

**WD2XSH status report: September 1 - November 30, 2013****Prepared by Fritz Raab, W1FR, Experiment Coordinator****January 1, 2014****1. SUMMARY OF OPERATIONS**

This report provides a summary of WD2XSH activity during the Fall 2013. The key statistics of our operations during this period are:

- Number of QSOs: 10 additional, total 514;
- Number of reports via web site: 56 additional, total 16,066;
- Operating hours: 4,020 additional, total 157,733; and
- Number of interference complaints: 0.

All statistics are based upon the end of the reporting period (11/30/13). Only transmitting hours are included.

**2. ADMINISTRATIVE**

Nothing to report.

**3. COMMUNICATIONS**

As usual, activity increased as conditions improved during the fall. Much of the recent activity has involved WSPR-15. Reception over significant distances (e.g., Europe, Alaska) has been reported. Much of the activity is being undertaken by a few new experimental licensees. The locations of current US experimental stations are shown in Figure 1.

Brian Justin WA1ZMS - WD2XSH/31 has made Fessenden commemorative broadcasts via his license WG2XFQ. These AM transmissions used antique equipment including Heising modulation.

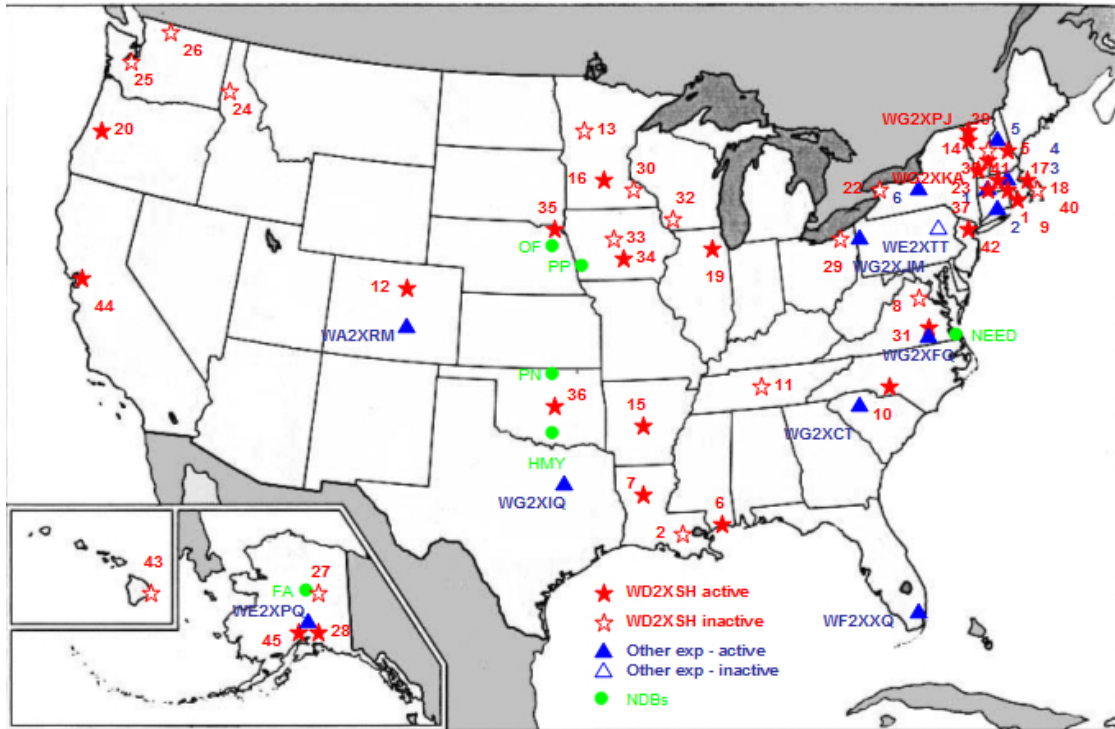


Figure 1. Locations and status of US 500-kHz experimental stations.

#### 4. ACTIVITIES

Nothing reported.

#### 5. INTERFERENCE

There have been no reports of interference, however, we are continuing to monitor three potential interference problems:

- 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.

We have observed possible three cases of improper transmissions in the 472-479-kHz band. On or about November 2, various sounds (gong, cuckoo, etc) were received in the northeast. One radio amateur inadvertently transmitted a WSPR signal using his amateur callsign. The WSPR data base reported a transmission from WE2XOY, which is not in the FCC data base.

