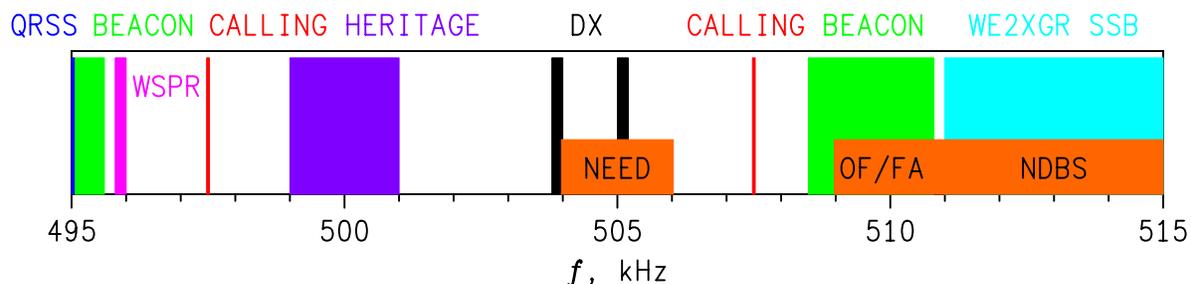


BAND PLAN FOR WD2XSH
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Revision D - December 17, 2010

The objectives of this band plan are (a) to make full use of the combined spectrum available to WD2XSH, WE2XGR, and other US experimental licenses, and (b) to minimize interference among stations, (c) to promote communication as well as beaoning, and (d) to promote use of all of the spectrum available to us, including the WE2XGR band from 510 to 515 kHz (part of which may be included in what we seek at WRC-12). To this end, the beacons are placed at the top and bottom ends of the band and the middle is left for communication.

The situation with our band is somewhat like that of 160 meters prior to decommissioning of Loran-A in 1980. To avoid interference with nearby NDBs, the frequencies useable by some of our stations are limited to a portion of the band (see M09-1). One consequence of this and the different frequency bands of the different licenses is that there are now two designated calling frequencies.

The basic band plan appears below, followed by specific frequency assignments. QRSS and CW/PSK beacons shall be operated only in the designated bands. The designated WSPR band was chosen to be common to all WD2XSH stations while avoiding conflicts with NEED and SYNOPTIC. The Europeans who now use 503.8 - 504.0 kHz for WSPR are free to use our designated band.



Frequencies have been assigned to stations that have been on the air during the past year, or are known to be on the air now. Frequencies will be assigned to other stations as they get on the air. The experiment coordinator will attempt to honor requests for frequencies, but cannot guarantee that a requested frequency can be assigned. Frequencies may be changed as more stations get on the air or we have interference problems.

BASIC BAND PLAN

f, kHz	USE
495.0 - 495.1	QRSS, 1-Hz spacing, 40 stations
495.1 - 495.8	CW/PSK beacons midwest, 50-Hz spacing, 15 stations
495.8 - 496.0	WSPR
496.0 - 499.0	Comms
497.5	Calling frequency

499.0 - 501.0	Heritage stations and CW calling/bulletin
501.0 - 503.8	Comms
503.8 - 504.0	DX window
504.0 - 505.0	Comms
505.0 - 505.2	DX window
505.2 - 508.5	Comms
507.5	Calling frequency
508.5 - 510.0	CW/PSK beacons east, south, west, Pacific, 50-Hz spacing, 30 stations
510.0 - 511.0	WE2XGR beacons
511.0 - 515.0	WE2XGR SSB and wideband modes

OTHER IN-BAND SIGNALS

503.976	NEED LSB
505.0	NEED carrier
506.024	NEED USB
508.976	OF/FA LSB
510.0	OF/FA carrier
511.024	OF/FA USB

FREQUENCY ASSIGNMENTS

Frequencies for QRSS and CW/PSK beacon have been assigned to those stations (a) who operated during the last season (09/08 - 07/09) or (b) who have gotten on the air during the current season. Others will be added as they come on the air. Beacon frequencies were not assigned to /23 because we assume he will beacon as WE2XGR/1. Non-WD2XSH stations who are on the air may request assignments in these bands.

