

Getting Started on High Frequency

A DIFFERENT AND EXCITING WORLD



Today We're Going to Cover:

- ▶ Why even do this?
- ▶ What are some major differences between operating on HF vs. VHF/UHF?
- ▶ How do I get started?
- ▶ What equipment do I need and how much does it cost?
 - ▶ Radios, Power supplies, Antennas, Computer connections and software, "Other" stuff
- ▶ Some examples of packages that are good starter points



Today We're Going to Cover:

- ▶ And, probably most importantly, how do I convince my spouse that this is a good thing.



So, why Do I Want to Do This Anyway?

It's Fun!

- ▶ A worldwide party line
 - Tens of thousands of people just waiting to talk to YOU.
- ▶ Lots of different modes to use
 - SSB, CW, 743 different digital modes, and, yes, FM and even SSTV
- ▶ Long distance transmitter hunts



So, why Do I Want to Do This Anyway?

It's Challenging, but Rewarding!

- ▶ Contesting
- ▶ Homebrewing
- ▶ Just you and the ionosphere figuring out how to get a signal through
- ▶ DX Certificates
- ▶ QRP



So, why Do I Want to Do This Anyway?

It's Important!

- ▶ Long distance emcomm
 - ▶ When the lights are out and internet/cell phones are down in all of eastern Washington, who you going to call?
 - ▶ Support for other parts of the country



What's Different from VHF/UHF?

- ▶ Propagation of signals is affected heavily by the sun cycle
- ▶ Grounding and bonding become much more important
- ▶ Noise levels tend to be higher
- ▶ Coax losses are much lower
- ▶ Frequency accuracy and stability are more critical
- ▶ Signal fading is much more of a factor
- ▶ Signals that aren't clean have a bigger impact on other users



How Do I Get Started?

- ▶ First, take out a second mortgage to buy your equipment
 - ▶ Icom IC-7851 HF-6m transceiver—on sale for \$12,498.95
 - ▶ Acom 2000A amplifier--\$6,599.99
 - ▶ SteppIR DB-42 80-6m 5 element Yagi beam antenna—\$9,360
 - ▶ Alpha Spid Big RAK antenna rotator with controller--\$2,199
 - ▶ Rohn 120' guyed tower with accessories--\$14,500 plus installation
 - ▶ Coax switches, remote control setup, grounding, etc.--\$6,000 estimated
- ▶ Total= ~\$65,000 and up once you've figured in tax, tower installation, permits, etc.



OK, Seriously, How Do I Get Started?

1. What Modes do I want to operate with:

- SSB,
- Digital
- CW
- what?



OK, Seriously, How Do I Get Started?

2. What activity interests me most?

- ▶ DXing
- ▶ Contests
- ▶ Digital
- ▶ Homebrewing
- ▶ Encomm
- ▶ Ragchewing
- ▶ 6 Meter



OK, Seriously, How Do I Get Started?

