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Delta 7925

Part of Thor Family

American orbital launch vehicle. Four stage vehicle consisting of 9 x GEM-40 + 1 x EELT Thor/RS-27A + 1 x Delta K + 1 x Star 48B

Status: Active. *First Launch:* 1990-11-26. *Last Launch:* 1997-11-06. *Number:* 34 . *Payload:* 5,089 kg (11,219 lb). *Thrust:* 3,110.00 kN (699,150 lbf). *Gross mass:* 231,870 kg (511,180 lb). *Height:* 38.10 m (124.90 ft). *Diameter:* 2.44 m (8.00 ft). *Apogee:* 185 km (114 mi).

LEO Payload: 5,089 kg (11,219 lb) to a 185 km orbit. *Payload:* 1,818 kg (4,008 lb) to a GTO.

More at: [Delta 7925](#).

Family: [orbital launch vehicle](#). *Country:* [USA](#). *Engines:* [RS-27C](#). *Spacecraft:* [Spacebus 100](#), [ECS/OTS](#), [HS 376](#), [AS 3000](#), [ASC](#), [GPS Block 2 and 2A](#), [HS 601](#), [Losat](#), [SEDS](#), [PMG](#), [Mars Global Surveyor](#), [Mars Pathfinder](#), [GPS Block 2R](#), [MER](#), [Messenger](#), [Themis](#), [Phoenix](#). *Projects:* [DFS](#), [Discovery series](#), [Galaxy](#), [GTE](#), [Koreasat](#), [Mars Surveyor](#), [Navstar](#), [Palapa](#), [Satcom](#), [Thor Comsat](#). *Launch Sites:* [Cape Canaveral](#), [Cape Canaveral LC17B](#), [Cape Canaveral LC17A](#), [Cape Canaveral SLC17](#). *Stages:* [Delta Thor XLT-C](#), [Delta K](#), [GEM 40](#), [Star 48](#), [Star 63](#). *Agency:* [NATO](#), [Douglas](#).

1990 November 26 - . 21:39 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 66** - . *Payload:* [GPS 2A-10](#) / [GPS SVN 23](#). *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* [Navigation satellite](#). *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 20959 . *COSPAR:* 1990-103A. *Apogee:* 20,384 km (12,666 mi). *Perigee:* 19,978 km (12,413 mi). *Inclination:* 54.9000 deg. *Period:* 717.90 min. [Global Positioning System](#). Placed in [Plane E Slot 5](#)..

1991 January 8 - . 00:53 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **NATO 4A** - . *Payload:* [NATO 4A](#). *Mass:* 1,433 kg (3,159 lb). *Nation:* [NATO](#). *Agency:* [NATO](#). *Program:* [NATO](#). *Class:* [Communications](#). *Type:* [Military communications satellite](#). *Spacecraft:* [ECS/OTS](#). *USAF Sat Cat:* 21047 . *COSPAR:* 1991-001A. *Apogee:* 35,800 km (22,200 mi). *Perigee:* 35,775 km (22,229 mi). *Inclination:* 2.6000 deg.

Period: 1,436.10 min.

NATO communications; 18 deg W. Spacecraft engaged in practical applications and uses of space technology such as weather or communication (US Cat C). Positioned in geosynchronous orbit at 18 deg W in 1991-1999 As of 5 September 2001 located at 17.81 deg W drifting at 0.007 deg W per day. As of 2007 Mar 10 located at 16.26W drifting at 0.003W degrees per day.

