

SPACE RELATED HAM FREQS

MAY 2018

INTERNATIONAL SPACE STATION

ID and Usage	Downlink	Uplink
ITU REGION 1 & 2 FM Voice	145.800	144.490 [-1.31 split]
Global U/v FM REPEATER	145.800	437.800
Global V/u FM RPTR w/PL	437.800	145.990 PL 67.0.
Global L/v FM Voice Repeater	145.800	1269.650
AX.25 1200 Bd AFSK Packet	Down/Up 145.825	
FM SSTV Global	145.800	
UHF FM SIMPLEX [rare]	Down/Up 437.550	

VHF-1 143.625 FM Main Russian comms, especially over Russian Federation.

VHF-2 130.167 AM Downlink from Service Module, Russian suit comms during EVA.

121.750 and 121.125 FM Russian Orlan space suits during EVA's.

AMSAT FOX-1 SATELLITES, FM

Name/ID	Uplink FM	Downlink	Status
	67.0 PL	FM	
AO-85 (Fox-1A)	435.170	145.980	Operational
AO-91 (RadFx Sat) (Fox-1B)	435.250	145.960	Operational
AO-92 (Fox-1D) (*switched as needed)	435.350 1267.359*	145.880	Operational
Fox-1Cliff *switched	435.300 1267.300	145.920	Summer 2018
SaudiSat-1C SO-50	145.850 (67.0)	436.795	Operational

SO-50 also has a 10 minute timer, arm by 2 second carrier with 74.4 PL.

CAS-3H (LilacSat-2)	144.350	437.200	Operational
-------------------------------	---------	---------	-------------

More birds coming 2018, check www.amsat.org for launch details.

LINEAR ANALOG SSB/CW SATELLITES

AO-7 Mode A – V/a Non-Inverting Active only in sunlight, preferably >24 hours,
Uplink USB 145.850 ↔ 145.950 so 24 hr timer switches to Mode B.
Downlink USB 29.400 ↔ 29.500 Beacon on 29.502.

AO-7 Mode B – U/V Inverting Active only in sunlight.
Uplink LSB 432.125 ↔ 432.175
Downlink USB 145.975 ↔ 145.975 Beacon on 145.925.

AO-73 (FUNcube-1) – U/v Inverting Transponder active in eclipse or on
Uplink LSB 435.150 ↔ 435.130 weekends.
Downlink USB 145.950 ↔ 145.970 Beacon on 145.950 telemetry

FO-29 (JAS-2) – V/u Inverting
Uplink LSB 146.000 ↔ 145.900
Downlink USB 435.800 ↔ 435.900 Beacon on 435.795

XW-2A (CAS-3A) – U/v Inverting Digital telemetry 145.640, GMSK
Uplink LSB 435.030 ↔ 435.050 at 9.6/19.2 kbps.
Downlink USB 146.685 ↔ 145.665 CW beacon 145.660

XW-2B (CAS-3B) – U/v Inverting Digital telemetry 145.705, GMSK
Uplink LSB 435.090 ↔ 435.110 at 9.6/19.2 kbps
Downlink USB 145.750 ↔ 145.730 CW beacon 145.725

XW-2C (CAS-3C) – U/v Inverting Digital telemetry 145.770, GMSK
Uplink LSB 435.150 ↔ 435.170 at 9.6/19.2 kbps
Downlink USB 145.815 ↔ 145.795 CW beacon 145.790

This is NOT intended to be an inclusive listing, as old ones flame out and new ones are launched. I did not list most of those active in other areas. There are a number of new birds scheduled for 2018 launches. Some of these are in the FUNcube format, and you can download the FUNcube Dashboard software to receive and display the telemetry.

Enjoy! Don't forget to investigate and select your favorite birds and tracking software, and then there's the automatic antenna tracking.... down another fun wormhole we go!
Go to www.amsat.org for the latest.

Roger, KD9EPX May 24, 2018.