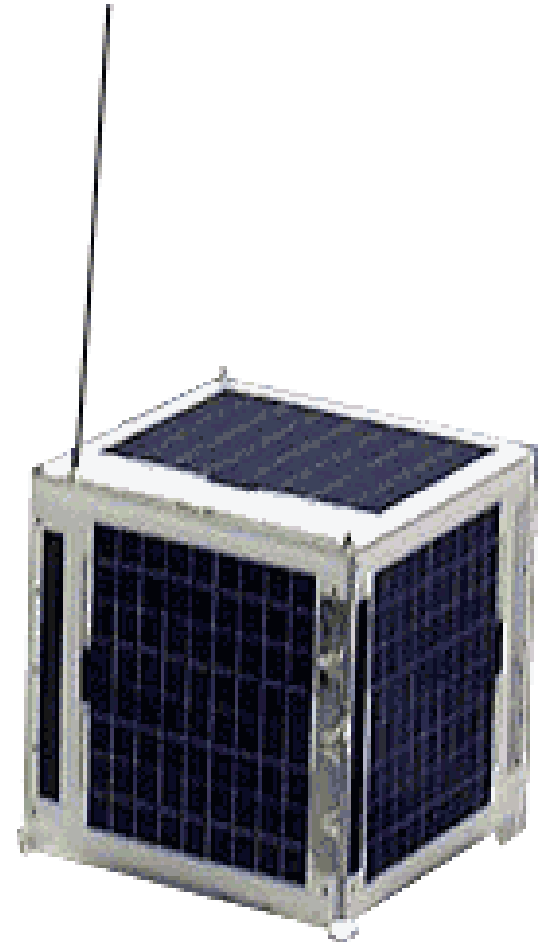




# SAUDI-OSCAR 50, Saudisat 1C

- ▶ Launched Dec 20, 2002
- ▶ Low-Earth orbit
- ▶ FM transponder
  - ▶ 145.850 / 436.795
  - ▶ 67.0 Hz tone



Commemorating Cosmonautics Day  
First and Last Space Shuttle Crews  
STS-1 and STS-135, 1981-2011



