

## **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