

Launch/Deployment	Satellite	Object	Size	Radio	Downlink	Satellite Service	Power	TNC	Protocol	Data Rate/Modulation	Downloaded	Lifetime	Antenna	Status	Updated
NLS-1/Eurockot 30 June 2003	AAU1 CubeSat	27846	1U	Wood & Douglas SX450	437.475 MHz	Amateur	500 mW	MX909	AX.25, Mobitex	9600 baud GMSK	1 kB	3 months	dipole	Dead	April 2013
	DTUusat-1	27842	1U	RFMD RF2905	437.475 MHz	Amateur	400 mW		AX.25	2400 baud FSK	0 ¹	0 days	canted turnstile	DOA	April 2013
	CanX-1	27847	1U	Melexis	437.880 MHz	Amateur	500 mW		Custom	1200 baud MSK	0 ¹	0 days	crossed dipoles	DOA	April 2013
	Cute-1 (CO-55)	27844	1U	Alinco DJ-C4 (data) Maki Denki (beacon)	437.470 MHz 436.8375 MHz	Amateur Amateur	350 mW 100 mW	MX614 PIC16LC73A	AX.25 CW	1200 baud AFSK 50 WPM	>10 MB ² N/A	118+ months	monopole	Alive	April 2013
	QuakeSat-1	27845	3U	Tekk KS-960	436.675 MHz	Amateur	2 W	BayPac BP-96A	AX.25 ³	9600 baud FSK	423 MB	7 months	turnstile	Dead	April 2013
SSETI Express 27 Oct 2005	XI-V (CO-58)	28895	1U	Nishi RF Lab (data) Nishi RF Lab (beacon)	437.345 MHz 437.465 MHz	Amateur Amateur	1 W 80 mW	PIC16C622 PIC16C716	AX.25 CW	1200 baud AFSK 50 WPM	N/A	90+ months	dipole dipole	Alive	April 2013
	NCube-2	28897 ⁴	1U		437.505 MHz	Amateur			AX.25	1200 baud AFSK	0 ¹	0 days	monopole	DOA	April 2013
	UWE-1	28892	1U	PR430	437.505 MHz	Amateur	1 W	HSS/2674R ⁵	AX.25	1200/9600 baud AFSK		3 weeks	end-fed dipole	Dead	April 2013
M-V-8 22 Feb 2006	Cute-1.7+APD (CO-56)	28941	2U	Alinco DJ-C5 Telemetry (beacon)	437.505 MHz 437.385 MHz	Amateur Amateur	300 mW 100 mW	CMX589A HSS/2328 ⁵	AX.25/SRLLCW	1200 AFSK/9600 GMSK 50 WPM	<1 MB N/A	2.5 months	dipole	Deorbited	April 2013
Minotaur-1 11 Dec 2006	GeneSat-1	29655	3U+	Microhard MHX-2400 Stensat (beacon) ⁷	2.4 GHz 437.067 MHz	Experimental Amateur	1 W 500 mW	Integrated ⁶ PIC12C617	Proprietary AX.25	1200 baud AFSK	500 kB N/A	3 months	patch monopole	Deorbited	April 2013
Dnepr 2 17 Apr 2007	CSBT1	31122	1U	Yaesu VX-2R	400.0375 MHz	Experimental	300 mW	PIC	Proprietary	1200 baud AFSK	6.77 MB	18 months	dipole	Dead	April 2013
	AeroCube-2	31133	1U	FreeWave FGRM	915 MHz	Experimental	2 W	Integrated ⁶	Proprietary	38.4 kbaud	500 kB	1 week	patch	Dead	April 2013
	CP4	31132	1U	TI CC1000/RF2117	437.325 MHz	Amateur	1 W	PIC18LF620	AX.25	1200 baud FSK	487 kB	2 months	dipole	Dead	April 2013
	Libertad-1	31128	1U	Stensat	437.405 MHz	Amateur	400 mW		AX.25	1200 baud AFSK	0 ⁸	1 month	monopole	Dead	April 2013
	CAPE1	31130	1U	TI CC1020	435.245 MHz	Amateur	1 W	PIC16LF452	AX.25	9600 baud FSK	0 ⁹	4 months	dipole	Dead	April 2013
	CP3	31129	1U	TI CC1000/RF2117	436.845 MHz	Experimental	1 W	PIC18LF620	AX.25	1200 baud FSK	2.0 MB ²	19+ months	dipole	Dead	April 2013
	MAST ¹⁰	31126	3U	Microhard MHX-2400	2.4 GHz	Experimental	1 W	Integrated ⁶	Proprietary	15 kbps	>2 MB	0.75 months	monopole	Dead	April 2013
NLS-4/PSLV-C9 28 Apr 2008	Delif-C3 (DO-64)	32789	3U	Custom (transponder) Custom (beacon)	145.9-435.55 MHz 145.870 MHz	Amateur Amateur	200 mW 400 mW	N/A PIC18LF4680	Linear AX.25	40 kHz wide 1200 baud BPSK	N/A 60 MB ¹¹	60+ months	turnstile turnstile	Alive	April 2013
	Seeds-2 (CO-66)	32791	1U	Musashino Electric (data) Musashino Electric (beacon)	437.485 MHz 437.485 MHz	Amateur Amateur	450 mW 90 mW		AX.25 CW	1200 baud AFSK	500 kB ² N/A	60+ months	monopole	Alive	April 2013