3. What bands do I think are most important to me?

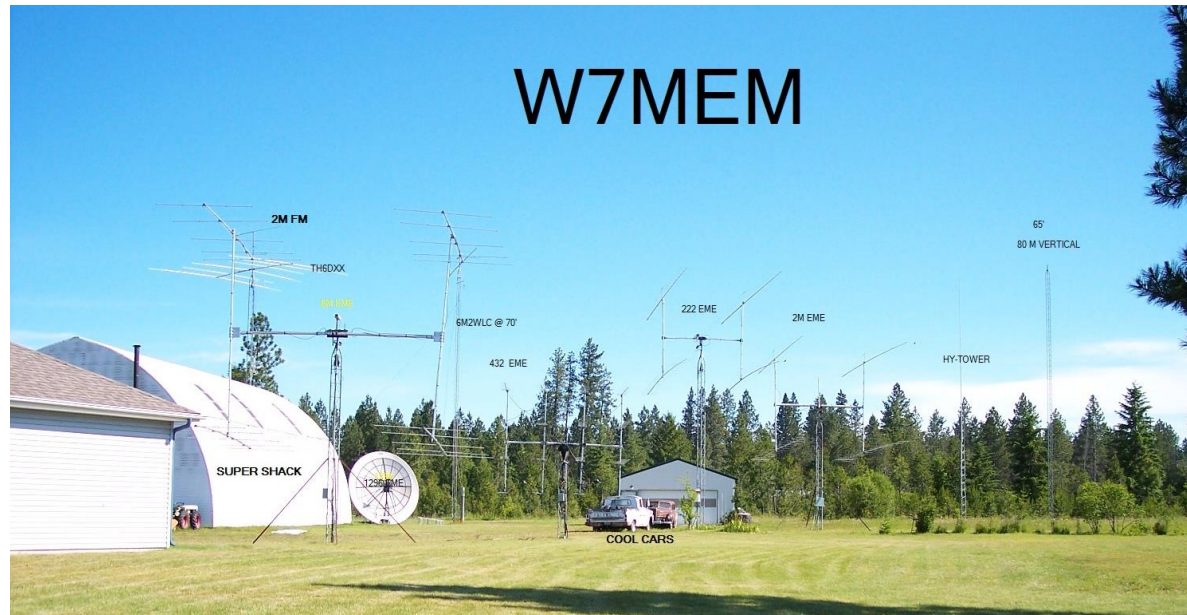
- ▶ The sun is not our friend right now; propagation is often tough
 - 40 meters is best all around right now
 - 80 meters is usually open pretty well at night
 - 20 meters is crowded, but often open during the day
 - 17 meters and up are iffy at best right now but 17 has moments of greatness
- ▶ On what bands are the nets and/or activities that interest me?



OK, Seriously, How Do I Get Started?

4. How much space horizontally and vertically do I have for (an) antenna(s)?

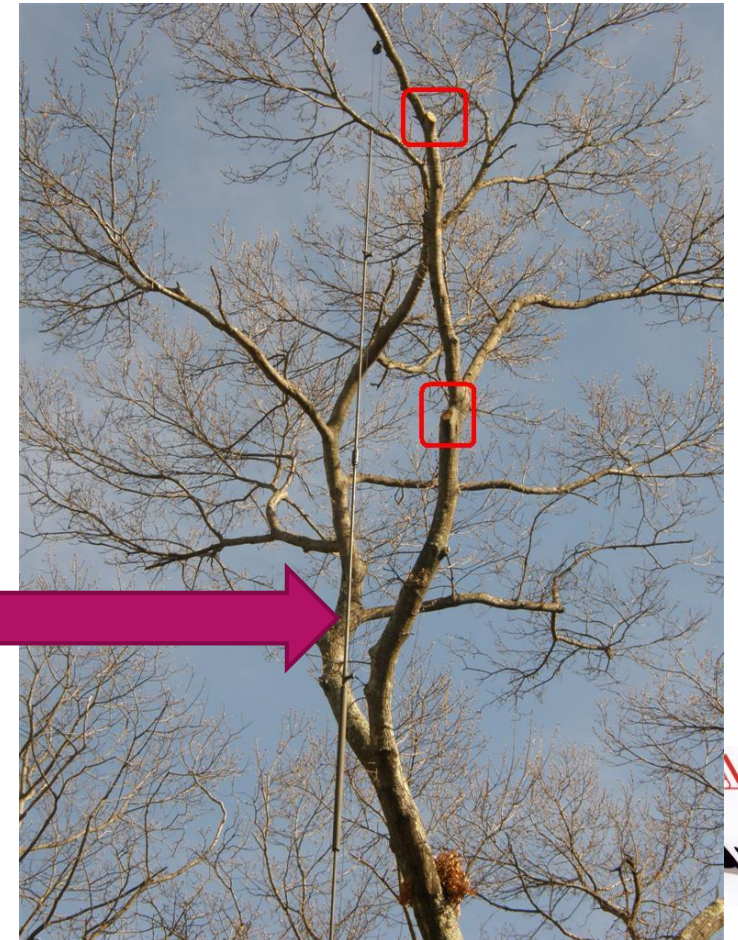
- ▶ How much space will my HOA, zoning, spouse let me use.



OK, Seriously, How Do I Get Started?