## 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.

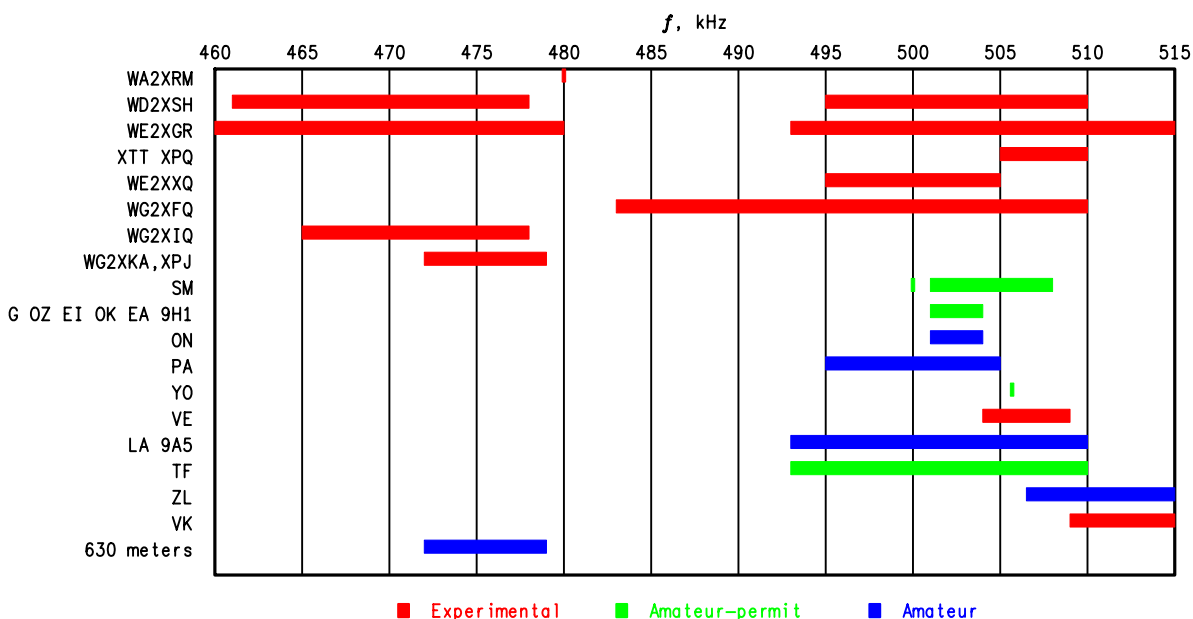


Figure 2. Worldwide amateur activity near 500 kHz.

Ken Robertson K5DNL was issued experimental license WG2XXM on December 3. He is authorized to transmit 1 W ERP from 472 to 479 kHz using CQ, PSK-31, FSK-31, and MSK-31. He is located in Shawnee, OK and was on the air immediately after the license was approved.

## 7. INTERNATIONAL AMATEUR ACTIVITIES

Canada issued a license to VO1MRC (VX1MRC) for operation on 472 - 479 kHz on December 14 and 15.

F6CIU has received permission to operate on 630 meters. He is the only known French amateur-radio operator to receive permission. A QSO with EI0CF has been reported.

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.

## 8. HERITAGE (MUSEUM) OPERATIONS

Appendix D identifies the known heritage stations in the USA.

The Maritime Radio Historical Society held its Night of Nights on July 12 to mark the anniversary of the last official CW transmission for maritime comms.

## 9. REGULATORY

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

## 10. MISCELLANEOUS

Nothing to report.

## 11. PLANS

There are no special plans for winter 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	89	57	97	57	11/13
WD2XSH/6	W5THT	ON	11508	189	11936	194	11/13
WD2XSH/7	W5JGV	ON	24814	1	24930	1	11/13
WD2XSH/8	N4ICK	Inactive	0	0	0	0	-
WD2XSH/9	W2ILA	Inactive	10	27	10	24	05/10
WD2XSH/10	W4DEX	ON	2390	30	2390	30	05/13
WD2XSH/11	WS4S	Inactive	810	12	810	12	11/10
WD2XSH/12	AI8Z	ON	33925	26	34913	26	11/13
WD2XSH/13	K0J0	SK	997	7	997	7	08/08
WD2XSH/14	W1FR	ON	655	11	702	11	11/13
WD2XSH/15	W50R	OFF	14140	2	14142	2	05/13
WD2XSH/16	WE0H	Inactive	1356	16	1357	16	05/13
WD2XSH/17	AA1A	Inactive	11802	23	11802	31	03/12

WD2XSH/18	N1EA	Inactive	3959	0	3959	0	04/08
WD2XSH/19	K9EUI	ON	1407	3	1415	3	01/13
WD2XSH/20	N6LF	Moved	2402	7	2473	7	11/13
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/28	KL7Q	ON	68	6	72	6	08/13
WD2XSH/29	KN8AZN	SK	499	5	499	5	01/13
WD2XSH/31	WA1ZMS	ON	29323	8	31390	8	11/13
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	7161	16	7161	16	08/13
WD2XSH/38	KN1H	ON	2333	2	2514	2	11/13
WD2XSH/41	W1HK	Inactive	19	13	19	13	04/13
WD2XSH/42	K2LRE	ON	150	0	161	0	11/13
WD2XSH/44	AC6QV	QRT (Moved)	72	0	72	0	08/12
WD2XSH/45	KL7UW	ON	180	6	180	6	08/13
WD2XSH/46	NO3M	Now WG2XJM	1612	5	1612	5	10/12
TOTAL	11/30/12	10 ON	138,954	503			
TOTAL	02/28/13	10 ON	143,787	504			
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			

**Notes:**

Operating hours and QSOs are derived from logs through August 31, 2013. 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	
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	50	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	100	10/24/12 - 11/01/14	
			495 - 515	100		
WG2XKA	1	VT	460 - 490	1	10/24/12 - 11/01/14	
WG2XPJ	1	VT	472 - 479	1	05/14/13 - 05/01/15	
WG2XUX	1	KS	472 - 429	1	08/29/13 - 09/01/15	
WG2XXM	1	OK	472 - 479	1	12/03/13 - 12/01/15	

\* 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		One station

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.

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
VX9OHH	VE3OHH	Richmond Hill, Ontario	Inactive