

### **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, Dombarovsky (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  
Ekspres 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 0ko (Cosmos 2469) – 2010-049A  
 Shijian 6G -- 2010-050A  
 Shijian 6H – 2010-050B  
 Sirius-XM5 – 2010-053A  
 Globalstar MO79 – 2010-054A  
 Globalstar MO74 – 2010-054B  
 Globalstar MO76 – 2010-054C  
 Globalstar MO77 – 2010-054D  
 Globalstar MO75 – 2010-054E

Globalstar MO73 – 2010-054F  
BSAT-3B – 2010-056B  
Compass-G4 (Beidou G4) – 2010-057A

### **Satellites Removed from Database**

Trumpet-1 (USA 103) – 1994-026A  
Trumpet-2 (USA 112) – 1995-034A  
Keyhole 1 (USA 116) – 1995-066A  
Measat-2 – 1996-063B  
BSAT-1A – 1997-016B  
Intelsat-802 – 1997-031A  
TRACE – 1998-020A  
Yamal-102 – 1999-047B  
Jian Bing 3A – 2000-050A  
Prognoz-13 (Cosmos 2379) – 2001-037A  
CBERS-2 – 2003-049A  
Genesat-1 – 2006-058C  
US-KS Oko-87 (Cosmos 2422) – 2006-030A  
THEMIS-B – 2007-004B  
THEMIS-C – 2007-004C  
IGS-3B – 2007-005A  
Zheda Pixing – 2007-019B  
CBERS-2B – 2007-042A  
Rascom QAF-1 – 2007-063A  
Prognoz (Cosmos 2440) – 2008-033A  
Pharmasat – 2009-028B  
Ande-Castor – 2009-038F  
Ande-Pollux – 2009-038E  
Kobalt-M (Cosmos 2462) – 2010-014A

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

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

The changes to this version of the database include:

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

### **Satellites Added**

Cryosat-2 – 2010-013A  
Kobalt-M [Cosmos 2462] – 2010-014A  
X-37B OTV-1 [USA 212) – 2010-015A

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

### **Satellites Removed**

LES-9 – 1976-023B  
Galaxy-9 -- 1996-033A  
SERVIS-1 – 2003-050A  
Galaxy-15 – 2005-041A

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

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

The changes to this version of the database include:

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

### **Satellites Added**

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

## **Satellites Removed**

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

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

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

The changes to this version of the database include:

- The addition of 24 satellites
- The deletion of 17 satellites
- The addition of and corrections to some satellite data

## **Satellites Added**

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

Xi Wang 1 – 2009-072B  
Helios 2B – 2009-073A  
DirecTV 12 – 2009-075A

### **Satellites Removed**

Superbird A1 – 1992-084A  
Intelsat 704 – 1995-001A  
Telecom 2C – 1995-067A  
GOES-10 [GOES-K] – 1997-019A  
Globalstar FM-32 – 1999-037A  
Clémentine – 1999-064B  
Express-A3 – 2000-031A  
Glonass-701 [Cosmos 2404] – 2003-056C  
STPSat-1 – 2007-006D  
Orbcomm QL2 – 2008-031B  
Orbcomm QL5 – 2008-031E  
Orbcomm CDS 3-1 – 2008-031F  
Kagayaki – 2009-002D  
Kukai – 2009-002G  
SpriteSAT – 2009-002F  
KKS-1 – 2009-002H  
UWE-2 – 2009-051B

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

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

The changes to this version of the database include:

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

### **Satellites Added:**

TerreStar 1 – 2009-035A  
Rodnik-5 [Cosmos 2451] – 2009-036A  
Rodnik-6 [Cosmos 2452] – 2009-036B  
Rodnik-7 [Cosmos 2453] – 2009-036C  
RazakSat – 2009-037A  
ANDE Pollux – 2009-038E  
ANDE Castor – 2009-038F  
Parus-98 [Cosmos 2454] – 2009-039A  
Sterkh-1 – 2009-039B  
Deimos 1 – 2009-041A  
DubaiSat 1 – 2009-041B

UK-DMC-2 – 2009-041C  
AprizeSat-4 -- 2009-041D  
Nanosat-1 – 2009-041E  
AprizeSat-5 – 2009-041F  
AsiaSat 5 – 2009-042A  
Navstar GPS 50 [USA 206] – 2009-043A  
JCSAT-12 – 2009-044A  
Optus D3 – 2009-044B  
Palapa D – 2009-046A  
PAN-1 [USA 207] – 2009-047A  
Meteor-M – 2009-049A  
Sterkh-2 – 2009-049B  
Tatiana 2 – 2009-049D  
UGATUSAT – 2009-049E  
SumbandilaSat – 2009-049F  
Nimiq 5 – 2009-050A  
Oceansat-2 – 2009-051A  
BeeSat – 2009-051B  
UWE 2 – 2009-051C  
SwissCube – 2009-051D  
ITU-pSAT1 – 2009-051E  
STSS Demo 1 [USA 208] – 2009-052A  
STSS Demo 2 [USA 209] – 2009-052B