	CanX-2	32790	3U	Custom S-Band	2.2 GHz	Space Research	500 mW	Integrated	NSP	16-256kbps BPSK	250 MB	60+ months	patch	Active	April 2013
	AAUSAT-II	32788	1U	Holger Eckhardt (DF2FQ)	437.425 MHz	Amateur	610 mW	PIC18LF680	AX.25	1200 baud MSK	8 MB ¹²	60+ months	dipole	Alive	April 2013
	Compass-1	32787	1U	Holger Eckhardt (data) BC549 (beacon)	437.405 MHz 437.275 MHz	Amateur Amateur	300 mW 200 mW	CS051F123, FX614 PIC12F629	AX.25 CW	1200 baud AFSK/MSK 15 WPM	<1 MB ² N/A	60+ months	dipole	Alive	April 2013
Minotaur 1 19 May 2009	AeroCube-3	35005	1U	FreeWave FGRM	915 MHz	Experimental	2 W	Integrated	Proprietary	77 kbaud GFSK	52 MB	7 months	patch	Deorbited	April 2013
	CP6	35003	1U	CC1000/RF2117	437.365 MHz	Amateur	1 W	PIC18LF620	AX.25	1200 baud FSK		4 months	dipole	Deorbited	April 2013
	HawkSat-1	35004	1U	Microhard MHX-425	437.345 MHz	Amateur	1 W	Integrated	Proprietary		0 kB	0 days	monopole	DOA	April 2013
ISILaunch 01/ PSLV-C14 23 Sep 2009	PharmaSat	35002	3U+	Microhard MHX-2400 Stensat (beacon) ⁷	2.4 GHz 437.465 MHz	Experimental Amateur	1 W 500 mW	Integrated Integrated	Proprietary AX.25	10 kbps 1200 baud AFSK	650 kB N/A	10 days 1 month	patch monopole	Deorbited	April 2013
	BEESAT-1	35933	1U	STE BK-77B	436.000 MHz	Amateur ¹³	500 mW	CMX909B	Mobitex	4800/9600 baud GMSK		43+ months	monopole	Alive	April 2013
	UWE-2	35934	1U	Custom	437.385 MHz	Amateur			AX.25	1200 baud AFSK		1 week	dipole	Dead	April 2013
	ITUpSAT-1	35935	1U	Microhard MHX-425 BeeLine/CC1050	437.325 MHz 437.325 MHz	Amateur Amateur	1 W 350 mW	Integrated	Proprietary CW	19200 baud	0 kB ⁸ N/A	43+ months	dipole monopole	Alive	April 2013
H-IIA F17 20 May 2010	SwissCube	35932	1U	Butler oscillator/RF5110G RF2516 (beacon)	437.505 MHz 437.505 MHz	Amateur Amateur	1 W 100 mW	MSP430F1611 Integrated	AX.25 CW	1200 baud FSK 10 WPM	6 MB N/A	43+ months	monopole monopole	Active	April 2013
	Hayato	36573	1U	Custom	13.275 GHz	Earth exploration	100 mW	Integrated		10 kbps/1 Mbps BPSK	0 kB ⁸	18 days	patch	Deorbited	April 2013
	Waseda-SAT2	36574	1U	TXE430-301A TXE430-301A (beacon)	437.485 MHz 437.485 MHz	Amateur Amateur	150 mW 100 mW	H8/3052F ⁵ H8/3052F ⁵	AX.25 CW	9600 baud FSK	0 kB N/A	0 days	monopole dipole	DOA Deorbited	April 2013
NLS-6/ PSLV-C15 12 July 2010	Negai-Star	36575	1U	Data Beacon	437.305 MHz 437.305 MHz	Amateur Amateur	150 mW 100 mW		AX.25 CW	1200 baud FSK 50 WPM	N/A	1 month	dipole dipole	Deorbited	April 2013
	TIsat-1	36799	1U	Alinco DJ-C6 CC1010 (beacon)	437.305 MHz 437.305 MHz	Amateur Amateur	500 mW 400 mW	MSP430F169 MSP430F169	AX.25 CW	1200 baud AFSK 15-110 WPM	N/A	33+ months	monopole monopole	Active	April 2013
STP-S26 19 Nov 2010	StudSat	36796	1U	CC1020 MAX1472 (beacon)	437.505 MHz 437.860 MHz	Amateur Amateur	500 mW 10 mW	UC3A0512 ² UC3A0512 ²	Custom AX.25 CW	4800 baud FSK 22 WPM	0 kB ⁸ N/A	5 days	monopole monopole	Dead	April 2013
	RAX-1	37223	3U	Lithium-1	437.505 MHz	Amateur	750 mW	Integrated	AX.25	9600 baud GMSK	4.8 MB	2 months	turnstile	Dead	April 2013
	O/OREOS	37224	3U+	Microhard MHX-2400 Stensat (beacon) ⁷	2.4 GHz 437.305 MHz	Experimental Amateur	1 W 500 mW	Integrated Integrated	Proprietary AX.25	Variable 1200 baud AFSK	8 MB N/A	29+ months	patch monopole	Alive	April 2013
Falcon 9-002 8 Dec 2010	NanoSail-D2	37361	3U+	Microhard MHX-2400 Stensat (beacon) ⁷	2.4 GHz 437.270 MHz	Experimental Amateur	1 W 500 mW	Integrated Integrated	Proprietary AX.25	Variable 1200 baud AFSK	N/A	5 days ¹⁴	patch monopole	Deorbited	April 2013
