

WD2XSH status report: March 1 - May 31, 2014**Prepared by Fritz Raab, W1FR, Experiment Coordinator****June 23, 2014****1. SUMMARY OF OPERATIONS**

This report provides a summary of WD2XSH activity during the Spring of 2014. The key statistics of our operations during this period are:

- Number of QSOs: 0 additional, total 522;
- Number of reports via web site: 9 additional, total 16,163;
- Operating hours: 4,077 additional, total 168,472; and
- Number of interference complaints: 0.

All statistics are based upon the end of the reporting period (05/31/14). Only transmitting hours are included. Only WD2XSH stations are included as only they submit logs.

2. ADMINISTRATIVE

Nothing to report.

3. COMMUNICATIONS

Activity has continued strong into the spring, in spite of the increasing noise level and decreasing amount of night time. Many transmissions used digital modes and other experimental licenseses were quite active. The locations of current US experimental stations are shown in Figure 1.

WD2XSH/6 (W5THT) is QRT for the time being. Pat has been one of our most active operators.

WD2XSH/14 (W1FR) is now QRT this spring in preparation for moving. A local amateur KK1K will take over this site and will identify as /47.

WD2XSH/16 (WE0H) is now QRT, but will be operating under his own experimental license WD2XGI, which was modified to add 460 - 490 kHz.

After one season of operation, WG2XSV is QRT because its operator (Neil Klagge, W0YSE) is moving.

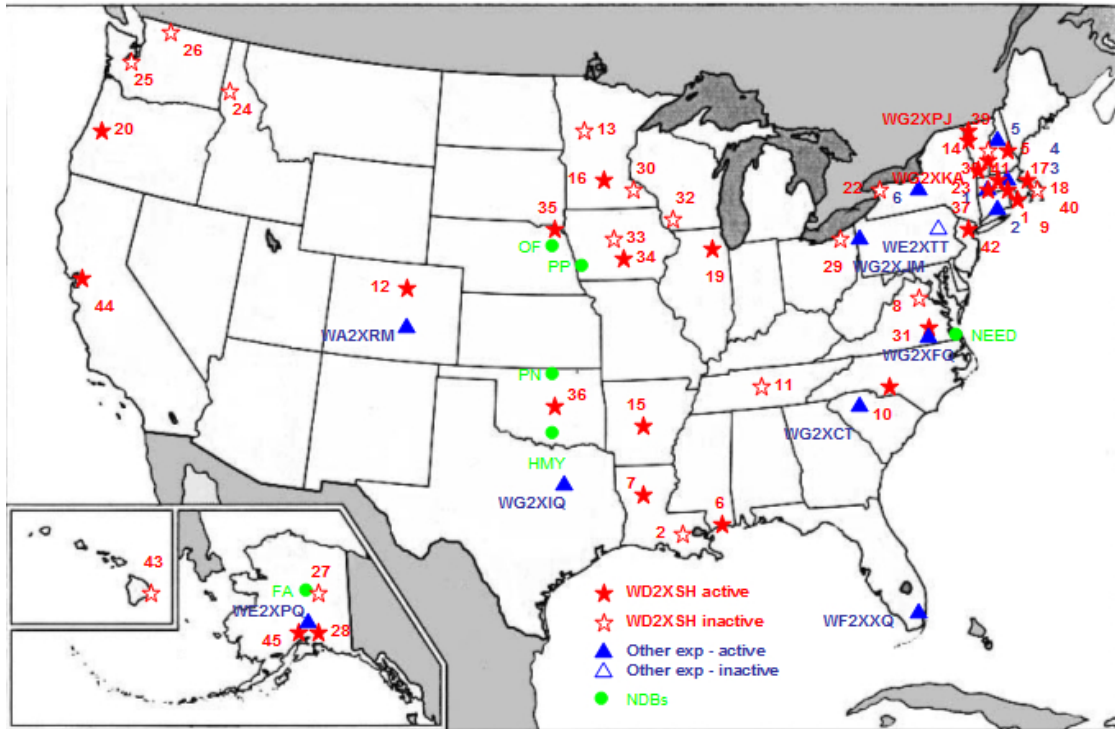


Figure 1. Locations and status of US 500-kHz experimental stations.

4. ACTIVITIES

Rudy Severns N6LF gave a presentation on the 630-meter band at the SeaPac conference.

John Langridge KB5NJD - WG2XIQ gave a presentation at the North Texas Hamcon in June and reported strong interest a new 630-meter band.

5. INTERFERENCE

There have been no reports of interference, however, we are continuing to monitor three potential interference problems: No interference problems have been observed in the 472 - 479-kHz band.

- NDB OF continues to operate on 510 kHz.
- We continue to hear NEED on 505 kHz from time to time.
- NDB FA continues to operate on 510 kHz.