1991 April 13 - . 00:09 GMT - . *Launch Site: [Cape Canaveral](#). Launch Complex: [Cape Canaveral LC17B](#). LV Family: [Thor](#). Launch Vehicle: [Delta 7925](#).*

- **ASC-2 / Spacenet F4** - . *Mass: 1,350 kg (2,970 lb). Nation: [USA](#). Agency: [Contel](#). Program: [GTE](#). Class: [Communications](#). Type: Civilian communications satellite. Spacecraft Bus: [AS 3000](#). Spacecraft: [ASC](#). USAF Sat Cat: 21227 . COSPAR: 1991-028A. Apogee: 35,794 km (22,241 mi). Perigee: 35,780 km (22,230 mi). Inclination: 0.0000 deg. Period: 1,436.20 min.*

Commercial business communications; stationed at 101 deg W. C, Ku band communications satellite. Positioned in geosynchronous orbit at 101 deg W in 1991-1999; 81 deg W in 2000. As of 6 September 2001 located at 172.04 deg E drifting at 0.007 deg W per day. As of 2007 Mar 9 located at 34.51E drifting at 2.539W degrees per day.

1991 May 29 - . 22:55 GMT - . *Launch Site: [Cape Canaveral](#). Launch Complex: [Cape Canaveral LC17B](#). LV Family: [Thor](#). Launch Vehicle: [Delta 7925](#).*

- **Aurora 2** - . *Payload: Satcom-C 5. Mass: 1,336 kg (2,945 lb). Nation: [USA](#). Agency: [GE](#). Manufacturer: [Lockheed](#). Class: [Communications](#). Type: Civilian communications satellite. Spacecraft: [AS 3000](#). USAF Sat Cat: 21392 . COSPAR: 1991-037A. Apogee: 36,161 km (22,469 mi). Perigee: 36,125 km (22,446 mi). Inclination: 1.2000 deg. Period: 1,454.40 min.*

Stationed at 139 deg W. Spacecraft engaged in research and exploration of the upper atmosphere or outer space (US Cat B). Positioned in geosynchronous orbit at 139 deg W in 1991-1999 As of 30 August 2001 located at 148.31 deg E drifting at 4.531 deg W per day. As of 2007 Mar 9 located at 2.15E drifting at 4.534W degrees per day.

1991 July 4 - . 02:32 GMT - . *Launch Site: [Cape Canaveral](#). Launch Complex: [Cape Canaveral LC17A](#). LV Family: [Thor](#). Launch Vehicle: [Delta 7925](#).*

- **USA 71** - . *Payload: GPS 2A-11 / GPS SVN 24. Mass: 1,816 kg (4,003 lb). Nation: [USA](#). Agency: [USAF](#). Manufacturer: [Seal Beach](#). Program: [Navstar](#). Class: [Navigation](#). Type: Navigation satellite. Spacecraft Bus: [Navstar](#). Spacecraft: [GPS Block 2 and 2A](#). USAF Sat Cat: 21552 . COSPAR: 1991-047A. Apogee: 20,319 km (12,625 mi). Perigee: 20,043 km (12,454 mi). Inclination: 55.6000 deg. Period: 717.90 min. Global Positioning System. Placed in Plane D Slot 1..*

- **Losat X** - . *Mass:* 75 kg (165 lb). *Nation:* [USA](#). *Agency:* [SDIO](#). *Class:* [Military](#). *Type:* Strategic defense satellite. *Spacecraft:* [Losat](#). *Decay Date:* 1991-11-15 . *USAF Sat Cat:* 21553 . *COSPAR:* 1991-047B. *Apogee:* 417 km (259 mi). *Perigee:* 405 km (251 mi). *Inclination:* 40.0000 deg. *Period:* 92.80 min. Test flight of DOD sensors; Low Altitude Satellite Experiment. Spacecraft engaged in research and exploration of the upper atmosphere or outer space (US Cat B)..
-