	Perseus (4)	37251+	1.5U			Government						1 month	dipole	Deorbited	April 2013
	QbX (2)	37249+	3U	TTC	450 MHz	Government	1 W			9600 baud GMSK		1 month	quadrafilar helix	Deorbited	April 2013
PSLV-C18 12 Oct 2011	SMDC-ONE	37246	3U	Pericle	UHF	Government						1 month	turnstile	Deorbited	April 2013
	Mayflower	37252	3U	Microhard MHX-425 Stensat (beacon) ⁷	437.000 MHz 437.600 MHz	Amateur Amateur	1 W 1 W	Integrated Integrated	Proprietary AX.25	Variable 1200 baud AFSK	0 kB ⁸ N/A	2 days	dipole	Deorbited	April 2013
	Jugnu	37839	3U	CC1070/RF5110G MAX1472 (beacon)	437.505 MHz 437.505 MHz	Amateur Amateur	1 W 10 mW		AX.25 CW	2400 baud FSK 20 WPM	N/A	18+ months	monopole monopole	Alive	April 2013
ELaNa-3/ NPP 28 Oct 2011	AubieSat-1	37854	1U	Melexis TH72011	437.475 MHz	Amateur	800 mW	ATmega1281 ⁵	CW	20 WPM	0 kB	22+ months	dipole	Alive	April 2013
	DICE (2)	37851+	1.5U	L3 Cadet	465 MHz	Meteorological	1 W	Integrated	Proprietary	2.6 Mbps OQPSK	8.4 GB	20 months	dipole	Dead	Aug 2013
	HRBE	37855	1U	CC1000	437.505 MHz	Amateur	850 mW		AX.25	1200 baud FSK	11	22+ months	monopole	Active	Aug 2013
	M-Cubed	37855	1U	Lithium-1	437.485 MHz	Amateur	1 W	Integrated	AX.25	1200 baud FSK	0 kB ⁸	22+ months	monopole	Alive	April 2013
Vega VV01 13 Feb 2012	RAX-2	37853	3U	Lithium-1	437.345 MHz	Amateur	1 W	Integrated	AX.25	9600 baud GMSK	242 MB	18 months	turnstile	Dead	Aug 2013
	Xatcobero	38082	1U	GomSpace U482C	437.365 MHz	Amateur	500 mW	Integrated	AX.25/CW	1200 baud MSK/20 WPM		18+ months	turnstile	Active	Aug 2013
	ROBUSTA	38081	1U	MC12181/MAX2608	437.325 MHz	Amateur	800 mW	PIC18F4580 ⁵	AX.25	1200 baud AFSK	0 kB ¹⁵	2 days	dipole	Dead	April 2013
	e-st@r	38079	1U	BHX2-437-5	437.445 MHz	Amateur	500 mW	PIC16	AX.25	1200 baud AFSK	0 kB ⁸	3 days	dipole	Dead	April 2013
	Goliat	38085	1U	Alinco DJ-C7 Microhard MHX-2420	437.485 MHz 2.4 GHz	Amateur Amateur	500 mW 1 W	FX614/MSP430 Integrated	AX.25/CW Proprietary	1200 baud AFSK/20 WPM Variable	0 kB ¹⁵	1 week	monopole patch	Dead	April 2013
	PW-Sat	38083	1U	ISIS TRXUV	145.900 MHz	Amateur	200 mW	Integrated	AX.25/CW	1200 baud BPSK/12 WPM		10 months	dipole	Dead	April 2013
	Masat-1	38081	1U	Si4432	437.345 MHz	Amateur	100/400 mW	dsPIC33F ⁵	Custom/CW	GFSK/120 CPM	305 MB	18+ months	monopole	Active	Aug 2013
ELaNa-6/NROL-36 13 Sep 2012	UniCubeSat-GG	38081	1U	AstroDev Custom	437.305 MHz	Amateur	500 mW	Integrated	AX.25/CW	9600 baud GFSK	0 kB ⁸	2 days	dipole	Dead	April 2013
	SMDC-ONE (2)	38766+	3U	Pericle	UHF	Government						1 month	turnstile	Alive	April 2013
	AeroCube-4 (3)	38767+	1U	FreeWave MM2 CC1101	915 MHz 915 MHz	Experimental Experimental	2 W 1.3 W	Integrated Integrated	Proprietary Proprietary	38.4 kbaud 500 kbps FSK		8+ months	patch patch	Active	April 2013
	Aeneas	38760	3U	MHX-425 Stensat (beacon) ⁷	437.000 MHz 437.600 MHz	Experimental Amateur	1 W 1 W	Integrated Integrated	Proprietary AX.25	Variable 1200 baud FSK	N/A	8+ months	monopole	Alive	April 2013
	CSSWE	38761	3U	Lithium-1	437.345 MHz	Experimental	1 W	Integrated	AX.25	9600 baud GFSK	60 MB	12+ months	monopole	Active	April 2013
	CP5	38763	1U	CC1000/RF2117	437.405 MHz	Amateur	500 mW	PIC18LF620	AX.25	1200 baud FSK	500 kB	4 months	dipole	Dead	April 2013
