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Corrigendum: A Methodology for CubeSat Mission Selection.

Original Article at: http://www.jossonline.com/wp-content/uploads/2018/02/Request-for-Correction-Final-A-Methodology-for-CubeSat-Mission-Selection-Zea.pdf

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The appendix of this article contained mistakes on the “Note” and “Ref.” columns. The paper has been updated to include the corrected table.

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APPENDIX A: LIST OF CUBESATS 2002-AUGUST 2016

The starting point to develop this table was the lists presented in (Swartwout, 2013) and (Swartwout, 2016), from which the year, name, size and organization and result (S-success, F-failure, RF-rocket failure) were taken in part, as well as NASA's Space Science Data Center (NSSDC) Database (NASA, 2014) and the eoPortal (eoPortal, 2016). The other fields were identified in a CubeSat-by-CubeSat basis. The mission type was identified as one of the following: A-astronomy/astrophysics, BR-basic research (to conduct life or physical sciences experiments, earthquake prediction research, etc.), C-commercial (to develop a product or provide a service commercial in nature), CM-communication, E-education (to train students and/or engineers), S-science, SE-space environment, or T-technology demonstration (to increase the technology readiness level TRL of a specific technology). Some CubeSats have had more than one of these mission types, for example university missions that not only have the purpose of training its students but also conduct a scientific mission.

Table A1. List of CubeSats 2002- August 2016. This list does not include the commercial CubeSats from PlanetLabs (92, 50, and 32 in 2014, 2015, and in 2016 up to August, respectively) or from Spire (4, and 9 in 2015 and in 2016 up to August, respectively). The note column describes if the CubeSat was successful (Not Found = no information found in that regard).

Launch	Name	Size	Mission	Application	Application Details	Institution	Country	Note	Ref.
2002	MEPSI	2U	T	Technology Demonstrator	Design Testing	DARPA & Aerospace Corp.	USA	Deployed	(Krebs, 2016) (NASA, 2016)
2003	QuakeSat 1	3U	E - BR	Eartquake research	Earthquake Prediction	Stanford & QuakeFinder	USA	Success	(Bleier, 2005) (eoPortal, 2016)
2003	DTUSat 1	1U	E	Educational	De-orbiting	Technological University of Denmark	Denmark	Deployed	(Technical University of Denmark, 2016)
2003	CUTE 1	1U	E	Educational	Design Testing	Tokyo Institute of Technology	Japan	Success	(NASA, 2016)(eoPortal, 2016)
2003	AAU CUBESAT 1	1U	E	Educational	Topography	Aalborg University	Denmark	Deployed	(NASA, 2016)
2003	CanX 1	1U	E	Educational	Design testing	University of Toronto	Canada	Success	(NASA, 2016) (eoPortal, 2016)
2003	XI-IV	1U	E	Educational	Nano-technology testing	University of Tokyo	Japan	Partial Success	(NASA, 2016) (University of Tokyo, 2016)
2005	UWE-1	1U	E	Educational	Internet protocols testing	University of Wurzburg	Germany	Success	(Krebs, 2016) (NASA, 2016) (eoPortal, 2016)

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Launch	Name	Size	Mission	Application	Application Details	Institution	Country	Note	Ref.
2005	XI-V	1U	E	Educational	Nano-technology testing, Solar Cells	University of Tokyo	Japan	Success	(NASA, 2016) (University of Tokyo, 2016)
2005	Ncube 2	1U	E	Educational	Ship Tracking, Animal Population Dynamics	Multiple universities	Norway	Failed to Deploy	(Krebs, 2016)
2006	CUTE 1.7	2U	E	Educational	Design Testing	Tokyo Institute of Technology	Japan	Established Communications	(NASA, 2016) (eoPortal, 2016)
2006	AeroCube 1	1U	T	Technology Demonstrator	N/A	Aerospace Corporation	USA	Launch Failure	(Krebs, 2016)
2006	CP 1	1U	E	Educational	ADCS (Magnetorquer), Power (Sun sensors)	CalPoly	USA	Launch Failure	(Krebs, 2016)
2006	CP 2	1U	E	Educational	Power (Energy Dissipation)	CalPoly	USA	Launch Failure	(Krebs, 2016)
2006	HAUSAT 1	1U	E	Educational	GPS, Deployable Solar Panels, Sun Sensors	Hankuk Aviation University	South Korea	Launch Failure	(Krebs, 2016) (Chang et al., 2006)
2006	ICECube 1	1U	E - SE	Educational	Ionosphere	Cornell & California Polytechnic State University	USA	Launch Failure	(Krebs, 2016)
2006	ICECube 2	1U	E - S	Educational	Ionosphere	Cornell & California Polytechnic State University	USA	Launch Failure	(Krebs, 2016)
2006	ION	2U	E - S	Propulsion and Earth Observation	Propulsion, Ozone and trace gases	University of Illinois & Alameda Applied Sciences Corp.	USA	Launch Failure	(Krebs, 2016)
2006	KUTESat Pathfinder	1U	E - S	Educational	Radiation Budget	University of Kansas	USA	Launch Failure	(Krebs, 2016)
2006	Mea Huaka'i	1U	E - T	Educational	Communications and data capabilities	University of Hawaii	USA	Launch Failure	(Krebs, 2016)
2006	MEROPE	1U	E - S	Educational	Radiation Belts	Montana State University	USA	Launch Failure	(Krebs, 2016)
2006	Ncube 1	1U	E	Educational	Ship Tracking, Animal Population Dynamics	Multiple universities	Norway	Launch Failure	(Krebs, 2016)
2006	Rincon 1	1U	E	Educational	Communications and data capabilities	University of Arizona	USA	Launch Failure	(Krebs, 2016)
2006	SACRED	1U	E / C	Educational & Commercial	COTS components test	University of Arizona, Montpellier University and AlcaTel Space Systems	USA / France	Launch Failure	(Krebs, 2016)
2006	SEEDS	1U	E	Educational	Communications	Nihon Universities	Japan	Launch Failure	(Krebs, 2016)
2006	HIT-Sat	1U	E	Educational	Design Testing (Bus)	Hokkaido Institute of Technology	Japan	Success	(Krebs, 2016) (NASA, 2016) (eoPortal, 2016)
2006	GeneSat-1	3U	S	Space Life Sciences	Space Life Sciences (effects of gravity on biological cultures)	NASA Ames	USA	Success	(NASA, 2010) (Kitts et al., 2006) (Kitts et al., 2006)
2006	MEPSI 2	2U	T	Technology Demonstrator	Design Testing	DARPA & Aerospace Corp.	USA	Success	(NASA, 2016)

