 – 2018-096AG  
Dove 3r-1 – 2018-096AE  
Dove 3r-2 – 2018-096AF  
Dove 3r-9 – 2018-096  
Innosat-2 – 2018-096V  
Lemur-2-Orzulak – 2018-096  
Lemur-2-Vladimir – 2018-096  
Lemur-2-Kobyszcze – 2018-096  
Lemur-2-Duly – 2018-096  
Hiber-1 – 2018-096  
3Cat-1 – 2018-096  
Centauri-1 – 2018-096  
Kepler-2 CASE – 2018-096  
HSAT-1 – 2018-096  
Rodnik (Cosmos 2530) – 2018-097A  
Rodnik (Cosmos 2531) – 2018-097B  
Rodnik (Cosmos 2532) – 2018-097C

## **Additions and Deletions for July 1, 2018 release**

This version of the Database includes launches through April 30, 2018, and has been posted at <http://ucsusa.org/satellites> in both Excel and tab-delimited formats, with separate versions of these files containing only the official name of the satellite in the case of government and military satellites, and the most commonly used name in the case of commercial and civil satellites.

There are currently 1,886 active satellites in the database.

The changes to this version of the database include:

- The addition of 205 satellites
- The deletion of 58 satellites
- The addition of and corrections to some satellite data.

## **Deletions for July 1, 2018 release**

Iridium-8 – 1997-020A  
Iridium 13 -- 1993-030E  
Iridium-23 – 1997-043D  
Iridium-19 – 1997-056A  
Iridium-34 – 1997-056E  
Iridium-49 – 1997-082E  
Iridium-3 – 1998-048A  
Iridium-77 – 1998-051E  
AfriStar-1 – 1998-063A  
Artemis – 2001-029A  
Iridium-94 -- 2002-005C  
Grace-1 -- 2002-012A  
Grace-2 – 2002-012B  
Insat-3A – 2003-013A  
Insat-3C – 2002-002A  
Fengyun 2D – 2006-053A  
Beidou M1 – 2007-011A  
Fengyun 3A – 2008-026A  
Tiangong-1 – 2011-053A  
Beidou 2-14 – 2012-050A  
BeeSat-3 – 2013-015E  
STARE-B -- 2013-064T  
STSat-3 – 2013-066G  
ARC-1 -- 2015-058F  
LMRSTSat – 2015-058H  
D-Sat – 2017-036AF  
MKA-N1 – 2017-042J  
MKA-N2 – 2017-042K  
Corvis-BC1 – 2017—042Y  
Corvis-BC2 – 2017-042Z  
Dove-2EP2 – 1998-067JA  
Dove 2ep-2 – 1998-067JB  
Dove 2ep-4 – 1998-067JC  
Dove-2E2 – 1998-067JE  
Dove-2E3 – 1998-067JG  
Dove-2E4 – 1998-067JH

Dove-2E6 – 1998-067JM  
Dove-2E7 – 1998-067JP  
Dove-2EP1 – 1998-067HZ  
Dove-2EP6 – 1998-067JS  
Dove 2e-8 – 1998-067JQ  
Dove 2ep-7 – 1998-067JT  
Dove-2EP8 – 1998-067JU  
Dove-2E9 – 1998-067JV  
Dove-2E10 – 1998-067JW  
Dove-2E12 – 1998-067JX  
Dove-2E11 – 1998-067JY  
Dove-2EP9 – 1998-067JZ  
Dove-2EP10 – 1998-067KA  
Dove-2EP11 – 1998-067KB  
Dove-2EP12 – 1998-067KC  
Dove 2ep13 – 1998-067KH  
Dove 2ep-16 – 1998-067KK  
STARS-C – 1998-067KR  
OSNSat – 1998-067KZ  
Lemur 2 - Trutna – 1998-067LC  
QB50-Columbia – 1998-067LK  
QB50-Atlantis – 1998-067MS

#### **Additions for July 1, 2018 Release**

X-37B 0TV-5 (USA 277) – 2017-052A  
Amazonas-5 – 2017-053A  
Glonass-752 (Cosmos 2522) – 2017-055A  
Trumpet NROL-42 (USA 278) – 2017-056A  
AsiaSat-9 – 2017-057A  
Yaogan-30-1-1 – 2017-058A  
Yaogan-30-1-2 – 2017-058B  
Yaogan-30-1-3 – 2017-058C  
Intelsat-37E – 2017-059A  
BSAT-4A – 2017-059B  
VRSS-2 – 2017-060A  
Iridium Next SV 133 – 2017-061A  
Iridium Next SV 127 – 2017-061B  
Iridium Next SV 122 – 2017-061C  
Iridium Next SV 129 – 2017-061D  
Iridium Next SV 119 – 2017-061E  
Iridium Next SV 107 – 2017-061F  
Iridium Next SV 132 – 2017-061G  
Iridium Next SV 136 – 2017-061H  
Iridium Next SV 139 – 2017-061J  
Iridium Next SV 125 – 2017-061K  
QZS-4 Michibiki – 2017-062A  
SES-11/EchoStar 105 – 2017-063A  
Sentinel 5P – 2017-064A  
SDS-IV2 (USA 279) – 2017-066A

Koreasat-5A – 2017-067A  
Skysat-8 – 2017-068F  
Skysat-9 – 2017-068E  
Skysat-10 – 2017-068D  
Skysat-11 – 2017-068C  
Skysat-12 – 2017-068B  
Skysat-13 – 2017-068A  
Dove 3m-1 – 2017-068J  
Dove 3m-2 – 2017-068M  
Dove 3m-3 – 2017-068K  
Dove 3m-4 – 2017-068L  
Beidou DW 24 – 2017-069A  
Beidou DW 25 – 2017-069B  
Mohammed VI-A – 2017-070A  
Lemur 2F50 – 2017-071E  
Lemur 2F51 – 2017-071F  
Lemur 2F52 – 2017-071K  
Lemur 2F53 – 2017-071L  
Lemur 2F54 – 2017-071Q  
Lemur 2F55 – 2017-071R  
Lemur 2F56 – 2017-071S  
Lemur 2F57 – 2017-071T  
Fengyun-3D – 2017-072A  
HEAD-1 – 2017-072B  
NOAA-20 – 2017-073A  
Buccaneer RMM – 2017-073B  
MiRaTA – 2017-073C  
MakerSat-0 – 2017-073D  
RadFxSat – 2017-073E  
EagleSat-1 – 2017-073F  
Jilin 1-4 – 2017-074A  
Jilin 1-5 – 2017-074B  
Jilin 1-6 – 2017-074C  
Yaogan 30-2-1 – 2017-075A  
Yaogan 30-2-2 – 2017-075B  
Yaogan 30-2-3 – 2017-075C  
Lotos-S1 (Cosmos 2524) – 2017-076A  
LKW-1 – 2017-077A  
Alcomsat-1 – 2017-078A  
GalileoSat-19 – 2017-079A  
GalileoSat-20 – 2017-079B  
GalileoSat-21 – 2017-079C  
GalileoSat-22 – 2017-079D  
Shikisai (GCOM-C)- 2017-082A  
Tsubame (SLATS) – 2017-082B  
Iridium Next SV 135 -- 2017-083A  
Iridium Next SV 138 – 2017-083B  
Iridium Next SV 116 – 2017-083C  
Iridium Next SV 130 – 2017-083D  
Iridium Next SV 151 -- 2017-083E  
Iridium Next SV 134 – 2017-083F

Iridium Next SV 137 – 2017-083G  
Iridium Next SV 141 – 2017-083H  
Iridium Next SV 153 – 2017-083J  
Iridium Next SV 131 – 2017-083K  
LKW-2 -- 2017-084A  
Yaogan 30-3-1 -- 2017-085A  
Yaogan 30-3-2 – 2017-085B  
Yaogan 30-3-3 -- 2017-085C  
Superview 1-03 – 2018-002A  
Superview 1-04 – 2018-002B  
Beidou DW-26 – 2018-003A  
Beidou DW-27 -- 2018-003B  
CartoSat-2F – 2018-004A  
LEO Vantage 1 – 2018-004C  
ICEYE-X1 -- 2018-004D  
Carbonite-2 -- 2018-004E  
INS-1C -- 2018-004F  
CANYVAL-X2 – 2018-004G  
Landmapper-BC3 – 2018-004H  
Dove 3p'-3 – 2018-004J  
Dove 3p'-2 – 2018-004K  
Dove 3p'-1 – 2018-004L  
Dove 3p'-4 -- 2018-004M  
Lemur-2-McCafferty – 2018-004N  
Lemur-2-PeterWebster – 2018-004P  
Lemur-2-BrownCow – 2018-004Q  
Lemur-2-DaveWilson -- 2018-004R  
Astranis Demosat-2 -- 2018-004S  
Microsat-TD – 2018-004T  
Arkyd-6A – 2018-004V  
MicroMAS-2A – 2018-004W  
PicSat – 2018-004X  
CNUSail-1 -- 2018-004Y  
KAUSAT-5 -- 2018-004AA  
Fox-1D – 2018-004AC  
Step Cube Lab – 2018-004AD  
SpaceBEE-4 – 2018-004AE  
SpaceBEE-3 – 2018-004AF  
SpaceBEE-2 – 2018-004AG  
SpaceBEE-1 – 2018-004AH  
CICERO-7 – 2018-004AJ  
Tyvak-61C – 2018-004AK  
NROL-47 FIA Radar 5 (USA 281) – 2018-005A  
LKW-3 – 2018-006A  
ASNARO-2 – 2018-007A  
TianYi-2 -- 2018-008A  
Huia'an (Zhou Enlai) – 2018-008B  
KIPP – 2018-008C  
TianYi-6 – 2018-008D  
Jilin-1 Shipin 7 – 2018-008E  
Jilin-1 Shipin 8 – 2018-008F

SBIRS GEO-4 – 2018-009A  
Dove Pioneer -- 2018-010A  
Lemur-2-Marshall – 2018-010C  
Lemur-2-Tallhamn-ATC – 2018-010E  
Weina-1A – 2018-011A  
Yaogan-30-4-1 – 2018-011B  
Yaogan-30-4-2 – 2018-011C  
Yaogan-30-4-3 – 2018-011D  
Al Yah-3 – 2018-012A  
SES-14 – 2018-012B  
GovSat-1 – 2018-013A  
Kanopus-V3 – 2018-014A  
Kanopus-V4 – 2018-014B  
Lemur-2-Jin-Luen – 2018-014C  
Lemur-2-UramChanSol – 2018-014D  
Lemur-2-Kadi – 2018-014E  
Lemur-2-TheNickMolo – 2018-014F  
S-Net-1 – 2018-014G  
S-Net-2 – 2018-014H  
S-Net-3 – 2018-014J  
S-Net-4 – 2018-014K  
Fengmaniu-1 – 2018-015A  
Zhangheng 1—2018-015C  
GomX-4A – 2018-015F  
GomX-4B – 2018-015E  
ÑuSat 4 – 2018-015D  
ÑuSat 5 – 2018-015K  
Shaonian Xing – 2018-015H  
TRICOM 1R – 2018-016A  
Beidou-DW28 – 2018-018A  
Beidou-DW29 – 2018-018B  
Paz – 2018-020A  
StarLink Demo 1 – 2018-020B  
StarLink Demo 2 – 2018-020C  
IGS Optical 6 – 2018-021A  
GOES-17 – 2018-022A  
Hispasat 30W-6 – 2018-023A  
O3B-FM15 – 2018-024A  
O3B-FM16 – 2018-024B  
O3B-FM14 – 2018-024C  
O3B-FM13 – 2018-024D  
LKW-4 – 2018-025A  
EMKA 1 (Kosmos 2525) -- 2018-028A  
Beidou DW30 – 2018-029A  
Beidou DW31 – 2018-029B  
Iridium Next SV 144 – 2018-030A  
Iridium Next SV 149 -- 2018-030B  
Iridium Next SV 157 – 2018-030C  
Iridium Next SV 140 – 2018-030D  
Iridium Next SV 145 -- 2018-030E  
Iridium Next SV 146 – 2018-030F

Iridium Next SV 148 – 2018-030G  
Iridium Next SV 142 -- 2018-030H  
Iridium Next SV 150 – 2018-030J  
Iridium Next SV 143 -- 2018-030K  
Gaofen-1-02 -- 2018-031A  
Gaofen-1-03 – 2018-031B  
Gaofen-1-04 -- 2018-031D  
Superbird-8/DSN-1 -- 2018-033A  
Hylas-4 – 2018-033B  
Yaogan-31-1 -- 2018-034A  
Yaogan-31-2 -- 2018-034B  
Yaogan-31-3 – 2018-034C  
IRNSS-R1I – 2018-035A  
CBAS-1 (USA 283) – 2018-036A  
EAGLE (USA 284) – 2018-036B  
Mycroft (USA 285) – 2018-036E  
Blagovest -12L (Cosmos 2526) – 2018-037A  
TESS – 2018-038A  
Sentinel-3B – 2018-039A  
OHS-01 – 2018-040A  
OVS-02 -- 2018-040B  
OHS-03 -- 2018-040C  
OHS-04 – 2018-040D  
OHS-05 – 2018-040E  
SIMPL – 1998-067NF  
ASTERIA – 1998-067NH  
Dellingr – 1998-067NJ



### **For the 9-1-17 release:**

This version of the Database includes launches through August 31, 2017.  
There are currently 1,738 active satellites in the database.

The changes to this version of the database include:

- The addition of 321 satellites
- The deletion of 35 satellites
- The addition of and corrections to some satellite data.

### **Satellites Removed**

Intelsat 701 -- 1993-066A  
Intelsat 702 -- 1994-034A  
Gonets D1-14 -- 1996-009B  
Apstar 1A -- 1996-039A  
Meteosat-7 -- 1997-049B  
Iridium-30 -- 1997-051F  
Echostar-3 -- 1997-059A  
SpinSat - 1998-067FL  
Tancredo-1 -- 1998-067KT  
Globalstar MO26 -- 1999-041A  
Telkom-1 -- 1999-042A  
Hispasat-1C -- 2000-007A  
Garuda-1 -- 2000-011A  
Echostar-8 -- 2002-039A  
AMC-9 -- 2003-024A  
Amos 2 -- 2003-059A  
Amazonas-1 -- 2004-031A  
Kiku-8 -- 2006-059A  
Prism -- 2009-002B  
TISat-1 -- 2010-035E  
MKFKI-1 -- 2012-039E  
Cubebug-1 -- 2013-018D  
Phonesat 2.4 -- 2013-064B  
Firefly -- 2013-064R  
NPS-SCAT -- 2013-064K  
PUCP-SAT -- 2013-066AC  
Humsat-D -- 2013-066T  
Wren -- 2013-066V  
Firebird-A -- 2013-072B  
Firebird-B -- 2013-072C  
Popsat-HIP -- 2014-033U  
QB50P2 -- 2014-033Y  
Tianwang-1B -- 2015-051C  
Horyu-4 -- 2016-012D  
Samsat-218D -- 2016-026C

### **Satellites Added: Launched from Ground Station**

Lemur-2F14 – 2016-062D  
Lemur-2F15 – 2016-062C  
Lemur-2F16 – 2016-062E  
Lemur-2F17 – 2016-062F  
TJS-2 – 2017-001A  
YY-S1 – 2017-002A  
Jilin 1-3 – 2017-002B  
Kaidun-1 – 2017-002C  
Iridium Next SV 106 – 2017-003A  
Iridium Next SV 103 – 2017-003B  
Iridium Next SV 109 – 2017-003C  
Iridium Next SV 102 – 2017-003D  
Iridium Next SV 105 – 2017-003E  
Iridium Next SV 104 – 2017-003F  
Iridium Next SV 114 – 2017-003G  
Iridium Next SV 108 – 2017-003H  
Iridium Next SV 112 – 2017-003J  
Iridium Next SV 111 – 2017-003K  
SBIRS Geo-3 – 2017-004A  
Kirameki-2 – 2017-005A  
Hispasat 36W-1 – 2017-006A  
Telkom-3S – 2017-007A  
SkyBrasil-1 – 2017-007B  
Cartosat-2D – 2017-008A  
INS-1A – 2017-008B  
Dove 3p-20 – 2017-008C  
Dove 3p-8 – 2017-008D  
Dove 3p-51 – 2017-008E  
Dove 3p-37 – 2017-008F  
INS-1B – 2017-008G  
Dove 3p-19 – 2017-008H  
Dove 3p-24 – 2017-008J  
Dove 3p-18 – 2017-008K  
Dove 3p-22 – 2017-008L  
Dove 3p-21 – 2017-008M  
Dove 3p-28 – 2017-008N  
Dove 3p-26 – 2017-008P  
Dove 3p-17 – 2017-008Q  
Dove 3p-27 – 2017-008R  
Dove 3p-25 – 2017-008S  
Dove 3p-4 – 2017-008T  
Dove 3p-2 – 2017-008U  
Dove 3p-1 – 2017-008V  
Dove 3p-3 – 2017-008W

