

## **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 141 satellites
- 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  
Tanguo 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 OTV-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-Keralshree – 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 ONNESHHA – 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  
Egyptsat-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  
Egyptsat 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  
Egyptsat-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 Oko (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

Glonass-792 – 2002-060B  
Quakesat – 2003-031F  
Glonass-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)  
Glonass 718 [Cosmos 2431] (2007-052A)  
Glonass 719 [Cosmos 2432] (2007-052B)  
Glonass 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)  
Glonass 721 [Cosmos 2435] (2007-065A)  
Glonass 722 [Cosmos 2436] (2007-065B)  
Glonass 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  
Kompsat 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