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Launch	Name	Size	Mission	Application	Application Details	Institution	Country	Note	Ref.
2007	AeroCube 2	1U	T	Technology Demonstrator	De-orbiting	Aerospace Corporation	USA	Failed	(Krebs, 2016)
2007	CAPE 1	1U	SE	Technology Demonstrator	Ionosphere	University of Louisiana	USA	Success	(Krebs, 2016)
2007	CP3	1U	T	Technology Demonstrator	ADCS (Magnetorquer)	Cal Poly	USA	Failed	(Krebs, 2016)
2007	CP4	1U	T	Technology Demonstrator	Power (Energy Dissipation)	Cal Poly	USA	Failed to Launch	(Krebs, 2016)
2007	CSTB 1	1U	BR-CM	Techical Research	Communications	Boeing	USA	Success	(eoPortal, 2016)
2007	LIBERTAD 1	1U	E	Educational	Communications (Telemetry)	University of Sergio Arboleda	Colombia	Failed	(Krebs, 2016)
2007	MAST	3U	T	Technology Demonstrator	Space Technology testing	Tethers Unlimited. Inc.; Pumpkin. Inc. (bus)	USA	Partial Success	(Krebs, 2016)
2008	AAUSAT 2	1U	E	Educational	ADCS, X-Ray measurments	University of Aalborg	Denmark	Success	(Krebs, 2016)
2008	CanX 2	3U	T	Technology Demonstrator	ADCS, GPS, Propulsion	UTIAS (University of Toronto)	Canada	Success	(eoPortal, 2016)
2008	COMPASS-1	1U	T	Technology Demonstrator	GPS, Topography, ADCS	Fachhochschule Aachen	Germany	Success	(eoPortal, 2016)
2008	Delfi C3	3U	T	Technology Demonstrator	Lighting Detection	Technical University of Delft	Netherlands	Success	(eoPortal, 2016)
2008	SEEDS 2	1U	T	Technology Demonstrator	Communications and data capabilities (Protocols)	Nihon University	Japan	Success	(eoPortal, 2016)
2008	NanoSail D	3U	T	Technology Demonstrator	Propulsion	NASA Ames	USA	Failed	(Krebs, 2016)
2008	PreSat	3U	T-BR	Technology Demonstrator	Space Life Sciences	NASA Ames	USA	Failed to Launch	(Krebs, 2016)
2008	PSSC-Testbed 1	2U	T	Technology Demonstrator	Space Physical Sciences (radiation degradation of solar cells)	Aerospace Corporation	USA	Success	(eoPortal, 2016)
2009	KKS 1 (Kiseki)	1U	T	Technology Demonstrator	Propulsion, Topography, ADCS	Tokyo Metropolitan College of Industrial Technology	Japan	Established Communications	(Krebs, 2016)
2009	AeroCube 3	1U	T	Technology Demonstrator	Bus performance, photograph launch vehicle	Aerospace Corporation	USA	Success	(eoPortal, 2016)
2009	CP 6	1U	T	Technology Demonstrator	ADCS (Magnetometers)	Cal Poly	USA	Not found	
2009	HawkSat 1	1U	civ	Technology Demonstrator	Space Physical Sciences	Hawk Institute for Space Sciences	USA	Deployed	(Krebs, 2016)
2009	PharmaSat	3U	T	Technology Demonstrator	Space Life Sciences	Stanford University	USA	Success	(eoPortal, 2016)
2009	Bevo 1	1U	T	Technology Demonstrator	GPS	University of Texas	USA	Failed to separate	(Krebs, 2016)
2009	AggieSat 2	1U	T	Technology Demonstrator	GPS	Texas A&M University	USA	Failed to separate	(Krebs, 2016)
2009	BeeSat-1	1U	T	Technology Demonstrator	ADCS (Micro-reaction wheels)	Technical University of Berlin	Germany	Success	(eoPortal, 2016)
2009	ITUpSAT-1	1U	E	Technology Demonstrator	ADCS, Capture images	Istanbul Technical University	Turkey	Success	(NASA, 2016) (eoPortal, 2016)
2009	SwissCube 1	1U	S	Space Environment	Ozone and trace gases (airglow phenomena)	EPFL	Switzerland	Success	(eoPortal, 2016)
2009	UWE-2	1U	E	Technology Demonstrator	ADCS, GPS	University of Wurzburg	Germany	Deployed	(NASA, 2016)