1992 February 23 - . 22:29 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 79** - . *Payload:* GPS 2A-12 / GPS SVN 25. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 21890 . *COSPAR:* 1992-009A. *Apogee:* 20,332 km (12,633 mi). *Perigee:* 20,032 km (12,447 mi). *Inclination:* 54.2000 deg. *Period:* 718.00 min. Global Positioning System. Placed in Plane A Slot 2..
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1992 April 10 - . 03:20 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 80** - . *Payload:* GPS 2A-13 / GPS SVN 28. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 21930 . *COSPAR:* 1992-019A. *Apogee:* 20,277 km (12,599 mi). *Perigee:* 20,082 km (12,478 mi). *Inclination:* 54.5000 deg. *Period:* 717.90 min. Global Positioning System. Retired 15 August 1997..
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1992 May 14 - . 00:40 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **Palapa B4** - . *Mass:* 1,254 kg (2,764 lb). *Nation:* [Indonesia](#). *Agency:* [PT Telkom](#). *Program:* [Palapa](#). *Class:* [Communications](#). *Type:* Civilian communications satellite. *Spacecraft:* [HS 376](#). *USAF Sat Cat:* 21964 . *COSPAR:* 1992-027A. *Apogee:* 35,790 km (22,230 mi). *Perigee:* 35,787 km (22,236 mi). *Inclination:* 0.0000 deg. *Period:* 1,436.20 min. Stationed at 118 deg E. Positioned in geosynchronous orbit at 118 deg E in 1992-1999 As of 2 September 2001 located at 118.02 deg E drifting at 0.020 deg W per day. As of 2007 Mar 9 located at 164.88E drifting at 1.157W degrees per day..
-

1992 July 7 - . 09:20 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 83** - . *Payload:* GPS 2A-14 / GPS SVN 26. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 22014 . *COSPAR:* 1992-039A. *Apogee:* 20,400 km

(12,600 mi). *Perigee*: 19,962 km (12,403 mi). *Inclination*: 54.9000 deg. *Period*: 718.00 min. Global Positioning System. Placed in Plane F Slot 2..

1992 August 31 - . 10:41 GMT - . *Launch Site*: [Cape Canaveral](#). *Launch Complex*: [Cape Canaveral LC17B](#). *LV Family*: [Thor](#). *Launch Vehicle*: [Delta 7925](#).

- **Satcom C4** - . *Mass*: 2,000 kg (4,400 lb). *Nation*: [USA](#). *Agency*: [GE Americom](#). *Manufacturer*: [Lockheed](#). *Program*: [Satcom](#). *Class*: [Communications](#). *Type*: Civilian communications satellite. *Spacecraft*: [AS 3000](#). *USAF Sat Cat*: 22096 . *COSPAR*: 1992-057A. *Apogee*: 35,789 km (22,238 mi). *Perigee*: 35,786 km (22,236 mi). *Inclination*: 0.1000 deg. *Period*: 1,436.20 min. Stationed at 135 deg W. Positioned in geosynchronous orbit at 135 deg W in 1992-1999 As of 3 September 2001 located at 135.00 deg W drifting at 0.002 deg E per day. As of 2007 Mar 10 located at 164.40W drifting at 4.518W degrees per day..

1992 September 9 - . 08:57 GMT - . *Launch Site*: [Cape Canaveral](#). *Launch Complex*: [Cape Canaveral LC17A](#). *LV Family*: [Thor](#). *Launch Vehicle*: [Delta 7925](#).

- **USA 84** - . *Payload*: GPS 2A-15 / GPS SVN 27. *Mass*: 1,816 kg (4,003 lb). *Nation*: [USA](#). *Agency*: [USAF](#). *Manufacturer*: [Seal Beach](#). *Program*: [Navstar](#). *Class*: [Navigation](#). *Type*: Navigation satellite. *Spacecraft Bus*: [Navstar](#). *Spacecraft*: [GPS Block 2 and 2A](#). *USAF Sat Cat*: 22108 . *COSPAR*: 1992-058A. *Apogee*: 20,453 km (12,708 mi). *Perigee*: 19,909 km (12,370 mi). *Inclination*: 54.5000 deg. *Period*: 718.00 min. Global Positioning System. Placed in Plane A Slot 4..

1992 October 12 - . 09:47 GMT - . *Launch Site*: [Cape Canaveral](#). *Launch Complex*: [Cape Canaveral LC17B](#). *LV Family*: [Thor](#). *Launch Vehicle*: [Delta 7925](#).