**Satellites Removed:**

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

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

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

The changes to this version of the database include:

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

### **Satellites Added:**

Eutelsat W2A – 2009-016A  
WGS F2 (Wideband Global Satcom 2 [USA 204]) – 2009-017A  
Beidou 2 (Compass G2) – 2009-018A  
RISAT 2 (Radar Imaging Satellite 2) – 2009-019A  
ANUSAT (Anna University Satellite) – 2009-019B  
Sicral 1B – 2009-020A  
Yaogan 6 – 2009-021A  
Kobalt-M (Cosmos 2450) – 2009-022A  
STSS ATRR (USA 205) – 2009-023A  
Protostar 2 – 2009-027A  
Tacsat-3 – 2009-028A  
Pharmasat – 2009-028B  
Hawksat 1 – 2009-028C  
CP-6 – 2009-028D  
Aerocube 3 – 2009-028E  
Meridian 2 – 2009-029A  
Measat 3A – 2009-032A  
GOES 14 – 2009-033A  
Sirius FM5 – 2009-034A

### **Satellites Deleted:**

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

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

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



The changes to this version of the database include:

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

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

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

### **Satellites Added:**

NROL-26 [USA 202] – 2009-001A  
Ibuki [GOSat) – 2009-002A  
Prism – 2009-002B  
SDS-1 – 2009-002C  
Kagayaki –2009-002D  
SOHLA 1 – 2009-002E  
SpriteSAT – 2009-002F  
Kukai – 2009-002G  
KKS-1 – 2009-002H  
Koronas-Foton – 2009-003A  
NOAA-19 – 2009-005A  
Express-AM44 – 2009-007A  
Express-MD1 – 2009-007B  
NSS-9 – 2009-008A  
Hot Bird 10 – 2009-008B  
SPIRALE-A – 2009-008C  
SPIRALE-B – 2009-008D  
Telstar 11N – 2009-009A  
Radula 1 [Cosmos 2450] – 2009-10A  
GOCE – 2009-013A  
Navstar GPS 49 [USA 203] – 2009-014A

### **Satellites Deleted:**

UoSAT-2 [Oscar 11] – 1984-021B  
SLDCOM-1 [USA 59] – 1990-050A  
SB-WASS 2-1 [USA 60] – 1990-050B  
SB-WASS 2-1 [USA 61] – 1990-050C  
SB-WASS 2-1 [USA 62] – 1990-050D  
LaCrosse/Onyx 2 [USA 69] – 1991-017A  
Intelsat 605 – 1991-055A  
Tubsat-A – 1991-050D

SLDCOM-2 [USA 72] – 1991-076A  
Navstar GPS-35 [USA 94] – 1993-054A  
PoSat-1 [Oscar 28] – 1993-061D  
DirecTV-1 – 1993-078A  
Orbcomm FM1 – 1995-017A  
Orbcomm FM2 – 1995-017B  
Gorizont-44 -- 1996-034A  
SDS-II-3 [USA 125] – 1996-038A  
Iridium 33 – 1997-051C  
Iridium 28 – 1997-051E  
LaCrosse/Onyx 3 [USA 133] – 1997-064A  
Astra 5A – 1997-071A  
Orbcomm FM3 – 1998-007B  
Strela-3 [Cosmos 2352] – 1998-036A  
Strela-3 [Cosmos 2353] – 1998-036B  
Strela-3 [Cosmos 2354] – 1998-036C  
Strela-3 [Cosmos 2355] – 1998-036D  
Strela-3 [Cosmos 2356] – 1998-036E  
Strela-3 [Cosmos 2357] – 1998-036F  
Orbcomm FM17 – 1998-046A  
Orbcomm FM26 – 1998-053F  
Orbcomm FM28 – 1998-053H  
WavSat-2 [UoSat-12] – 1999-021A  
Orbcomm FM32 – 1999-065C  
Multispectral Thermal Imager – 2000-014A  
Meteor-3M-N1 – 2001-056A  
Nadezhda 7 [COSPAS 10] – 2002-046A  
KazSat 1 – 2006-022A  
PehuenSat-1 [Oscar 63] – 2007-001D  
CP-4 – 2007-012Q  
CSTB-1 – 2007-012R  
Persona N1 [Cosmos 2441] – 2008-037A  
Kobalt-M [Cosmos 2445] – 2008-058A

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

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

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

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

Also new to the Database page are:

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

The other changes to this version of the database include:

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

#### **Satellites Added:**

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

Interstellar Boundary Explorer (IBEX) – 2008-051A

Shijian 6E – 2008-053A

Shijian 6F – 2008-053B

COSMO-SkyMed 3 – 2008-054A

VeneSat-1 – 2008-055A

Shiyuan 3 – 2008-056A

Chuangxin 2 – 2008-056B

Astra 1M – 2008-057A

Kobalt M [Cosmos 2445] – 2008-058A

Yaogan-4 – 2008-061A

Cosmos 2446 – 2008-062A

Ceil-2 2008-063A

Yaogan 5 – 2008-064A

Hot Bird 9 – 2008-065A

Eutelsat W2M – 2008-065B

Fengyun 2E – 2008-066A

Glonass 727 [Cosmos 2447] -- 2008-067A

Glonass 728 [Cosmos 2448] -- 2008-067B

Glonass 729 [Cosmos 2449] -- 2008-067C

#### **Satellites Removed:**

Marisat-F2 – 1976-101A

TDRS-1 – 1983-026B

Orion/Magnum 3 [USA 67] – 1990-097B

DSP-16 [USA 72] – 1991-080B

Gorizont-40 – 1993-069A  
DSP-17 [USA 107] – 1994-084A  
KH-12-4 [USA 129] – 1996-072A  
Chinasat-6 – 1997-021A  
Thor-2 – 1997-025A  
BSAT-1B – 1998-024B  
UFO-9 [USA 140] – 1998-058A  
Glonass 796 [Cosmos 2411] – 2004-053C  
NigComSat-1 – 2007-018A  
DSP-23 [USA 197] – 2007-054A

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

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

The changes to this version of the database include:

- The addition of 22 satellites
- The deletion of 15 inactive satellites
- The addition of and corrections to some satellite data

#### **Satellites Added:**

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

**Satellites Removed:**

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

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

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

The changes to this version of the database include:

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

**Satellites Added:**

ICO G1 – 2008-016A  
C/NOFS (Communication/Navigation Outage Forecasting System) – 2008-017A  
Vinasat 1 – 2008-018A  
Star One C2 – 2008-018B  
TianLian 1 – 2008-019A  
GIOVE-B – 2008-020A  
CartoSat 2A – 2008-021A  
CAN-X6 – 2008-021B  
Cute 1.7 + APD II – 2008-021C  
IMS-1 – 2008-021D  
Compass-1 – 2008-021E  
AAUSat-2 – 2008-021F  
Delfi-C3 – 2008-021G  
CAN-X2 – 2008-021H  
SEEDS 2 – 2008-021J  
Amos-3 – 2008-022A  
Galaxy 18 – 2008-024A

Yubileiny – 2008-025A  
Cosmos 2437 – 2008-025A  
Cosmos 2438 – 2008-025B  
Cosmos 2439 – 2008-025C  
Fengyun 3A – 2008-026A  
Zhongxing 9 – 2008-028A  
GLAST – 2008-029A  
Skynet 5C – 2008-030A  
Turksat 3A – 2008-030B  
Orbcomm QL1 – 2008-031A  
Orbcomm QL2 – 2008-031B  
Orbcomm QL3 – 2008-031C  
Orbcomm QL4 – 2008-031D  
Orbcomm QL5 – 2008-031E  
Orbcomm CDS 3-1 – 2008-031F  
Jason 2 – 2008-032A  
Cosmos 2440 – 2008-033A

**Satellites Removed:**

ATS-3 – 1967-111A  
SBS-6 – 1990-091A  
SB-WASS 2-2 (USA 74) – 1991-076C  
SB-WASS 2-2 (USA 76) – 1991-076D  
SB-WASS 2-2 (USA 77) – 1991-076E  
Navstar GPS 32 – 1992-079A  
Navstar GPS 29 – 1992-089A  
Navstar GPS 37 – 1993-032A  
Polar – 1996-013A  
SB-WASS 2-3 (USA 121) – 1996-029C  
SB-WASS 2-3 (USA 119) – 1996-029D  
SB-WASS 2-3 (USA 120) – 1996-029E  
Skynet 4D – 1998-002A  
Thuraya 1 – 2000-066A  
CHIPSat – 2003-002B  
EORSAT (Cosmos 2421) – 2006-026A  
AMC-14 – 2008-011A

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

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

The changes to this version of the database include:

- The addition of 10 satellites
- The deletion of 9 inactive satellites

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

**Satellites Added:**

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

**Satellites Deleted:**

Kompsat-1 – 1999-070A  
 CHAMP – 2000-039B  
 Glonass-789 – 2001-053B  
 Fedsat – 2002-056B  
 Glonass-792 – 2002-060B  
 Quakesat – 2003-031F  
 Glonass-798 – 2005-050C  
 Tacsat-2 – 2006-058A  
 CP-3 – 2007-012M

**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