Dove 3p-6 – 2017-008X  
Dove 3p-7 – 2017-008Y  
Dove 3p-5 – 2017-008Z  
Dove 3p-12 – 2017-008AA  
Dove 3p-9 – 2017-008AB  
Dove 3p-10 – 2017-008AC  
Dove 3p-11 – 2017-008AD  
Dove 3p-60 – 2017-008AE  
Dove 3p-58 – 2017-008AF  
Dove 3p-57 – 2017-008AG  
Dove 3p-75 – 2017-008AH  
Dove 3p-70 – 2017-008AJ  
Dove 3p-73 – 2017-008AK  
Dove 3p-88 – 2017-008AL  
Dove 3p-85 – 2017-008AM  
Dove 3p-79 – 2017-008AN  
Dove 3p-86 – 2017-008AP  
Dove 3p-36 – 2017-008AQ  
Dove 3p-30 – 2017-008AR  
Dove 3p-34 – 2017-008AS  
Dove 3p-35 – 2017-008AT  
Dove 3p-33 – 2017-008AU  
Lemur 2F22 – 2017-008BB  
Lemur 2F23 – 2017-008AY  
Lemur 2F24 – 2017-008AV  
Lemur 2F25 – 2017-008AZ  
Lemur 2F26 – 2017-008AX  
Lemur 2F27 – 2017-008AW  
Lemur 2F28 – 2017-008BA  
Lemur 2F29 – 2017-008BC  
BGUSat – 2017-008BD  
Dido-2 – 2017-008BE  
Dove 3p-49 – 2017-008BF  
Dove 3p-67 – 2017-008BG  
Dove 3p-68 – 2017-008BH  
Dove 3p-41 – 2017-008BJ  
Dove 3p-45 – 2017-008BK  
Dove 3p-48 – 2017-008BL  
Dove 3p-43 – 2017-008BM  
Dove 3p-42 – 2017-008BN  
Dove 3p-61 – 2017-008BP  
Dove 3p-40 – 2017-008BQ  
Dove 3p-16 – 2017-008BR  
Dove 3p-14 – 2017-008BS  
Dove 3p-53 – 2017-008BT  
Dove 3p-54 – 2017-008BU  
PEASSS – 2017-008BV  
Al-Farabi-1 – 2017-008BW

Nayif-1 – 2017-008BX  
Dove 3p-23 – 2017-008BY  
Dove 3p-76 – 2017-008BZ  
Dove 3p-69 – 2017-008CA  
Dove 3p-84 – 2017-008CB  
Dove 3p-59 – 2017-008CC  
Dove 3p-32 – 2017-008CD  
Dove 3p-71 – 2017-008CE  
Dove 3p-77 – 2017-008CF  
Dove 3p-80 – 2017-008CG  
Dove 3p-66 – 2017-008CH  
Dove 3p-65 – 2107-008CJ  
Dove 3p-50 – 2017-008CK  
Dove 3p-52 – 2017-008CL  
Dove 3p-46 – 2017-008CM  
Dove 3p-47 – 2017-008CN  
Dove 3p-44 – 2017-008CP  
Dove 3p-64 – 2017-008CQ  
Dove 3p-63 – 2017-008CR  
Dove 3p-62 – 2017-008CS  
Dove 3p-38 – 2017-008CT  
Dove 3p-39 – 2017-008CU  
Dove 3p-15 – 2017-008CV  
Dove 3p-13 – 2017-008CW  
Dove 3p-55 – 2017-008CX  
Dove 3p-56 – 2017-008CY  
Dove 3p-81 – 2017-008CZ  
Dove 3p-87 – 2017-008DA  
Dove 3p-29 – 2017-008DB  
Dove 3p-82 – 2017-008DC  
Dove 3p-78 – 2017-008DD  
Dove 3p-74 – 2017-008DE  
Dove 3p-31 – 2017-008DF  
Dove 3p-83 – 2017-008DG  
Dove 3p-72 – 2017-008DH  
USA 274 -- 2017-011A  
USA 274 -- 2017-011B  
Tiankun-1 – 2017-012A  
Sentinel 2B – 2017-013A  
Echostar-23 – 2017-014A  
IGS Radar 5 – 2017-015A  
WGS-9 (USA 275) – 2017-016A  
SES 10 – 2017-017A  
Shijian 13 – 2017-018A  
Lemur 2F30 – 2017-019B  
Lemur 2F31 – 2017-019C  
Lemur 2F32 – 2017-019D  
Lemur 2F33 – 2017-019E

NROL-76 (USA 276) – 2017-022A  
Koreasat-7 – 2017-023A  
SGDC – 2017-023B  
South Asia Satellite – 2017-024A  
INMARSAT 5 F4 – 2017-025A  
SES-15 – 2017-026A  
EKS-2 (Cosmos 2518) – 2017-027A  
Michibiki-2 – 2017-028A  
ViaSat-2 – 2017-029A  
Eutelsat-172B – 2017-029B  
GSAT-19E – 2017-031A  
Echostar-21 – 2017-032A  
Hard X-ray Modulation Telescope – 2017-034A  
Zhuhai-1-02 – 2017-034B  
NUSat-3 – 2017-034C  
Zhuhai-1-01 – 2017-034D  
Chinasat-9A – 2017-035A  
UCLSat – 2017-036A  
NIUSAT-Keralashree – 2017-036B  
Cartosat-2E – 2017-036C  
LituanicaSAT 2 – 2017-036D  
CESat-1 – 2017-036E  
Lemur 2F34 -- 2017-036G  
Lemur 2F35 – 2017-036H  
Lemur 2F36 – 2017-036J  
Lemur 2F37 – 2017-036K  
Aalto-1 – 2017-036L  
Ursa Maior – 2017-036M  
Compass-2 – 2017-036N  
Max Valier – 2017-036P  
Lemur 2F38 – 2017-036T  
Lemur 2F39 – 2017-036S  
Lemur 2F40 – 2017-036R  
Lemur 2F41 – 2017-036Q  
Diamond Red – 2017-036U  
Diamond Green – 2017-036W  
Diamond Blue – 2017-036X  
NUDTSat – 2017-036Y  
Suchai – 2017-036Z  
skCUBE – 2017-036AA  
VZLUSat – 2017-036AB  
Venta-1 – 2017-036AC  
Robusta-1B – 2017-036AD  
Cicero-6 – 2017-036AE  
D-Sat – 2017-036AF  
Tyvak-53b – 2017-036AG  
Cosmos 2519 – 2017-037A  
Cosmos 2519 (subsatellite) – 2017-037D  
BulgariaSat-1 – 2017-038A

Iridium Next 113 – 2017-039A  
Iridium Next 123 – 2017-039B  
Iridium Next 120 – 2017-039C  
Iridium Next 115 – 2017-039D  
Iridium Next 118 – 2017-039E  
Iridium Next 117 – 2017-039F  
Iridium Next 126 – 2017-039G  
Iridium Next 124 – 2017-039H  
Iridium Next 128 – 2017-039J  
Iridium Next 121 – 2017-039K  
HellasSat-3/INMARSAT S EAN – 2017-040A  
GSAT-17 – 2017-040B  
Intelsat-35E – 2017-041A  
Kanopus V-IK-2 – 2017-042A  
Norsat-1 – 2017-042B  
Cicero-1 – 2017-042C  
Norsat-2 – 2017-042D  
Technosat – 2017-042E  
FLP – 2017-042G  
MKA-N 1 – 2017-042J  
MKA-N 2 – 2017-042K  
WNISat-1R – 2017-042L  
Cicero-2 – 2017-042M  
Lemur-2-42 – 2017-042N  
Lemur-2-44 – 2017-042Q  
Lemur-2-45 – 2017-042R  
Lemur-2-46 – 2017-042W  
Lemur-2-47 – 2017-042P  
Lemur-2-48 – 2017-042S  
Lemur-2-49 – 2017-042T  
Nanoace – 2017-042V  
Corvus-BC-1 – 2017-042Y  
Corvus-BC-2 – 2017-042X  
Cicero-3 – 2017-042AA  
Dove 2k-3 – 2017-042AB  
Dove 2k-4 – 2017-042AC  
Dove 2k-1 – 2017-042AD  
Dove 2k-2 – 2017-042AE  
Dove2k-47 – 2017-042AF  
Dove 2k-48 – 2017-042AG  
Dove 2k-45 – 2017-042AH  
Dove 2k-24 – 2017-042AJ  
Dove 2k-46 – 2017-042AK  
Dove 2k-23 – 2017-042AL  
Dove 2k-21 – 2017-042AM  
Dove 2k-22 – 2017-042AN  
Dove 2k-7 – 2017-042AP  
Dove 2k-8 – 2017-042AQ  
Dove 2k-5 – 2017-042AR

Dove 2k-40 – 2017-042AS  
Dove 2k-39 – 2017-042AT  
Dove 2k-37 – 2017-042AU  
Dove 2k-38 – 2017-042AV  
Dove 2k-31 – 2017-042AW  
Dove 2k-32 – 2017-042AX  
Dove 2k-29 – 2017-042AY  
Dove 2k-30 – 2017-042AZ  
Dove 2k-44 – 2017-042BA  
Dove 2k-43 – 2017-042BB  
Dove 2k-41 – 2017-042BC  
Dove 2k-36 – 2017-042BD  
Dove 2k-35 – 2017-042BE  
Dove 2k-34 – 2017-042BF  
Dove 2k-33 – 2017-042BG  
Dove 2k-28 – 2017-042BH  
Lemur 2-43 – 2017-042BJ  
Dove 2k-27 – 2017-042BK  
Dove 2k-26 – 2017-042BL  
Dove 2k-25 – 2017-042BM  
Dove 2k-20 – 2017-042BN  
Dove 2k-19 – 2017-042BP  
Dove 2k-18 – 2017-042BQ  
Dove 2k-17 – 2017-042BR  
Dove 2k-16 – 2017-042BS  
Dove 2k-15 – 2017-042BT  
Dove 2k-13 – 2017-042BU  
Dove 2k-14 – 2017-042BV  
Dove 2k-12 – 2017-042BW  
Dove 2k-11 – 2017-042BX  
Dove 2k-10 – 2017-042BY  
Dove 2k-9 – 2017-042BZ  
Dove 2k-6 – 2017-042CA  
Opsat-3000 – 2017-044A  
Venµs – 2017-044B  
Blagovest-11L (Cosmos 2520) – 2017-046A  
TDRS-13 – 2017-047A  
Michibiki-3 – 2017-048A  
FormoSat-5 – 2017-049A  
ORS-5 – 2017-050A  
Prometheus 2.2 – 2017-050B  
Prometheus 2.4 – 2017-050C  
DHFR – 2017-050D

#### **Satellites Added: Deployed from Cygnus or International Space Station**

Tancredo-1 – 1998-067KT  
ITF-2 – 1998-067KU

AOBA-Velox 3 – 1998-067KX  
OSNSat – 1998-067KZ  
Lemur-2F18 – 1998-067LC  
Lemur-2F19 – 1998-067LE  
Lemur-2F20 – 1998-067LD  
Lemur-2F21 – 1998-067LA  
Havelsat – 1998-067LH  
ColumbiaSat – 1998-067LK  
SGSat – 1998-067LL  
CXBN-2 – 1998-067LM  
Phoenix – 1998-067LP  
XCubeSat – 1998-067LQ  
QBEE50-LTU-OC – 1998-067LR  
Altair-1 -- 1998-067LS  
SHARC -- 1998-067LT  
ZA-Aerosat – 1998-067LU  
LINK – 1998-067LV  
CSUNSAT-1 – 1998-067LW  
Spacecube – 1998-067LY  
Hoopoe – 1998-067LZ  
Challenger -- 1998-067MA  
NJUST-1 – 1998-067MB  
UNSW-ECO – 1998-067MC  
Lilacsat-1 – 1998-067ME  
Nsight-1 – 1998-067MF  
i-Inspire-2 – 1998-067ML  
PolyITAN-2-SAU – 1998-067MM  
Exalta-1 – 1998-067MP  
BeEagleSat – 1998-067MR  
Atlantis – 1998-067MS  
Toki -- 1998-067MU  
Mazaalai – 1998-067MW  
BRAC ONNESHASHA – 1998-067MX  
Nigeria EduSat-1 – 1998-067MY  
Tomsk-TPU-120 – 1998-067MZ  
Tanyusha YuZGU-1 – 1998-067NA  
Tanyusha YuZGU-2 – 1998-067NB  
TNS-0-2 Nanosputnik – 1998-067ND



**For the 1-1-17 release:**

This version of the Database includes launches through December 31, 2016.  
There are currently 1460 active satellites in the database.

The changes to this version of the database include:

- The addition of 91 satellites (including 3 returned to the database on new information)
- The deletion of 50 satellites
- The addition of and corrections to some satellite data.

**Satellites Removed**

GOES-3 – 1978-062A  
NATO-4B – 1993-076A  
Iridium 39 – 1997-069D  
Iridium 42 – 1997-077A  
Iridium 57 – 1998-019B  
Globalstar M06 – 1998-023B  
Globalstar M027 – 1999-043B  
Globalstar M029 – 1999-062C  
EO-1 – 2000-075A  
EROS-A1 – 2000-079A  
Eutelsat-33B – 2002-051A  
FORMOSAT-2 – 2004-018A  
Suzaku – 2005-025A  
Resurs-DK1 – 2006-021A  
IGS-3A – 2006-037A  
Glonass 725 (Cosmos 2443) – 2008-046B  
Oceansat-2 – 2009-051A  
Glonass 738 (Cosmos 2466) – 2010-041A  
Vesselsat-1 – 2011-058C  
Glonass 746 (Cosmos 2478) – 2011-071A  
Amos 5 – 2011-074A  
Vesselsat-2 – 2012-001B  
Prometheus 4A -- 2013-064V  
Prometheus 4B – 2013-064X  
CSSWE – 2012-048D  
2014-064AC  
ZACube-1 -- 2013-066B  
ORBCOMM FM-106 – 2014-040C  
ORBCOMM FM-111 – 2014-040 D  
Kuaizhou-2 – 2014-073A  
OUFTI-1 -- 2016-025C  
Dove 1e-6 – 1998-067GM  
Dove 1e-7 – 1998-067

Dove 1e-10 – 1998-067GP  
Dove 1e-11 – 1998-067GQ  
Dove 1e-12 – 1998-067GR  
Dove 1e-13 – 1998-067GS  
Dove 1e-14 – 1998-067GT  
S-Cube – 1998-067GY  
GOMX-3 – 1998-067HA  
Dove 2-b1 – 1998-067HB  
Dove 2-b2 – 1998-067HC  
Dove 2-b3 – 1998-067HD  
Dove 2-b4 – 1998-067HE  
Dove 2-b5 – 1998-067HF  
Dove 2-b6 – 1998-067HG  
Dove 2-b7 – 1998-067HH  
Dove 2-b9 – 1998-067HK  
Dove 2-b10 – 1998-067HL  
Dove 2-b13 – 1998-067HM  
Dove 2-b14 – 1998-067HN

### **Satellites Added**

(Returned to database after removal last release: CanX-2, 4, and 5)

SDS IV-1 (USA 269) – 2016-047A  
Tiantong-1 – 2016-048A  
Gaofen-3 – 2016-049A  
JCSat 16 – 2016-050A  
Quantum Science Satellite – 2016-051A  
GSSAP-3 – 2016-052A  
GSSAP-4 – 2016-052B  
Intelsat 36 – 2016-053A  
Intelsat 33E – 2016-053B  
Insat-3DR – 2016-054A  
Ofeq-11 – 2016-056A  
Perusat-1 – 2016-058A  
Skysat-4 – 2016-058D  
Skysat-5 – 2016-058E  
Skysat-6 – 2016-058B  
Skysat-7 – 2016-058C  
PISAT – 2016-059B  
AlSat-1B – 2016-059C  
AlSat-2B – 2016-059D  
BlackSky Pathfinder 1 – 2016-059E  
CanX-7 – 2016-059F  
AlSat-1N – 2016-059G  
ScatSat-1 – 2016-059H  
GSAT-18 – 2016-060A

Sky Muster 2 -- 2016-060B  
Himawari-9 – 2016-064A  
Shijian-17 – 2016-065A  
XPNav-1 – 2016-066A  
Worldview 4 – 2016-067A  
Prometheus 2.1 – 2016-067B  
Prometheus 2.2 – 2016-067C  
Aerocube 8C – 2016-067D  
Aerocube 8D – 2016-067E  
CELTEE-1 – 2016-067G  
RAVAN – 2016-067H  
Yunhai-1 – 2016-068A  
Galileo-15 – 2016-069A  
Galileo-16 – 2016-069B  
Galileo-17 – 2016-069C  
Galileo-18 – 2016-069D  
GOES-R – 2016-071A  
Tianlian-1-04 – 2016-072A  
Gokturk 1 – 2016-073A  
Resourcesat-2A – 2016-074A  
WGS-8 – 2016-075A  
CYGNSS-E – 2016-078A  
CYGNSS-D – 2016-078B  
CYGNSS-B – 2016-078C  
CYGNSS-A – 2016-078D  
CYGNSS-H – 2016-078E  
CYGNSS-F – 2016-078F  
CYGNSS-G – 2016-078G  
CYGNSS-C – 2016-078H  
Echostar-19 – 2016-079A  
ERG – 2016-080A  
TanSat – 2016-081A  
Chao fenbianlu duoguangpu – 2016-081B  
Spark 1 – 2016-081C  
Spark 2 – 2016-081D  
Star One-D1 – 2016-082B  
JCSAT-15 – 2016-082A  
Superview-1-01 – 2016-083A  
Superview-1-02 – 2016-083B  
Dove 2e-5 – 1998-067JN  
Dove 2e-6 – 1998-067JM  
Dove 2e-7 – 1998-067JP  
Dove 2e-8 – 1998-067JQ  
Dove 2e-9 – 1998-067JV  
Dove 2e-10 – 1998-067JW  
Dove 2e-11 – 1998-067JY

Dove 2e-12 – 1998-067JX  
Dove 2ep-5 – 1998-067JR  
Dove 2ep-6 – 1998-067JS  
Dove 2ep-7 – 1998-067JT  
Dove 2ep-8 – 1998-067JU  
Dove 2ep-9 – 1998-067JZ  
Dove 2ep-10 – 1998-067KA  
Dove 2ep-11 – 1998-067KB  
Dove 2ep-12 – 1998-067KC  
Dove 2ep-13 – 1998-067KH  
Dove 2ep-14 – 1998-067KJ  
Dove 2ep-15 – 1998-067KL  
Dove 2ep-16 – 1998-067KK  
Dove 2ep-17 – 1998-067KN  
Dove 2ep-18 – 1998-067KM  
Dove 2ep-19 – 1998-067KQ  
Dove 2ep-20 – 1998-067KP  
STARS-C Oyaki -- 1998-067KR

#### **For the 7-1-16 release:**

This version of the Database includes launches through June 30, 2016.  
There are currently 1419 active satellites in the database.