4. How much space horizontally and vertically do I have for (an) antenna(s)?

- ▶ How much space will my HOA, zoning, spouse let me use.
- ▶ Do I have trees I can use for antenna support?



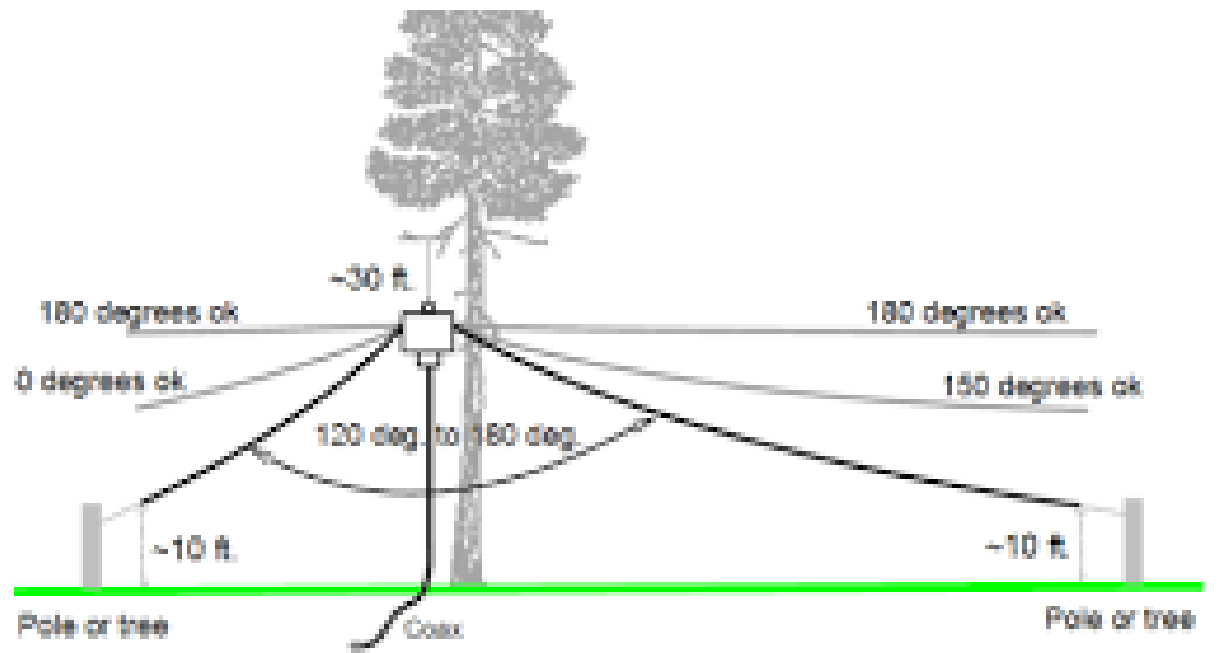
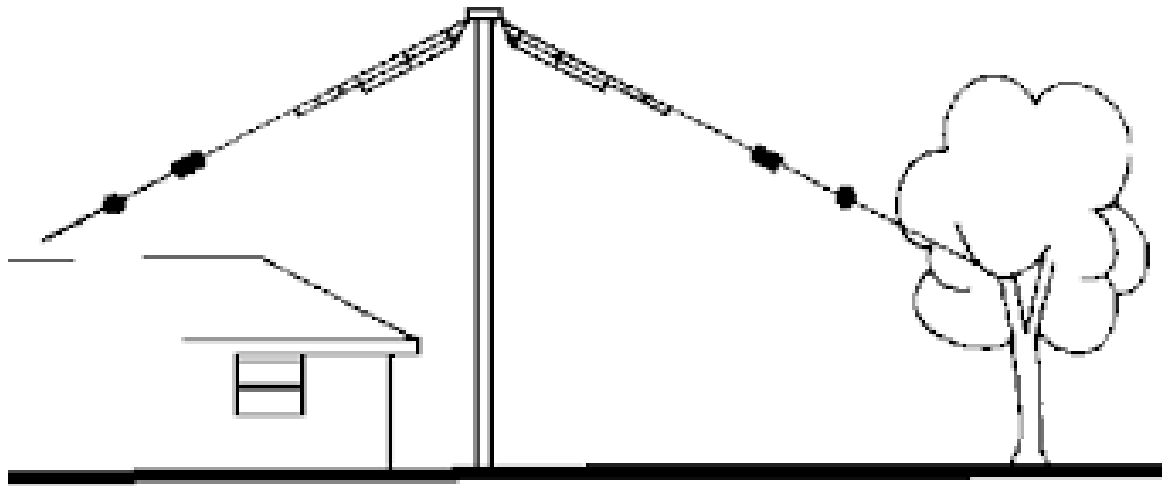
Transceivers