- **DFS 3** - . *Payload*: Kopernikus 3. *Mass*: 1,400 kg (3,000 lb). *Nation*: [Germany](#). *Agency*: [Bundespost](#). *Program*: [DFS](#). *Class*: [Communications](#). *Type*: Civilian communications satellite. *Spacecraft*: [Spacebus 100](#). *USAF Sat Cat*: 22175 . *COSPAR*: 1992-066A. *Apogee*: 35,799 km (22,244 mi). *Perigee*: 35,773 km (22,228 mi). *Inclination*: 0.5000 deg. *Period*: 1,436.10 min.

Stationed at 33.5 deg E. Communication satellite. Longitude 33.5 deg E. Delta II flight no 212. Positioned in geosynchronous orbit at 31 deg E in 1992; 23 deg E in 1993-1999 As of 1 September 2001 located at 23.45 deg E drifting at 0.001 deg E per day. As of 2007 Mar 9 located at 29.79E drifting at 1.955W degrees per day.

1992 November 22 - . 23:54 GMT - . *Launch Site*: [Cape Canaveral](#). *Launch Complex*: [Cape Canaveral LC17A](#). *LV Family*: [Thor](#). *Launch Vehicle*: [Delta 7925](#).

- **USA 85** - . *Payload*: GPS 2A-16 / GPS SVN 32. *Mass*: 1,816 kg (4,003 lb). *Nation*: [USA](#). *Agency*: [USAF](#). *Manufacturer*: [Seal Beach](#). *Program*: [Navstar](#). *Class*: [Navigation](#). *Type*: Navigation satellite. *Spacecraft Bus*: [Navstar](#). *Spacecraft*: [GPS](#)

Block 2 and 2A. *USAF Sat Cat:* 22231 . *COSPAR:* 1992-079A. *Apogee:* 20,325 km (12,629 mi). *Perigee:* 20,038 km (12,451 mi). *Inclination:* 55.5000 deg. *Period:* 718.00 min. Global Positioning System. Placed in Plane F Slot 4..

1992 December 18 - . 22:16 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 87** - . *Payload:* GPS 2A-17 / GPS SVN 29. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 22275 . *COSPAR:* 1992-089A. *Apogee:* 20,324 km (12,628 mi). *Perigee:* 20,038 km (12,451 mi). *Inclination:* 54.7000 deg. *Period:* 718.00 min. Global Positioning System. Placed in Plane F Slot 5..
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1993 February 3 - . 02:55 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 88** - . *Payload:* GPS 2A-18 / GPS SVN 22. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 22446 . *COSPAR:* 1993-007A. *Apogee:* 20,359 km (12,650 mi). *Perigee:* 20,006 km (12,431 mi). *Inclination:* 54.8000 deg. *Period:* 718.00 min. Global Positioning System. Placed in Plane Plane B Slot 1..
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1993 March 30 - . 03:09 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 90** - . *Payload:* GPS 2A-19 / GPS SVN 31. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 22581 . *COSPAR:* 1993-017A. *Apogee:* 20,293 km (12,609 mi). *Perigee:* 20,072 km (12,472 mi). *Inclination:* 55.0000 deg. *Period:* 718.00 min. Global Positioning System. Placed in Plane C Slot 3..
 - **SEDS 1 Deployer** - . *Payload:* SEDS 1 Deployer. *Mass:* 25 kg (55 lb). *Nation:* [USA](#). *Agency:* [MDAC](#). *Program:* [Navstar](#). *Spacecraft:* [SEDS](#). *Decay Date:* 1999-05-05 . *USAF Sat Cat:* 22583 . *COSPAR:* 1993-017C. *Apogee:* 1,292 km (802 mi). *Perigee:* 305 km (189 mi). *Inclination:* 36.1000 deg. *Period:* 100.84 min.
 - **SEDS 1** - . *Payload:* SEDS 1 End Mass/Tether. *Mass:* 25 kg (55 lb). *Nation:* [USA](#). *Agency:* [NASA Huntsville](#). *Class:* [Technology](#). *Type:* Tether technology satellite. *Spacecraft:* [SEDS](#). *Decay Date:* 1993-03-30 . *USAF Sat Cat:* 22582 . *COSPAR:* 1993-017B. *Apogee:* 719 km (446 mi). *Perigee:* 183 km (113 mi). *Inclination:* 36.0000 deg. *Period:* 93.62 min. Small Expendable-tether Deployer System. .
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1993 May 13 - . 00:07 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 91** - . *Payload:* GPS 2A-20 / GPS SVN 37. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 22657 . *COSPAR:* 1993-032A. *Apogee:* 20,345 km (12,641 mi). *Perigee:* 20,017 km (12,437 mi). *Inclination:* 55.1000 deg. *Period:* 718.00 min. Global Positioning System. Placed in Plane C Slot 4..
-