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Launch	Name	Size	Mission	Application	Application Details	Institution	Country	Note	Ref.
2010	Hayato (K-SAT)	1U	CM	Educational	Communications and data capabilities	Kagoshima University	Japan	Failed	(Krebs, 2016)
2010	Negai-Star (Negai-Boshi)	1U	E-T	Technology Demonstrator	Design Testing (FPGA)	Soka University	Japan	Success	(Krebs, 2016)
2010	Waseda-SAT2	1U	E-T	Technology Demonstrator	Topography	Waseda University	Japan	Failed	(Krebs, 2016)
2010	StudSat-1	1U	E	Earth Observation- Land	Topography	Indian University Consortium	USA	Partial Success	(eoPortal, 2016)
2010	TISat-1	1U	E	Educational	Electronics Degradation (Degradation in space environment)	Scuola universitaria della Svizzera italiana	Switzerland	Success	(eoPortal, 2016)
2010	O/OREOS	3U	S	Basic Reasearch	Space Life Sciences	NASA Ames	USA	Success	(eoPortal, 2016)
2010	RAX 1	3U	S	Earth Observation	Ionosphere	University of Michigan	USA	Success	(eoPortal, 2016)
2010	Mayflower-Caerus	3U	E-T	Technology Demonstrator	Design Testing	University of Southern California	USA	Success	(Krebs, 2016)
2010	Perseus 000	1.5U	T	Technology Demonstrator	Design Testing	Los Alamos National Laboratory	USA	Success	(Krebs, 2016),
2010	Perseus 001	1.5U	T	Technology Demonstrator	Design Testing	Los Alamos National Laboratory	USA	Success	(Krebs, 2016),
2010	Perseus 002	1.5U	T	Technology Demonstrator	Design Testing	Los Alamos National Laboratory	USA	Success	(Krebs, 2016),
2010	Perseus 003	1.5U	T	Technology Demonstrator	Design Testing	Los Alamos National Laboratory	USA	Success	(Krebs, 2016),
2010	QbX 1	3U	T	Technology Demonstrator	Communications	Naval Research Laboratory	USA	Success	(eoPortal, 2016)
2010	QbX 2	3U-C1	T	Technology Demonstrator	Communications	Naval Research Laboratory	USA	Success	(eoPortal, 2016)
2010	SMDC ONE	3U	CM	Technology Demonstrator	Communications and data capabilities (Data relay)	MilTec	USA	Success	(eoPortal, 2016)
2011	NanoSail-D2	3U	T	Technology Demonstrator	Propulsion	NASA Ames	USA	Success	(eoPortal, 2016)
2011	E1P (Explorer 1 Prime)	1U	E-T	Technology and Software Demonstrator	Radiation Belts	Montana State University	USA	Failed to Launch	(Krebs, 2016)
2011	Hermes	1U	E	Educational	Communications and data capabilities (S-band)	Colorado Space Grant Consortium	USA	Failed to Launch	(Krebs, 2016)
2011	KySat-1	1U	E	Educational	Communications and data capabilities	Kentucky Space	USA	Failed to Launch	(Krebs, 2016)
2011	PSSC-2	2U	T	Technology Demonstrator	Ionosphere, Vehicle Tracking	Aerospace Corporation	USA	Success	(Hinkley & Hardy, 2012)
2011	Jugnu	3U	E	Educational	Imaging IR	Indian Institute of Technology Kanpur	India	Not found	
2011	AubieSat-1	1U	E-T	Technology Demonstrator	Power (Solar cell coatings)	Auburn University	USA	Success	(Krebs, 2016)
2011	DICE 1	1.5U	E-SE	Educational	Ionosphere	Utah State University	USA	Success	(eoPortal, 2016)
2011	DICE 2	1.5U	E-SE	Educational	Ionosphere	Utah State University	USA	Success	(eoPortal, 2016)
2011	E1P-2 (Explorer-1 Prime)	1U	E	Educational	Radiation Budget (Van Allen)	University of Michigan	USA	Failed to separate	(Krebs, 2016)
2011	M-Cubed	2U	E	Educational	Imaging	Montana State University	USA	Failed to separate	(Krebs, 2016)

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Launch	Name	Size	Mission	Application	Application Details	Institution	Country	Note	Ref.
2011	RAX-2	3U	E	Educational	Ionosphere	University of Michigan	USA	Partial Success	(eoPortal, 2016)
2012	E-ST@R	1U	E-T	Technology Demonstrator	ADCS	Politecnico di Torino	Italy	Partial Success	(eoPortal, 2016)
2012	GOLIAT	1U	E-SE	Educational	Topography, Electronics Degradation, Radiation Budget	University of Bucharest	Romania	Failed	(Krebs, 2016)
2012	MaSat-1	1U	E-T	Technology Demonstrator	Imaging	Budapest University of Technology and Economics	Hungary	Success	(eoPortal, 2016)
2012	PW-Sat 1	1U	E-BR	Educational	De-orbiting	Warsaw University of Technology	Poland	Partial Success	(Krebs, 2016)
2012	Robusta 1	1U	E-BR	Educational	Electronics Degradation (Radiation)	University of Montpellier II	France	Failed	(Krebs, 2016)
2012	UniCubeSat-GG	1U	E-T	Technology Demonstrator	ADCS	University of Rome "La Sapienza"	Italy	Failed	(Krebs, 2016)
2012	XaTcobeo	1U	E-T-BS	Technology Demonstrator	Ionosphere, Communications	University of Vigo	Spain	Not Found	
2012	Aeneas	3U-C	E-T	Technology Demonstrator	Vehicle Tracking	University of Southern California	USA	Established Communications	(Swartwout, 2016)
2012	AeroCube 4A	1U	T	Technology Demonstrator	N/A	Aerospace Corporation	USA	Success	(eoPortal, 2016)
2012	AeroCube 4B	1U	T	Technology Demonstrator	N/A	Aerospace Corporation	USA	Success	(eoPortal, 2016)
2012	AeroCube 4C	1U	T	Technology Demonstrator	De-orbiting, Launch conditions (Vibrations)	Aerospace Corporation	USA	Success	(eoPortal, 2016)
2012	CINEMA 1	3U	A-SE-T	Technology Demonstrator	Space Weather observations	CINEMA consortium	USA	Established Communications	(Swartwout, 2016)
2012	CP5	1U	T	Technology Demonstrator	De-orbiting	Cal Poly	USA	Not found	
2012	CSSWE	3U	SE-T	Technology Demonstrator	Solar Activity, radiation belts	University of Boulder Colorado	USA	Success	(Krebs, 2016)
2012	CXBN	2U	A- SE-T	Technology Demonstrator	X-Ray measurments	Kentucky Space	USA	Partial Success	(eoPortal, 2016)
2012	Re (STARE-A)	3U	T	Technology Demonstrator	Space Objects detection	Lawrence Livermore National Laboratory	USA	Partial Success	(Krebs, 2016)
2012	SMDC ONE 2.1	3U	CM- T	Communications	Communications and data capabilities (Data relay)	MilTec	USA	Success	(eoPortal, 2016)
2012	SMDC ONE 2.2	3U	CM- T	Communications	Communications and data capabilities (Data relay)	MilTec	USA	Success	(eoPortal, 2016)
2012	F1	1U	E	Educational	ADCS, Topography	FPT Technology Research Institute	Vietnam	Failed	(Pe0sat, 2016)
2012	FITSat-1 (Niwaka)	1U	T	Technology Demonstrator	Communications and data capabilities	Fukuoka Institute of Technology	Japan	Success	(eoPortal, 2016)
2012	Raiko	2U	E-T	Educational and Technology Demonstrarion	Imaging, Communications, deorbit	Tohoku University	Japan	Success	(eoPortal, 2016)
2012	TechEdSat	1U	E-CM	Educational	Communications, Design testing	San Jose State University	USA	Success	(eoPortal, 2016)
2012	WE WISH	1U	CM	Communications	Surface Temperature	Meisei Electric Co	Japan	Failed	(Krebs, 2016)
2013	AAUSAT 3	1U	E	Educational	Vehicle Tracking	University of Aalborg	Denmark	Success	(eoPortal, 2016)