	CXBN	38762	2U	Lithium-1	437.525 MHz	Amateur	1 W	Integrated	AX.25	9600 baud GFSK		8+ months	turnstile	Active	April 2013
	CINEMA	38764	3U	Emhiser	2200 MHz	Space Research	1 W	FPGA	Proprietary	1 Mbps FSK		8+ months	patch	Active	April 2013
Re	38765	3U	Helium-100	915 MHz	Government	1 W	Integrated	AX.25	57.6 kbps FSK	0 kB	0 days	dipole	DOA	Aug 2013	
HTV-3/ISS 4 Oct 2012	FITSat-1	38853	1U	High-speed Custom Custom (data) Custom (beacon)	5.84 GHz 437.445 MHz 437.250 MHz	Amateur Amateur Amateur	2 W 10 mW	PIC16F886 PIC16F1519 PIC16F1519	AX.25 CW CW	115.2 kbps FSK 1200 baud AFSK		9 months	patch monopole monopole	Deorbited	Aug 2013
	TechEdSat ¹⁶	38854	1U	Stensat (beacon) ⁷	437.465 MHz	Amateur	1 W	Integrated	AX.25	1200 baud AFSK	N/A	7 months	dipole	Deorbited	Aug 2013
	F-1	38855	1U	VX-3R VX-3R	145.980 MHz 437.485 MHz	Amateur Amateur	1 W 200 mW	PIC18F PIC16F	AX.25 FM PWM CW	1200 baud AFSK 20 WPM	0 kB N/A	0 days	dipole dipole	Deorbited	Aug 2013
	WE-WISH	38856	1U	(data) 437.505 MHz (beacon)</											

Launch/Deployment	Satellite	Object	Size	Radio	Downlink	Satellite Service	Power	TNC	Protocol	Data Rate/Modulation	Downloaded	Lifetime	Antenna	Status	Updated	
HTV-4/ISS 19 Nov 2013	ArduSat-1	39413	1U	NanoCom U482C	437.000 MHz	Experimental	1 W	NanoMind A712D ¹	CSP	9600 baud FM-MSK/20 WPM CW		2+ months	turnstile	Alive/Deorbited	Mar 2015	
	ArduSat-X	39414	1U	NanoCom U482C	437.000 MHz	Experimental	1 W	NanoMind A712D ¹	CSP	9600 baud FM-MSK/20 WPM CW		2+ months	turnstile	Deorbited	Mar 2015	
	Pico Dragon	39412	1U	(data) (beacon)	437.365 MHz 437.250 MHz	Amateur	800 mW 100 mW		AX.25 CW	1200 baud AFSK		1 month	monopole monopole	Alive/Deorbited	Mar 2015	
	TechEdSat-3P	39415	3U	Stensat (beacon) Iridium Q9602	437.465 MHz 1616 MHz	Experimental Experimental	1 W 1 W	Integrated Integrated	AX.25 Proprietary	1200 baud AFSK	N/A	1 month	monopole monopole	Deorbited	Mar 2015	
ORS-3/ELaNa-4 20 Nov 2013	COPPER	39395	1U	AstroDev He-100	437.290 MHz	Experimental	1 W	Integrated	AX.25	9600 baud FSK			dipole	DOA	Jan 2014	
	TJ3Sat	39385	1U	Stensat	437.320 MHz	Experimental	1 W	Integrated	AX.25, CW	1200 baud AFSK					Dec 2013	
	Vermont Lunar Cube	39407	1U	Helium-100	437.305 MHz	Experimental	1.5 W	Integrated	AX.25	9600 baud FSK		1+ month	Crossed Dipoles	Alive	Jan 2014	
	SwampSat	39402	1U		437.385 MHz	Experimental	1 W	Integrated	AX.25	9600 baud FSK					Jan 2014	
	CAPE-2 (LO-75)	39382	1U	CC1101	437.325 MHz	Experimental	1 W	Integrated	TI	9600 baud FSK		1+ month		Alive	July 2014	
	Ho'oponopono-2	39403	3U	RadioMetrix Parrot repeater AstroDev Ne-1 (beacon)	145.825 MHz 437.220 MHz	Experimental Experimental	1 W 1 W	Integrated dsPIC33F	Proprietary	57.6 kbps	N/A			patch monopole	DOA	Jan 2014
	PhoneSat-v2.4	39381	1U	StenSat	437.425 MHz	Experimental	1 W	Integrated	AX.25	1200 baud AFSK				monopole	Alive	Jan 2014
	Traillblazer	39400	1U	AstroDev He-100	437.425 MHz	Experimental	1 W	Integrated	AX.25	9600 baud FSK				turnstile	DOA	Jan 2014
	DragonSat-1	39383	1U	AstroDev He-100	145.870 MHz	Experimental	500 mW	Integrated	AX.25	9600 baud FSK				monopole	DOA	Jan 2014
	KySat-2	39384	1U	AstroDev Li-1	437.405 MHz	Experimental	1.5 W	Integrated	AX.25	9600 baud FSK		1+ month		turnstile	Alive	Jan 2014
	ChargerSat-1	39405	1U	CC1100	437.405 MHz	Experimental	1 W	Integrated	AX.25	9600 baud FSK				dipole	DOA	Dec 2013