1993 June 26 - . 13:27 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 92** - . *Payload:* GPS 2A-21 / GPS SVN 39. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 22700 . *COSPAR:* 1993-042A. *Apogee:* 20,250 km (12,580 mi). *Perigee:* 20,112 km (12,496 mi). *Inclination:* 54.6000 deg. *Period:* 717.90 min. Global Positioning System. Placed in Plane A Slot 1..
 - **PMG** - . *Payload:* Plasma Motor Generator. *Nation:* [USA](#). *Agency:* [MDAC](#). *Program:* [Navstar](#). *Spacecraft:* [PMG](#). *Decay Date:* 1993-08-30 . *USAF Sat Cat:* 22701 . *COSPAR:* 1993-042B. *Apogee:* 677 km (420 mi). *Perigee:* 185 km (114 mi). *Inclination:* 25.7000 deg. *Period:* 93.20 min.
 - **PMG Far End Package** - . *Nation:* [USA](#). *Agency:* [MDSSC](#). *Program:* [Navstar](#). *Spacecraft:* [PMG](#). *COSPAR:* 1993-042xx.
-

1993 August 30 - . 12:38 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 94** - . *Payload:* GPS 2A-22 / GPS SVN 35. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 22779 . *COSPAR:* 1993-054A. *Apogee:* 20,255 km (12,585 mi). *Perigee:* 20,110 km (12,490 mi). *Inclination:* 54.9000 deg. *Period:* 718.00 min. Global Positioning System. Placed in Plane B Slot 4..
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1993 October 26 - . 17:04 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 96** - . *Payload:* GPS 2A-23 / GPS SVN 34. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 22877 . *COSPAR:* 1993-068A. *Apogee:* 20,260 km (12,580 mi). *Perigee:* 20,104 km (12,492 mi). *Inclination:* 55.1000 deg. *Period:*

718.00 min. Global Positioning System. Placed in Plane D Slot 4..

1993 December 8 - . 00:48 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 98** - . *Payload:* NATO 4B. *Mass:* 1,430 kg (3,150 lb). *Nation:* [NATO](#). *Agency:* [NATO](#). *Program:* [NATO](#). *Class:* [Communications](#). *Type:* Military communications satellite. *Spacecraft:* [ECS/OTS](#). *USAF Sat Cat:* 22921 . *COSPAR:* 1993-076A. *Apogee:* 35,805 km (22,248 mi). *Perigee:* 35,767 km (22,224 mi). *Inclination:* 2.2000 deg. *Period:* 1,436.10 min.

NATO encrypted communications relay. Spacecraft engaged in practical applications and uses of space technology such as weather or communication (US Cat C).

Positioned in geosynchronous orbit at 6 deg E in 1994-1998; 20 deg W in 1998-1999

As of 2 September 2001 located at 20.16 deg W drifting at 0.009 deg W per day. As of 2007 Mar 10 located at 35.47E drifting at 0.007E degrees per day.