**RSOISS**

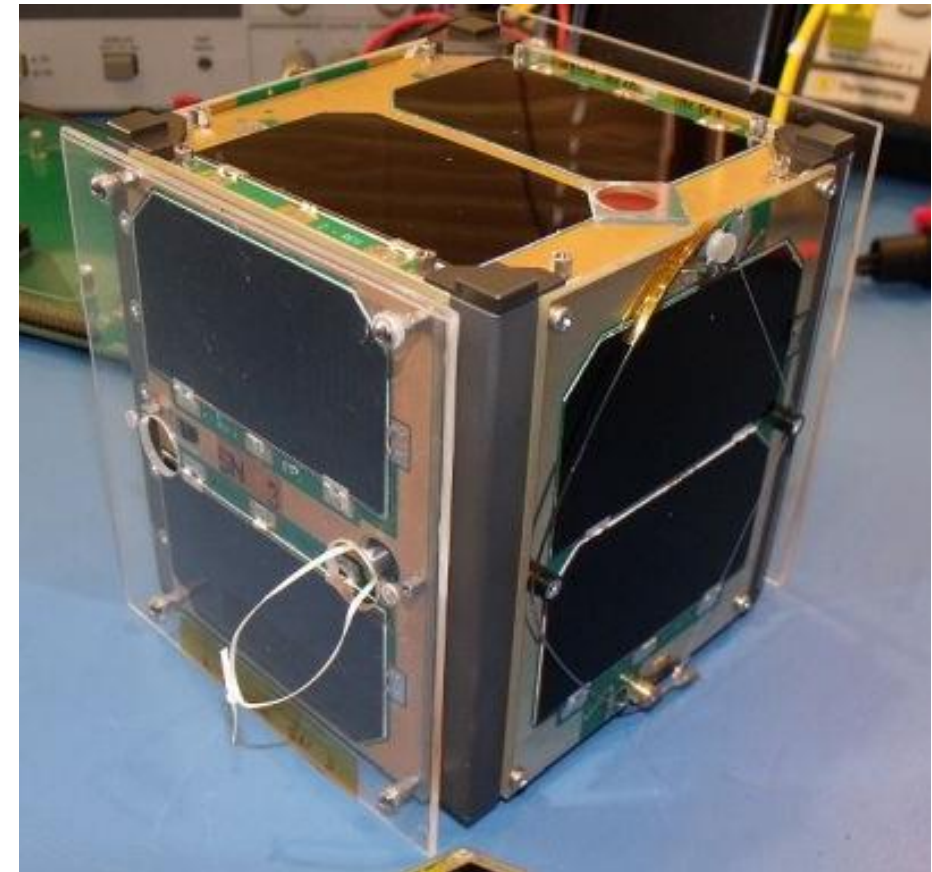
NA1SS

13 crews (series) 7/12



# AO-91, RadFxSat, Fox-1B

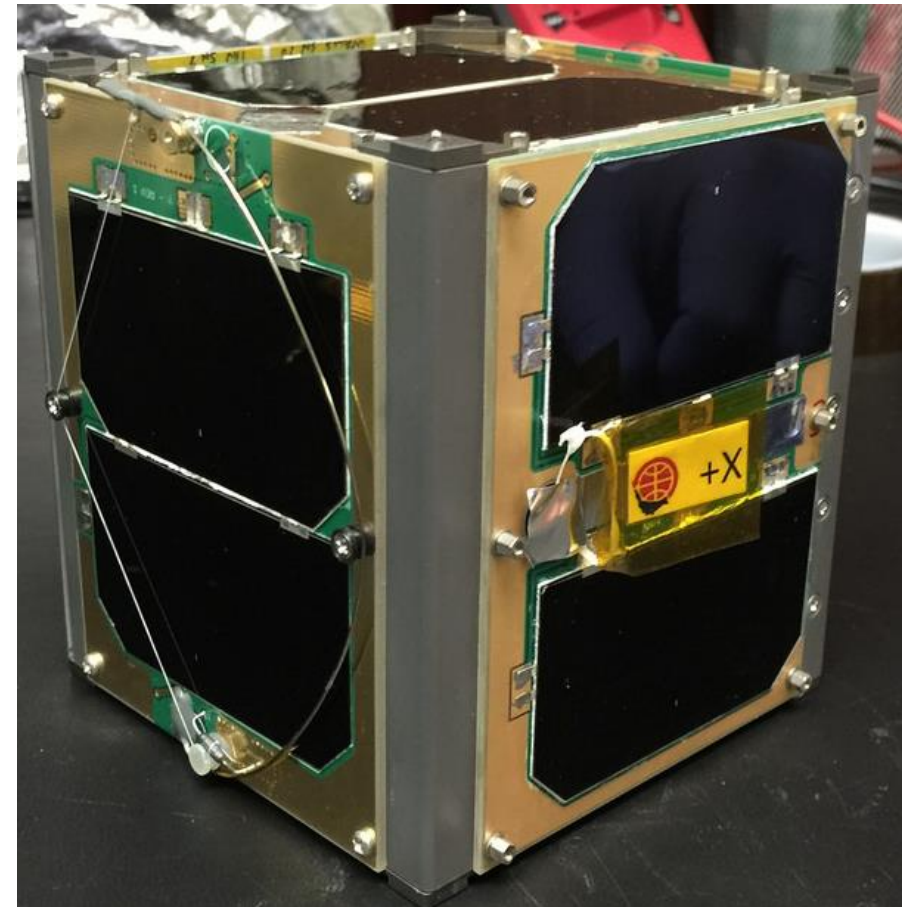
- ▶ Launched Nov 18, 2017
- ▶ Available: Nov 23, 2017
- ▶ Low-Earth orbit
- ▶ FM transponder
  - ▶ 435.250 / 145.960
  - ▶ 67.0 Hz tone
  - ▶ DUV telemetry (FoxTelem)