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Launch	Name	Size	Mission	Application	Application Details	Institution	Country	Note	Ref.
2013	STRaND-1	3U	T	Technology Demonstrator	Design Testing (OBC design using a cellphone)	University of Surrey	England	Success	(eoPortal, 2016)
2013	BeeSat-2	1U	T	Technology Demonstrator	ADCS, GPS	Technical University of Berlin	Germany	Success	(eoPortal, 2016)
2013	BeeSat-3	1U	T	Technology Demonstrator	Communications, new S-Band Transmitter	Technical University of Berlin	Germany	Success	(eoPortal, 2016)
2013	Dove 2	3U	T	Technology Demonstrator	Imaging, design testing	Planet Labs	USA	Success	(eoPortal, 2016)
2013	OSSI-1	1U	CM-T	Communications	Communications and data capabilities	Hojun Song	South Korea	Failed	(Krebs, 2016)
2013	SOMP	1U	E-T	Educational, Technology Demonstration	Ozone and trace gases	Technical University of Dresden	Germany	Established Communications	(Krebs, 2016) (Swartwout, 2016)
2013	PhoneSat-1a	1U	T	Technology Demonstrator	Design Testing (OBC design)	NASA Ames	USA	Success	(eoPortal, 2016)
2013	PhoneSat-1b	1U	T	Technology Demonstrator	Design Testing (OBC design)	NASA Ames	USA	Success	(eoPortal, 2016), (Krebs, 2016)
2013	PhoneSat-1c	1U	T	Technology Demonstrator	Design Testing (OBC design)	NASA Ames	USA	Success	(eoPortal, 2016), (Krebs, 2016)
2013	Dove 1	3U	T	Technology Demonstrator	Imaging, design testing	Planet Labs	USA	Success	(Krebs, 2016)
2013	CubeBug-1	2U	T	Technology Demonstrator	Topography, Design testing	Ministry of Science Technology & Productive Innovation	Argentina	Established Communications	(Krebs, 2016) (Swartwout, 2016)
2013	NEE-01 Pegasus	1U	T-E-BR	Educational, Technology Demonstration	Design Testing, Topography (Real-time video transmission)	EXA	Ecuador	Success	(Krebs, 2016)
2013	TurkSat-3USat	3U	CM	Communications	Communications and data capabilities (Data relay)	Istanbul Technical University	Turkey	Success	(Pe0sat, 2016)
2013	ESTCube-1	1U	T	Technology Demonstrator	Propulsion	University of Tartu	Estonia	Success	(ESTCUBE, 2016) (eoPortal, 2016)
2013	POPACS (1, 2 & 3)	3U	SE	Scientific Research	Ozone and trace gases measure the changes in density of the auroral zone upper atmosphere, in response to various solar stimuli	Utah State University	USA	Success	(eoPortal, 2016)
2013	ArduSat 1	1U	T	Technology Demonstrator	Topography, Design testing (Amateur arduino experiments)	NanoSatisfi	Japan	Established Communications	(eoPortal, 2016)
2013	ArduSat X	1U	T	Technology Demonstrator	Topography, Design testing (Amateur arduino experiments)	NanoSatisfi	Japan	Not Found	
2013	PicoDragon	1U	T	Technology Demonstrator	Imaging	Vietnam National Satellite Center	Vietnam	Partial Success	(Krebs, 2016) (VNSC, 2015)
2013	Black Knight-1	1U	T	Technology Testing	ADCS	US Military Academy	USA	Failed	(Krebs, 2016)
2013	CAPE-2	1U	BR	Technology Demonstrator	Power (Deployable Panels), Communications	University of Louisiana	USA	Not Found	
2013	ChargerSat-1	1U	T	Technology Testing	Power, ADCS, Communications	University of Alabama-Huntsville	USA	Failed	(Krebs, 2016)

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Launch	Name	Size	Mission	Application	Application Details	Institution	Country	Note	Ref.
2013	COPPER	1U	T	Technology Testing	Surface Temperature, Electronics Degradation	Saint Louis University	USA	Failed	(Krebs, 2016)
2013	DragonSat-1	1U	SE	Scientific Research	Radiation Budget	Drexel University	USA	Failed	(Krebs, 2016)
2013	Firefly	3U	SE	Scientific Research	Lightning Detection	NASA Goddard	USA	Not Found	
2013	Ho'oponopono-2	3U	T	Technology Testing	General Astronomy (Ephemeris data), Space Objects Detection	University of Hawaii	USA	Failed	(Krebs, 2016)
2013	Horus (STARE-B)	3U	T	Technology Demonstrator	ADCS, Space Objects detection	Lawrence Livermore National Laboratory	USA	Failed	(Krebs, 2016)
2013	KySat-2	1U	T	Technology Demonstrator	Space Imaging	Kentucky Space	USA	Partial Success	(eoPortal, 2016)
2013	Lunar	1U	T	Technology Testing	General Astronomy (Lunar orbit)	Vermont Technical College	USA	Not Found	
2013	NPS-SCAT	1U	E - T	Technology Testing/Educational	Power (Solar cell testing)	Naval Postgraduate School	USA	Established Communications	(eoPortal, 2016)
2013	ORS Tech 1	3U	T	Technology Demonstrator	Design Testing	Johns Hopkins APL	USA	Success	(Krebs, 2016) (eoPortal, 2016)
2013	ORS Tech 2	3U	T	Technology Demonstrator	Design Testing	Johns Hopkins APL	USA	Success	(Krebs, 2016) (eoPortal, 2016)
2013	ORSES	3U	T	Technology Testing	Communications and data capabilities	MilTec	USA	Partial Success	(Krebs, 2016)
2013	PhoneSat 2.4	1U	T	Technology Development	Design Testing	NASA Ames	USA	Established Communications	(PhoneSat, 2014)
2013	Prometheus 1.1	1.5U	T	Technology Development	Communications and data capabilities (Data relay)	Los Alamos National Laboratory	USA	Not Found	
2013	Prometheus 1.2	1.5U	T	Technology Development	Communications and data capabilities (Data relay)	Los Alamos National Laboratory	USA	Not Found	
2013	Prometheus 2.1	1.5U	T	Technology Development	Communications and data capabilities (Data relay)	Los Alamos National Laboratory	USA	Not Found	
2013	Prometheus 2.2	1.5U	T	Technology Development	Communications and data capabilities (Data relay)	Los Alamos National Laboratory	USA	Not Found	
2013	Prometheus 3.1	1.5U	T	Technology Development	Communications and data capabilities (Data relay)	Los Alamos National Laboratory	USA	Not Found	
2013	Prometheus 3.2	1.5U	T	Technology Development	Communications and data capabilities (Data relay)	Los Alamos National Laboratory	USA	Not Found	
2013	Prometheus 4.1	1.5U	T	Technology Development	Communications and data capabilities (Data relay)	Los Alamos National Laboratory	USA	Not Found	
2013	Prometheus 4.2	1.5U	T	Technology Development	Communications and data capabilities (Data relay)	Los Alamos National Laboratory	USA	Not Found	
2013	SENSE SV-1	3U	SE	Scientific Research	Ionosphere	Boeing	USA	Success	(Krebs, 2016)
2013	SENSE SV-2	3U	SE	Scientific Research	Weather observation	Boeing	USA	Success	(Krebs, 2016)
2013	Trailblazer (SPA-1)	1U	T	Technology Demonstrator	Design Testing, Design testing (Bus)	University of New Mexico	USA	Failed	(Krebs, 2016)
2013	SwampSat	1U	T	Technology Development	ADCS (Gyroscope)	University of Florida	USA	Failed	(Krebs, 2016)
2013	TechEdSat-3	3U	T	Technology Demonstrator	De-orbiting	San Jose State University	USA	Not Found	
2013	TJ3Sat	1U	T	Technology Demonstrator	Communications (Telemetry)	Thomas Jefferson High School	USA	Failed	(Krebs, 2016)