The changes to this version of the database include:

- The addition of 75 satellites
- The deletion of 37 satellites
- The addition of and corrections to some satellite data.

#### **Satellites removed**

Akebono – 1989-016A  
Navstar GPS II-10 (USA 66) – 1990-103A  
Navstar GPS II-23 (USA 96) – 1993-068A  
Superbird-C – 1997-036A  
Intelsat-7 – 1998-052A  
Dove 1d-2 – 1998-067FV  
Dove 1e-1 – 1998-067GF  
Dove 1e-2 – 1998-067GE  
Dove 1e-3 – 1998-067GH  
Dove 1e-4 – 1998-067GG  
Dove 1e-5 – 1998-067GL  
Dove 1e-8 – 1998-067GK  
Dove 1e-9 – 1998-067GN

SERPENS – 1998-067GX  
AAUSat-5 – 1998-067GZ  
Dove 2b-8 – 1998-067HJ  
Eutelsat 115 West A – 1998-070A  
Ørsted – 1999-008B  
Keyhole 3 (USA 144) – 1999-028A  
Galaxy-27 – 1999-052A  
XM-1 – 2001-018A  
Keyhole 4 (USA 161) -- 2001-044A  
Yaogan-2 – 2007-019A  
Yaogan-3 – 2007-055A  
Can-X2 – 2008-021H  
STUDSat – 2010-035B  
Tian-Xun-1 – 2011-066A  
Yubileiny-2/RS-40 – 2012-041C  
Can-X3a -- 2013-009G  
ORSES – 2013-064G  
\$50Sat – 2013-066W  
DMSP-19 – 2014-015A  
Can-X4 -- 2014-034C  
Can-X5 -- 2014-034D  
Angels (USA 255) – 2014-043C  
USS Langley – 2015-025B  
BRICSat-P – 2015-025E

### **Satellites Added**

Belintersat-1 – 2016-001A  
Jason-3 – 2016-002A  
IRNSS-1E – 2016-003A  
Intelsat-29E – 2016-004A  
Eutelsat-9B – 2016-005A  
Beidou 3M-3S – 2016-006A  
Navstar GPS IIF-12 (USA 266) – 2016-007A  
Glonass 751 (Cosmos 2514) – 2016-008A  
Topaz-4 (USA 267) – 2016-010A  
Sentinel-3A – 2016-011A  
ChubuSat-2 – 2016-012B  
ChubuSat-3 – 2016-012C  
Horyu-4 – 2016-012D  
SES-9 – 2016-013A  
Eutelsat 65 West-A – 2016-014A  
IRNSS-1F – 2016-015A  
Resurs P-3 – 2016-016A  
BARS-M (Cosmos 2515) – 2016-020A  
Beidou IGSO-6 – 2016-021A

Sentinel-1B – 2016-025A  
MicroSCOPE – 2016-025B  
OUFTI-1 – 2016-025C  
e-st@r-2 – 2016-025D  
AAUSat-4 – 2016-025E  
Mikhailo Lomonosov – 2016-026A  
AIST-2D – 2016-026B  
SamSat-218D – 2016-026C  
IRNSS-1G – 2016-027A  
JCSat-14 – 2016-028A  
Yaogan-30 – 2016-029A  
Galileo-13 – 2016-030A  
Galileo-14 – 2016-030B  
Thaicom-8 – 2016-031A  
Glonass 753 (Cosmos 2516) – 2016-032A  
Ziyuan 3-2 – 2016-033A  
ÑuSat-1 – 2016-033B  
ÑuSat-2 – 2016-033C  
GEO-IK2 (Cosmos 2517) – 2016-034A  
Intelsat 31/DLA 2 – 2016-035A  
Advanced Orion-7 (USA 268) – 2016-036A  
Beidou – 2016-037A  
ABS 2A – 2016-038A  
Eutelsat 117 West-B – 2016-038B  
BRISat – 2016-039A  
Echostar 18 – 2016-039B  
CartoSat-2C – 2016-040A  
Sathyabamasat – 2016-040B  
SkySat-3 – 2016-040C  
GHGSat-D – 2016-040D  
LAPAN A3 – 2016-040E  
BIROS – 2016-040F  
M3MSat – 2016-040G  
Swayam – 2016-040J  
Dove 2p-1 – 2016-040U  
Dove 2p-2 – 2016-040L  
Dove 2p-3 – 2016-040V  
Dove 2p-4 – 2016-040N  
Dove 2p-5 – 2016-040T  
Dove 2p-6 – 2016-040H  
Dove 2p-7 – 2016-040S  
Dove 2p-8 – 2016-040Q  
Dove 2p-9 – 2016-040M  
Dove 2p-10 – 2016-040P  
Dove 2p-11 – 2016-040K  
Dove 2p-12 – 2016-040R

Dove 2e-1 – 1998-067JD  
Dove 2e-2 – 1998-067JE  
Dove 2e-3 – 1998- 067JG  
Dove 2e-4 – 198-067JH  
Dove 2ep-1 – 1998-067HZ  
Dove 2ep-2 – 1998-067JB  
Dove 2ep-3 – 1998-067JA  
Dove 2ep-4 – 1998-067JC  
MUOS-5 – 2016-041A  
Shijian 16-02 – 2016-043A

**For the 1-1-16 release:**

This version of the Database includes launches through December 31, 2015.  
There are currently 1381 active satellites in the database.

The changes to this version of the database include:

- The addition of 116 satellites
- The deletion of 40 satellites
- The addition of more information in the “Type of Orbit” column, to describe orbits more precisely, for example, “non-polar inclined,” and “sun-synchronous.”
- The addition of and corrections to some satellite data.

**Satellites removed**

Leasat 5 – 1990-002B  
Apstar-1 – 1994-043A  
Astra 1E – 1995-055A  
ABS-1A – 1996-003A  
AMC-5 – 1998-063B  
Express-A2 – 2000-013A  
SB-WASS 3-1 (USA 160) – 2001-040A  
SB-WASS 3-1 (USA 160) – 2001-040B  
Strela (Cosmos 2384) -- 2001-058A  
Spot-5 – 2002-021A  
SB-WASS 3-2 (USA 173) – 2003-054A  
SB-WASS 3-3 (USA 173) – 2003-054B  
MTSat-1R – 2005-006A  
US-KS Oko 87 (Cosmos-2422) – 2006-030A  
NFIRE – 2007-014A  
C/NOFS – 2008-017A  
US-KS Oko 89 (Cosmos 2446) – 2008-062A  
Rodnik (Cosmos 2452) -- 2009-036B  
Picard – 2010-028A  
ORS-1 (USA 231) – 2011-029A  
AAUSat-3 – 2013-009B  
EstCube-1 – 2013-021C

DANDE – 2013-055C  
Vermont Lunar – 2013-064AD  
Prometheus 3A – 2013-064P  
Prometheus 1B – 2013-064M  
Prometheus 2A – 2013-064AE  
Prometheus 2B – 2013-064L  
Prometheus 3B – 2013-064Q  
IPEX – 2013-072K  
Egypsat-2 – 2014-021A  
Kobalt-M (Cosmos 2505) – 2015-027A  
Dove 1b-06 – 1998-067FX  
Dove 1b-11 – 1998-067GC  
Dove 1b-12 – 1998-067GD  
Dove 1b-21 – 1998-067FQ  
Dove 1b-22 – 1998-067FR  
Dove 1b-27 – 1998-067FN  
Dove 1d-1 – 2015-067FU  
GEARRS-1 – 1998-067FZ

#### **Satellites Added**

MUOS-4 – 2015-044A  
Galileo FOC-5 – 2015-045A  
Galileo FOC-6 – 2015-045B  
TJS-1 – 2015-046A  
Gaofen 9 – 2015-046A  
Express AM-8 – 2015-048A  
SERPENS – 1998-067GX  
S-Cube – 1998-067GY  
XW-2A – 2015-049E  
XW-2B – 2015-049N  
XW-2C – 2015-049H  
XW-2D – 2015-049J  
XW-2E – 2015-049L  
XW-2F – 2015-049M  
DCBB – 2015-049P  
LilacSat-2 – 2015-049K  
NUDT-Phonesat – 2015-049B  
Zheda Pixing-2A – 2015-049C  
Zheda Pixing 2B – 2015-049D  
Tiantuo-3 – 2015-049A  
Kaituo-1A – 2015-049F  
Naxing-2 – 2015-049G  
Xingchen 1 – 2015-049V  
Xingchen 2 – 2015-049S  
Xingchen 3 – 2015-049T



Xingchen 4 – 2015-049U  
Zijing 1 – 2015-049W  
KJSY-1 – 2015-049R  
Rodnik-S (Cosmos 2507) – 2015-050A  
Rodnik-S (Cosmos 2508) – 2015-050B  
Rodnik-S (Cosmos 2509) – 2015-050C  
Pujiang-1 – 2015-051A  
TW-1A – 2015-051D  
TW-1B – 2015-051C  
TW-1C – 2015-051B  
Astrosat – 2015-052A  
LAPAN A2 – 2015-052B  
exactView-9 – 2015-052C  
Lemur-2 Joel – 2015-052D  
Lemur-2 Peter – 2015-052E  
Lemur-2 Jeroen – 2015-052F  
Lemur-2 Chris – 2015-052G  
Beidou 3I-2S – 2015-053A  
NBN-1A – 2015-054A  
Arsat-2 – 2015-054B  
Dove 2b-1 – 1998-067HB  
Dove 2b-2 – 1998-067HC  
Dove 2b-3 – 1998-067HD  
Dove 2b-4 – 1998-067HE  
Dove 2b-5 – 1998-067HF  
Dove 2b-6 – 1998-067HG  
Dove 2b-7 – 1998-067HH  
Dove 2b-8 – 1998-067HJ  
Dove 2b-9 – 1998-067HK  
Dove 2b-10 – 1998-067HL  
Dove 2b-13 – 1998-067HM  
Dove 2b-14 – 1998-067HN  
Mexsat-2 – 2015-056A  
AAUSat-5 – 1998-067GZ  
GOMX-3 – 1998-067HA  
LQSat – 2015-057A  
Lingqiao-A – 2015-057B  
Lingqiao-B – 2015-057C  
Jilin-1 – 2015-057D  
SB-WASS (USA 264) – 2015-058A  
SB-WASS (USA 264) – 2015-058R  
Aerocube-5C – 2015-058B  
Aerocube-7A – 2015-058C  
Fox-1A – 2015-058D  
BisonSat – 2015-058E  
ARC-1 – 2015-058F

SNaP-3 Alice – 2015-058G  
LMRSTSat – 2015-058H  
SNaP-3 Eddie – 2015-058J  
PropCube-3 – 2015-058K  
SINOD D-1 – 2015-058L  
SNaP-3 Jimi – 2015-058M  
PropCube-1 – 2015-058N  
SINOD D-3 – 2015-058P  
Apstar-9 – 2015-059A  
Turksat-4B – 2015-060A  
Tianhui-1C – 2015-061A  
Navstar GPS IIF-3 – 2015-062A  
Chinasat-2C – 2015-063A  
Yaogan-28 – 2015-064A  
GSAT-15 – 2015-065A  
Badr 7 – 2015-065B  
EKS-1 (Cosmos 2510) – 2015-066A  
LaoSat-1 – 2015-067A  
Telstar-12V – 2015-068A  
Yaogan-29 – 2015-069A  
Chinasat-1C – 2015-073A  
Electro-L2 – 2015-074A  
Garpun-12L (Cosmos 2513) – 2015-075A  
VELOX-C1 – 2015-077A  
Kent Ridge 1 – 2015-077B  
Athenoxat-1 – 2015-077C  
TeLEOS 1 – 2015-077D  
Galassia – 2015-077E  
VELOX II – 2015-077F  
DAMPE – 2015-078A  
Galileo 12 – 2015-079A  
Galileo 11 – 2015-079B  
ORBCOMM FM-114 – 2015-081A  
ORBCOMM FM-119 – 2015-081B  
ORBCOMM FM-105 – 2015-081C  
ORBCOMM FM-110 – 2015-081D  
ORBCOMM FM-118 – 2015-081E  
ORBCOMM FM-112 – 2015-081F  
ORBCOMM FM-113 – 2015-081G  
ORBCOMM FM-115 – 2015-081H  
ORBCOMM FM-108 – 2015-081J  
ORBCOMM FM-117 – 2015-081K  
ORBCOMM FM-116 – 2015-081L  
Express AMU1 – 2015-082A  
Gaofen 4 – 2015-083A

**For the 9-1-15 release:**

This version of the database includes satellites launched through August 31, 2015. Currently, there are 1305 actively operating satellites.

The changes to this version of the database include:

- The addition of 85 satellites
- The return to active status of 8 satellites
- The deletion of 47 satellites
- The addition of and corrections to some satellite data.