1994 March 10 - . 03:40 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 100** - . *Payload:* GPS 2A-24 / GPS SVN 36. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 23027 . *COSPAR:* 1994-016A. *Apogee:* 20,366 km (12,654 mi). *Perigee:* 20,000 km (12,000 mi). *Inclination:* 53.9000 deg. *Period:* 718.00 min. Final element of initial GPS constellation. Placed in Plane C Slot 1..
- **SEDS 2 Deployer** - . *Payload:* SEDS 2 Deployer. *Mass:* 25 kg (55 lb). *Nation:* [USA](#). *Agency:* [MDAC](#). *Program:* [Navstar](#). *Spacecraft:* [SEDS](#). *Decay Date:* 1994-05-08 . *USAF Sat Cat:* 23028 . *COSPAR:* 1994-016B. *Apogee:* 341 km (211 mi). *Perigee:* 340 km (210 mi). *Inclination:* 32.3000 deg. *Period:* 91.34 min.
- **SEDS 2** - . *Payload:* SEDS 2 End Mass. *Mass:* 25 kg (55 lb). *Nation:* [USA](#). *Agency:* [MDSSC](#). *Program:* [Navstar](#). *Spacecraft:* [SEDS](#). *COSPAR:* 1994-016xx.

1995 August 5 - . 11:10 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#). *FAILURE:* Partial Failure.. *Failed Stage:* U.

- **Mugunghwa 1** - . *Payload:* Koreasat 1. *Mass:* 1,459 kg (3,216 lb). *Nation:* [Korea South](#). *Agency:* [KT](#). *Manufacturer:* [Lockheed](#). *Program:* [Koreasat](#). *Class:* [Communications](#). *Type:* Civilian communications satellite. *Spacecraft:* [AS 3000](#). *USAF Sat Cat:* 23639 . *COSPAR:* 1995-041A. *Apogee:* 35,796 km (22,242 mi). *Perigee:* 35,776 km (22,230 mi). *Inclination:* 2.7000 deg. *Period:* 1,436.10 min.

15 Ku-band transponders; boosted into geosynch orbit by satellite thrusters

following Delta failure that left satellite in LEO; unplanned use of satellite propellant cut usable satellite lifetime by approx. 50 percent. Stationed at 116.0 deg E. Stage 1 SRM failure Positioned in geosynchronous orbit at 116 deg E in 1995-1999 As of 5 September 2001 located at 47.22 deg E drifting at 0.022 deg E per day. As of 2007 Mar 9 located at 152.88E drifting at 2.155W degrees per day.

1996 January 14 - . 11:10 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **Koreasat 2** - . *Mass:* 600 kg (1,320 lb). *Nation:* [Korea South](#). *Agency:* [KT](#). *Manufacturer:* [Lockheed](#). *Program:* [Koreasat](#). *Class:* [Communications](#). *Type:* Civilian communications satellite. *Spacecraft:* [AS 3000](#). *Completed Operations Date:* 2000-04-08 . *USAF Sat Cat:* 23768 . *COSPAR:* 1996-003A. *Apogee:* 35,792 km (22,240 mi). *Perigee:* 35,782 km (22,233 mi). *Inclination:* 0.0000 deg. *Period:* 1,436.20 min. Geostationary at 116.0E. Positioned in geosynchronous orbit at 116 deg E in 1996-2000 As of 5 September 2001 located at 113.02 deg E drifting at 0.017 deg W per day. As of 2007 Mar 11 located at 116.35E drifting at 0.013W degrees per day..

1996 March 28 - . 00:21 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 117** - . *Payload:* GPS 2A-25 / GPS SVN 33. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 23833 . *COSPAR:* 1996-019A. *Apogee:* 20,257 km (12,587 mi). *Perigee:* 20,106 km (12,493 mi). *Inclination:* 54.6000 deg. *Period:* 718.00 min. Placed in Plane C Slot 2 of the constellation..