# AO-85, Fox-1A

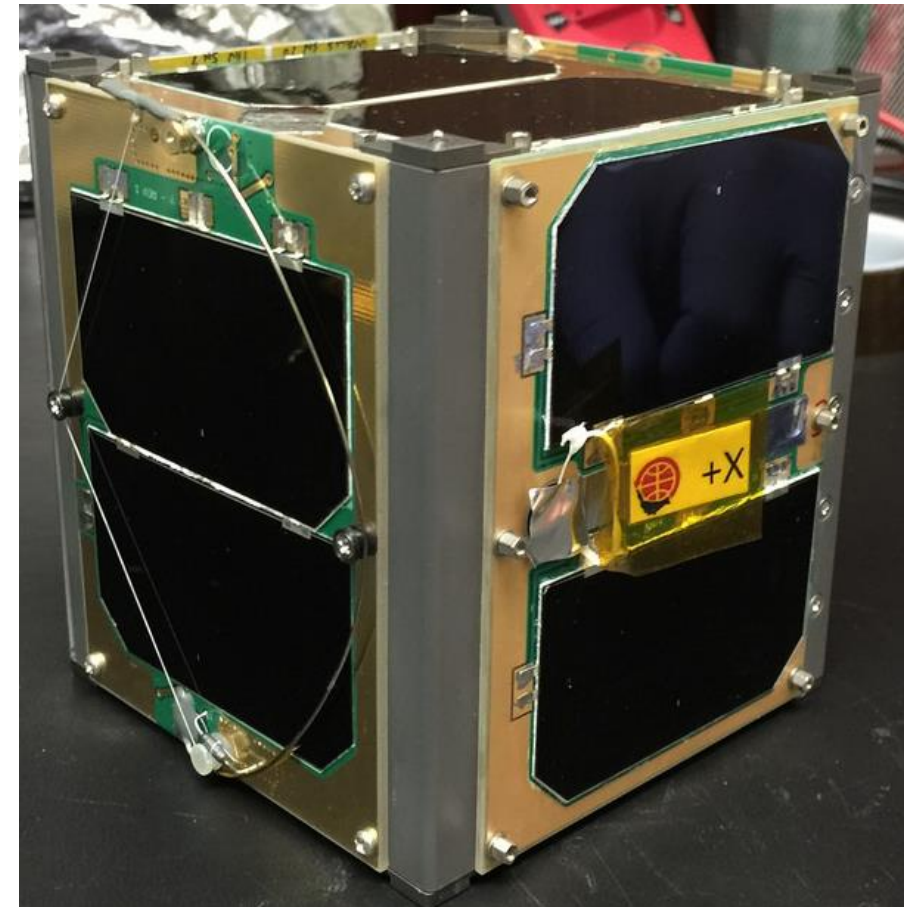
- ▶ Launched Oct 8, 2015
- ▶ Low-Earth orbit
- ▶ FM transponder
  - ▶ 435.182 / 145.980
  - ▶ 67.0 Hz tone
  - ▶ DUV telemetry (FoxTelem)





# AO-92, Fox-1D

- ▶ Launched Jan 12, 2018
- ▶ Available Jan 26, 2018
- ▶ Low-Earth orbit
- ▶ FM transponder
  - ▶ 435.350 / 145.880
  - ▶ 67.0 Hz tone
  - ▶ DUV telemetry (FoxTelem)