**Satellites Removed**

DSCS III-F6 (USA 82) – 1992-037A  
Navstar SVN 26 (USA 83) – 1992-039A  
Navstar SVN 39 (USA 92) – 1993-042A  
Navstar SVN 35 (USA 94) – 1993-054A  
DSCS III-F8 (USA 97) – 1993-074A  
Navstar SVN 36 (USA 100) – 1994-016A  
DMSP F13 (USA 109) – 1995-015A  
Intelsat 706 – 1995-023A  
Gonets D1-1 – 1996-009A  
Gonets D1-2 – 1996-009B  
Navstar SVN 33 (USA 117) – 1996-019A  
Navstar SVN 40 (USA 126) – 1996-041A  
TRMM – 1997-074A  
Iridium 29 – 1997-051A  
Navstar SVN 38 (USA 135) -- 1997-067A  
Eutelsat 16B – 1998-013A  
Eutelsat 48C – 1999-018A  
Iridium 63 – 1998-021B  
Eutelsat 8 West D – 2007-021A  
IKONOS-2 – 1999-051A  
BADR-B – 2001-056C  
Cute-1 (CO 55) – 2003-031E  
Unisat-3 – 2004-025H  
Glonass 712 (Cosmos 2411) – 2004-053B  
Cubesat XI-V (CO-58) – 2005-043F  
AGILE – 2007-013A  
Glonass 722 (Cosmos 2435) – 2007-065B  
Glonass 724 (Cosmos 2442) – 2008-046A  
Glonass 726 (Cosmos 2444) – 2008-046C  
Glonass 727 (Cosmos 2447) – 2008-067A  
Glonass 729 (Cosmos 2449) – 2008-067B

SAC-D – 2011-024A  
EduSAT – 2011-044A  
Kuaizhou-1 – 2013-053A  
Unisat-5 – 2013-066F  
ORS-Tech 1 – 2013-064H  
ORS-Tech 2 – 2013-064S  
CINEMA-2 – 2013-066J  
CINEMA-3 – 2013-066L  
ICube – 2013-066S  
Unisat-6 – 2014-033C  
NanosatC-Brl -- 2014-033Q  
Dove 1b-17 – 1998-067FF  
Dove 1b-2 – 1998-067FB  
Dove 1b-23 – 1998-067EV  
Dove 1b-24 – 1998-067EU  
Dove 1b-8 – 1998-067FC

**Satellites Returned to database:**

Astra 1D -- 1994-070A  
Optus B3 – 1994-055A  
Iridium 46 – 1997-043C  
Apstar 9A – 1998-033A  
ChinaSat 11 – 2013-020A  
ORBCOMM FM-21 – 1998-053A  
Globalstar M028 – 1999-041B  
Kukai – 2009-002G

**Satellites Added for September 1, 2015 Release**

Duchifat-1 – 2014-033M  
GRIFEX – 2015-003D  
Exocube – 2015-003E  
IGS Radar – 2015-004A  
INMARSAT 5-F2 – 2015-005A  
Lotos-S (Cosmos 2503) – 2015-009A  
ABS-3A – 2015-010A  
Eutelsat 115 West B – 2015-010B  
Dove 1b-21 – 1998-067FQ  
Dove 1b-22 – 1998-067FR  
Dove 1d-1 – 1998-067FU  
Dove 1d-2 – 1998-067FV  
Dove 1b-06 – 1998-067FX  
GEARRSAT – 1998-067FZ  
Dove 1b-11 – 1998-067GC  
Dove 1b-12 – 1998-067GD

MMS-1 – 2015-011A  
MMS-2 – 2015-011B  
MMS-3 – 2015-011C  
MMS-4 – 2015-011D  
Express AM-7 – 2015-012A  
Navstar GSP SVN 71 (USA 260) – 2015-013A  
Arirang-3A – 2015-014A  
IGS Optical 5 – 2015-015A  
Galileo FOC-3 – 2015-017A  
Galileo FOC-4 – 2015-017B  
IRNSS-1D – 2015-018A  
Beidou 3I-1S – 2015-019A  
Gonets M-11 – 2015-020A  
Gonets M-12 – 2015-020B  
Gonets M-13 – 2015-020C  
Cosmos 2504 – 2015-020D  
Thor-7 – 2015-022A  
Sicral 2/Syracuse-3C – 2015-022B  
Turkmen Alem 52E – 2015-023A  
X37B-OTV-4 – 2015-025A  
USS Langley – 2015-025B  
ParkinsonSat -1 – 2015-025D  
BRICSat-P – 2015-025E  
GEARRSAT-2 – 2015-025G  
Aerocube-8A – 2015-025J  
Aerocube-8B – 2015-025K  
DirecTV-15 – 2015-026A  
Sky Mexico-1 – 2015-026B  
Kobalt-M (Cosmos 2505) – 2015-027A  
Sentinel 2A – 2015-028A  
Persona-3 (Cosmos 2506) – 2015-029A  
Gaofen-8 – 2015-030A  
DMC 3-1 – 2015-032A  
DMC 3-2 – 2015-032B  
DMC 3-3 – 2015-032C  
CBNT-1 – 2015-032D  
Dove 1b-27 – 1998-067FN  
Dove 1b-21 -1998-067FQ  
Dove 1b-22 – 1998-067FR  
Dove 1b-11 – 1998-067GC  
Dove 1b-12 – 1998-067GD  
Dove 1b-06 – 1998-067FX  
Dove 1d-1 – 2015-067FU  
Dove 1d-2 – 2015-067FV  
Dove 1e-2 – 1998-067GE  
Dove 1e-1 – 1998-067-GF

Dove 1e-4 -- 1998-067GG  
Dove 1e-3 – 1998-067GH  
Dove 1e-7 – 1998-067GJ  
Dove 1e-8 -- 1998-067 GK  
Dove 1e-5 – 1998-067GL  
Dove 1e-6 – 1998-067GM  
Dove 1e-9 – 1998-067GN  
Dove 1e-10 – 1998-067GP  
Dove 1e-11 – 1998-067GQ  
Dove 1e-12 – 1998-067GR  
Dove 1e-13 – 1998-067GS  
Dove 1e-14 – 1998-067GT  
Navstar GPS IIF-10 (USA 262) – 2015-033A  
Star One C-4 – 2015-034A  
Meteosat-11 – 2015-034B  
Wideband Global Satcom 7 (USA 263) – 2015-036A  
Beidou 3M-1S – 2015-037A  
Beidou 3M-2S – 2015-037B  
Intelsat IS-34 – 2015-039A  
Eutelsat 8 West B – 2015-039B  
Yaogan 27 – 2015-040A  
GSAT-6 – 2015-041A  
INMARSAT 5-F3 – 2015-042A

**For the 2-1-15 release:**

This version of the database includes satellites launched through January 31, 2015.  
Currently, there are 1265 actively operating satellites.

The changes to this version of the database include:

- The addition of 79 satellites
- The deletion of 44 satellites
- The addition of and corrections to some satellite data.

We have also added two new columns to the database which we hope will be useful:

- *Country/Organization of UN Registry*. This indicates the country that is registered as responsible for the satellite in the United Nations Register of Space Objects. <http://www.unoosa.org/oosa/en/osoindex.html> As the ownership and operational control of commercial satellites continues to become more complicated and rapidly changing, this column indicates the “launching state” as indicated in the Convention on Objects Launched into Outer Space. [http://www.unoosa.org/oosa/en/SpaceLaw/gares/html/gares\\_29\\_3235.html](http://www.unoosa.org/oosa/en/SpaceLaw/gares/html/gares_29_3235.html)
- *Detailed Purpose*. This column gives a more specific description of the function of the satellite. For example, the column gives more information on satellites with “Earth Observation” as purpose, indicating “Optical Imaging,” “Electronic

Intelligence,” or “Meterology” etc. as the Detailed Purpose. This column is a work in progress and we will continue to add information in future database updates.

### **Satellites Removed**

Intelsat 603 – 1990-021A  
Optus B3 – 1994-055A  
NSS-703 – 1994-064A  
Saxmex-4 – 1994-065A  
Astra 1D – 1994-070A  
WIND – 1994-071A  
Ardusat-1 – 1998-067DA  
Picodragon-1 – 1998-067DB  
Bonum-1 – 1998—068A  
Parus-90 (Cosmos 2361) – 1998-076A  
Parus-91 (Cosmos 2366) – 1999-045A  
ACRIMSat – 1999-070B  
SAC-C – 2000-075B  
XM Rock – 2001-012A  
Parus-92 (Cosmos 2378) – 2001-023A  
Quickbird 2 – 2001-047A  
Parus-93 (Cosmos 2389) – 2002-026A  
Ziyuan 2B – 2002-049A  
IGS-1A – 2003-009A  
Parus-94 (Cosmos 2398) – 2003-023A  
Yamal-201 – 2003-053B  
PARASOL – 2004-049G  
VUSat Oscar 52 – 2005-017B  
Parus-97 (Cosmos 2429) – 2007-038A  
Can-X6 – 2008-021B  
Cute-1.7 + APD II – 2008-021C  
Yaogan-5 – 2008-064A  
RazakSat – 2009-037A  
Parus-98 (Cosmos 2454) – 2009-039A  
Meteor-M – 2009-049A  
AEHF-1 (USA 214) – 2010-039A  
Sich-2 – 2011-044G  
e-st@r – 2012-006C  
XaTcobeo – 2012-006F  
Tiantuo-1 – 2012-021B  
MASAT-1 – 2012-006E  
X37-B OTV-1 (USA 240) – 2012-071A  
Dove 2 – 2013-015C  
Dove 4 – 2013-066U  
Ho'oponopono-2 – 2013-064B  
CAPE-2 – 2013-064AB

CUNYSat-1 – 2013-072J  
ShindaiSat – 2014-009A  
Kobalt M – 2014-025A

Removed three duplications.

### **Satellites Added**

RS-47 (Cosmos 2499) – 2014-028E  
Dove 1C-1 – 2014-033T  
Dove 1C-2 – 2014-033V  
Dove 1C-3 – 2014-033AH  
Dove 1C-4 – 2014-033X  
Dove 1C-5 – 2014-033AE  
Dove 1C-6 – 2014-033AC  
Dove 1C-7 – 2014-033S  
Dove 1C-8 – 2014-033AG  
Dove 1C-9 – 2014-033AB  
Dove 1C-10 – 2014-033N  
Dove 1C-11 – 2014-033Z  
AprizeSat-10 – 2014-033K  
Navstar GPS IIF-07 (USA 256) – 2014-045A  
AsiaSat-8 – 2014-046A  
Yaogan-20A – 2014-047A  
Yaogan-20B – 2014-047B  
Yaogan-20C – 2014-047C  
Worldview-3 – 2014-048A  
Gaofen-2 – 2014-049A  
BRITE-PL2 – 2014-049B  
Dove 1B-2 – 1998-067FB  
Dove 1B-8 – 1998-067FC  
Dove 1B-17 – 1998-067FF  
Dove 1B-23 – 1998-067EV  
Dove 1B-24 – 1998-067EU  
Galileo-5 – 2014-050A  
Galileo-6 – 2014-050B  
Ling Qiao – 2014-051A  
Chuangxin 1-04 – 2014-051B  
AsiaSat-6 – 2014-052A  
Yaogan 21 – 2014-053A  
Tiantuo-2 – 2014-053B  
Optus 10 – 2014-054A  
Measat 3B – 2014-054B  
Clio (USA 257) – 2014-055A  
Luch/Olympus – 2014-058A  
Shijian 11-07 – 2014-059A  
Himawari 8 – 2014-060A  
IRNSS 1C – 2014-061A



Intelsat 30/DLA 1 – 2014-062A  
ArSat 1 – 2014-062B  
Yaogan-22 – 2014-063A  
Express AM-6 – 2014-064A  
Shijian 11-08 – 2014-066A  
Navstar GPS IIF-08 (USA 258) – 2014-068A  
Meridian 7 – 2014-069A  
ASNARO-1 – 2014-070A  
Hodoyoshi 1 – 2014-070B  
ChubuSat 1 – 2014-070C  
Qsat-EOS – 2014-070D  
TSUBAME – 2014-070E  
Yaogan-23 – 2014-071A  
Yaogan-24 – 2014-072A  
Kuaizhou 2 – 2014-073A  
SpinSat – 1998-067FL  
Glonass-702 (Cosmos 2502) – 2014-075A  
GSat-16 – 2014-078A  
DirecTV-14 – 2014-078B  
CBERS-4 – 2014-079A  
Yaogan 25A – 2014-080A  
Yaogan 25B – 2014-080B  
Yaogan 25C – 2014-080C  
Improved Trumpet 5 (USA 259, NROL-35) – 2014-081A  
Yamal-401 – 2014-082A  
O3b FM10 – 2014-083A  
O3b FM11 – 2014-083B  
O3bFM12 – 2014-083C  
O3bFM9 – 2014-083D  
Condor-E 2 – 2014-084A  
Lotos S1 – 2014-086A  
Resurs-P2 – 2014-087A  
Yaogan-26 – 2014-088A  
Astra 2G – 2014-089A  
Fengyun 2G – 2014-090A  
MUOS 3 – 2015-002A  
SMAP – 2015-003A  
Firebird-C – 2015-003B  
Firebird-D – 2015-003C

Returned to database:

INMARSAT 3 F-3 – 1996-070A  
CSSWE – 2012-048D

**For the 8-1-14 release:**

This version of the database includes satellites launched through July 31, 2014. Currently, there are 1235 actively operating satellites.

The changes to this version of the database include:

- The addition of 89 satellites
- The deletion of 21 satellites
- The addition of and corrections to some satellite data.

**Satellites Removed**

Africasat-1 – 1996-002B  
Orbcomm-FM22 – 1998-053B – on-orbit failure  
Orbcomm FM25 – 1998-053E – on-orbit failure  
Galaxy-26 – 1999-005A  
Globalstar MO25 – 1999-031A  
Globalstar MO47 – 1999-031C  
NOAA-16 – 2000-055A – decommissioned  
SDS III-2 (USA 155) – 2000-080A  
SDS III-3 (USA 162) – 2001-046A  
Technology Experiment Satellite (TES) – 2001-049A  
INSAT-3E – 2003-043E – decommissioned after on-orbit failure  
Topsat – 2005-043B  
Haiyang-1B – 2007-010A  
IMS-1 – 2008-021D  
US-KS Oko 90 (Cosmos 2469) – 2010-049A – on-orbit failure  
US-KMO Oko 8 (Cosmos 2479) – 2012-012A – on-orbit failure  
KYSat – 2013-064AA  
Triton 1 – 2013-066M – on-orbit failure  
DELFI-N3XT – 2013-066N – on-orbit failure  
Velox P-2 – 2013-066Y – on-orbit failure  
MCubed-2 – 2013-072H – on-orbit failure

**Satellites Added**

ABS-2 – 2014-006A  
Athena-Fidus (Access on THEatres for European Nations)  
Allied forces - French Italian Dual Use Satellite) – 2014-006B  
Turksat 4A – 2014-007A  
Navstar GPS II-F5 – 2014-008A  
ShindaiSat -- 2014-009A  
GPM (Global Precipitation Measurement) – 2014-009C  
Express-AT 1 – 2014-010A  
Express-AT 2 – 2014-010B  
Amazonas 4A – 2014-011A  
Astra 5B – 2014-011B  
Glonass 754 – 2014-012A  
Shijian 11-06 – 2014-014A

DMSP 5D-3 F19 – 2014-015A  
Sentinel 1A – 2014-016A  
IRNSS-1B – 2014-017A  
Ofeq-10 – 2014-019A  
NROL-67 (USA 250) – 2014-020A  
Egypsat 2 – 2014-021A  
Luch 5V – 2014-023A  
Kazsat-3 – 2014-023B  
KazEOSat 1 – 2014-024A  
Kobalt-M (Cosmos 2495) – 2014-025A  
Navstar GPS IIF-6 (USA 251) – 2014-026A  
NROL-33 (USA 252) – 2014-027A  
Rodnik (Cosmos 2496) – 2014-028A  
Rodnik (Cosmos 2497) – 2014-028B  
Rodnik (Cosmos 2498) – 2014-028C  
Daichi-2 – 2014-029A  
UNIFORM-1 – 2014-029B  
Socrates – 2014-029C  
Rising 2 -- 2014-029D  
SPROUT – 2014-029E  
Eutelsat-3B – 2014-030A  
Glonass 755 – 2014-032A  
KazEOSat 2 -- 2014-033A  
Hodoyoshi-4 – 2014-033B  
Unisat-6 – 2014-033C  
Deimos 2 – 2014-033D  
Bugsat-1 – 2014-033E  
Hodoyoshi-3 – 2014-033F  
Saudisat-4 – 2014-033G  
Aurora – 2014-033H  
Aprizesat-9 – 2014-033J  
Aprizesat-10 – 2014-033K  
BRITE-Toronto – 2014-033L  
NanosatC-Br1 – 2014-033Q  
QB50p1 – 2014-033R  
Popsat-HIP – 2014-033U  
QB50p2 – 2014-033Y  
ANTELSat – 2014-033AA  
Perseus-M 2 -- 2014-033AD  
Perseus-M1 – 2014-033AF  
PolyITAN-1 – 2014-033AJ  
TIGRISat – 2014-033AK  
Lemur-1 – 2014-033AL  
Aerocube-6A – 2014-033AM  
Aerocube-6B – 2014-033AN  
Spot 7 – 2014-034A

AISat – 2014-034B  
CanX-4 – 2014-034C  
CanX-5 – 2014-034D  
Velox 1 – 2014-034E  
OCO-2 – 2014-035A  
Gonets M18 – 2014-036A  
Gonets M19 – 2014-036B  
Gonets M20 – 2014-036C  
Meteor M-2 – 2014-037A  
Relek – 2014-037B  
DX-1 – 2014-037C  
SkySat 2 – 2014-037D  
TechDemoSat-1 – 2014-037E  
UKube 1 – 2014-037F  
AISSat-2 – 2014-037G  
TechDemoSat-1 – 2014-037E  
O3b FM03 -- 2014-038A  
O3b FM06 – 2014-038B  
O3b FM07 – 2014-038C  
O3b FM08 – 2014-038D  
ORBCOMM OG2 FM-109 – 2014-040A  
ORBCOMM OG2 FM-107 – 2014-040B  
ORBCOMM OG2 FM-106 – 2014-040C  
ORBCOMM OG2 FM-111 – 2014-040D  
ORBCOMM OG2 FM-104 – 2014-040E  
ORBCOMM OG2 FM-103 – 2014-040F  
Photon M4 – 2014-041A  
GSSAP -1 (USA 253) – 2014-043A  
GSSAP-2 (USA 254) – 2014-043B  
Angels – (USA 255) -- 2014-043C

**For the 2-1-14 release:**

This version of the database includes satellites launched through January 31, 2014. Currently, there are 1167 actively operating satellites.

