Satellite Frequency Guide

AMSAT-ZL

[Satellite names as used in AMSAT Kep. Sets. All frequencies in MHz]

AO-10 (OSCAR 10) {14129}

General Beacon	145.809 (Carrier)
Mode B Uplink LSB/cw	435.030 - 435.180
Mode B Downlink USB	145.975 - 145.825

UO-11 (OSCAR 11 or UoSAT 2) {14781}

Beacon: 1200 bps (BBC)	145.826 (AFSK/FM)
Beacon: 300-9600 bps	435.025 (AFSK/FM)
Beacon: 300-9600 bps	2401.500 (AFSK/FM)

	RS-12 {21089}	RS-13 {21089}	RS-15 {23439}	Mode
Beacon/ROBOT	29.408	29.458	29.353	(CW)
Beacon/ROBOT	29.454	29.504	29.398	(CW)
Mode A Uplink	145.910 - 145.950	145.960 - 146.000	145.858 – 145.898	(USB,CW)
Mode A Downlink	29.410 - 29.450	29.460 - 29.500	29.354 – 29.394	(USB,CW)
ROBOT A Uplink	145.831	145.840		(CW)
ROBOT A Downlink	29.408 or 29.454	29.458 or 29.504		(CW)
Beacon/ROBOT	29.408	29.458		(CW)
Beacon/ROBOT	29.454	29.504		(CW)
Mode K Uplink	21.210 - 21.250	21.260 - 21.300		(USB,CW)
Mode K Downlink	29.410 - 29.450	29.460 - 29.500		(USB,CW)
ROBOT K Uplink	21.129	21.138		(CW)
ROBOT K Downlink	29.408 or 29.454	29.458 or 29.504		(CW)
Beacon/ROBOT	145.912	145.862		(CW)
Beacon/ROBOT	145.959	145.908		(CW)
Mode T Uplink	21.210 - 21.250	21.260 - 21.300		(USB,CW)
Mode T Downlink	145.910 - 145.950	145.960 - 146.000		(USB,CW)
ROBOT T Uplink	21.129	21.138		(CW)
ROBOT T Downlink	145.912 or 145.959	145.862 - 145.908		(CW)

MO-46 TIUNGSAT-1 {26548}

Switches on by request if power OK

Broadcast callsign:	MYSAT3-11
BBS:	MYSAT3-12:
NUP	MYSAT3-10
Uplink 9600 FSK	145.850 or 145.925
Downlink 38k4 FSK	437.325 MHz

NO-44 PCsat {26931} Refer to

http://www.ew.usna.edu/~bruninga/pcsat/contract.txt

Broadcast callsign	PCSAT-11	145.828 or
BBS callsign	PCSAT-12	144.390
	W3ADO-2 or -1	
Uplink 1200 bps	AFSK (Packet) UI	145.825
Uplink 9600 FSK	Higher power station	435.250

SO-41 SAUDISAT-1A {26545}

Bdcst call SASAT1-11, BBS call SASAT1-12

Uplink	145.850 linear pol.
Downlink 9600 FSK	437.075 LHC pol.
May 2002:	using FM voice over USA & Europe

NO-45 Sapphire {26932}

Satellite QUIck Research Testbed (SQUIRT)

Downlink	1200 bps or voice	437.097
UI digipeating only		

SO-42 SAUDISAT-1B {26549}

Bdcst call SASAT2-11, BBS call SASAT2-12

Uplink	TBA
Downlink 9600 FSK	436.075 MHz
	Not operational yet.

SO-43 Starshine3 {26929}

STRSHN

Downlink	1200 bps packet	145.825
	9600 FSK	145.825

UO-14 (UoSAT-3) {20437} - FM repeater

Uplink	NBFM	145.975
Downlink		435.070+- Doppler

Note: It is important to track the downlink frequency for best reception.