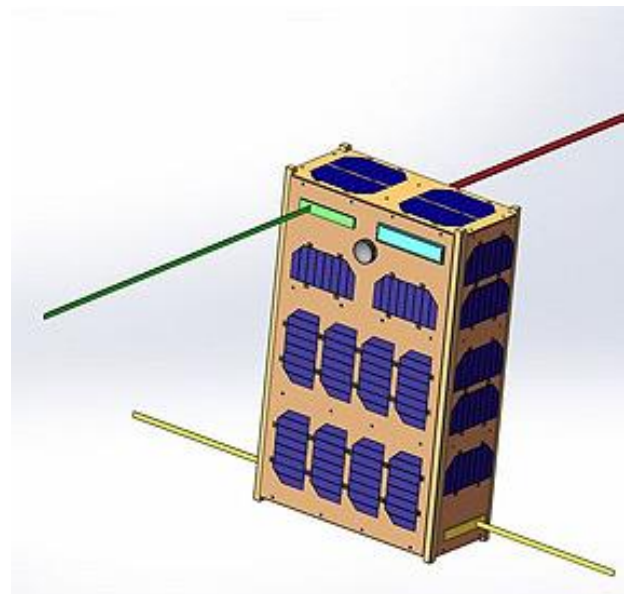
# Suitsat-1



# AO-73, FUNcube-1

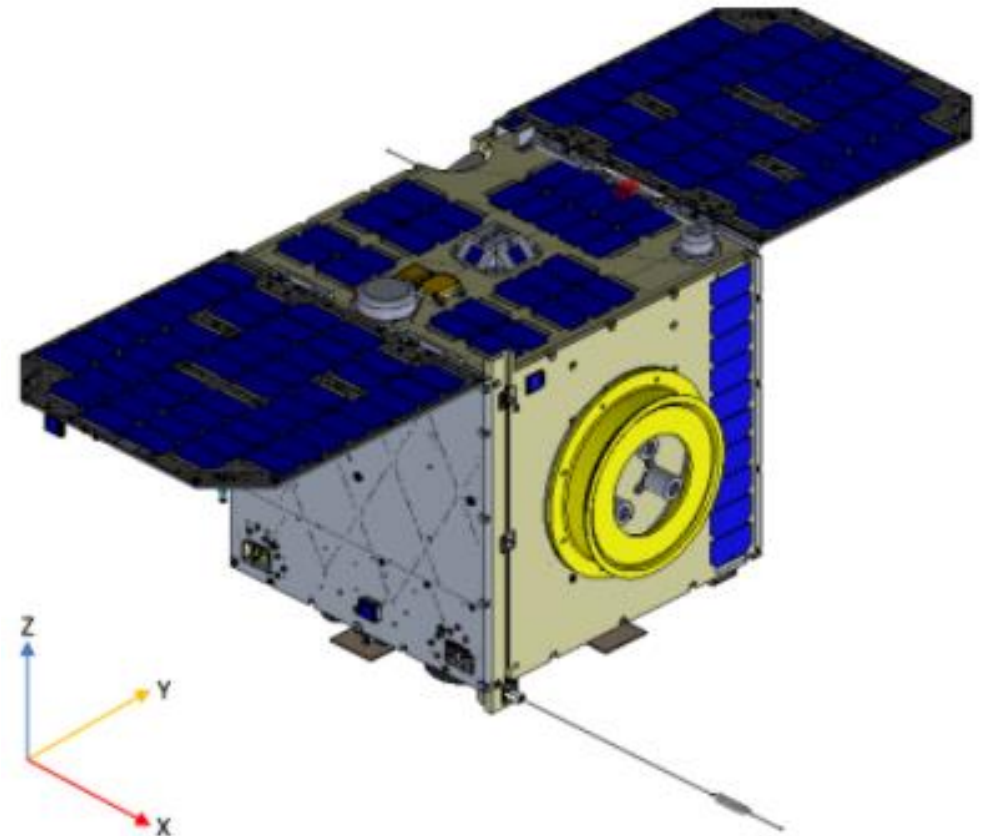
- ▶ Launched Nov 21, 2013
- ▶ Low-Earth orbit
- ▶ Inverting transponder
  - ▶ 435.150-435.130 MHz uplink
  - ▶ 145.950-145 MHz downlink
  - ▶ 145.935 MHz telemetry