The changes to this version of the database include:

- The addition of 94 satellites
- The deletion of 15 satellites
- The return of 3 satellites to active status
- The addition of and corrections to some satellite data.

**Satellites Removed**

Navstar GPS II-13 – 1993-054A  
Intelsat 801 – 1997-009A

ST-1 – 1998-049A  
Eutelsat 4B – 1998-057A  
Globalstar M045 – 1999-019A  
Fengyun 1D – 2002-024B  
Molniya 1-92 – 2003-011A  
BSAT-2C – 2003-028A  
Molniya 3-53 – 2003-029A  
Express-AM1 – 2004-043A  
Glonass-728 – 2008-067C  
GOCE – 2009-013A  
STARE-A – 2012-048H  
AeroCube-4 – 2012-048M  
Turksat3USAT -- 2013-018C

### **Satellites Added**

In November and December of 2013 more than 60 picosats and cubesats were carried as secondary payloads on launches from Wallops Island, Dombrovsky (Yasny) Cosmodrome, and Vandenberg Air Force Base. Those that have been identified and determined to be operational have been added to the database. The identification of these small satellites has proven to be difficult, and further correction may be necessary.

Yaogan-17A -- 2013-046A  
Yaogan-17B – 2013-046B  
Yaogan-17C – 2013-046C  
Gonets M-14 – 2013-048A  
Gonets M-16 – 2013-048B  
Gonets M-17 – 2013-048C  
Hisaki (Sprint-A) – 2013-049A  
AEHF-3 (USA 246) – 2013-050A  
Fengyun 3C – 2013-052A  
Kuaizhou-1 – 2013-053A  
Cassiope – 2013-055A  
CUSat-1 – 2013-055B  
DANDE – 2013-055C  
Astra 2E -- 2013-056A  
Shijian 16 -- 2013-057A  
Sirius FM-6 -- 2013-058A  
Yaogan 18 -- 2013-059A  
Raduga-1M --2013-062A  
Ardusat-1 – 1998-067DA  
PicoDragon – 1998-067DB  
STPSat 3 -- 2013-064A  
Prometheus 1A – 2013-064H  
Prometheus 1B – 2013-064E  
Prometheus 2A – 2013-064K  
Prometheus 2B – 2013-064L

Prometheus 3A – 2013-064M  
Prometheus 3B – 2013-064F  
Prometheus 4A – 2013-064P  
Prometheus 4B – 2013-064Q  
ORSES – 2013-064C  
ORS Tech 1 – 2013-064D  
ORS Tech 2 – 2013-064S  
KySat-2 – 2013-064AA  
Firefly – 2013-064R  
NPS-SCAT – 2013-064AE  
Phonesat 2.4 – 2013-064W  
CAPE-2 – 2013-064AB  
Vermont Lunar Cubesat – 2013-064AD  
STARE-B – 2013-064G  
Yaogan 19 -- 2013-065A  
Aprizesat-7 – 2013-066A  
ZACube-1 -- 2013-066B  
SkySat-1 – 2013-066C  
DubaiSat-2 – 2013-066D  
OPTOS – 2013-066E  
Unisat-5 – 2013-066F  
STSat-3 – 2013-066G  
WNISat-1 – 2013-066H  
Aprizesat-8 – 2013-066K  
FunCube (AO-73) – 2013-066AE  
CINEMA-2 – 2013-066J  
CINEMA-3 – 2013-066L  
Triton-1 – 2013-066M  
Delfi-n3Xt – 2013-066N  
Dove-3 – 2013-066P  
GATOSS – 2013-066Q  
BRITE-PL-1 – 2013-066R  
ICube – 2013-066S  
HumSat-D – 2013-066T  
Dove-4 – 2013-066U  
Wren – 2013-066V  
Eagle 2 – 2013-066W  
Velox P-2 – 2013-066Y  
CubeBug-2 – 2013-066AA  
PUCPSat-1 – 2013-066AC  
UWE-3 – 2013-066AG  
SWARM A – 2013-067A  
SWARM B – 2013-067B  
SWARM C – 2013-067C  
Shiyan-5 – 2013-068A  
SES-8 – 2013-071A

FIA Radar 3 (USA 247) – 2013-072A  
Firebird-A – 2013-072B  
Firebird-B – 2013-072C  
AeroCube 5A – 2013-072D  
AeroCube 5B – 2013-072E  
ALiCE – 2013-072F  
SNaP-3-1 -0 2013-072G  
MCubed-2 – 2013-072H  
CUNYSAT-1 – 2013-072J  
IPEX – 2013-072K  
SMDC ONE-2.4 – 2013-072L  
SMDC ONE-2.3 – 2013-072N  
Tacsat-6 – 2013-072M  
Inmarsat 5-F1 – 2013-073A  
TKSat-1 – 2013-075A  
Rodnik (Cosmos 2488) – 2013-076A  
Rodnik (Cosmos 2489) – 2013-076B  
Rodnik (Cosmos 2490) – 2013-076C  
Ekspress AM-5 – 2013-077A  
Aist-1 – 2013-078A  
GSAT-14 – 2014-001A  
Thaicom-6 – 2014-002A  
TDRS-12 – 2013-004A

The following satellites were returned to the database. After the announcement of retirement from service, the decision was made to use them for short-term end-of-life leases:

Arabsat 7F (Nimiq 1) – 1999-027A  
DirecTV-1R – 1999-056A  
MBSAT – 2004-007A

### **For the 9-1-13 release:**

This version of the database includes satellites launched through August 31, 2013. Currently, there are 1084 actively operating satellites.

The changes to this version of the database include:

- The addition of 24 satellites
- The deletion of 11 satellites
- The addition of and corrections to some satellite data.

### **Satellites Removed**

Radarsat-1 – 1995-059A (failed on orbit 3/13)  
Arabsat-2B – 1996-063A  
Chinasat-5A – 1998-033A

Sinosat-1 – 1998-044A  
Nimiq-1 – 1999-027A  
GOES-12 (GOES-M) – 2001-031A (retired 8/13)  
Jason 1 – 2001-055A (failed on orbit 7/13)  
GALEX – 2003-017A (decommissioned 6/13)  
CoRoT – 2006-063A (decommissioned 6/13)  
Raduga-1M1 – 2007-058A (disposal orbit 6/13)  
Express-MD1 – 2009-007B (failed on orbit 7/13)

### **Satellites Added**

STRaND-1 – 2013-009E (had shut down in March, 2013 and became active again in July, 2013)  
SES 6 -- 2013-026A  
Persona-2 – 2013-028A  
Resurs-P1 – 2013-030A  
O3b FM5 – 2013-031A  
O3b FM4 – 2013-031B  
O3b FM2 – 2013-031C  
O3b PFM – 2013-031D  
Kondor – 2013-032A  
Iris – 2013-033A  
IRNSS-1A -- 2013-034A  
Shijian 11-05 – 2013-035A  
MUOS-2 – 2013-036A  
Shiyan 7 – 2013-037B  
Chuangxin 3 – 2013-037C  
Shijian-15 – 2013-037A  
Alphasat I-XL (Inmarsat IV-A F4) – 2013-038A  
Insat-3D – 2013-038B  
Wideband Global SATCOM 6 (USA 244) – 2013-041A  
Kompsat 5 – 2013-042A  
Keyhole 7 (USA 245) – 2013-043A  
Eutelsat 25B – 2013-044A  
GSAT-7 – 2013-044B  
Amos-4 – 2013-045A

### **For the 6-1-13 release:**

This version of the database includes satellites launched through May 31, 2013.  
Currently, there are 1071 actively operating satellites.

The changes to this version of the database include:

- The addition of 46 satellites
- The deletion of 19 satellites
- The addition of and corrections to some satellite data.



### **Satellites Removed**

INMARSAT 2-F1 – 1990-093A – decommissioned (22.5 years)  
Intelsat 709 – 1996-035A (decommissioned 16 years)  
Gonets-D1-4 – 1997-006D – failed in orbit  
Gonets-D1-5 – 1997-006E – failed in orbit  
Gonets-D1-6 – 1997-006F – failed in orbit  
Thor-2 – 1997-025A – decommissioned (15 years)  
Cakrawatra 1—1997-071B decommissioned (15 years)  
Nilesat-101 – 1998-024A – decommissioned (14 years)  
Beidou-1B – 2000-082A – decommissioned  
GeoLite (USA 158) – 2001-020A – end of mission  
Gonets-D1-7 – 2001-058D – failed in orbit  
Gonets-D1-9 – 2001-058F – failed in orbit  
NOAA-17 (NOAA-M) – 2002-023A -- decommissioned (11 years)  
Beidou-3 – 2003-021A – decommissioned  
Compass-G2 -- 2009-018A  
RAX-2 – 2011-061D – failed on orbit  
CXBN – 2012-048A – failed in orbit  
CSSWE – 2012-048D – failed in orbit  
CP-5 – 2012-048F – failed in orbit

### **Satellites Added**

Pléiades 1B – 2012-068A  
Eutelsat-70B – 2012-069A  
Yamal 402 – 2012-070A  
X37-B/OTV-1 (USA 240) -- 2012-071A  
On December 12, 2012 North Korea launched Kwangmyongsong-3 – 2012-072A – a 100 kg technology demonstration satellite. While it did achieve orbit, a signal has never been picked up and it is tumbling out of control. It is not believed to be operational.

Göktürk 2 -- 2012-073A  
Skynet 5D – 2012-075A  
MexSat 3 -- 2012-075B  
Rodnik-15 (Cosmos 2482) – 2013-001A  
Rodnik-17 (Cosmos 2484) – 2013-001C  
IGS 8A (IGS Radar 4) – 2013-002A  
IGS 8B (IGS Optical Demonstrator) -- 2013-002B  
STSat-2C – 2013-003A  
TDRS-K – 2013-004A  
Globalstar M097 – 2013-005A  
Globalstar M093 – 2013-005B  
Globalstar M094 – 2013-005C  
Globalstar M096 – 2013-005D  
Globalstar M078 – 2013-005E  
Globalstar M095 – 2013-005F  
Amazonas-3 – 2013-006A

Azerspace/Africasat.1a – 2013-006B  
Landsat-8 – 2013-008A  
SARAL – 2013-009A  
AAUSat-3 – 2013-009B  
Sapphire – 2013-009C  
NEOSSat – 2013-009D  
TUGSat-1 – 2013-009F  
CanX-3a (BRITE) – 2013-009G  
SBIRS GEO 2 (USA 241) – 2013-011A  
Satmex-8 – 2013-012A  
Anik G1 – 2013-014A  
Dove-2 – 2013-015C  
AIST-2 – 2013-015D  
BeeSat-3 – 2013-015E  
BeeSat-2 – 2013-015G  
Gaofen-1 – 2013-018A  
Turksat-3USAT – 2013-018C  
Cubebug-1 – 2013-018D  
Glonass 747 (Cosmos 2485) – 2013-019A  
Zhongxing-11 (Chinasat 11) – 2013-020A  
Proba V – 2013-021A  
VNREDSat 1A – 2013-021B  
EstCube-1 2013-021C  
Eutelsat-3D – 2013-022A  
Navstar GPS IIF-4 (USA 242) – 2013-023A  
Wideband Global Satcom 5 (USA 243) – 2013-024A

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### **For the 12-1-12 release:**

This version of the database includes satellites launched through November 30, 2012.

The changes to this version of the database include:

- The addition of 52 satellites
- The deletion of 22 satellites
- The update of orbital information for most satellites in LEO
- The addition of and corrections to some satellite data.

The 52 added satellites include several which have been returned to the database because of updated information or a return to active status by current or new owners.

### **Satellites Removed**

Landsat 5 – 1984-021A  
Intelsat 602 – 1989-087A  
Navstar GPS II-15 – 1992-058A

Helios 1A – 1995-033A  
Paksat-1 – 1996-006A  
Intelsat 24/Amos 1 – 1996-030B  
Iridium 4 – 1997—020E  
Orbview-2 – 1997-037A  
Eutelsat W75 – 1997-049A  
Spot-4 – 1998-017A  
Orbcomm FM24 – 1998-053D  
Globalstar M038 – 1999-004D  
Globalstar M026 – 1999-041A  
Eurobird 4A – 2000-052A  
MIMOSA – 2003-031B  
Glonass 718 (Cosmos 2431) – 2007-052C  
Anusat – 2009-019B  
Hawksat-1 – 2009-028D  
RAX (Radio Aurora Explorer, USA 218) – 2010-062B  
Falconsat-5 (USA 221) – 2010-062E  
PW-Sat – 2012-006G  
Kobalt M (Kosmos 2480) – 2012-024A

#### **Satellites Added**

RAX-2 – 2011-061D  
e-st@r – 2012-006C  
Intelsat-20 – 2012-043A  
Intelsat-21 – 2012-045A  
Van Allen Probe A – 2012-046A  
Van Allen Probe B – 2012-046B  
Spot 6 – 2012-047A  
SB-WASS 3-6 (USA 238) (2) – 2012-048A  
SMDC-ONE 1.2 – 2012-048B  
Aeneas – 2012-048C  
CSSWE – 2012-048D  
CXBN – 2012-048E  
CP5 – 2012-048F  
CINEMA – 2012-048G  
RE – 2012-048H  
SMDC-ONE 1.1 – 2012-048J  
Aerocube 4.5A – 2012-048K  
Aerocube 4.5B – 2012-048L  
Aerocube 4 – 2012-048M  
MetOp B – 2012-049A  
Beidou 2-14 – 2012-050A  
Beidou 2-15 – 2012-050B  
Astra 2F – 2012-051A  
GSat-10 – 2012-051B

VRSS 1 – 2012-052A  
Navstar GPS IIF-03 (USA 239) – 2012-053A  
Galileo IOV-2FM 3 – 2012-055A  
Galileo IOV-2 FM4 – 2012-055B  
Shijian 9A – 2012-056A  
Shijian 9B – 2012-056B  
Intelsat 23 – 2012-057A  
Beidou 2-16 – 2012-059A  
Luch 5B – 2012-061A  
Yamal 300K – 2012-061B  
Star One C3 – 2012-062A  
Eutelsat 21B – 2012-062B  
Meridian 6 – 2012-063A  
Huan Jing 1C – 2012-064A  
Fengniao 1 & 1A – 2012-064B (joined pair)  
Xinyan 1 – 2012-064C  
Echostar 16 – 2012-065A  
Yaogan 16A – 2012-066A  
Yaogan 16B – 2012-066B  
Yaogan 16C – 2012-066C  
Zhongxing 12 – 2012-067A

In addition to these launches, these satellites were returned to active status:

Navstar GPS II-13 – 1993-054A – returned to constellation  
Inmarsat 2-F1 – 1990-093A  
Intelsat 702 – 1994-034A  
Intelsat 706 – 1995-023A  
DirecTV-1R – 1999-056A  
Eutelsat 28B – 2008-065B  
Chinasat 10 – 2011-026A

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### **For August 1, 2012 release**

This version of the database includes satellites launched through July 31, 2012.

The changes to this version of the database include:

- The addition of 36 satellites
- The deletion of 16 satellites
- The addition of and corrections to some satellite data.

### **Satellites Added for August 1, 2012 Release**

FIA Radar 2 (USA 234) – 2012-014A  
Yahsat 1B – 2012-016A

RISat-1 – 2012-017A  
Compass M3 – 2012-018A  
Compass M4 – 2012-018B  
AEHF-2 (USA 235) – 2012-019A  
Tianhui 1-02 – 2012-020A  
Yaogan 14 – 2012-021A  
Tiantuo 1 – 2012-021B  
JCSat 13 – 2012-023A  
Vinasat 2 – 2012-023B  
Kobalt-M (Cosmos 2480) – 2012-024A  
GCOM-W1 – 2012-025A  
Kompsat-3 – 2012-025B  
SDS-4 – 2012-025C  
Horyu-2 – 2012-025D  
Nimiq 6 – 2012-026A  
Zhongxing 2A – 2012-028A  
Yaogan-15 – 2012-029A  
Intelsat 19 – 2012-030A  
NuSTAR – 2012-031A  
SDS III-7 (USA 236) – 2012-033A  
Advanced Orion 6 (USA 237) – 2012-034A  
Echostar 17 – 2012-035A  
Meteosat-10 – 2012-035B  
SES-5 – 2012-036A  
Canopus-B – 2012-039A  
BKA – 2012-039B  
exactView-1 – 2012-039C  
TET-1 – 2012-039D  
MKA-FKI-1 – 2012-039E  
Tianlian 1-03 – 2012-040A  
Rodnik 14 – 2012-041A  
Gonets-13 – 2012-041B  
MiR – 2012-041C  
Gonets-15 – 2012-041D

#### **Satellites Removed for August 1, 2012 Release**

INMARSAT 2F2 – 1991-018A  
INMARSAT 2F4 – 1992-021B  
Brasilsat B2 – 1995-016A  
Advanced Orion 1 (USA 110) – 1995-022A  
SDS III-1 – 1998-005A  
DirecTV-1R – 1999-056A  
GOES-11 – 2000-022A  
BSAT-2A – 2001-011B  
ICO-F2 – 2001-026A

Nigeriasat-1 – 2003-042C  
MBSat-1 – 2004-007A  
Estrela do Sol 1/Telstar 14 – 2004-001A  
GIOVE-A – 2005-051A  
MiTEX (USA 188) – 2006-024B  
GIOVE-B – 2008-020A  
X37B – 2011-010A

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### **For April 1, 2012 release**

This version of the database includes satellites launched through April 1, 2012.