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Launch	Name	Size	Mission	Application	Application Details	Institution	Country	Note	Ref.
2013	CINEMA 2	3U	SE	Scientific Research	Space Weather observations	KyungHeeUniversity	South Korea	Failed	(Krebs, 2016)
2013	CINEMA 3	3U	SE	Scientific Research	Space Weather observations	KyungHeeUniversity	South Korea	Failed	(Krebs, 2016)
2013	CubeBug-2	2U	T	Technology Demonstrator	Design Testing (COTS components)	Ministry of Science Technology & Productive Innovation		Not Found	
2013	Delfi-n3Xt	3U	T	Technology Demonstrator	Propulsion	Technical University of Delft	Netherlands	Success	(eoPortal, 2016)
2013	Dove 4	3U	T	Technology Demonstrator	Topography	Planet Labs	USA	Failed to Deploy	(Krebs, 2016)
2013	First-MOVE	1U	T	Technology Testing	Topography	Technical University of Munich	Germany	Partial Success	(eoPortal, 2016)
2013	FUNcube 1	1U	E	Educational	Communications	Amsat-UK	UK	Success	(FUNcube, 2013)
2013	GATOSS (GOMX 1)	2U	T	Technology Testing	Vehicle Tracking	GOMSpace	Denmark	Success	(Hinkley & Hardy, 2012)
2013	HiNCube	1U	E	Educational	Topography	Narvik University College	Norway	Failed	(Krebs, 2016)
2013	HumSat-D	1U	T	Technology Testing	Communications and data capabilities (Data relay)	University of Vigo	Spain	Not Found	
2013	iCube-1	1U	T	Technology Testing	Space Life Sciences	Institute of Space Technology Islamabad	Pakistan	Failed	(Krebs, 2016)
2013	NEE 02 Krysaor	1U	SE	Scientific Research	Space Objects detection, Communications and data capabilities (Data relay)	EXA	Ecuador	Success	(Krebs, 2016) (Agencia Espacial Civil Ecuatoriana, 2015)
2013	OPTOS	3U	T	Technology Demonstrator	Design Testing	INTA	Spain	Established Communications	(Krebs, 2016)
2013	PUCP-Sat 1	1U	T	Technology Demonstrator	Surface Temperature	Pontifical Catholic University of Peru	Peru	Established Communications	(eoPortal, 2016)
2013	Triton 1	3U	T	Technology Testing	Vehicle Tracking	ISIS-BV	UK	Not Found	
2013	UWE-3	1U	T	Technology Development	ADCS	University of Würzburg	Germany	Not Found	
2013	VELOX-P2	1U	T	Technology Testing	ADCS, sun sensor	Nanyang Technological University	Singapore	Success	(eoPortal, 2016)
2013	ZACUBE 1	1U	SE	Scientific Research	Ionosphere	Cape Peninsula University of Technology	South Africa	Success	(eoPortal, 2016)
2013	AeroCube 5a	1U	T	Technology Demonstrator	Point and track capabilities, De-orbiting	Aerospace Corporation	USA	Not Found	
2013	AeroCube 5b	1U	T	Technology Demonstrator	Point and track capabilities, De-orbiting	Aerospace Corporation	USA	Not Found	
2013	ALICE	3U	T	Technology Testing	Propulsion	Air Force Institute of Technology	USA	Not Found	
2013	CUNYSAT-1	1U	SE	Scientific Research	Ionosphere	City University of New York	USA	Failed	(Krebs, 2016)
2013	FIREBIRD IA	1.5U	SE	Scientific Research	Radiation Belts	Montana State University	USA	Success	(FIREBIRD, 2013) (eoPortal, 2016)