QRSS FREQUENCIES

495.020	WD2XSH/14	W1FR
495.021		
495.022	WD2XSH/20	N6LF
495.023		
495.024	WD2XSH/19	K9EUI
495.025		
495.026	WD2XSH/29	KN8AZN
495.027		
495.028	WD2XSH/6	W5THT
495.029		
495.030	WD2XSH/17	AA1A
495.031		
495.032	WD2XSH/34	WORPK

495.033
 495.034 WD2XSH/10 W4DEX
 495.035 WD2XSH/7 W5JGV XTAL control
 495.036 WD2XSH/23 K2ORS
 495.037
 495.038 WD2XSH/12 AI 8Z
 495.039

 495.040 WD2XSH/37 W1XP
 495.041
 495.042 WD2XSH/15 W5OR
 495.043
 495.044 WD2XSH/16 WEOH
 495.045
 495.046 WD2XSH/31 WA1ZMS
 495.047
 495.048 WD2XSH/44 AC6QV
 495.049

 495.050 WD2XSH/36 W5GHZ (needs 10-Hz spacing)
 495.051
 495.052 KL7Q
 495.053
 495.054
 495.055 WD2XSH/38 KN1H (unique synthesis)
 495.056
 495.057 WD2XSH/45 KL7UW
 495.058
 495.059
 495.060 WD2XSH/41 W1HK Unmodulated carrier for antenna testing

CW / PSK BEACON FREQUENCIES - MIDWEST AND ALASKA

495.100 WD2XSH/16 WEOH
 495.150 KL7Q
 495.200 WD2XSH/34 WORPK
 495.250
 495.300 WD2XSH/19 K9EUI
 495.350
 495.400 WD2XSH/36 W5GHZ
 495.450
 495.500 WD2XSH/12 AI 8Z
 495.550
 495.600 WD2XSH/45 KL7UW

CW / PSK BEACON FREQUENCIES - EAST, SOUTH, WEST, PACIFIC

508.500 WD2XSH/14 W1FR
 508.550
 508.600 WD2XSH/20 N6LF
 508.650
 508.700 WD2XSH/31 WA1ZMS
 508.750
 508.800 WD2XSH/6 W5THT
 508.850
 508.900 WD2XSH/7 W5JGV XTAL control
 508.950 --
 508.976 OF/FA LSB

509.000 --
 509.100 WD2XSH/42 K2LRE
 509.150
 509.200 WD2XSH/10 W4DEX
 509.250
 509.300 WD2XSH/15 W5OR
 509.350
 509.400 WD2XSH/17 AA1A
 509.450
 509.500 WD2XSH/29 KN8AZN

509.550
 509.600 WD2XSH/37 W1XP
 509.650
 509.700 WD2XSH/44 AC6QV
 509.750
 509.800 WD2XSH/38 KN1H
 509.850
 509.900
 509.950 --

510.000 OF/FA carriers

WE2XGR SUGGESTED QRSS / BEACON FREQUENCIES

510.300 WE2XGR/1 K2ORS
 510.400 WE2XGR/2 W1VD
 510.500 WE2XGR/3 W1TAG
 510.600 WE2XGR/6 W2ZM
 510.700 WE2XGR/4 BA
 510.800 WE2XGR/5 BA

511.024 OF/FA USB

NOTES

QRSS

QRSS frequencies are spaced 1-Hz apart so that all stations will fit within a 40-Hz bandwidth. This allows almost all of the stations to be captured in a single Argo QRSS10 window (37 Hz). Transmitting stations obviously must be able to hold their frequency within a few tenths of a Hz. The frequencies have been chosen to separate stations within a geographic cluster.

Suggested QRSS ID: *XSHnn* ,

plus full CW ID at the beginning and end of transmission and every 30 minutes during transmission.

CW/DATA-Beacon Frequencies

Frequencies for normal-speed CW and data beacons have a 50-Hz spacing and are arranged like the QRSS frequencies to separate stations in a geographic cluster. It is suggested that you repeat your ID number three times; i.e.,

de WD2XSH/14/14/14

and allow small breaks for listening.

Calling Frequencies

Use these for calling CQ or another station. Then QSY to another frequency to complete the QSO.

QSOs

When working other WD2XSH stations, you may refer to the other station by his ID number; e.g.,

17 de WD2XSH/14.

A full ID of the other station is recommended at the beginning and end.