The changes to this version of the database include:

- The addition of 13 satellites
- The deletion of 8 satellites
- The addition of and corrections to some satellite data.

### **Satellites Added**

Ziyuan 3 (ZY-3) – 2012-001A  
Vesselsat-2 – 2012-001B  
Fengyun 2F – 2012-002A  
Wideband Global Satcom 4 (USA 233) – 2012-003A  
MaSat 1 (Magyar Satellite/OSCAR 72) - 2012-006H  
Xatcobeo – 2012-006F  
PW-Sat – 2012-006G  
SES-4 – 2012-007A  
Beidou – 2012-008A  
MUOS-1 – 2012-009A  
Intelsat 22 – 2012-011A  
US-KMO Oko 8 (Cosmos 2479) – 2012-012A  
Apstar 7 – 2012-013A

(Note that some small satellites, including Iran's Navid satellite, that were launched during this quarter re-entered on or before April 1, and so do not appear in the database.)

### **Satellites Removed**

TDRS-4 – 1989-021B  
X-Ray Timing Explorer – 1995-074A  
Envisat\* -- 2002-009A  
Fengyun 2C – 2004-042A  
Akari – 2006-005A  
Compass 1 – 2008-021E  
TacSat 3 – 2009-028A

SumbandilaSat – 2009-049F

\*On May 9, 2012 the European Space Agency (ESA) announced the end of mission for Envisat. The Agency lost contact with the satellite on April 8, and despite rigorous attempts to re-establish contact and the investigation of failure scenarios, was unable to reestablish contact.

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### **For January 1, 2012 release**

This version of the database includes satellites launched through December 31, 2011.

The changes to this version of the database include:

- The addition (or re-addition) of 53 satellites
- The deletion of 33 satellites
- The addition of and corrections to some satellite data.

### **Satellites Added**

Chinasat 1A – 2011-047A  
Garpun-1 (Cosmos 2473) – 2011-048A  
SES-2 -- 2011-049A  
Arabsat-5C -- 2011-049B  
IGS-Optical 4 – 2011-050A  
Atlantic Bird 7 – 2011-051A  
TacSat-4 – 2011-052A  
Tiangong-1 – 2011-053A  
QuetzSat-1 – 2011-054A  
Glonass 742 (Cosmos 2474) – 2011-055A  
Intelsat 18 – 2011-056A  
Eutelsat W3C – 2011-057A  
Megha-Tropiques – 2011-058A  
Jugnu – 2011-058B  
Vesselsat-1 – 2011-058C  
SRMSat – 2011-058D  
Viasat-1 – 2011-059A  
Galileo IOV-1 PFM – 2011-060A  
Galileo IOV-1 FM2 – 2011-060B  
NPP – 2011-061A  
Glonass-743 (Cosmos 2476) – 2011-064A  
Glonass 744 (Cosmos 2477) – 2011-064B  
Glonass 745 (Cosmos 2475) – 2011-064C  
Tian Xun-1 – 2011-066A  
Yaogan-12 – 2011-066B  
Chuangxin 3 – 2011-068A  
Shiyan-4 – 2011-068B  
AsiaSat-7 – 2011-069A

Glonass 746 (Cosmos 2478) – 2011-071A  
Yaogan-13 – 2011-072A  
Compass-G10 -- 2011-073A  
Amos 5 – 2011-074A  
Luch-5A – 2011-074B  
IGS-7A – 2011-075A  
ELISA-W23 – 2011-076A  
ELISA- E12 – 2011-076B  
ELISA-24 – 2011-076C  
ELISA-11 – 2011-076D  
SSOT – 2011-076E  
Pléiades HR1 – 2011-076F  
NigComSat-1R – 2011-077A  
Ziyuan-1-2C – 2011-079A  
Globalstar 2-13 MO84 – 2011-080A  
Globalstar 2-14 MO80 – 2011-080B  
Globalstar 2-15 MO82 – 2011-080C  
Globalstar 2-16 MO92 – 2011-080D  
Globalstar 2-17 MO90 – 2011-080E  
Globalstar 2-18 MO86 – 2011-080F

#### **Satellites Returned to Database Based on New Information**

Measat-2 – 1996-063B  
SCD-1 – 1993-009B  
Iridium 51 – 1998-018A  
Orbcomm FM-31  
Orbcomm FM-32

#### **Notes:**

Measat-2 – 1996-063B [Kuala Lumpur, 18 September 2011 – MEASAT Satellite Systems Sdn. Bhd. (“MEASAT”) announced today that MEASAT-2 had been successfully brought back into operational service at 148°E.

SCD-1 – 1993-009B: Although functioning on a very limited level, this satellite is still gathering data.

#### **Satellites Removed from Database for January 1, 2012 Release**

FLTSATCOM-7 (USA 20) – 1986-096A  
INMARSAT 2F1 – 1990-093A  
GPS Navstar II-11 SVN-24 (USA 71) – 1991-047A  
Intelsat 601 – 1991-075A  
Asiasat-2 – 1995-064A  
Iridium 26 – 1997-043A  
IRS-1D – 1997-057A  
Sirius 3 – 1998-056B



INSAT 3B – 2000-016B  
Geizer 11 (Cosmos 2371) – 2000-036A  
Ekran-M1 – 2001-014A  
STSat-1 – 2003-042G  
Naxing-1 – 2004-012B  
ChinaSat-20 – 2003-052A  
DEMETER – 2004-025C  
Double Star-2 – 2004-029A  
GSAT-3 – 2004-036A  
ESSAIM-1 – 2004-049C  
ESSAIM-2 – 2004-049D  
ESSAIM-3 – 2004-049E  
ESSAIM-4 – 2004-049F  
Gonets D1M – 2005-048A  
COSMIC-C – 2006-011C  
MIDstar-1 – 2007-006B  
IGS-4B – 2007-005B  
Egypsat-1 – 2007-012A  
Koronas-Foton – 2009-003A  
Sterkh-1 – 2009-039B  
Sterkh-2 – 2009-049B  
Tatiana-2 – 2009-049D  
Ugatusat – 2009-049E  
SERVIS – 2010-023A  
Kobalt-M (Cosmos 2472) – 2011-028A

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### **For September 1, 2011 release**

This version of the database includes satellites launched through August 31, 2011.

The changes to this version of the database include:

- The addition of 35 satellites
- The deletion of 26 satellites
- The addition of and corrections to some satellite data.

There is unusually large number of deletions in this update. We were recently able to confirm that 19 Globalstar satellites are being moved or have been moved to disposal orbits.

### **Satellites Added**

Meridian 4 – 2011-018A  
SBIRS GEO 1 (USA 230) – 2011-019A  
Telstar 14R – 2011-021A  
GSAT 8 – 2011-022A  
ST 2 – 2011-022B  
SAC-D – 2011-024A

Chinasat 10 – 2011-026A  
Kobalt-M (Cosmos 2472) – 2011-028A  
ORS 1 (USA 231) – 2011-029A  
Shijian 11-03 – 2011-030A  
TianLian I-02 – 2011-032A  
Globalstar M081 – 2011-033E  
Globalstar M083 – 2011-033A  
Globalstar M085 – 2011-033D  
Globalstar M088 – 2011-033B  
Globalstar M089 – 2011-033F  
Globalstar M091 – 2011-033C  
GSAT 12 – 2011-034A  
SES 3 – 2011-035A  
Kazsat 2 – 2011-035B  
Navstar GPS IIF-2 (USA 232) – 2011-036A  
Spektr-R/RadioAstron – 2011-037A  
Compass IG4 – 2011-038A  
Shijian 11-02 – 2011-039A  
Astra 1N – 2011-041A  
BSAT 3c/JCSat 110-R – 2011-041B  
PakSat-1R – 2011-042A  
HaiYang 2A – 2011-043A  
EduSAT – 2011-044A  
NigeriaSat 2 – 2011-044B  
NigeriaSat-X – 2011-044C  
RASAT – 2011-044D  
AprizeSat-5 – 2011-044E  
AprizeSat-6 – 2011-044F  
Sich-2 – 2011-044G

#### **Satellites Removed**

Intelsat 705 – 1995-013A  
ERS-2 – 1995-021A  
Intelsat-3R – 1996-002A  
GPS-30 (USA 128) – 1996-056A  
Echostar 4 – 1998-028A  
Globalstar M003 – 1998-003D  
Globalstar M008 – 1998-023D  
Globalstar M036 – 1999-004C  
Globalstar M022 – 1999-012A  
Globalstar M041 – 1999-012B  
Globalstar M046 – 1999-012C  
Globalstar M019 – 1999-019B  
Globalstar M044 – 1999-019C  
Globalstar M042 – 1999-019D  
Globalstar M043 – 1999-041C

Globalstar M024 – 1999-043A  
Globalstar M053 – 1999-043D  
Globalstar M058 – 1999-049A  
Globalstar M050 – 1999-049B  
Globalstar M055 – 1999-049D  
Globalstar M057 – 1999-058A  
Globalstar M034 – 1999-062B  
Globalstar M062 – 2000-008B  
Globalstar M060 – 2000-008C  
GPS-49 (USA 203) – 2009-014A  
WISE – 2009-071A

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### **Satellites Added and Deleted for May 1, 2011 release**

This version of the database includes satellites launched through April 30, 2011.

The changes to this version of the database include:

- The addition of 12 satellites
- The deletion of 5 satellites
- The addition of and corrections to some satellite data.

### **Satellites Added**

Rapid Pathfinder Program (USA 225) – 2011-006A  
Glonass 701 (Cosmos 2471) – 2011-009A  
X-37B Orbital Test Vehicle-2 (USA 226) – 2011-010A  
SDS III-6 (USA 227) – 2011-011A  
Compass G-8 (Beidou IGSO-3) – 2011-013A  
SB-WASS 3-5 (USA 229) – 2011-014A  
SB-WASS 3-5 (USA 229) – 2011-014B  
Resourcesat 2 – 2011-015A  
YouthSat – 2011-015B  
X-Sat – 2011-015C  
Intelsat New Dawn – 2011-016A  
Yahsat 1A – 2011-016B

Additionally, Galaxy 15 was returned to the database after its jaunt through space.

### **Satellites Removed**

Satcom-C3 – 1992-060B  
Meteosat-6 -- 1993-073B  
Nahuel 1 – 1997-002B  
ALOS (Daichi) -- 2006-002A  
Insat-4CR – 2007-037A

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## **Satellites Added and Deleted for February 1, 2011 release**

This version of the database includes satellites launched through January 31, 2011.

The changes to this version of the database include:

- The addition of 19 satellites
- The deletion of 18 satellites
- The addition of and corrections to some satellite data. We undertook a thorough look to make sure the NORAD numbers and satellite names still correctly corresponded, since some satellites get renamed after launch and some confusion can result during multiple launches and in constellations. A number of changes were made to the COSMOS/GLONASS satellites, the GLOBALSTAR satellites, the GONETS and STRELA series. More variations were added to the “Additional names” column in a number of cases.

### **Satellites Added**

(December 2010 saw the launch of numerous nanosats/cubesats: Perseus 0-3, QBX1-2, Mayflower, SMDC ONE, Dragon C1. These satellites had all deorbited by the time of this release.)

Meridian 3 – 2010-058A  
Fengyun 3B – 2010-059A  
Skymed 4 – 2010-060A  
SkyTerra 1 – 2010-061A  
STPSAT 2 (USA 217) – 2010-062A  
RAX (USA 218) – 2010-062B  
O/OREOS (USA 219) – 2010-062C  
FalconSat 5 (USA 221) – 2010-062E  
FAST 1 (USA 222) – 2010-062F  
USA 223 – 2010-063A  
Zhongxing 20A – 2010-064A  
HYLAS 1 – 2010-065A  
Intelsat 17 – 2010-065B  
Compass Beidou IGSO 2 – 2010-068A  
KA-SAT – 2010-069A  
Hispasat 1E – 2010-070A  
Koreasat 6 – 2010-070B  
Electro-L1 – 2011-001A  
USA 224 (NRO L49) – 2011-002A

### **Satellites Removed**

Intelsat-2 – 1994-040A  
Oceansat-1 (IPS P4) – 1999-029C  
Globalstar M49 – 1999-031B  
QuikSCAT – 1999-034A  
Globalstar M51 – 1999-037D  
Globalstar M48 – 1999-0411D  
MTI (Multispectral Thermal Imager) – 2000-014A  
WMAP – 2001-027A  
Alsat-1 – 2002-054A  
FY-2C – 2004-042A  
Kirari (OICETS) – 2005-031A  
Orbcomm QL1 – 2008-031A  
Orbcomm QL3 – 2008-031C  
Orbcomm CDS – 2008-031F  
Aerocube-3 – 2009-028E  
Meridian-2 – 2009-029A  
X-37B (OTV-1) – 2010-015A  
SDS-1 – 2009-002C

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### **Satellites Added and Deleted for November 1, 2010 release**

This version of the database includes satellites launched through November 1, 2010.

The changes to this version of the database include:

- The addition of 37 satellites
- The deletion of 24 satellites
- The addition of and corrections to some satellite data, in particular correcting the association of satellite ID number with the names of some of the large constellation (ORBCOMM, Iridium, Globalstar) satellites
- The addition of a link to the What's Up? tool. This database, developed by our colleague Wang Ting, combines information from the U.S. Space Track catalog and the UCS Satellite Database and presents it visually in Google Earth.  
<http://wangting.org/whatsup/> .

### **Satellites Added**

Echostar 15 – 2010-034A  
Cartosat 2B – 2010-035A  
STUDSat – 2010-035B  
AISSat 1 – 2010-035C  
Alsat 2A – 2010-035D  
TISat 1 – 2010-035E  
Compass IGSO-1 – 2010-036A  
Nilesat 201 – 2010-037A

Rascom QAF 1 R – 2010-037B  
Yaogan 10 – 2010-038A  
AEHF 1 (USA 214) – 2010-039A  
Tianhui 1 – 2010-040A  
Glonass 736 (Cosmos 2464) – 2010-041A  
Glonass 737 (Cosmos 2465) – 2010-041B  
Glonass 738 (Cosmos 2466) – 2010-041C  
Sinosat 6A (Chinasat 6A) – 2010-042A  
Strela-3 (Cosmos 2467) – 2010-043A  
Strela-3 (Cosmos 2468) – 2010-043B  
Gonets-M – 2010-043C  
QZS 1 (Michibiki) – 2010-045A  
FIA Radar 1 (USA 215) – 2010-046A  
Yaogan 11 – 2010-047A  
XP-1A – 2010-047B  
XP-1B – 2010-047C  
SBSS (USA 216) – 2010-048A  
US-KS 0ko (Cosmos 2469) – 2010-049A  
Shijian 6G -- 2010-050A  
Shijian 6H – 2010-050B  
Sirius-XM5 – 2010-053A  
Globalstar MO79 – 2010-054A  
Globalstar MO74 – 2010-054B  
Globalstar MO76 – 2010-054C  
Globalstar MO77 – 2010-054D  
Globalstar MO75 – 2010-054E  
Globalstar MO73 – 2010-054F  
BSAT-3B – 2010-056B  
Compass-G4 (Beidou G4) – 2010-057A

### **Satellites Removed from Database**

Trumpet-1 (USA 103) – 1994-026A  
Trumpet-2 (USA 112) – 1995-034A  
Keyhole 1 (USA 116) – 1995-066A  
Measat-2 – 1996-063B  
BSAT-1A – 1997-016B  
Intelsat-802 – 1997-031A  
TRACE – 1998-020A  
Yamal-102 – 1999-047B  
Jian Bing 3A – 2000-050A  
Prognoz-13 (Cosmos 2379) – 2001-037A  
CBERS-2 – 2003-049A  
Genesat-1 – 2006-058C  
US-KS Oko-87 (Cosmos 2422) – 2006-030A  
THEMIS-B – 2007-004B

THEMIS-C – 2007-004C  
IGS-3B – 2007-005A  
Zheda Pixing – 2007-019B  
CBERS-2B – 2007-042A  
Rascom QAF-1 – 2007-063A  
Prognoz (Cosmos 2440) – 2008-033A  
Pharmasat – 2009-028B  
Ande-Castor – 2009-038F  
Ande-Pollux – 2009-038E  
Kobalt-M (Cosmos 2462) – 2010-014A

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### **Satellites Added and Deleted for July 1, 2010 release**

This version of the database includes satellites launched through July 1, 2010.