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2013	FIREBIRD IB	1.5U	SE	Scientific Research	Radiation Belts	Montana State University	USA	Success	(FIREBIRD, 2013) (eoPortal, 2016)
2013	IPEX	3U	T	Technology Testing	Communications and data capabilities	Cal Poly	USA	Success	(Krebs, 2016) (eoPortal, 2016)
2013	MCubed-2	1U	BR	Educational	Weather observation	University of Michigan	USA	Success	(Krebs, 2016) (eoPortal, 2016)
2013	SMDC ONE 3.1	3U	T	Technology Demonstrator	Communications and data capabilities (Data relay)	MilTec	USA	Not Found	
2013	SMDC ONE 3.2	3U	T	Technology Demonstrator	Communications and data capabilities (Data relay)	MilTec	USA	Not Found	
2013	SNAP-1	1U	T	Technology Demonstrator	Space Objects detection	Naval Postgraduate School	USA	Success	(eoPortal, 2016)
2013	TacSat-6	3U	T	Technology Demonstrator	Communications and data capabilities	AFRL	USA	Not Found	
2014	Perseus-M 1	6U	BR	Scientific Research	Vehicle Tracking	Canopus Systems US	Russia/USA	Not Found	
2014	Perseus-M 2	6U	BR	Scientific Research	Vehicle Tracking	Canopus Systems US	Russia/USA	Not Found	
2014	ANTELSat	2U	E	Educational	Imaging	Universidad de la Republica	Uruguay	Success	(AMSAT, 2016) (Ruggiero,2014) (UDELAR, 2015)
2014	ArduSat 2	2U	E	Educational	Topography, Design testing (Amateur arduino experiments)	NanoSatisfi	USA	Deployed	(Krebs, 2016)
2014	Chasqui 1	1U	E	Technology Demonstrator	Topography, Surface temperature	Universidad Nacional de Ingeniería del Perú	Peru	Deployed	(Martínez,2015) (Krebs, 2016)
2014	Duchifat 1	1U	E	Educational	Communications and data capabilities (Data relay)	Space Laboratory of the Herzliya Science Centre	Israel	Success	(Heller,2012) (Krebs, 2016)
2014	IFT-1	1U	E	Educational	Communications (Telemetry)	University of Tsukuba	Japan	Deployed	(AMSAT-UK, 2016)
2014	INVADER	1U	E	Educational	Artistic Missions	Tama Art University	Japan	Success	(ARTSAT, 2014)
2014	LitSat-1	1U	E	Technology Demonstrator	Topography, Communications	Kaunas University of Technology	Lithuania	Success	(LitSat-1,2014)
2014	LituanicaSAT-1	1U	E	Technology Demonstrator	Communications and data capabilities (Data relay), Design Testing, Earth Imaging	University of Vilnius	Lithuania	Success	(Lithuanica,2014) (eoPortal, 2016)
2014	PACE	2U	E	Educational	ADCS	National Cheng Kung University	Taiwan	Deployed	(Krebs, 2016)
2014	PolyITAN 1	1U	E	Educational	ADCS, GPS, Communications	National Technical University of Ukraine	Ukraine	Not Found	
2014	UAPSat-1	1U	E	Educational	Communications (Telemetry)	Pontifical Catholic University of Peru	Peru	Deployed	(Krebs, 2016)
2014	SkyCube	1U	BR	Scientific Research	Topography	Southern Stars Group LLC	USA	Deployed	(Krebs, 2016)
2014	AeroCube 6A	0.5U	T	Technology Demonstrator	Radiation Budget	Aerospace Corporation	USA	Not Found	

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2014	AeroCube 6B	0.5U	T	Technology Demonstrator	Radiation Budget	Aerospace Corporation	USA	Not Found	
2014	ALL-STAR/THEIA	3U	BR	Scientific Research	Toporgraphy	Colorado Space Grant Consortium	USA	Deployed	(All-Star,2014) (Krebs, 2016)
2014	DTUSat-2	1U	BR	Scientific Research	Animal population dynamics	Danmarks Tekniske Universitet	Denmark	Deployed	(Fléron,2013)
2014	NanoSatC-Br1	1U	BR	Scientific Research	Magnetic Field	INPE Southern Regional Space Research Center	Brazil	Established Communications	(Krebs, 2016)
2014	SporeSat	3U	BR	Scientific Research	Space Life Sciences	NASA Ames and Department of Agricultural and Biological Engineering at Perdue University	USA	Success	(eoPortal, 2016)
2014	TigriSat	3U	BR	Scientific Research	Dust storm detection	La Sapienza University of Rome	Italy	Not Found	
2014	Arkyd 3	3U	T	Technology Demonstrator	Space Object detection (Asteroids)	Planetary Resources, Inc.	USA	Failed to Launch	(Krebs, 2016)
2014	GOMX 2	2U	T	Technology Demonstrator	De-orbiting	GOMSpace	Denmark	Failed to Launch	(Krebs, 2016)
2014	KickSat 1	3U	T	Technology Demonstrator	Communications and data capabilities, Design testing	Cornell University	USA	Established Communications	(Krebs, 2016)
2014	KSAT-2	1U	T	Scientific Research	Weather observation	Kagoshima University	Japan	Established Communications	(Krebs, 2016)
2014	Lemur 1	3U	T	Technology Demonstrator	Imaging	NanoSatisfi	USA	Success	(eoPortal, 2016)
2014	OPUSat	1U	T	Technology Demonstrator	Power (Hybrid battery system, Deployable panels), ADCS	Osaka Prefecture University	Japan	Established Communications	(Krebs, 2016)
2014	PhoneSat 2.5	1U	T	Technology Demonstrator	Design Testing (OBC design)	NASA Ames	USA	Success	(eoPortal, 2016)
2014	POPSAT-HIP1	3U	T	Technology Demonstrator	Earth Imaging, Propulsion	Microspace Rapid Pte Ltd	Singapore	Success	(Krebs, 2016) (eoPortal, 2016)
2014	QB50p1	2U	T	Technology Demonstrator	Systems testing	von Karman Institute	Belgium	Not Found	
2014	QB50p2	2U	T	Technology Demonstrator	Systems testing	von Karman Institute	Belgium	Not Found	
2014	RACE	3U	T	Technology Demonstrator	Radiometer testing	University of Texas	USA	Failed to Launch	(eoPortal, 2016)
2014	TSAT (TestSat-Lite)	2U	T	Technology Demonstrator	Communications	Taylor University	USA	Success	(Krebs, 2016) (Voss et. Al., 2014)
2014	Ukube-1	3U	T	Technology Demonstrator	Test space technologies	ClydeSpace	UK	Success	(Krebs, 2016) (UK Space Agency, 2015)
2014	VELOX I-NSAT	3U	T	Technology Demonstrator	Inter-satellite communication	Nanyang Technological University	Singapore	Established Communications	(eoPortal, 2016)
2015	DCBB	2U	CM	Educational	Amateur radio communication	Shenzhen Aerospace Dongfanghong HIT Satellite Ltd.	China	Deployed	(Krebs, 2016)
2015	ExoCube	3U	SE	Scientific Research	Ozone and trace gases	Cal Poly	USA	Established Communications	(CalPoly,2015)

