CubeSat Launch Initiative ELaNa 28, 30 and 32

Mission Name	Launch Date	Deployment Status	Rocket	Mission Description	Payload(s)	Organization(s)	Orbit
CIRiS (Compact Infrared Radiometer in Space)	12/5/19	02/01/2020 SEOPS-2 deployer on Cygnus CRS-12	Falcon 9	A 6U technology demonstration mission for improved on-orbit radiometric calibration that uses an imaging instrument designed to operate on a Cubesat. This project was sefunded under the InVEST (In-Space Validation of Earth Science Technologies) program.	Thermal infrared radiometric imaging instrument	Ball Aerospace	400 km × 400 km, 51.6°
EdgeCube	12/5/19	02/01/2020 SEOPS-2 deployer on Cygnus CRS-12	Falcon 9	An Earth-observing mission using 3P PocketQube to monitor changes in the Earth's terrestrial ecosystems due to anthropogenic and natural drivers. Specifically, it will measure change in the red edge of the leaf's reflection in vegetation chlorophyll absorption and mesophyll scattering due to seasonal leaf stress. The payload consists of six pairs of photo-sensors and filters that are pointed normal to the spin axis to scan the Earth.	Six pairs of photo-sensors and filters	Sonoma State University, Santa Clara University and Morehead State University	400 km × 400 km, 51.6°
TES-10	2/14/20	7/13/20	NG-13-Antares	A 6U mission will function as a high temperature, accurate deorbit reentry nanosatellite.	Testing exo-brake, communication devices, and radiation tolerant electronics	NASA ARC, San Jose State University and	LEO
ANDESITE	6/13/20	6/13/2020 5:12:00 GMT	Electron	This project will deploy eight free-flying sub-satellites from a 6U spacecraft to make multipoint magnetic field measurements in low Earth orbit. The goal of the mission is to study dynamics in magnetosphere-ionosphere coupling to allow for better modeling of its effects.	Magnetometers	Boston University Center for Space Physics, TriSept Corporation, NASA	500 km x 500 km, 51.6°