The changes to this version of the database include:

- The addition of 18 satellites
- The deletion of 4 satellites
- The addition of and corrections to some satellite data

### **Satellites Added**

Cryosat-2 – 2010-013A  
Kobalt-M [Cosmos 2462] – 2010-014A  
X-37B OTV-1 [USA 212] – 2010-015A  
SES 1 – 2010-016A  
Parus-99 [Cosmos 2463] – 2010-017A  
Astra 3B – 2010-021A  
ComsatBw-2 – 2010-021B  
Navstar GPS 62 [USA 213] – 2010-022A  
SERVIS 2 – 2010-023A  
Compass G-3 – 2010-024A  
Arabsat 5B – 2010-025A  
Shijian-12 – 2010-027A  
Picard – 2010-028A  
PRISMA – 2010-028B  
TanDEM-X – 2010-030A  
Ofeq 9 – 2010-031A  
COMS-1 – 2010-032A  
Arabsat 5A – 2010-032B

### **Satellites Removed**

LES-9 – 1976-023B  
Galaxy-9 -- 1996-033A

SERVIS-1 – 2003-050A  
Galaxy-15 – 2005-041A

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### **Satellites Added and Deleted for April 1, 2010 release**

This version of the database includes satellites launched through April 1, 2010.

The changes to this version of the database include:

- The addition of 12 satellites
- The deletion of 10 satellites
- The addition of and corrections to some satellite data

### **Satellites Added**

Beidou 3 – 2010-001A  
Raduga 1M – 2010-002A  
SDO (Solar Dynamics Observatory) – 2010-005A  
Intelsat 16 – 2010-006A  
Glonass 731 [Cosmos 2459] – 2010-007A  
Glonass 735 [Cosmos 2461] – 2010-007B  
Glonass 732 [Cosmos 2460] – 2010-007C  
GOES-15 [GOES-P] – 2010-008A  
Yaogan 9A – 2010-009A  
Yaogan 9B – 2010-009B  
Yaogan 9C – 2010-009C  
Echostar 14 – 2010-010A

### **Satellites Removed**

Thaicom-1A – 1993-078B  
Intelsat-4 – 1995-040A  
Eutelsat W2 – 1998-056A  
Raduga 1-5 [Cosmos 2372] – 2000-049A  
IceSat – 2003-002A  
Raduga 1-7 [Cosmos 2406] – 2004-010A  
Glonass 713 [Cosmos 2418) – 2005-050B  
Yaogan-1 – 2006-015A  
CAPE-1 – 2007-012P  
Beidou-2 [Compass G2] – 2009-018A

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### **Satellites Added and Deleted for January 1, 2010 release**

This version of the database includes satellites launched through January 1, 2010.

The changes to this version of the database include:

- The addition of 24 satellites



- The deletion of 17 satellites
- The addition of and corrections to some satellite data

### **Satellites Added**

Amazonas 2 – 2009-054A  
 COMSATBW 1 – 2009-054B  
 Worldview 2 – 2009-055A  
 DMSP 5D-3 F18 [USA 210] – 2009-057A  
 NSS 12 – 2009-058A  
 Thor 6 – 2009-058B  
 SMOS – 2009-059A  
 PROBA 2 – 2009-059B  
 Shijian 11-01 – 2009-061A  
 Lotos-S [Cosmos 2455] – 2009-063A  
 Intelsat 14 – 2009-064A  
 Eutelsat W7 – 2009-065A  
 IGS 5A – 2009-066A  
 Intelsat 15 – 2009-067A  
 WGS F3 [USA 211] – 2009-068A  
 Yaogan 7 – 2009-069A  
 Glonass 730 [Cosmos 2456] – 2009-070A  
 Glonass 733 [Cosmos 2457] – 2009-070B  
 Glonass 734 [Cosmos 2458] – 2009-070C  
 WISE – 2009-071A  
 Yaogan 8 – 2009-072A  
 Xi Wang 1 – 2009-072B  
 Helios 2B – 2009-073A  
 DirecTV 12 – 2009-075A

### **Satellites Removed**

Superbird A1 – 1992-084A  
 Intelsat 704 – 1995-001A  
 Telecom 2C – 1995-067A  
 GOES-10 [GOES-K] – 1997-019A  
 Globalstar FM-32 – 1999-037A  
 Clémentine – 1999-064B  
 Express-A3 – 2000-031A  
 Glonass-701 [Cosmos 2404] – 2003-056C  
 STPSat-1 – 2007-006D  
 Orbcomm QL2 – 2008-031B  
 Orbcomm QL5 – 2008-031E  
 Orbcomm CDS 3-1 – 2008-031F  
 Kagayaki – 2009-002D  
 Kukai – 2009-002G

SpriteSAT – 2009-002F  
KKS-1 – 2009-002H  
UWE-2 – 2009-051B

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### **Changes to the October 1, 2009 release of the UCS Satellite Database**

This version of the database includes launches through October 1, 2009.

The changes to this version of the database include:

- The addition of 34 satellites
- The deletion of 18 satellites
- The addition of and corrections to some satellite data

### **Satellites Added:**

TerreStar 1 – 2009-035A  
Rodnik-5 [Cosmos 2451] – 2009-036A  
Rodnik-6 [Cosmos 2452] – 2009-036B  
Rodnik-7 [Cosmos 2453] – 2009-036C  
RazakSat – 2009-037A  
ANDE Pollux – 2009-038E  
ANDE Castor – 2009-038F  
Parus-98 [Cosmos 2454] – 2009-039A  
Sterkh-1 – 2009-039B  
Deimos 1 – 2009-041A  
DubaiSat 1 – 2009-041B  
UK-DMC-2 – 2009-041C  
AprizeSat-4 -- 2009-041D  
Nanosat-1 – 2009-041E  
AprizeSat-5 – 2009-041F  
AsiaSat 5 – 2009-042A  
Navstar GPS 50 [USA 206] – 2009-043A  
JCSAT-12 – 2009-044A  
Optus D3 – 2009-044B  
Palapa D – 2009-046A  
PAN-1 [USA 207] – 2009-047A  
Meteor-M – 2009-049A  
Sterkh-2 – 2009-049B  
Tatiana 2 – 2009-049D  
UGATUSAT – 2009-049E  
SumbandilaSat – 2009-049F  
Nimiq 5 – 2009-050A  
Oceansat-2 – 2009-051A  
BeeSat – 2009-051B  
UWE 2 – 2009-051C  
SwissCube – 2009-051D

ITU-pSAT1 – 2009-051E  
STSS Demo 1 [USA 208] – 2009-052A  
STSS Demo 2 [USA 209] – 2009-052B

### **Satellites Removed:**

Spot 2 – 1990-005A  
Navstar GPS 25 [USA 79] – 1992-009A  
Wavsat-1 – 1993-061E  
Apstar-1 1994 -- 043A  
Optus-B3 --1994-055A  
Nimiq-3 [DirecTV-3] – 1995-029A  
Amos-1 – 1996-030B  
Apstar-1A -- 1996-039A  
Echostar-5 -- 1999-050A  
Wavsat-2 – 1999-021A  
Bilsat-1 – 2003-042E  
Glonass 795 [Cosmos 2403] – 2003-056B  
XSS-11 [USA 165] – 2005-011A  
Meridian-1 – 2006-061A  
Beidou-1D – 2007-003A  
Orbcomm QL4 -- 2008-031D  
Kobalt-M [Cosmos 2450] – 2009-022A  
CP-6 -- 2009-028D

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### **Changes to the July 1, 2009 release of the UCS Satellite Database**

This version of the database includes launches through July 1, 2009.

The changes to this version of the database include:

- The addition of 19 satellites
- The deletion of 8 satellites
- The addition of and corrections to some satellite data

### **Satellites Added:**

Eutelsat W2A – 2009-016A  
WGS F2 (Wideband Global Satcom 2 [USA 204]) – 2009-017A  
Beidou 2 (Compass G2) – 2009-018A  
RISAT 2 (Radar Imaging Satellite 2) – 2009-019A  
ANUSAT (Anna University Satellite) – 2009-019B  
Sicral 1B – 2009-020A  
Yaogan 6 – 2009-021A  
Kobalt-M (Cosmos 2450) – 2009-022A  
STSS ATRR (USA 205) – 2009-023A

Protostar 2 – 2009-027A  
Tacsat-3 – 2009-028A  
Pharmasat – 2009-028B  
Hawksat 1 – 2009-028C  
CP-6 – 2009-028D  
Aerocube 3 – 2009-028E  
Meridian 2 – 2009-029A  
Measat 3A – 2009-032A  
GOES 14 – 2009-033A  
Sirius FM5 – 2009-034A

### **Satellites Deleted:**

DSCS III-F7 (USA 93) – 1993-046A  
GFO (GEOSAT Follow-on) – 1998-007A  
Galaxy 4R – 2000-020A  
Gorizont-45 (Gorizont-33) – 2000-029A  
Beidou-1A – 2000-069A  
Monitor-E (2005-032A)  
Eutelsat W2M – 2008-065B  
TDRS-1 – 1983-026B

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### **Changes to the April 13, 2009 release of the UCS Satellite Database**

This version of the database includes launches through April 1, 2009.

The changes to this version of the database include:

- The addition of 21 satellites
- The deletion of 41 satellites
- The addition of and corrections to some satellite data

The relatively large number of satellites removed in this update does not reflect a surge in satellite failures. Instead, we had suspected many of these satellites were no longer operational, but only recently found enough sources to confirm it.

Nota bene: the Iranian satellite Omid was launched after the last update and became inactive before this update, so it never appears in the UCS Satellite Database.

### **Satellites Added:**

NROL-26 [USA 202] – 2009-001A  
Ibuki [GOSat) – 2009-002A  
Prism – 2009-002B  
SDS-1 – 2009-002C  
Kagayaki – 2009-002D  
SOHLA 1 – 2009-002E

SpriteSAT – 2009-002F  
Kukai – 2009-002G  
KKS-1 – 2009-002H  
Koronas-Foton – 2009-003A  
NOAA-19 – 2009-005A  
Express-AM44 – 2009-007A  
Express-MD1 – 2009-007B  
NSS-9 – 2009-008A  
Hot Bird 10 – 2009-008B  
SPIRALE-A – 2009-008C  
SPIRALE-B – 2009-008D  
Telstar 11N – 2009-009A  
Radula 1 [Cosmos 2450] – 2009-10A  
GOCE – 2009-013A  
Navstar GPS 49 [USA 203] – 2009-014A

**Satellites Deleted:**

UoSat-2 [Oscar 11] – 1984-021B  
SLDCOM-1 [USA 59] – 1990-050A  
SB-WASS 2-1 [USA 60] – 1990-050B  
SB-WASS 2-1 [USA 61] – 1990-050C  
SB-WASS 2-1 [USA 62] – 1990-050D  
LaCrosse/Onyx 2 [USA 69] – 1991-017A  
Intelsat 605 – 1991-055A  
Tubsat-A – 1991-050D  
SLDCOM-2 [USA 72] – 1991-076A  
Navstar GPS-35 [USA 94] – 1993-054A  
PoSat-1 [Oscar 28] – 1993-061D  
DirecTV-1 – 1993-078A  
Orbcomm FM1 – 1995-017A  
Orbcomm FM2 – 1995-017B  
Gorizont-44 -- 1996-034A  
SDS-II-3 [USA 125] – 1996-038A  
Iridium 33 – 1997-051C  
Iridium 28 – 1997-051E  
LaCrosse/Onyx 3 [USA 133] – 1997-064A  
Astra 5A – 1997-071A  
Orbcomm FM3 – 1998-007B  
Strela-3 [Cosmos 2352] – 1998-036A  
Strela-3 [Cosmos 2353] – 1998-036B  
Strela-3 [Cosmos 2354] – 1998-036C  
Strela-3 [Cosmos 2355] – 1998-036D  
Strela-3 [Cosmos 2356] – 1998-036E  
Strela-3 [Cosmos 2357] – 1998-036F  
Orbcomm FM17 – 1998-046A

Orbcomm FM26 – 1998-053F  
Orbcomm FM28 – 1998-053H  
WavSat-2 [UoSat-12] – 1999-021A  
Orbcomm FM32 – 1999-065C  
Multispectral Thermal Imager – 2000-014A  
Meteor-3M-N1 – 2001-056A  
Nadezhda 7 [COSPAS 10] – 2002-046A  
KazSat 1 – 2006-022A  
PehuenSat-1 [Oscar 63] – 2007-001D  
CP-4 – 2007-012Q  
CSTB-1 – 2007-012R  
Persona N1 [Cosmos 2441] – 2008-037A  
Kobalt-M [Cosmos 2445] – 2008-058A

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### **Changes to the January 21, 2009 release of the UCS Satellite Database**

This version of the database includes launches through January 1, 2009.

The Database page has been newly organized for easier navigation, and it has several new features, including some analysis:

- a **Satellite Quick Facts** box, giving current satellite counts, updated quarterly, and
- a **Quick Facts & Analysis** page, explaining the derivation of the **Satellite Quick Facts** and answering some more in-depth questions, updated occasionally

Also new to the Database page are:

- a **Quick Guide to Using the Database**, a how-to for several basic database tasks
- a **Featured Satellite**, detailing one of the interesting active satellites in the database, updated quarterly
- a link to the new **Space Age Trivia** page, highlighting interesting facts about space, past and present, updated quarterly

The other changes to this version of the database include:

- a reorganization of the orbital information into columns with “Class of Orbit,” e.g., *LEO*, and “Type of Orbit,” e.g., *Sun-Synchronous*. All GEO longitude information has been moved to the column “Longitude of GEO”
- The addition of 20 satellites
- The deletion of 14 inactive satellites
- The addition of and corrections to some satellite data
- The updating of the orbital information for the GEO satellites

### **Satellites Added:**

THEOS (Thailand Earth Observation System) – 2008-049A

Interstellar Boundary Explorer (IBEX) – 2008-051A  
Shijian 6E – 2008-053A  
Shijian 6F – 2008-053B  
COSMO-SkyMed 3 – 2008-054A  
VeneSat-1 – 2008-055A  
Shiyuan 3 – 2008-056A  
Chuangxin 2 – 2008-056B  
Astra 1M – 2008-057A  
Kobalt M [Cosmos 2445] – 2008-058A  
Yaogan-4 – 2008-061A  
Cosmos 2446 – 2008-062A  
Ceil-2 2008-063A  
Yaogan 5 – 2008-064A  
Hot Bird 9 – 2008-065A  
Eutelsat W2M – 2008-065B  
Fengyun 2E – 2008-066A  
Glonass 727 [Cosmos 2447] -- 2008-067A  
Glonass 728 [Cosmos 2448] -- 2008-067B  
Glonass 729 [Cosmos 2449] -- 2008-067C

**Satellites Removed:**

Marisat-F2 – 1976-101A  
TDRS-1 – 1983-026B  
Orion/Magnum 3 [USA 67] – 1990-097B  
DSP-16 [USA 72] – 1991-080B  
Gorizont-40 – 1993-069A  
DSP-17 [USA 107] – 1994-084A  
KH-12-4 [USA 129] – 1996-072A  
Chinasat-6 – 1997-021A  
Thor-2 – 1997-025A  
BSAT-1B – 1998-024B  
UFO-9 [USA 140] – 1998-058A  
Glonass 796 [Cosmos 2411] – 2004-053C  
NigComSat-1 – 2007-018A  
DSP-23 [USA 197] – 2007-054A

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**Changes to the October 6, 2008 release of the UCS Satellite Database**

This version of the database includes launches through October 1, 2008.