	NPS-SCAT	39389	1U	Microhard MHX-2400 CC1000 (beacon) ²	2.4 GHz 437.525 MHz	Experimental Experimental	1 W 1 W	Integrated Integrated	Proprietary AX.25	1200 baud FSK	N/A			patch dipole	Alive	Jan 2014
	Black Knight 1	39398	1U	MHX-425	437.345 MHz	Experimental	1 W	Integrated	Proprietary							
	ORSEES	39386	3U			Government										
	ORSTECH (2)	39387+	3U			Government										
Prometheus (8)	39406+	1.5U			Government											
SENSE (2)	39388+	3U	Innoflight SCR-100	2.2 GHz	Government								patch	Alive	Dec 2013	
FireFly	39404	3U	L-3 Cadet	425 MHz	Government	1 W	Integrated	Proprietary	QPSK				patch	Alive	Jan 2014	
Horus	39397	3U	AstroDev	915 MHz	Government								patch	DOA	Dec 2013	
ISILaunch-03/Dnepr 21 Nov 2013	FUNcube-1	39444	1U	AMSAT	145.936 MHz	Amateur	300 mW	N/A		1200 baud BPSK	70 MB+	2+ months	dipole	Active	Jan 2014	
	ZACube-1	39417	1U	Custom	437.345 MHz	Amateur			AX.25	1200 baud AFSK/9600 baud FSK		2+ months	dipole	Alive	Jan 2014	
	HiNeube	39445	1U		437.305 MHz	Amateur			AX.25	9600 baud GMSK				DOA	Jan 2014	
	First-MOVE	39438	1U	ISIS TRXUV	145.970 MHz	Amateur	230 mW	Integrated	AX.25	1200 baud BPSK		2+ months	dipole	Alive	Jan 2014	
	UWE-3	39446	1U		437.385 MHz	Amateur			AX.25	9600 baud FSK		2+ months		Alive	Jan 2014	
	Velox-PH	39438	1U	ISIS?	145.980 MHz	Amateur	230 mW	Integrated	AX.25	1200 baud BPSK		2+ months		Alive	Jan 2014	
	NEE-02 KRYSAOR	39441	1U		980 MHz											
	CubeBug-2	39440	2U	AstroDev Li-1	437.445 MHz	Amateur	1 W	Integrated	AX.25	1200/9600 baud AFSK/GFSK		2+ months	turnstile	Alive	Jan 2014	
	KHUSAT (2)	39424+	3U	Emhiser	2.2 GHz	Space Research	1 W	FPGA	Proprietary	1 Mbps FSK		2+ months	patch	Alive	Jan 2014	
	TRITON-1	39427	3U	ISIS TRXUV	145.815 MHz	Amateur	230 mW	Integrated	AX.25	9600 baud BPSK		2+ months	dipole	Alive	Jan 2014	
	Delif-n3xt	39428	3U	ISIS TRXUV ISIS Custom	145.900 MHz 2.405 GHz	Amateur Amateur	230 mW 125 mW	Integrated	AX.25	9600 baud BPSK 20-500 kbps MSK		2+ months	dipole patch	Alive	Feb 2014	
	OPTOS	39420	3U		402 MHz	Earth-exploration										
	Dove-3	39429	3U+	D3-400-T D3-8200-T	401.3 MHz 8.1 GHz	Experimental Experimental	1.6 W 3 W		IP over DVB-S2					monopole patch	Active	Jan 2014
	PUCP-SAT-1 ³	39442	1U	Telemetry Beacon	145.840 MHz 437.200 MHz	Amateur Amateur	1.5 W 10 mW		AX.25 CW	1200 baud AFSK 12 WPM	N/A			dipole dipole		Jan 2014
	ICUBE-1 ³		1U	ISIS TRXUV	145.947 MHz	Amateur	230 mW	Integrated	AX.25	1200 baud BPSK						
HumSAT-D ³	39433	1U	NanoCom U482C	437.325 MHz	Amateur	500 mW		CSP/CW	1200 baud MSK		2+ months	turnstile	Active	Jan 2014		
GomX-1	39430	2U	D3-8200-T NanoCom U482C	8.1 GHz 437.250 MHz	Experimental Amateur	3 W 3 W		IP over DVB-S2 CSP	4800 baud MSK				turnstile	Alive	Mar 2015	
NROL-39/ELaNa-2 5 Dec 2013	IPEX	39471	1U		437.270 MHz	Experimental	1 W		AX.25	9600 baud FSK		2+ months	dipole	Dead	Dec 2015	
	MCubed-2	39469	1U	AstroDev Li-1	437.485 MHz	Experimental	1 W		AX.25	9600 baud GMSK		2+ months	monopole	Active	Jan 2014	
	CUNYSAT-1	39470	1U		437.505 MHz	Experimental	1.2 W									
	FIREBIRD (2)	39463+	1.5U		437.405 MHz	Amateur	1 W				27+ MB	2+ months	dipole	Active/DOA	Jan 2014	
	Alice	39467	3U			Government										
	AeroCube-5 (2)	39465+	1.5U	Freewave FGRM CC1101	915 MHz 915 MHz	Experimental Experimental	1.3 W	Integrated	Proprietary	500 kbps FSK				patch		
	SMDC-ONE (2)	39472+	3U			Government										
TacSat-6	39473	3U			Government											