6. OTHER US EXPERIMENTAL LICENSES

The frequency bands of US and foreign amateur and experimental licenses are shown in Figure 2. Some of the foreign allocations have been terminated as national regulators approve amateur operation in the 630-meter band. The parameters of U.S. experimental licenses are given in Appendix B, and the known unlicensed (part-15) operators are given in Appendix E.

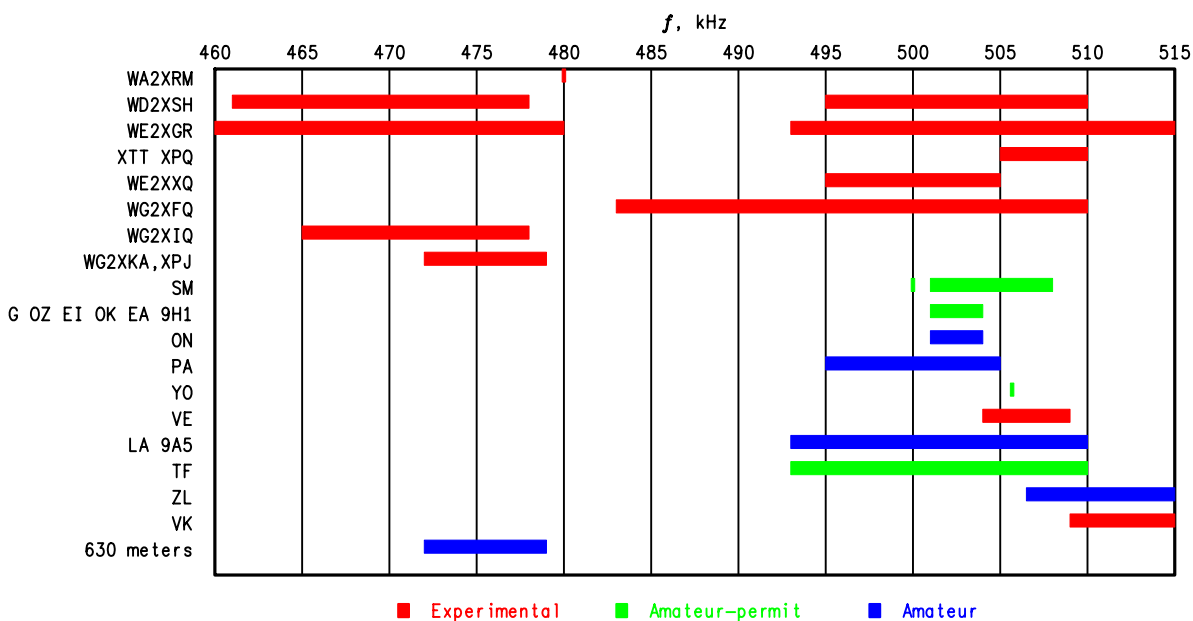


Figure 2. Worldwide amateur activity near 500 kHz.

Three new experimental licenses have been issued and one existing license was modified to include frequencies in the range of 472 - 479 kHz:

- WD2XGI in Minnesota,
- WH2XAR in Arizona,,
- WH2XCR in Hawaii, and
- WH2XES in Texas.

7. INTERNATIONAL AMATEUR ACTIVITIES

France now permits all of its amateurs to use 630 meters.

Vietnamese amateurs may use 630 meters as of March 31.

Canadian amateurs may use 630 meters as of May 4.

Amateurs in the following countries now have permission to use the 630-meter band:

Germany, Greece, Malta, Monaco, Norway, Phillipines, Czech Republic, Ireland, Switzerland, New Zealand, Finland, Spain, France, Poland, Burgaria, Canada, Vietnam.

It is ironic that the quest for 630 meters was initiated in the USA and US amateurs were the first on the 500-kHz band under experimental licenses. However, it looks like we will be one of the last ones to have true amateur access to the band.

8. HERITAGE (MUSEUM) OPERATIONS

Appendix D identifies the known heritage stations in the USA.

The Maritime Radio Historical Society will conduct its annual "Night of Nights" on July 12. Stations NMC, NMQ, NMW, and KLB may operate on 448, 472, and 500 kHz.

9. REGULATORY

Nothing new to report. The FCC has yet to act upon the NPR for 137 kHz.

10. MISCELLANEOUS

The Spectrum Laboratories software developed by DL9YHF was used to search for pings from the lost Malaysian airliner. This is the same software that many amateur experimenters are using on 630 meters and other LF and MF bands.

11. PLANS

There are no special plans for summer quarter.