The changes to this version of the database include:

- The addition of 22 satellites
- The deletion of 15 inactive satellites

- The addition of and corrections to some satellite data

**Satellites Added:**

Protostar 1 – 2008-034A  
Badr 6 – 2008-034B  
Echostar 11 – 2008-035A  
Sar Lupe 5 – 2008-036A  
Persona-N1 [Cosmos 2441] – 2008-037A  
Superbird 7 – 2008-038A  
AMC 21 – 2008-038B  
INMARSAT 4F3 – 2008-039A  
RapidEye-A – 2008-040A  
RapidEye-B – 2008-040B  
RapidEye-C – 2008-040C  
RapidEye-D – 2008-040D  
RapidEye-E – 2008-040E  
HJ-1A [Huan Jing 1A] – 2008-041A  
HJ-1B [Huan Jing 1B] – 2008-041B  
GeoEye-1 – 2008-042A  
Nimiq 4 – 2008-044A  
Galaxy 19 – 2008-045A  
Glonass 724 [Cosmos 2442] – 2008-046A  
Glonass 725 [Cosmos 2443] – 2008-046B  
Glonass 726 [Cosmos 2444] – 2008-046C  
Theos – 2008-049A

**Satellites Removed:**

Telstar 11 – 1994-079A  
Milstar DFS-2 – 1995-060A  
NStar-B – 1996-007A  
Echostar 2 – 1996-055A  
Badr C – 1997-046A  
BSat-1B – 1998-024B  
Molniya 1-91 – 1998-054A  
Intelsat 6B – 1998-075A  
Yamal-102 – 1999-047B  
Galaxy 11 – 1999-071A  
Galaxy 10R – 2000-002A  
Milstar DFS-5 – 2002-001A  
Molniya 1-93 – 2004-005A  
Superbird-6 – 2004-011A  
Glonass 797 [Cosmos 2412] – 2004-053B

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## **Changes to the July 8, 2008 release of the UCS Satellite Database**

This version of the database includes launches through July 1, 2008.

The changes to this version of the database include:

- The addition of 34 satellites
- The deletion of 17 inactive satellites
- The addition of and corrections to some satellite data

### **Satellites Added:**

ICO G1 – 2008-016A

C/NOFS (Communication/Navigation Outage Forecasting System) – 2008-017A

Vinasat 1 – 2008-018A

Star One C2 – 2008-018B

TianLian 1 – 2008-019A

GIOVE-B – 2008-020A

CartoSat 2A – 2008-021A

CAN-X6 – 2008-021B

Cute 1.7 + APD II – 2008-021C

IMS-1 – 2008-021D

Compass-1 – 2008-021E

AAUSat-2 – 2008-021F

Delfi-C3 – 2008-021G

CAN-X2 – 2008-021H

SEEDS 2 – 2008-021J

Amos-3 – 2008-022A

Galaxy 18 – 2008-024A

Yubileiny – 2008-025A

Cosmos 2437 – 2008-025A

Cosmos 2438 – 2008-025B

Cosmos 2439 – 2008-025C

Fengyun 3A – 2008-026A

Zhongxing 9 – 2008-028A

GLAST – 2008-029A

Skynet 5C – 2008-030A

Turksat 3A – 2008-030B

Orbcomm QL1 – 2008-031A

Orbcomm QL2 – 2008-031B

Orbcomm QL3 – 2008-031C

Orbcomm QL4 – 2008-031D

Orbcomm QL5 – 2008-031E

Orbcomm CDS 3-1 – 2008-031F

Jason 2 – 2008-032A

Cosmos 2440 – 2008-033A

### **Satellites Removed:**

ATS-3 – 1967-111A

SBS-6 – 1990-091A  
SB-WASS 2-2 (USA 74) – 1991-076C  
SB-WASS 2-2 (USA 76) – 1991-076D  
SB-WASS 2-2 (USA 77) – 1991-076E  
Navstar GPS 32 – 1992-079A  
Navstar GPS 29 – 1992-089A  
Navstar GPS 37 – 1993-032A  
Polar – 1996-013A  
SB-WASS 2-3 (USA 121) – 1996-029C  
SB-WASS 2-3 (USA 119) – 1996-029D  
SB-WASS 2-3 (USA 120) – 1996-029E  
Skynet 4D – 1998-002A  
Thuraya 1 – 2000-066A  
CHIPSat – 2003-002B  
EORSAT (Cosmos 2421) – 2006-026A  
AMC-14 – 2008-011A

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### **Changes to the April 7, 2008 release of the UCS Satellite Database**

This version of the database includes launches through April 1, 2008

The changes to this version of the database include:

- The addition of 10 satellites
- The deletion of 9 inactive satellites
- The addition of a column denoting the longitude for GEO satellites
- The addition of and corrections to some satellite data

#### **Satellites Added:**

Thuraya 3 – 2008-001A  
TecSAR – 2008-002A  
Express AM-33 – 2008-003A  
Thor 2R – 2008-006A  
Kizuna (WINDS – 2008-007A  
NROL-28 (USA 200) – 2008-010A  
AMC 14 – 2008-011A  
Navstar GPS 48 – 2008-012A  
DirectTV-11 – 2008-013A  
SAR-Lupe 4 – 2008-014A

#### **Satellites Deleted:**

Kompsat-1 – 1999-070A  
CHAMP – 2000-039B  
Glonass-789 – 2001-053B  
Fedsat – 2002-056B

Glomass-792 – 2002-060B  
Quakesat – 2003-031F  
Glomass-798 – 2005-050C  
Tacsat-2 – 2006-058A  
CP-3 – 2007-012M

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### **Changes to the January 7, 2008 release of the UCS Satellite Database**

This version of the database includes launches through December 31, 2007

The changes to this version of the database include:

- The addition of 28 satellites
- The deletion of 11 inactive satellites
- The addition of and corrections to some satellite data

#### **Satellites Added:**

Optus D2 (2007-044A)  
Intelsat 11 (2007-044B)  
WGS F1 [USA 195] (2007-046A)  
Navstar GPS 55 [GPS 2R-17, USA 196] (2007-047A)  
Globalstar MO67 (2007-048A)  
Globalstar MO70 (2007-048B)  
Globalstar MO66 (2007-048C)  
Globalstar MO68 (2007-048D)  
US-KS Oko 88 [Cosmos 2430] (2007-049A)  
Glomass 718 [Cosmos 2431] (2007-052A)  
Glomass 719 [Cosmos 2432] (2007-052B)  
Glomass 720 [Cosmos 2433] (2007-052C)  
SAR-Lupe 3 (2007-053A)  
DSP-23 [USA 197] (2007-054A)  
Yaogan 3 (2007-055A)  
Star One C1 (2007-056A)  
Skynet 5B (2007-056B)  
Sirius 4 (2007-057A)  
Raduga 1-8 [Cosmos 2434] (2007-058A)  
COSMO-Skymed 2 (2007-059A)  
SDS III-6 [NROL-24, Scorpius, USA 198] (2007-060A)  
Radarsat-2 (2007-061A)  
Navstar GPS 57 [GPS 2R-18, USA 199] (2007-062A)  
RASCOM-QAF 1 (2007-063A)  
Horizons 2 (2007-063B)  
Glomass 721 [Cosmos 2435] (2007-065A)  
Glomass 722 [Cosmos 2436] (2007-065B)  
Glomass 723 [Cosmos 2437] (2007-065C)

#### **Satellites Deleted:**

NATO-4A (1991-001A)  
DirecTV-2 [Nimiq 4i] (1994-047A)  
FUSE (1999-035A)  
Molniya 3-49 (1998-040A)  
Molniya 3-50 (1999-036A)  
Tselina-2 [Cosmos 2369] (2000-006A)  
Molniya 3-51 (2001-030A)  
Nadezhda-6 [COSPAS-9] (2000-033A)  
HETE-2 (2000-061A)  
Molniya 3-52 (2001-050A)  
Double Star 1 [TC-1] (2003-061A)

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### **Changes to the September 27, 2007 release of the UCS Satellite Database**

This version of the database includes launches through September 25, 2007

The changes to this version of the database include:

- The addition of 12 satellites
- The deletion of 14 inactive satellites
- The addition of and corrections to some satellite data

#### **Satellites Added:**

SB-WASS 3-4 [USA 194, NRO L30] (2007-027A)  
SB-WASS 3-4 [USA 194, NRO L30] (2007-027C)  
Cosmos-2428 (2007-029A)  
SAR-Lupe 2 (2007-030A)  
ChinaSat 6B (2007-031A)  
DirecTV 10 (2007-032A)  
Spaceway-3 (2007-036A)  
BSAT-3A (2007-036B)  
INSAT-4CR (2007-037A)  
Parus-97 [Cosmos 2429] (2007-038A)  
Worldview 1 (2007-041A)  
CBERS-2B (2007-042A)

#### **Satellites Deleted:**

GOES-7 [GOES-H] (1987-022A)  
NOAA-12 (1991-032A)  
Gorizont-37 [Gorizont 26] (1992-043A)  
GOES-9 [GOES-J] (1995-025A)  
JAS-2 [Fuji-Oscar 29] (1996-046B)  
HALCA (1997-005A)  
IMAGE (2000-017A)  
Orbview-3 (2003-030A)

Gravity Probe B (2004-014A)  
HitSat (2006-041D)  
NextSat (2007-006C)  
Orbital Express 1A (2007-006A)  
Libertad-1 (2007-012N)  
Cosmos-2427 [Kobalt M] (2007-022A)

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### **Changes to the April 9, 2007 release of the UCS Satellite Database**

This version of the database includes launches through April 6, 2007

The changes to this version of the database include:

- The addition of 18 satellites
- The deletion of 16 inactive satellites
- The addition of and corrections to some satellite data

#### **Satellites Added:**

LAPAN-Tubsat (2007-001A)  
CartoSat 2A (2007-001B)  
PehuenSat 1 (2007-001D)  
THEMIS 1 (2007-004A)  
THEMIS 2 (2007-004B)  
THEMIS 3 (2007-004C)  
THEMIS 4 (2007-004D)  
THEMIS 5 (2007-004E)  
IGS 3B (2007-005A)  
IGS 4A (2007-005B)  
ASTRO [part of Orbital Express] (2007-006A)  
MIDStar 1 (2007-006B)  
NextSat/CSC [part of Orbital Express] (2007-006C)  
STPSat-1 (2007-006D)  
FalconSat 3 (2007-006E)  
CFESat (2007-006F)  
INSAT-4B (2007-007A)  
Skynet-5A (2007-007B)

#### **Satellites Deleted:**

Navstar GPS 15 (1990-088A)  
Gorizont 36 (1992-017A)  
Optus B1 (1992-054A)  
Satcom-C4 (1992-057A)  
DMSP F12 (1994-057A)  
JCSat 3 (1995-043A)  
Thaicom-3 (1997-016A)  
Iridium 36 (1997-056C)  
Sapphire (2001-043D)

Cosmos 2388 (2002-017A)  
IGS-1B (2003-009B)  
Streak [STP-R1] (2005-037A)  
Cute-1.7 (2006-005C)  
Space Technology 5A (2006-008A)  
Space Technology 5B (2006-008B)  
Space Technology 5C (2006-008C)

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### **Changes to the January 4, 2007 release of the UCS Satellite Database**

This version of the database includes launches through December 27, 2006

The changes to this version of the database include:

- The addition of 27 satellites
- The deletion of 11 inactive satellites
- The addition of and corrections to some satellite data

### **Satellites Added:**

IGS-3A (Information Gathering Satellite 3A) – 2006-037A  
Zhongxing 22A – 2006-038A  
Hinode (Solar B) – 2006-041A  
HitSat (Oscar 59) – 2006-041B  
Navstar 52 (USA 190) – 2006-042A  
DirecTV-9S – 2006-043A  
Optus D1 – 2006-043B  
MetOp-A – 2006-044A  
Shijian 6C – 2006-046A  
Shijian 6D – 2006-046B  
XM-4 – 2006-049A  
DMSP 5D-3 F17 (USA 191) – 2006-050A  
Arabsat 4B – 2006-051A  
Navstar 58 (USA 192) – 2006-052A  
Fengyun-2D – 2006-053A  
WildBlue-1 – 2006-054A  
Americom-18 – 2006-054B  
Measat-3 – 2006-056A  
NROL-21 (USA 193) – 2006-057A  
TacSat-2 – 2006-058A  
GeneSat-1 – 2006-058B  
SAR-Lupe 1 – 2006-060A  
Meridian 1 – 2006-061A  
Glonass (Cosmos 2424) – 2006-062A  
Glonass (Cosmos 2425) – 2006-062B  
Glonass (Cosmos 2426) – 2006-062C  
CoRoT (Convection, Rotation des Étoiles et Transits des Planètes Extrasolaires) – 2006-063A

**Satellites Deleted:**

Intelsat 604 – 1990-056A  
UoSat-5 (Oscar 22) – 1991-050B  
Hispasat 1B – 1993-048A  
Amrad (Oscar 27) – 1993-061C  
N Star A – 1995-044A  
DirecTV-6 (Tempo 2) – 1997-011A  
Techsat 1B (Oscar 32) – 1998-043D  
Raduga 1-6 (Globus) – 2001-045A  
Tiungsat-1 (Oscar 46) – 2000-057A  
MicroLabSat – 2002-056D  
Shenzhou 6 – 2005-040A

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**Changes to the September 21, 2006 release of the UCS Satellite Database**

This version of the database includes launches through September 10, 2006

The changes to this version of the database include:

- The addition of 14 satellites
- The deletion of 7 inactive satellites
- The addition of and corrections to some satellite data

**Satellites Added:**

Resurs DK-1 – 2006-021A  
KazSat 1 – 2006-022A  
Galaxy 16 – 2006-023A  
MITEX (Micro-Satellite Technology Experiment, USA 187) – 2006-024A  
MITEX (Micro-Satellite Technology Experiment, USA 188) – 2006 -024B  
EORSAT (Cosmos 2421) – 2006-026A  
NROL-22 (USA 184) – 2006-027A  
Genesis-1 – 2006-029A  
Oko-87 (Cosmos 2422) – 2006-030A  
Komsat 2 – 2006-031A  
Hot Bird 8 – 2006-032A  
JCSat 10 – 2006-033A  
Syracuse 3B – 2006-033B  
KoreaSat 5 – 2006-034A

**Satellites Deleted:**

Astra-1B – 1991-015A  
Eutelsat II-F2 – 1991-003B  
Nadezhda 1 (COSPAS 4) – 1989-050a  
Kobalt-M (Cosmos 2420) – 2006-017A  
Galaxy 1R – 1994-013A

Esiafi-1 – 1981-018A  
Raduga 1-4 – 1999-010A

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### **Changes to the June 19, 2006 release of the UCS Satellite Database**

This version of the database includes launches through June 15, 2006.

The changes to this version of the database include:

- The addition of 19 satellites
- The deletion of 14 inactive satellites
- The addition of and corrections to some satellite data

We have also added a tab-delimited text version in which the “Name” column contains only the official name of the satellite in the case of government and military satellites, and the most commonly used name in the case of commercial and civil satellites. This file is called “UCS\_Satellite\_Database\_officialname\_6-19-06.txt”.

And we have added some supporting materials which can be accessed from [http://ucsusa.org/satellite\\_database](http://ucsusa.org/satellite_database) : 1) this document listing the changes to the database, including the names of the satellites added and deleted, and 2) a brief note addressing some of the common misconceptions about the database and its contents.

#### **Satellites Added:**

Space Technology 5-A (ST5-A) - 2006-008A  
Space Technology 5-B (ST5-B) - 2006-008B  
Space Technology 5-C (ST5-C) - 2006-008C  
JCSAT 9 – 2006-010A  
COSMIC-A – 2006-011A  
COSMIC-B – 2006-011B  
COSMIC-C – 2006-011C  
COSMIC-D – 2006-011D  
COSMIC-E – 2006-011E  
COSMIC-F – 2006-011F  
Astra 1KR – 2006-012A  
EROS B-1 – 2006-014A  
Remote Sensing Satellite 1 (RSS 1) - 2006-015A  
CloudSat – 2006-016A  
Calipso – 2006-016B  
Cosmos 2420 (Kobalt-M) – 2006-017A  
GOES 13 – 2006-018A  
SatMex 6 – 2006-020A  
Thaicom 5 – 2006-020B

#### **Satellites Deleted:**



Anik E-1 (Telesat 11) - 1991-067A  
Anik E-2 (Telesat 10) - 1991-026A  
DSCS III-F4 (DSCS III A-2, USA 44) – 1989-069B  
DSCS III-FT (DSCS III B-14, USA 78) – 1992-006A  
EORSAT (Cosmos 2405) - 2004-020A  
Eutelsat-II F-3 - 1991-083A  
Express AM11 – 2004-015A  
Gonets D1-8 (Cosmos 2385) – 2001-058B  
Gorizont-43 - 1996-005A  
Inmarsat 2-F3 - 1991-084B  
Newsat-1 (Palapa B2R) - 1990-034A  
Spacenet-4 - 1991-028A  
Telecom 2A - 1991-084A  
UFO-3 (USA 104) – 1994-035A

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### **Changes to the March 17, 2006 release of the UCS Satellite Database**

This version of the database includes launches through March 11, 2006.

The new file is named “UCS\_Satellite\_Database\_3-17-06.xls”. In addition, we have posted a tab-delimited text version of the data, named “UCS\_Satellite\_Database\_3-17-06.txt” that can be used in other database programs.

The changes to this version of the database include:

- The addition of 19 satellites
- The deletion of 15 inactive satellites
- The addition of and corrections to some satellite data
- The addition of a column giving the eccentricity of the satellite’s orbit
- The addition of our definition of “active” satellites to the User Guide