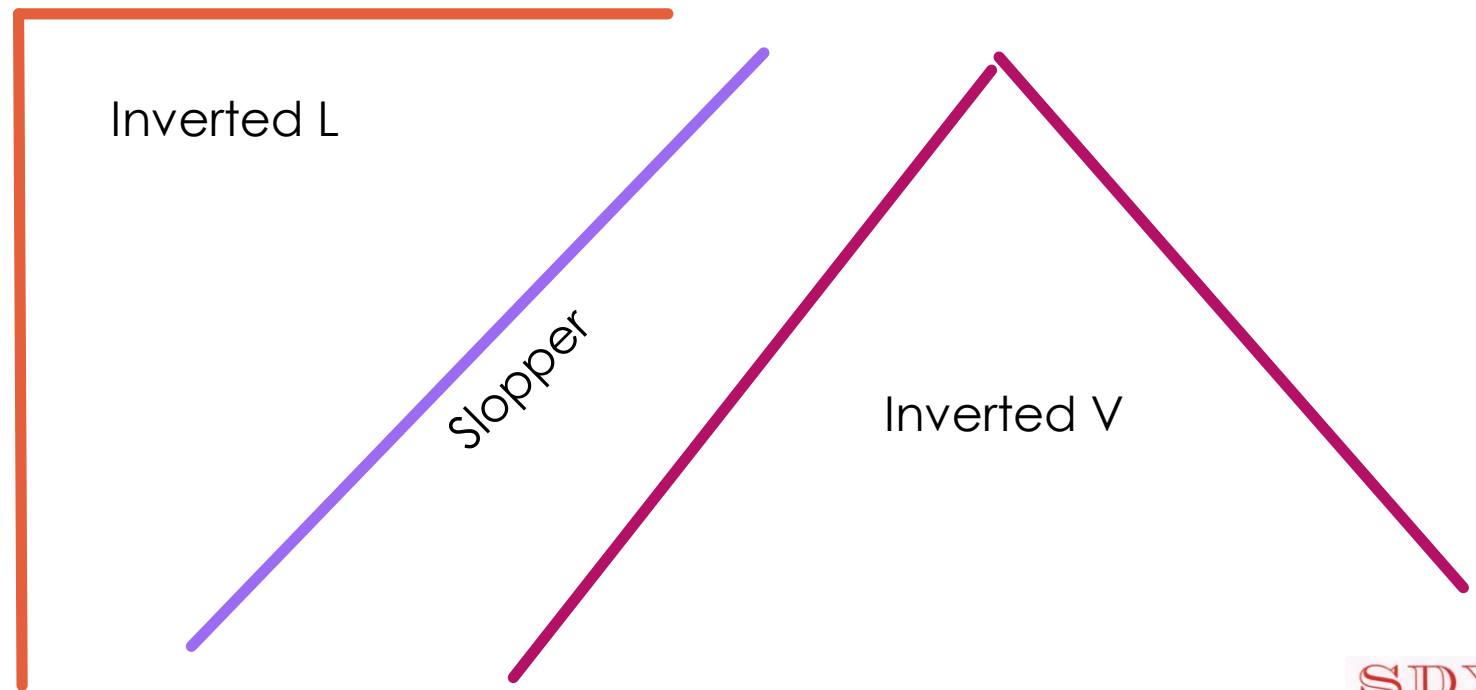
Power Supplies



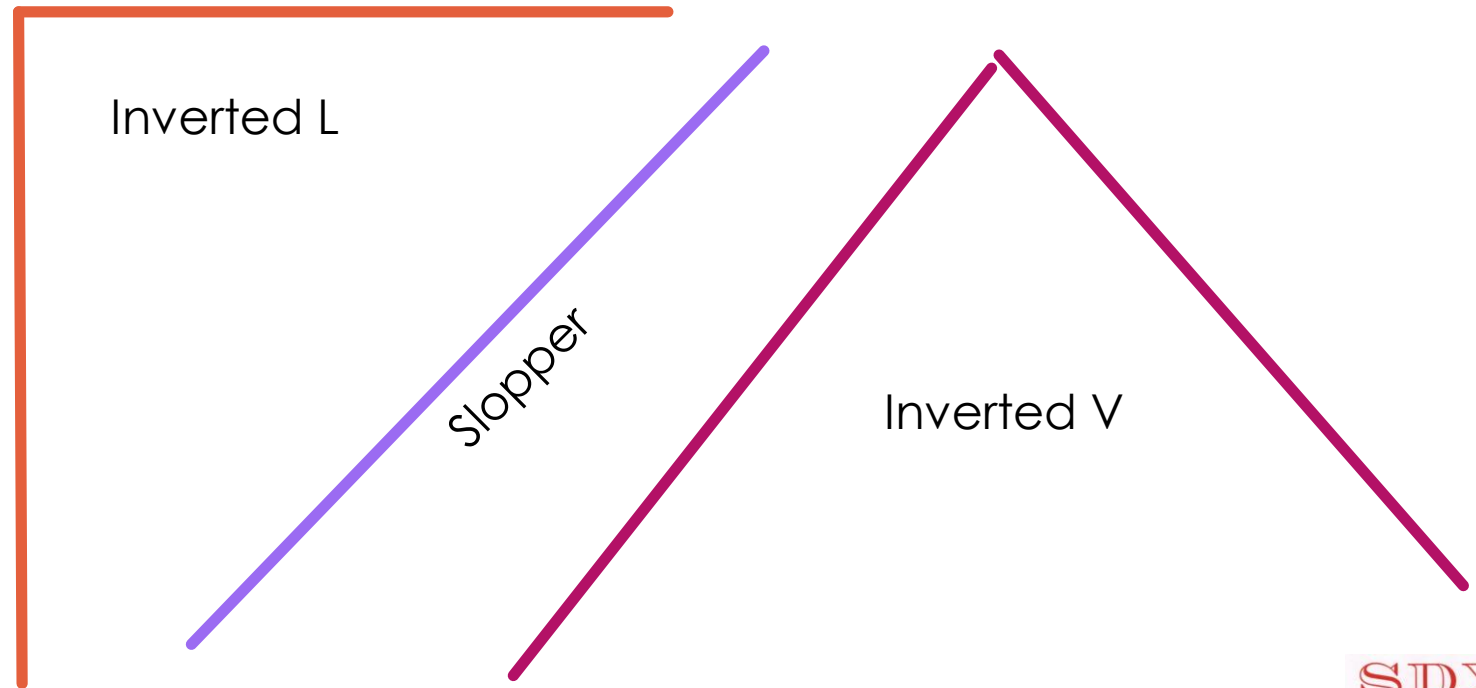
Antennas: Wire Dipole



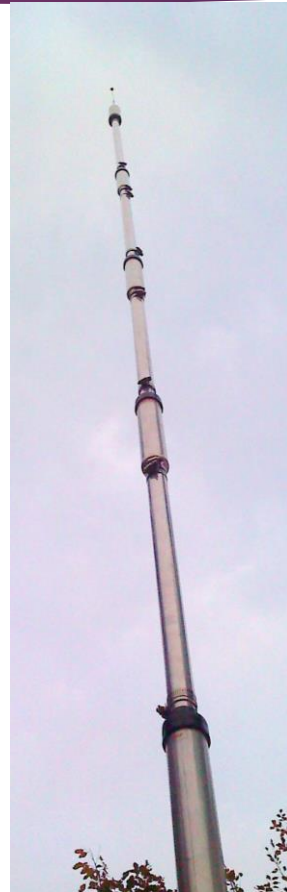
Antennas: end Fed



Antennas: Tuner with Long wire



Antennas: Verticals (with Radials)



Computer software

- ▶ 1) Logging Software



Logger32

File Tools View Awards Setup Utilities Help

Operator: ZL2IFB

Freq 14020.00 Mode CW Band 20M

Call 4Z4KX 4X AS 20

Sent Israel

Rcvd Sunrise 02:50 Sunset 16:42

Name Mark FOC 1782 OTA

QTH

State ? via ?