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2015	FIREBIRD-2A	1.5U	SE	Scientific Research	Radiation Budget (Van Allen)	Montana State University	USA	Success	(Boswell,2015) (eoPortal, 2016)
2015	FIREBIRD-2B	1.5U	SE	Scientific Research	Radiation Budget (Van Allen)	Montana State University	USA	Success	(Boswell,2015) (eoPortal, 2016)
2015	MicroMAS-1	3U	T	Technology Demonstrator	Weather observation	MIT	USA	Deployed	(eoPortal, 2016)
2015	AeroCube 8A	1.5U	T	Technology Demonstrator	Propulsion, Power (Solar cells)	Aerospace Corporation	USA	Deployed	(NASA,2016)
2015	AeroCube 8B	1.5U	T	Technology Demonstrator	Propulsion, Power (Solar cells)	Aerospace Corporation	USA	Deployed	(NASA,2016)
2015	AESP-14	1U	T	Scientific Research	Ionosphere (Plasma bubbles)	Aeronautics Technological Institute	Brazil	Deployed	(Krebs, 2016)
2015	Arkyd 3-Reflight	3U	T	Technology Demonstrator	Design Testing (Asteroid prospecting)	Planetary Resources, Inc.	USA	Established Communications	(O'Keefe,2015)
2015	BRICSat-P	1.5U	T	Technology Demonstrator	Communications and data capabilities, Propulsion	US Naval Academy	USA	Established Communications	(Krebs, 2016)
2015	Centennial-1	1U	T	Technology Demonstrator	Topography	Booz Allen Hamilton	USA	Success	(Krebs, 2016)
2015	DeOrbitSail	3U	T	Technology Demonstrator	De-orbiting	University of Surrey	UK	Partial Success	(ARRL,2015) (eoPortal, 2016)
2015	GEARRSAT 2	3U	T	Technology Demonstrator	Communications and data capabilities	NearSpace Launch	USA	Deployed	(Krebs, 2016)
2015	GEARRSAT	3U	T	Technology Demonstrator	Communications and data capabilities	NearSpace Launch	USA	Deployed	(Krebs, 2016)
2015	GRIFEX	3U	T	Technology Demonstrator	Ozone and trace gases	NASA JPL	USA	Not Found	
2015	LambdaSat	1U	T	Technology Demonstrator	Design Testing (Bus)	Greek Silicon Valley folks	USA/Greece	Established Communications	(eoPortal, 2016)
2015	LightSail	3U	T	Technology Demonstrator	Propulsion	Planetary Society	USA	Success	(eoPortal, 2016)
2015	NJFA	3U	T	Technology Demonstrator	Communications and data capabilities (Satellite network)	Shanghai Engineering Center for Microsatellites	China	Success	(Krebs, 2016) (AMSAT-UK, 2016)
2015	NJUST 2	2U	T	Technology Demonstrator	Communications and data capabilities (Satellite network), Vehicle Tracking	Nanjing University	China	Success	(Krebs, 2016) (AMSAT-UK, 2016)
2015	OptiCube 1	3U	T	Technology Demonstrator	Space Objects detection	Cal Poly	USA	Deployed	(Krebs, 2016)
2015	OptiCube 2	3U	T	Technology Demonstrator	Space Objects detection	Cal Poly	USA	Deployed	(Krebs, 2016)
2015	OptiCube 3	3U	T	Technology Demonstrator	Space Objects detection	Cal Poly	USA	Deployed	(Krebs, 2016)
2015	ParkinsonSat	3U	T	Technology Demonstrator	Communications and data capabilities (Data relay)	NearSpace Launch	USA	Partial Success	(Krebs, 2016) (ARRL, 2015 May)
2015	S-CUBE	3U	T	Technology Demonstrator	Space Objects detection	Tohoku University	Japan	Deployed	(Krebs, 2016)
2015	SERPENS	3U	T	Technology Demonstrator	Weather observation	SERPENS	Brazil	Deployed	(AMSAT-UK, 2016)
2015	Shankeda 2	2U	T	Technology Demonstrator	Communications and data capabilities (Satellite network)	Shanghai Engineering Center for Microsatellites	China	Deployed	(Krebs, 2016)
2015	TechEdSat-4	3U	T	Technology Demonstrator	De-orbiting	San Jose State University	USA	Deployed	(Krebs, 2016)