SNAP	39468	3U			Government											
Orb-1/ISS 28 Feb 2014	Flock-1 (28)	39513+	3U+	D3-400-T D3-8200-T	401.3 MHz 8.1 GHz	Earth exploration Earth exploration	1.6 W 3 W		IP over DVB-S2				monopole patch	Active	Feb 2014	
	UAPSAT	39568	1U		437.385 MHz	Amateur			AX.25				turnstile			
	ArduSat-2	39571	2U	AstroDev Li-1 AstroDev Beryllium	400 MHz 2.4 GHz	Experimental Experimental	2 W 2.3 W						turnstile patch	DOA	Apr 2014	
	SkyCube	39567	1U	AstroDev C2	915 MHz	Government			AX.25	57.6 kbps				dipole	Dead	Apr 2014
	LitSat-1	39570	1U		145.850 MHz	Amateur			AX.25							
H-IIA/GPM 27 Feb 2014	INVADER (CO-77)	39578	1U	Custom Beacon	437.200 MHz 437.325 MHz	Amateur Amateur	800 mW 100 mW		AX.25 CW	1200 baud AFSK	N/A	2+ months	dipole dipole	Active	Apr 2014	
	KSAT-2	39573	1U	S-band Ku-band												
	OPUSAT	39575	1U	Custom	437.150 MHz	Amateur			CW/AX.25	1200 baud AFSK/9600 baud GMSK		2+ months		Alive	Apr 2014	
CRS-3/ ELaNa-5 18 Apr 2014	SporeSat	39681	3U	StenSat	437.100 MHz		1 W	Integrated	AX.25	1200 baud AFSK			monopole	Deorbited	Aug 2014	
	TSAT	39682	2U	GlobalStar STX2	1.6 GHz	Experimental ⁴	200 mW	PIC18F2620	Proprietary	36bytes/sec			Patch	Deorbited	Aug 2014	
	PhoneSat-v2.5	39684	1U		437.425 MHz				AX.25	1200 baud AFSK			monopole	Deorbited	Aug 2014	
	ALL-STAR	39683	3U	Custom SDR	2401.7 MHz	Experimental								Deorbited	Aug 2014	
KickSat	39685	3U		437.505 MHz		1 W		AX.25	1200 baud AFSK				Deorbited	Aug 2014		
ISILaunch-07/Dnepr 19 June 2014	AntelSat ⁵	40034	2U	Custom (beacon) Custom (downlink) Custom (downlink)	437.280 MHz 437.575 MHz 2403 MHz	Amateur Amateur Amateur	200 mW 1W 1W		CW AX.25 AX.25	1200 baud FSK/AFSK 500 kbps GFSK	N/A		1.5 months monopole patch	Alive	Aug 2014	
	AeroCube-6 ⁶ (2)	40045+	0.5U	AdvRadio CC1101	915 MHz	Experimental	1.3 W	Integrated	Proprietary	500 kbps FSK		1.5 months	patch		Aug 2014	
	LEMUR-1 ⁵	40044	3U	AstroDev Lithium	402 MHz	Experimental	2 W	Integrated								
	TigriSat ⁶	40043	3U													
	Flock-1 (11)	40027+	3U+	D3-400-T D3-8200-T	401.3 MHz 8.1 GHz	Earth exploration Earth exploration	1.6 W 3 W		IP over DVB-S2	40 Mbps		1.5 months	monopole patch/helix	Active	Aug 2014	
	Perseus (2)	40039+	6U	AstroDev Lithium Custom transmitter	401 MHz 26.8 GHz	Experimental Experimental	1 W 500 mW	Integrated Integrated	AX.25 DVB-S2	40 Mbps		1.5 months	Monopole Horn	Alive	Aug 2014	
	QB50P1	40025	2U	ISIS TRXUV FUNcube-3	145.815 MHz 145.950 MHz	Amateur Amateur	200 mW 400 mW	Integrated	CW/AX.25	15 WPM/1200 baud BPSK Linear transponder		1.5 months	dipole dipole	Alive	Aug 2014	
	QB50P2	40032	2U	ISIS TRXUV AMSAT-Francophone	145.880 MHz 145.940 MHz	Amateur Amateur	200 mW	Integrated	CW/AX.25 FX25	15 WPM/1200 baud BPSK 9600 bps FSK		1.5 months	dipole dipole	Alive	Aug 2014	
	DTUSat-2	40030	1U	Custom	2.401 GHz	Amateur	220 mW		CW/FSK							
	PolyITAN-1	40042	1U		437.675 MHz	Amateur	600 mW		CW/AX.25	9600 baud FSK		1.5 months	dipole	Alive	Aug 2014	
	Duchifat-1	40021	1U	ISIS TRXUV	145.980 MHz 145.825 MHz	Amateur Amateur	200 mW	Integrated	CW/AX.25 AX.25	15 WPM/1200 baud BPSK 1200 baud AFSK		1.5 months	dipole dipole	Alive	Aug 2014	
NanoSatC-Br 1	40024	1U	ISIS TRXUV	145.865 MHz	Amateur	200 mW	Integrated	CW/AX.25	15 WPM/1200 baud BPSK		1.5 months	dipole	Alive	Aug 2014		
PACE	40022	2U		437.485 MHz	Amateur	1 W		CW/AX.25	15 WPM/1200 baud FSK				dipole	Alive	Aug 2014	