APPENDIX A. WD2XSH STATISTICS

STATION	CALL	STATUS	11/30/12		02/28/13		LAST LOG
			HOURS	QSOs	HOURS	QSOs	
WD2XSH/1	W1NZR	Inactive	4	3	4	3	02/13
WD2XSH/2	W5TVW	Inactive	13	22	13	22	08/07
WD2XSH/5	KW1I	ON	106	57	108	57	05/14
WD2XSH/6	W5THT	OFF	12268	202	12268	202	01/14
WD2XSH/7	W5JGV	ON	26689	1	27946	1	05/14
WD2XSH/8	N4ICK	Inactive	0	0	0	0	-

WD2XSH/9	W2ILA	Inactive	10	27	10	24	05/10
WD2XSH/10	W4DEX	Inactive	2390	30	2390	30	05/13
WD2XSH/11	WS4S	Inactive	810	12	810	12	11/10
WD2XSH/12	AI8Z	ON	36886	26	37231	26	05/14
WD2XSH/13	K0J0	SK	997	7	997	7	08/08
WD2XSH/14	W1FR	ON 11	744	11	755	22	04/14
WD2XSH/15	W50R	OFF	14140	2	14142	2	05/13
WD2XSH/16	WE0H	Inactive	1356	16	1357	16	02/14
WD2XSH/17	AA1A	Inactive	11802	23	11802	31	03/12
WD2XSH/18	N1EA	Inactive	3959	0	3959	0	04/08
WD2XSH/19	K9EUI	ON	1415	3	1431	3	03/14
WD2XSH/20	N6LF	Moved	2543	7	2671	7	05/14
WD2XSH/21	WORW	Dropped	652	0	652	0	02/11
WD2XSH/22	WB2FCN	Inactive	-	-	-	-	-
WD2XSH/23	K2ORS	Inactive	112	1	112	1	08/09
WD2XSH/26	W7WKR	ON	536	0	696	0	05/14
WD2XSH/28	KL7Q	Inactive	72	6	72	6	08/13
WD2XSH/29	KN8AZN	SK	499	5	499	5	01/13
WD2XSH/31	WA1ZMS	ON	33261	8	35430	8	05/14
WD2XSH/34	WORPK	Moved	153	1	153	1	04/11
WD2XSH/35	K0HW	Inactive	11	0	11	1	11/12
WD2XSH/36	W5GHZ	Inactive	1180	0	1180	0	08/10
WD2XSH/37	W1XP	ON	7162	17	7162	17	05/14
WD2XSH/38	KN1H	ON	2549	2	2549	2	02/14
WD2XSH/41	W1HK	Inactive	19	13	19	13	04/13
WD2XSH/42	K2LRE	ON	184	0	184	0	05/14
WD2XSH/44	AC6QV	QRT (Moved)	72	0	72	0	08/12
WD2XSH/45	KL7UW	Inactive	180	6	180	6	02/14
WD2XSH/46	NO3M	Now WG2XJM	1612	5	1612	5	10/12
TOTAL 05/31/13		10 ON	149,332	504			
TOTAL 08/31/13		14 ON	153,713	504			
TOTAL 11/30/13		15 ON	157,733	514			
TOTAL 02/28/14		12 ON	164,393	522			
TOTAL 05/31/14		12 ON	168,472	522			

Notes:

Operating hours and QSOs are derived from logs through May 31, 2014. The statistics in this appendix were compiled by Rudy Severns using the Excel logs submitted by the stations. Decreases in the number of operating hours or QSOs from the previous total indicate correction of errors. Several stations are off the air because of health problems, equipment problems, or relocation. "ON" means operation within the past year. Stations who do not submit logs each month are subject to an automatic QRT order and must remain off the air until their log has been brought up to date.

APPENDIX B. US EXPERIMENTAL LICENSES

CALL	NUMBER	QTH	f, kHz	ERP, W	DATES	NOTES
WA2XRM	1	CO	480	100	01/01/09 - 01/01/14	
WD2XGI	1	MN	460 - 490	1	04/17/14 - 05/01/19	
WD2XSH	43	USA	495 - 510 461 - 478	20	09/13/06 - 08/01/15	
WE2XGR	8	New England	493 - 515 460 - 480	1000	09/05/07 - 04/15/15	
WE2XFX	1	OK	505 - 510	20	07/27/07 - 07/26/12	Exp.
WE2XTT	1	PA	505 - 510	1500*	09/08/08 - 09/01/13	
WE2XPQ	1	AK	505 - 510 460 - 480	200	06/05/08 - 06/01/18	
WE2XVY	1	AZ	500 - 510	200	12/09/08 - 12/01/10	SK
WF2XAU	1	FL	505 - 510	10	06/23/09 - 01/01/10	Exp.
WF2XXQ	1	FL	495 - 505	500	10/14/11 - 10/01/16	
WG2XCT	1	SC	465 - 510	500	03/14/12 - 03/01/14	
WG2XFQ	1	VA	483 - 510	20	06/08/12 - 06/01/14	
WG2XIQ	1	TX	465 - 478	1	09/12/12 - 09/01/14	
WG2XJM	1	PA	460 - 480 495 - 515	100 100	10/24/12 - 11/01/14	
WG2XKA	1	VT	460 - 490	1	10/24/12 - 11/01/14	
WG2XPJ	1	VT	472 - 479	1	05/14/13 - 05/01/15	
WG2XSV	1	UT	472 - 479	1	11/13/13 - 11/01/15	
WG2XUX	1	KS	472 - 429	1	08/29/13 - 09/01/15	
WG2XXM	1	OK	472 - 479	1	12/03/13 - 12/01/15	
WH2XAR	1	AZ	472 - 479	1	04/01/14 - 04/01/16	
WH2XCR	1	HI	465 - 490	1	04/09/14 - 04/01/16	
WH2XES	1	TX	465 - 478	1	05/16/14 - 06/01/16	