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2015	USS Langley	3U	T	Technology Demonstrator	Communications and data capabilities (Data relay)	US Naval Academy	USA	Deployed	(Krebs, 2016)
2015	STU-2A	3U	T	Technology Demonstrator	Ice Sheet topography	Shanghai Engineering Center for Microsatellites	China	Success	(Wu, Chen, & Chao, 2016)
2015	STU-2B	2U	T	Technology Demonstrator	Vehicle Tracking	Shanghai Engineering Center for Microsatellites	China	Success	(Wu, Chen, & Chao, 2016)
2015	STU-2C	2U	T	Technology Demonstrator	Propulsion, Communications and data capabilities, ADCS	Shanghai Engineering Center for Microsatellites	China	Success	(Wu, Chen, & Chao, 2016)
2015	GOMX-3	3U	T	Technology Demonstrator	Vehicle Tracking, Communications and data capabilities	GOMSpace	Denmark	Success	(Spaceflight 101, 2015) (eoPortal, 2016)
2015	AAUSAT 5	3U		Technology Demonstrator	Vehicle Tracking	Aalborg University	Denmark	Success	(ESA, 2015)
2015	Aerocube 5c	1.5U	T	Technology Demonstrator	Vehicle Tracking, Communications and data capabilities	Aerospace Corporation	USA	Launch Failure	(Krebs, 2016)
2015	AeroCube 7	1.5U	T	Technology Demonstrator	Communications and data capabilities (Laser communications)	Aerospace Corporation	USA	Partial Success	(Krebs, 2016)
2015	Fox-1A	1U	T	Technology Demonstrator	Communications and data capabilities (Data relay), ADCS, Radiation budget	AMSAT	USA	Success	(AMSAT, 2016)
2015	BisonSat	1U	E	Educational	Cloud Properties, Aerosols	Salish Kootenai College, Montana	USA	Success	(Krebs, 2016)
2015	ARC 1	1U	T	Technology Demonstrator	ADCS, Communications and data capabilities, Snow Cover	University of Alaska Fairbanks	USA	Not Found	
2015	SNAP-3 Alice	3U	CM	Communications	Communications and data capabilities (Data relay)	United States Army Space and Missile Defense Command	USA	Not Found	
2015	LMRST-Sat	3U	T	Technology Testing	Design testing (Deep-space navigation), Gravity Fields	Jet Propulsion Laboratory	USA	Not Found	
2015	SNAP-3 Eddie	3U	CM	Communications	Communications and data capabilities (Data relay)	United States Army Space and Missile Defense Command	USA	Not Found	
2015	PropCube Merryweather	1U	E	Earth Observation- Atmosphere	Ionosphere	Naval Postgraduate School	USA	Not Found	
2015	SINOD-D 1	3U	T	Technology Demonstrator	Communications and data capabilities	SRI International	USA	Deployed	(Krebs, 2016) (Swartwout, 2016)
2015	SNAP-3 Jimi	3U	CM	Communications	Communications and data capabilities (Data relay)	United States Army Space and Missile Defense Command	USA	Not Found	
2015	PropCube Flora	1U	BR	Earth Observation- Atmosphere	Ionosphere	Naval Postgraduate School	USA	Not Found	
2015	SINOD-D 3	3U	T	Technology Demonstrator	Communications and data capabilities	Tyvak Nano-Satellite Systems Inc.	USA	Deployed	(Krebs, 2016) (Swartwout, 2016)

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2015	Supernova-Beta	6U	T	Technology Demonstrator	Design Testing	Pumpkin Inc.	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	EDSN 1	1.5U	T	Technology Demonstrator	Communications and data capabilities (Satellite network)	NASA Ames	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	EDSN 2	1.5U	T	Technology Demonstrator	Communications and data capabilities (Satellite network)	NASA Ames	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	EDSN 3	1.5U	T	Technology Demonstrator	Communications and data capabilities (Satellite network)	NASA Ames	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	EDSN 4	1.5U	T	Technology Demonstrator	Communications and data capabilities (Satellite network)	NASA Ames	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	EDSN 5	1.5U	T	Technology Demonstrator	Communications and data capabilities (Satellite network)	NASA Ames	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	EDSN 6	1.5U	T	Technology Demonstrator	Communications and data capabilities (Satellite network)	NASA Ames	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	EDSN 7	1.5U	T	Technology Demonstrator	Communications and data capabilities (Satellite network)	NASA Ames	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	EDSN 8	1.5U	T	Technology Demonstrator	Communications and data capabilities (Satellite network)	NASA Ames	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	STACEM	3U	BR	Earth Observation	Environmental analysis and monitoring	Space Dynamics Laboratory	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	Argus	2U	BR	Space Environment Observation	Electronics Degradation (Radiation)	Saint Louis University	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	PrintSat	1U	T-BR	Technology Demonstrator	Design Testing (3D printed structure)	Montana State University	USA	Launch Failure	(Krebs, 2016) (Swartwout, 2016)
2015	Bevo 2	3U	T	Technology Demonstrator	Proximity Operations	University of Texas	USA	Established Communications	(Krebs, 2016) (Swartwout, 2016)
2015	CADRE	3U	BR	Earth Observation- Atmosphere	Space Weather observations	University of Michigan	USA	Deployed	(Krebs, 2016) (Swartwout, 2016)
2015	MinXSS	3U	BR	Space Environment Observation	Solar activity	University of Colorado LASP	USA	Success	(Krebs, 2016) (eoPortal, 2016)
2015	STMSat-1	1U	T	Earth Observation	Topography	St. Thomas More Cathedral School	USA	Deployed	(Swartwout, 2016)

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2015	Nodes 1	1.5U	T	Technology Demonstrator	Test network capanilities for multiple spacecraft, Radiation Budget	NASA Ames	USA	Partial Success	(Swartwout, 2016)
2015	Nodes 2	1.5U	T	Technology Demonstrator	Test network capanilities for multiple spacecraft, Radiation Budget	NASA Ames	USA	Partial Success	(Swartwout, 2016)
2015	Athenoxat 1	3U	T	Earth Observation	Night time optical data acquisition	Microspace Rapid Pte Ltd	Singapore	Success	(Krebs, 2016) (Swartwout, 2016)
2015	Galassia	2U	E	Earth Observation- Atmosphere	Ionosphere	National University of Singapore	Singapore	Success	(Krebs, 2016) (eoPortal, 2016)
2016	VELOX 2	6U	CM-T	Technology Demonstrator	Communications and data capabilities	Nanyang Technological University	Singapore	Success	(Krebs, 2016) (Swartwout, 2016)
2016	Tomsk-TPU-120	3U	T	Technology Demonstrator	Design Testing (3D printed structure)	Tomsk Polytechnic University	Russia	Not Found	
2016	OUFTI-1	1U	CM-T	Technology Demonstrator	Communications and data capabilities	Université de Liège	Belgium	Established Communications	(Krebs, 2016) (Swartwout, 2016)
2016	e-st@r 2	1U	E-BR	Scientific Research	ADCS	Politecnico di Torino	Italy	Partial Success	(Krebs, 2016) (Swartwout, 2016)
2016	AAUSAT 4	1U	E	Technology Demonstrator	Vehicle Tracking	Aalborg University	Denmark	Not Found	
2016	SamSat-218/D	3U	T-BR	Technology Demonstrator	ADCS (Aerodynamic forces)	Samara Aerospace University	Russia	Established Communications	(Krebs, 2016) (Swartwout, 2016)
2016	SathyabamaSat	2U	BR	Earth Observation- Atmosphere	Ozone and trace gases	Sathyabama University	India	Not Found	
2016	Swayam	1U	CM	Technology Demonstrator	Communications and data capabilities	College of Engineering, Pune	India	Not Found	
2016	BeeSat-4	1U	T-BR	Technology Demonstrator	ADCS	Technical University of Berlin	Germany	Not Found	

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