POPSAT-HIP-1	40028	3U		437.405 MHz	Amateur			CCSDS						Aug 2014		
PSLV-C23 30 June 2014	VELOX-1	40057	3U	ISIS TRXUV	145.980 MHz	Amateur	200 mW	Integrated	AX.25	1200 baud BPSK				Alive	Aug 2014	
Soyuz-2 8 July 2014	UKube-1	40074	3U	ISIS TRXUV FUNcube-2 CS-CPUT-STX-01	145.840 MHz 145.915 MHz 2.401 GHz	Amateur Amateur Amateur	200 mW 300 mW 1 W	Integrated	AX.25	1200 baud BPSK 1200 baud BPSK 2 Mbps QPSK		1 month	dipole dipole patch	Alive	Aug 2014	
ISS 18 Aug 2014	Chasqui-1 ⁷	40117	1U		437.025 MHz				AX.25	1200 baud AFSK		0 days	monopole	DOA	Mar 2015	
SMAP/ELaNa-10 31 Jan 2015	ExoCube	40380	3U	Axsem AX5042	437.270 MHz	Amateur	1 W	AT91 ⁸	AX.25	9600 baud FSK		2+ months	monopole	Alive	Mar 2015	
	GRIFEX	40379	3U	AstroDev Lithium	437.485 MHz	Amateur	300 mW									

Launch/Deployment	Satellite	Object	Size	Radio	Downlink	Satellite Service	Power	TNC	Protocol	Data Rate/Modulation	Downloaded	Lifetime	Antenna	Status	Updated
ELaNa-11/AFSPC-5/ ULTRASat 20 May 2015	LightSail-A	40661	3U		437.435 MHz	Amateur	1.5 W	Integrated	AX.25	9600 baud FSK		7 months	dipole	Deorbited	Apr 2016
	OptiCube (3) ¹	40653+	3U	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	Apr 2016
	AeroCube-8 (2)	40659+	1.5U	AdvRadio CC1101	915 MHz	Experimental	1.2 W			500 kbps FSK		11+ months	patch	Active	Apr 2016
	GEARRS-2	40657	3U	GlobalStar STX2	1616 MHz	Experimental	400 mW	Integrated	Proprietary	9600 baud CDMA				patch	Apr 2016
	USS Langley	40652	3U		437.475 MHz	Amateur				9600 baud FSK		0 days		DOA	Apr 2016
	BRICSat-P	40655	1.5U	Astrodev He-100 ADF7012	437.975 MHz 437.350 MHz	Amateur Amateur	300 mW 500 mW	Integrated	AX.25 APRS AX.25	1200 baud AFSK 2.5 kHz PSK-31		1 month	monopole monopole	Dead	Apr 2016
P-SAT	40654	1.5U	Byonics MTT4B ADF7012	145.825 MHz 435.350 MHz	Amateur Amateur	300 mW 500 mW	Integrated	AX.25 APRS AX.25	1200 baud AFSK 2.5 kHz PSK-31		11+ months	monopole monopole	Alive	Apr 2016	
PSLV-C28 10 July 2015	DeOrbitSail	40719	3U		145.975 MHz	Amateur			AX.25	1200 baud BPSK		9+ months	monopole	Alive	Apr 2016
CRS-6/ISS 13 July 2015	Arkyd-3-Reflight	40742	3U	Microhard MHX-2420	2.4 GHz	Experimental	1 W	Integrated	Proprietary FHSS	19.2 kbps		9+ months	microstrip	Active	Apr 2016
	Flock-1e (14)		3U+	D3-400-T D3-8200-T	401.3 MHz 8.2 GHz	Earth exploration Earth exploration	1.6 W 3 W		IP over DVB-S2	100 Mbps			monopole patch/helix	Active	Apr 2016
	Centennial-1	40743	1U	Astrodev He-100	437.615 MHz	Experimental	3 W	Integrated	AX.25	1200 baud GFSK			Monopole	Active	Apr 2016
HTV-5/ISS ² 17 Sept 2015	SERPENS	40897	3U		437.365 MHz	Amateur			CSP	1200 baud MSK				Deorbited	Apr 2016
	S-CUBE	40898	3U												Apr 2016
Long March 6 19 Sept 2015	NUDT-PhoneSat	40900	3U												Apr 2016
Long March 11 25 Sept 2015	Tianwang-1A	40926	2U	NanoCom AX100	435.645 MHz				CSP	4800/9600 baud GMSK					Apr 2016
	Tianwang-1B	40927	2U	NanoCom AX100	437.645 MHz				CSP	4800/9600 baud GMSK					Apr 2016
	Tianwang-1C	40928	3U	NanoCom AX100	435.645 MHz				CSP	4800/9600 baud GMSK					Apr 2016
PSLV-C30 28 Sept 2015	Remur-2 (4)	40932+	3U	AstroDev Li-1	401 MHz 2.02 GHz	Space operation Earth exploration	1 W 2 W	Integrated	AX.25	9600 baud MSK 1 Mbps QPSK		7+ months	turnstile patch	Alive	Apr 2016
HTV-5/ISS ² 5 Oct 2015	AAUSAT5	40948	1U	ADF7021/AWT6388	437.425 MHz	Amateur	1 W		CSP	4800 bps GMSK/30 WPM CW		6 months	dipole	Deorbited	Apr 2016