UO-36 (UoSat-12) {25693}

Bdcst call UO121-11, BBS call UO121-12 for 38K4

Uplink	Uplink is always 9600 bps.
9600 baud FSK	145.960
Downlink	437.025 9600 baud FSK or
	437.400 38400 baud FSK

Bdcst call UO120-11, BBS call UO120-12 for 9600

S-Band beacon 2401 MHz

AO-16 (OSCAR 16 Pacsat) {20439}

Bdcst Call PACSAT-11, BBS call PACSAT-12

Uplinks:	145.900, 145.920,
AFSK/FM (1200 BPS)	145.940, 145.960
Downlink (PSK)	437.025 (BPSK/SSB)
Downlink (Raised Cosine)	437.050 (BPSK/SSB)
Downlink (S band)	2401.143 (BPSK/SSB)

Digipeater may be operative

LO-19 (OSCAR 19 LuSat) {20442}

Bdcst call LUSAT-11, BBS call LUSAT-12

Uplinks:	145.840, 145.860,
AFSK/FM 1200 BPS	145.880, 145.900
Downlink (PSK)	437.150 (BPSK/SSB)
Downlink (Raised Cosine)	437.125 (BPSK/SSB)
CW Beacon	437.125 (CW)

UI Digipeater operative

FO-20 (FUJI OSCAR 20) JAS-1b {20480}

8J1JBS

Beacon	435.795 (CW)
Mode JA Uplink	145.900 - 146.000 (LSB/CW)
Mode JA Downlink	435.900 - 435.800 (USB/CW)

UO-22 (OSCAR 22 UoSat 5) {21575}

Bdcst call UOSAT5-11, BBS call UOSAT5-12

Downlink	435.120 (9600 FSK/FM)
Uplink (9600 FSK/FM)	145.900 or 145.975

KO-23 (Kitsat OSCAR 23) {22077}

Bdcst call HL01-11, BBS call HL01-12

Downlink	435.175 (9600 FSK/FM)
Uplink (9600 FSK/FM)	145.900 or 145.850

Note: nearing end of operational lifetime.

KO-25 (Kitsat OSCAR 25) {22828}

Bdcst call HL02-11, BBS call HL02-12

Downlink 435.175	436.500 (9600 FSK/FM)
Uplink (9600 FSK/FM)	145.870 or 145.980

IO-26 (ITAMSAT) {22826}

Bdcst call ITMSAT-11, BBS call ITMSAT-12

Uplinks (AFSK/FM)	145.875, 145.900,
	145.925, 145.950
Downlink (1200 PSK)	435.822 (BPSK/SSB)
UI digipeating for APRs	Digipeater operational

FO-29 (FUJI OSCAR 29) JAS-2 {24278}

8J1JCS

Beacon	435.795 (CW)
Beacon	435.910 (PSK - DigiTalker)
Mode JA Uplink	145.900-146.000 (LSB/CW)
Mode JA Downlink	435.800-435.900 (USB/CW)
Mode JD Uplinks	145.850, 145.870,
1200 bps AFSK/FM	145.890, 145.910
Mode JD Uplink 9600	145.870 FSK 9600 bps
Mode JD Downlink	435.910 PSK 1200 or
	FSK 9600

Refer to latest ANS bulletins on the Internet or your local packet radio BBS for latest updates.

Weather Satellites

NOAA-15, NOAA-16	137.500		
NOAA-12, NOAA-14	137.62		
MET-3/5	137.30	RESURS	137.85

OO-38 OPAL {26063}

KE6RFX

Uplink FSK 9600	437.100
Downlink FSK 9600	437.100
	useful for APRS

AO-40 P3D {26609}

	S2	K
Uplinks (LSB)	435.80 – 435.55 or 1269.50 - 1269.25 L1 1268.575 – 1268.325 L2	435.80 –435.55 or 1269.50-1269.25
Downlink (USB)	2401.225 -2401.475	24048.025 to 24048.275
Rudak A/B	2401.747/720 /867/847	
Beacons	2401.323	24048.035

ISS (ALPHA) {25544}

Uplink Packet 1200 AFSK	145.990	
Voice (FM)	144.490	Callsigns
Downlink (FM)	145.800	NA1SS
		RS0ISS, RZ3DZR
Packet (AFSK/FM)	RS0ISS	

ATC and EVA 143.625 MHz `RS0ISS & RS0ISS-1`