1996 May 24 - . 01:09 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17B](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **Galaxy 9** - . *Nation:* [USA](#). *Agency:* [HCI](#). *Program:* [Galaxy](#). *Class:* [Communications](#). *Type:* Civilian communications satellite. *Spacecraft:* [HS 601](#). *USAF Sat Cat:* 23877 . *COSPAR:* 1996-033A. *Apogee:* 35,789 km (22,238 mi). *Perigee:* 35,783 km (22,234 mi). *Inclination:* 0.0000 deg. *Period:* 1,436.10 min.

Geostationary at 123.0W. Positioned in geosynchronous orbit at 123 deg W in 1996-2000; 127 deg W in 2000.- As of 5 September 2001 located at 126.96 deg W drifting at 0.001 deg W per day. As of 2007 Mar 11 located at 74.14W drifting at 0.004W degrees per day.

1996 July 16 - . 00:50 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 126** - . *Payload:* GPS 2A-26 / GPS SVN 40. *Mass:* 1,816 kg (4,003 lb). *Nation:* USA. *Agency:* USAF. *Manufacturer:* Seal Beach. *Program:* Navstar. *Class:* Navigation. *Type:* Navigation satellite. *Spacecraft Bus:* Navstar. *Spacecraft:* GPS Block 2 and 2A. *USAF Sat Cat:* 23953 . *COSPAR:* 1996-041A. *Apogee:* 20,237 km (12,574 mi). *Perigee:* 20,127 km (12,506 mi). *Inclination:* 55.1000 deg. *Period:* 717.90 min. Placed in Plane E Slot 3 of the constellation..

1996 September 12 - . 08:49 GMT - . *Launch Site:* Cape Canaveral. *Launch Complex:* Cape Canaveral LC17A. *LV Family:* Thor. *Launch Vehicle:* Delta 7925.

- **USA 128** - . *Payload:* GPS 2A-27 / GPS SVN 30. *Mass:* 1,816 kg (4,003 lb). *Nation:* USA. *Agency:* USAF. *Manufacturer:* Seal Beach. *Program:* Navstar. *Class:* Navigation. *Type:* Navigation satellite. *Spacecraft Bus:* Navstar. *Spacecraft:* GPS Block 2 and 2A. *USAF Sat Cat:* 24320 . *COSPAR:* 1996-056A. *Apogee:* 20,320 km (12,620 mi). *Perigee:* 20,042 km (12,453 mi). *Inclination:* 54.7000 deg. *Period:* 718.00 min. Placed in Plane B Slot 2 of the constellation..

1996 November 7 - . 17:00 GMT - . *Launch Site:* Cape Canaveral. *Launch Complex:* Cape Canaveral LC17A. *LV Family:* Thor. *Launch Vehicle:* Delta 7925.

- **Mars Global Surveyor** - . *Payload:* MGS / Leros 1B LAE. *Nation:* USA. *Agency:* JPL, NASA. *Program:* Mars Surveyor. *Class:* Mars. *Type:* Mars probe. *Spacecraft:* Mars Global Surveyor. *USAF Sat Cat:* 24648 . *COSPAR:* 1996-062A.

Mars Global Surveyor entered a 258 x 54021 km x 93.3 deg polar orbit around Mars on 12 September 1997 after a 22 minute burn of its main engine. After a long aerobraking phase to a lower circular orbit, the spacecraft began its primary mission of photographing and observing changes on the Martian surface in March 1999. After nearly ten years of service, the last signals from MGS were received on 3 November 2006. The spacecraft went silent after an incorrect software upload caused its solar arrays to lose power.

1996 December 4 - . 06:58 GMT - . *Launch Site:* Cape Canaveral. *Launch Complex:* Cape Canaveral LC17B. *LV Family:* Thor. *Launch Vehicle:* Delta 7925.