	GOMX-3	40949	3U	NanoCom AX100 Syrlinks HDR-TM	437.250 MHz 8.1 GHz	Amateur Earth Exploration	1 W 2W	Integrated Integrated	CSP	1200-9600 baud GMSK 50 Mbps		6+ months	turnstile patch	Alive	Apr 2016
	Flock-2b (12) ³	40950+	3U+	D3-400-T D3-8200-T	401.3 MHz 8.2 GHz	Earth exploration Earth exploration	1.6 W 3 W	CC1110	Proprietary IP over DVB-S2	4800 baud GMSK 80 Mbps		6+ months	monopole patch/helix	Active	Apr 2016
NROL-55/GRACE/ ELaNa-12 8 Oct 2015	AeroCube-5c	40965	1.5U	Freewave FGRM AdvRadio	915 MHz 915 MHz	Experimental Experimental	1.3 W	Integrated	Proprietary	500 kbps FSK		6+ months	patch patch	Alive	Apr 2016
	AeroCube-7A/OCSD	40966	1.5U	Freewave FGRM SDRadio Laser	915 MHz 915 MHz 1064 nm	Experimental Experimental N/A	1.3 W 6 W	Integrated	Proprietary	500 kbps FSK 40 Mbps FM		6+ months	patch patch patch	Alive	Apr 2016
	Fox-1A	40967	1U	FM Transponder	145.980 MHz	Amateur	800 mW	N/A	N/A	9600 baud		6+ months	dipole	Active	Apr 2016
	BisonSat	40968	1U	Astrodev He-100	437.375 MHz	Amateur	1 W	MSP430	AX.25	9600 baud		6+ months	dipole	Active	Apr 2016
	ARCI	40969	1U	CC1101	437.565 MHz	Amateur	1 W	Integrated	AX.25	9600 baud FSK		0 days	monopole	DOA	Apr 2016
	SNAP-3 (3)	40970+	3U												
	LMRST-Sat	40971	3U	AstroDev He-100 Ranging transponder	462.0 MHz 8.45 GHz	Meteorological satellite Space Research	1 W 1 mW	Integrated	AX.25 N/A	9600 baud FSK N/A		0 days	dipole patch	DOA	Apr 2016
	PropCube (2)	40973+	1U									N/A	6+ months	dipole	Active
SINOD-D (2)	40974+	2U										0 days	dipole	DOA	Apr 2016
PSLV-C29 16 Dec 2015	Velox-II ⁴	41171	6U		145.930 MHz				PIC18F47J53	1200 baud BPSK			dipole		May 2016
	Galassia ⁴	41170	2U	ADF7021	145 MHz					9600 baud FSK					May 2016
	Athenoxat-1	41168	3U		437.485 MHz	Amateur				2400 baud MSK					May 2016
CRS-4/ISS/AGS4 29 Jan 2016	Bevo-2 ⁵	41314	3U	AstroDev He-100	437.325 MHz	Amateur	2.5 W	Integrated	AX.25	38.4 kbps FSK		4+ months	dipole	Alive	May 2016
Soyuz/Sentinel-1B/ VS-14 22 Apr 2016	OUFIT-1	41458	1U	ADF7021 ADF7021	145.950 MHz 145.980 MHz	Amateur Amateur	1 W 100 mW	MSP430 MSP430	AX.25 CW	9600 baud FSK/D-STAR 11 WPM	N/A	1+ months	monopole monopole	Active	May 2016
	est@r-II	41459	1U	Radiometrix	437.485 MHz	Amateur	500 mW	PIC16	AX.25	1200 baud AFSK/CW		1+ month	dipole	Active	May 2016
	AAUSAT4	41460	1U	ADF7021/AWT6388	437.425 MHz	Amateur	900 mW	AT90CAN128	CSP/CW	2400 baud FSK/30 WPM	1+ MB	1+ month	dipole	Active	May 2016
Soyuz 28 Apr 2016	SamSat-218D	41466	3U		145.870 MHz	Amateur				CW		0 days		DOA	May 2016

¹ Some primary and backup CubeSats were not ready for this launch, so these three optical calibration CubeSats were just mass models with different coatings on the outside.

² All satellites on these two deployments we brought to the station by the HTV-5, launched on 19 August 2015. SERPENS and S-CUBE were deployed by the J-SSOD deployer in mid September, the other satellites were deployed from the NRCSD in the beginning of October.

³ Two Flock-2b satellites were stuck in a NRCSD deployer and brought back down to earth.

⁴ The 6U Velox-II CubeSat contained a 2U deployer for Galassia.

⁵ Bevo-2 was deployed from an ISIPod inside AggieSat-4, which was deployed from the ISS by the Space Station Integrated Kinetic Launcher for Orbital Payload Systems (SSIKLOPS).