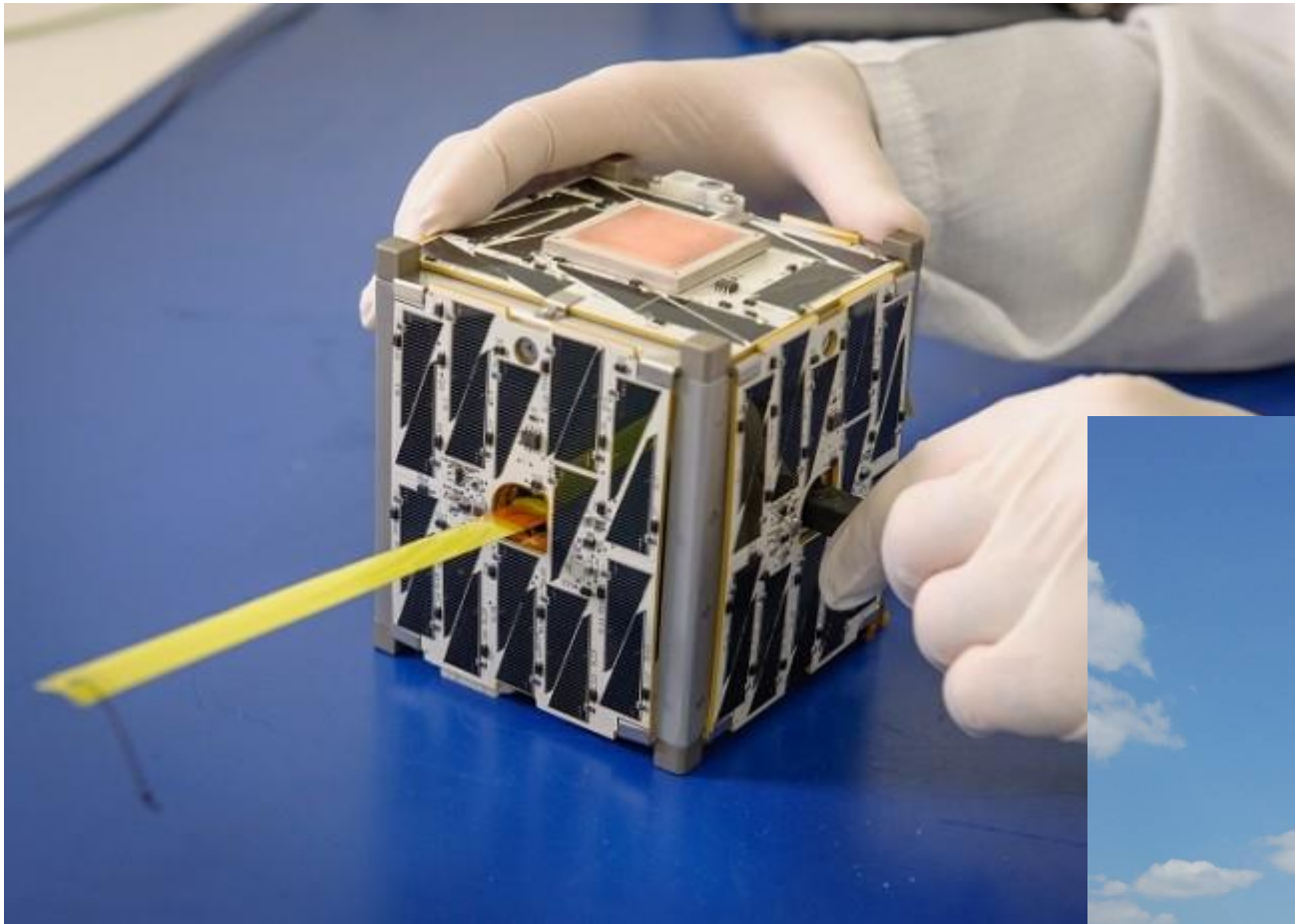




# Diwata 2, PO 101, Philippines-OSCAR 101

- ▶ Launched Oct 29, 2018
- ▶ 5U (50 cm<sup>3</sup>)
- ▶ FM transponder
  - ▶ 437.500 / 145.900
  - ▶ 141.3 Hz tone







# AMSAT FoxTelem

The screenshot displays the AMSAT FoxTelem software interface, which is used for receiving and decoding satellite telemetry. The interface is divided into several main sections:

- SDRPlay MAIN (Top Left):** Shows the current frequency as 145.879612 MHz. It includes controls for antenna selection (ANT A/B), bias-tee, and RF gain reduction. The status bar indicates a sample rate of 250000 and a final signal rate (SR) of 250000.
- SDRPlay RX CONTROL (Top Middle):** Provides mode selection (AM, SAM, FM, CW, DSB, LSB, USB, DIGITAL) and various filter and notch options. The current mode is FM, and the signal strength is -110.7 dBm.
- Orbitron 3.71 (Top Right):** A world map showing satellite orbits and ground stations. The selected satellite is AO-92, with its current position and ground station (Falconsrad) indicated. The map also shows other satellites like AO-32, AO-85, and AO-38.
- File Decoder Spacecraft Help (Middle Left):** A list of tracked spacecraft including AO-85, Fox-1Cliff, Fox-1D, Fox-1E, and RadFxSat. AO-85 is currently tracked.
- SDRPlay EX CONTROL (Middle Left):** A detailed control panel for the SDRPlay interface, including settings for bandwidth (N1-N4), frequency, and various filters (AM, FM, CW, NR, NR, NR).
- PWR & SNR TO CSV (Middle Right):** A spectrum plot showing the power spectrum of the received signal. The signal is centered at 145.879612 MHz with a power of -110.7 dBm and an SNR of 7.5 dB.
- AO-92 Data Panel (Bottom Right):** A detailed data panel for the selected satellite, showing Azimuth (57.2), Elevation (19.0), Dlink/MHz (145.880000), Receive/doppler (145.879664), and Transmit/doppler (435.351003).

The interface also includes a Windows taskbar at the bottom, showing the system time as 11:14 and the date as 2018-01-24.

# NOAA Weather Satellites on Tape

## Measure V-Dipole

