AMSAT® is dedicated to keeping amateur radio in space. Its membership includes a worldwide group of radio hams who monitor amateur radio satellite signals and use satellites for QSOs. They also design and build the satellites, and control them once in orbit.

Since 1961, more than 90 amateur radio satellites have successfully reached orbit and begun operation. Our vision is to deploy satellite systems with the goal of providing wide area and continuous coverage. AMSAT will continue active participation in human space missions and support a stream of Low Earth Orbiting satellites developed in cooperation with the educational community and other amateur satellite groups.

We are always interested in having committed people join AMSAT and help design, build and maintain our amateur satellites.

We’d Like to Have You as a Member

Both you and AMSAT will benefit when you join. You get the AMSAT Journal bi-monthly and support from AMSAT Area Coordinators. Member dues and donations provide AMSAT’s primary support.

Find AMSAT on-line at:

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This book will show you how it’s done:
AMSAT offers the Getting Started with Amateur Satellites book... Available on-line at: https://www.amsat.org/shop/

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AMSAT pioneered the concept of small satellites in low orbits. AMSAT’s Project Fox consists of a series of CubeSats that have FM transponders with a 70 cm uplink and a 2 meter downlink, and that will match the ground performance of previous FM satellites.

A dual-band radio capable of full-duplex operation with an external antenna is enough to get started:

- 435 MHz FM Uplink
- 145 MHz FM Downlink

You may also consider using one radio to receive and another radio to transmit for full-duplex operation.

AMSAT operates a fleet of five amateur radio cubesats on-orbit or ready for launch:

- **Fox-1A** (AO-85) was launched on a NASA ELaNa flight on 8 October 2015, and is currently operational. This satellite has a UHF uplink and a VHF downlink.

- **RadFxSat (Fox-1B/AO-91)** was launched on 18 November 2017 with an FM transponder and the Vanderbilt University radiation experiments and is operational.

- **Fox-1Cliff** planned to launch Summer 2018 on a SpaceX Falcon 9 from Vandenberg AFB, CA. UHF and L-band uplinks with the VHF downlink plus a camera experiment.

- **Fox-1D** (AO-92) launched in January, 2018 aboard a PSLV flight from India and is operational. Fox-1D orbits an FM transponder with UHF and L-band uplinks and a VHF downlink plus a camera experiment.

- **RadFxSat-2 (Fox-1E)** will launch no earlier than 2nd quarter 2018 aboard a Virgin Galactic LauncherOne flight. It will carry a 30 kHz wide mode V/U linear transponder. It will also have a 1200 bps BPSK telemetry beacon.

AMSAT partners with NASA, the ARRL, and the Amateur Radio on the International Space Station (ARISS) team to provide amateur radio equipment for the ISS. There are multiple amateur radio experiments aboard the ISS involving voice, digital, and visual amateur radio modes encompassing both SSTV and the digital ATV experiment in the Columbus module.

Be a part of Amateur Radio’s exciting future in space!

2018 and beyond promises to bring more satellites, sky high technology and educational outreach ...

- Introducing AMSAT-Golf - Greater Orbit, Larger Footprint ... 3U cubesats with deployable solar cells, attitude determination and control, earth imaging, university experiments, SDR transponder.

- AMSAT microwave groundstation to support 5 GHz uplink and 10 GHz downlink for our future High Earth Orbit and Geosynchronous flights.

- Support ARISS to deploy the new Kenwood radios and Multi-voltage Power Supply on the ISS.

- Educational outreach and STEM involvement with students at the high-school and university level.

You can operate as a portable or a fixed station on the linear satellites with a dual-band radio such as the Yaesu FT-817.