- **Mars Pathfinder** - . *Payload:* Discovery 2. *Nation:* USA. *Agency:* JPL, NASA. *Program:* Discovery series. *Class:* Mars. *Type:* Mars probe. *Spacecraft Bus:* Mars Rovers. *Spacecraft:* Mars Pathfinder. *Decay Date:* 1997-07-04 . *USAF Sat Cat:* 24667 . *COSPAR:* 1996-068A. En route Mars.
- **MPF Cruise Stage** - . *Nation:* USA. *Agency:* MDSSC. *Spacecraft Bus:* Mars Rovers. *Spacecraft:* Mars Pathfinder. *COSPAR:* 1996-068xx.
- **Sojourner** - . *Payload:* MFEX Rover. *Nation:* USA. *Agency:* MDSSC. *Spacecraft Bus:* Mars Rovers. *Spacecraft:* Mars Pathfinder. *COSPAR:* 1996-068xx.

1997 January 17 - . 16:28 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#). *FAILURE:* T+12 sec GEM strap-on number 2 structural failure.. *Failed Stage:* 0.

- **GPS 42** - . *Payload:* GPS 2R-1 / GPS SVN 42. *Mass:* 2,030 kg (4,470 lb). *Nation:* [USA](#). *Agency:* [MDSSC](#). *Manufacturer:* [Valley Forge](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [AS 4000](#). *Spacecraft:* [GPS Block 2R](#). Destroyed in launch vehicle failure..

1997 May 20 - . 22:39 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **Thor 2** - . *Payload:* Thor 2A. *Mass:* 2,800 kg (6,100 lb). *Nation:* [Norway](#). *Agency:* [Telenor](#). *Manufacturer:* [El Segundo](#). *Program:* [Thor Comsat](#). *Class:* [Communications](#). *Type:* Civilian communications satellite. *Spacecraft:* [HS 376](#). *USAF Sat Cat:* 24808 . *COSPAR:* 1997-025A. *Apogee:* 35,793 km (22,240 mi). *Perigee:* 35,780 km (22,230 mi). *Inclination:* 0.0000 deg. *Period:* 1,436.10 min. Geosynchronous. Stationed over 0.8W Positioned in geosynchronous orbit at 1 deg W in 1997-1999 As of 5 September 2001 located at 0.73 deg W drifting at 0.000 deg E per day. As of 2007 Mar 9 located at 0.76W drifting at 0.002W degrees per day..

1997 July 23 - . 03:43 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 132** - . *Payload:* GPS 2R-2 / GPS SVN 43. *Mass:* 2,030 kg (4,470 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Valley Forge](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [AS 4000](#). *Spacecraft:* [GPS Block 2R](#). *USAF Sat Cat:* 24876 . *COSPAR:* 1997-035A. *Apogee:* 20,235 km (12,573 mi). *Perigee:* 20,132 km (12,509 mi). *Inclination:* 55.8000 deg. *Period:* 718.00 min. Placed in Plane F Slot 3 of the constellation..

1997 November 6 - . 00:30 GMT - . *Launch Site:* [Cape Canaveral](#). *Launch Complex:* [Cape Canaveral LC17A](#). *LV Family:* [Thor](#). *Launch Vehicle:* [Delta 7925](#).

- **USA 134** - . *Payload:* GPS 2A-28 / GPS SVN 38. *Mass:* 1,816 kg (4,003 lb). *Nation:* [USA](#). *Agency:* [USAF](#). *Manufacturer:* [Seal Beach](#). *Program:* [Navstar](#). *Class:* [Navigation](#). *Type:* Navigation satellite. *Spacecraft Bus:* [Navstar](#). *Spacecraft:* [GPS Block 2 and 2A](#). *USAF Sat Cat:* 25030 . *COSPAR:* 1997-067A. *Apogee:* 20,394 km (12,672 mi). *Perigee:* 19,970 km (12,400 mi). *Inclination:* 55.0000 deg. *Period:* 718.00 min. Final GPS Block 2A satellite. Placed in Plane A Slot 3..

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