* RF output to antenna

APPENDIX C. FOREIGN AMATEUR/EXPERIMENTAL BANDS

The following table gives the amateur/experimental authorizations that were in force at some time prior to approval for amateur operation in the 630-meter band. Some of these allocations have been or will be phased-out concurrent with approval of amateur operation.

COUNTRY	TYPE	BAND, kHz	ERP, W
Sweden	NoV	500, 501 - 508	20 CW, SSB, data
Germany	Exp	505.0 - 505.2	9
Czech Republic	Exp	501-504, 505.60	10
UK	NoV	501 - 504	10

Belgium	Amateur	501 - 504	5
Canada	Exp	504 - 509	20
Norway	Am/Herit	493 - 510	100 (RF) CW only
Romania	NoV	505.68	100 (RF)
Denmark	NoV	501 - 504	20
Ireland	NoV	501 - 504	10 CW, PSK-31
Netherlands	Amateur	495 - 505	5
Iceland	NoV	493 - 510	100 CW
New Zealand	Amateur	505 - 515	20 200 Hz
Croatia	Exp	493 - 510	
Australia	Exp	505 - 515	
Spain	NoV	501 - 504	5 100 Hz
Malta 9H1	Amateur	501 - 504	10
Italy	NoV	501	One station
Finland	Amateur	472 - 479	1
France	Amateur	472 - 479	
Vietnam	Amateur	472 - 479	
Canada	Amateur	472 - 479	

The following countries have approved amateur operation in the international 630-meter band (472 - 479 kHz):

Germany, Greece, Malta, Monaco, Norway, the Phillipines, Czech Republic, New Zealand, Australia, Switzerland, Finland, Spain, France, Poland, Burgaria, Canada, Vietnam

This list has been changing frequently and is no doubt incomplete.

APPENDIX D. HERITAGE STATIONS

CATEGORY	CALLSIGN	FREQUENCIES	OPERATOR / QTH
Coastal	KSM	500, 426	MRHS, Bolinas, CA
	KFS		
	KPH	500, 426	MRHS, Bolinas, CA
	KLB	500, 488	Seattle, WA
	WLO	500, 438	Mobile, AL
New	WNE	500, 472	NEHRS, Stoneham, MA
	KDR	500, 482	Bellevue, WA
	WFT	500, 486	KZ4RV, Palmeto, FL
USCG	NMC	500, 448, 472	Bolinas, CA
	NMN	500, 448, 468	Chesapeake, VA
	NOJ	500, 416, 470	Kodiak, AK
Ships	KKUI		SS American Victory

	KYVM		SS Red Oak Victory
	KECW		SS Lane Victory
	KXCH		SS Jeremiah O'Brien
	KHRC		SS Matsonia
	NWVC	500, 512	LST325, Evansville, IN
	NTTH	500, 512	USS Cassin Young, Charleston, MA
	NEPL		USS Massachusetts, Fall River, MA
	NWKJ		USS Yorktown, Charleston, SC
Foreign	LGQ	493 - 510	Rogaland, Norway
	LM500LGN	493 - 510	Bergen, Norway

APPENDIX E. US PART-15 OPERATORS

<i>f</i> , kHz	ID	QTH	OPERATOR
510.1	HI	Monroe, CT	
510.903	EH	East Haven, CT	K1RGO
515.15	U	Magdalena, NM	Mike Mideke - Inactive

APPENDIX F. CANADIAN 500-kHz STATIONS

CALL	OP	QTH	STATUS
VX9BDQ	VE7BDQ	Delta, BC (near Vancouver)	Active
VX9MRC	VO1NA	Torbay, NFLD	Active
VX9ZZZ	VE1ZZ	Nova Scotia	Active
VX90HH	VE30HH	Richmond Hill, Ontario	Inactive