

Launch Campaign	Launch Provider	Mission Name	Launch Date	Deployment Status	Rocket	Mission Description	Payload(s)	Organization(s)
SpaceX Transporter-7	ELaNa 40 and 47	CIRBE (Colorado Inner Radiation Belt Experiment)	4/15/23	4/15/23	Falcon 9	This 3U mission aims to characterize the formation of the inner radiation belt electrons as well as determine where these particles come from and how they behave.	A solid-state charged particle instrument named Relativistic Electron Proton Telescope integrated little experiment – 2 (REPTile-2)	University of Colorado Boulder
		LLITED (Low-Latitude Ionosphere/Thermosphere Enhancements in Density)	4/15/23	4/15/23	Falcon 9	A mission using two 1.5U CubeSats will investigate the equatorial temperature and wind anomaly (ETWA) that occurs in the neutral atmosphere, and the equatorial ionization anomaly (EIA) that occurs in the region containing charged particles by providing coincident measurements of the duskside thermosphere/ionosphere at lower altitudes.	Miniature ionisation gauge space instrument (MIGSI), a planar ion probe (PIP), and a GPS radio occultation sensor (CTECS-A)	The Aerospace Corporation, Embry-Riddle Aeronautical University, Daytona Beach, Florida, and University of New Hampshire, Durham, New Hampshire
		Starling	7/17/23	7/17/23	Electron	Primarily a technology demonstration mission, this 6U CubeSat swarm mission will demonstrate technologies for autonomous swarm navigation.	Mobile Ad-hoc Network (MANET), Starling Formation-Flying Optical Experiment, Distributed Spacecraft Autonomy (DSA), Reconfiguration and Orbit Maintenance Experiments Onboard (ROMEO) system	Blue Canyon Technologies, LLC, NASA Ames Research Center, Stanford University