4Z4KX (All op.)

Date	UTC	Band	Call	Sent	Rcvd	Mode	Name	FOC	Notes
25 Jun 14	02:56	20M	4Z4KX	599	599	CW	Mark	1782	Wants 80m QSO Gg to Freidrichshaven tmw
03 Feb 13	06:12	40M	4Z4KX	339	599	CW	Mark	1782	ZL2
03 Feb 13	06:10	20M	4Z4KX	599	599	CW	Mark	1782	ZL2
05 Feb 11	19:10	40M	4Z4KX	339	599	CW	Mark	1782	ZL2
15 Oct 10	06:03	30M	4Z4KX	599	599	CW	Mark	1782	ZL2
07 Feb 10	17:49	80M	4Z4KX	599	599	CW	Mark	1782	ZL2
07 Feb 10	16:45	40M	4Z4KX	599	599	CW	Mark	1782	ZL2

20M MON: 30M MON: 40M

2014: DX Spots (All op. All types)

DX Spot	Freq	Comment	Time	Origin
X DL6EV	14006.3	CW 11 dB 23 WPM CQ	03:14	PJ2T-#
DL5W	14020.7	CW 29 dB 31 WPM CQ	03:14	VE2WU-#
LUIYT	10107.2	CW 22 dB 28 WPM CQ	03:15	K1TTT-#
X 3B9FR	14024.9	cq	03:15	W1UJ
EXZF	14002.0	trix CW QSO 73 de Dirk	03:15	DL5LBO
SMSIMO	14060.3	CW 27 dB 22 WPM CQ	03:15	W3LPL-#
X 4K9W	14007.1	CW 7 dB 28 WPM CQ	03:15	HASPP-#
I0MLU	7003.0	CW 25 dB 17 WPM CQ	03:15	DL9GTB-#
X 3B9FR	14025.0	CW 10 dB 29 WPM CQ	03:15	RZ30VP-#
DL6YAO	7027.0	CW 33 dB 26 WPM CQ	03:15	OH6BG-#
YU7AS	7022.2	CW 7 dB 16 WPM CQ	03:15	DK8TE-#
X W1AW/9	7032.1	CW 24 dB 28 WPM CQ	03:15	VE7AB-#
K8NY	7013.2	CW 15 dB 19 WPM CQ	03:15	OH6BG-#
WB2UZE	10102.0	CW 22 dB 24 WPM CQ NY	03:15	W4AX-#
ON6FT	7011.0	Roy	03:16	W4II
AC7ZL	7039.9	CW 24 dB 13 WPM CQ AZ	03:16	WZ7I-#
X HTST	14009.2	trix QSO	03:16	RA4FK
K8NY	7021.0	CW 22 dB 26 WPM CQ WV	03:16	KB6VSE-#
COBZZ	14023.1	CW 20 dB 30 WPM CQ	03:16	VE2WU-#

CheckCall 1 callsign found

File Option Help

1: FOC.txt

4Z4KX Mark FOC#1782

MISC STUFF/RADIO STUFF/LOGS ARCHIVE/CURRENT LOG/WITH CREDITS

HamQTH

File Toolbox Transfer

Name: Mark

Add: Mark Stern, P.o. box 73, Rishon Le-zion 75100, Israel

State: County:

Country: Israel Grid: J031tx IDTA: e-Mail: URL: DK by: LoTW Old call: Call: 4Z4KX QSL via:

Freq	Call	Mode	Sent	Rcvd	Name	FOC	QTH	STATE
4017.02	5B/G4DJX	CW	599	599	Alan	1441		
4017.02	IK0CNA	CW	599LP	599	Al		Nr Rose	
4017.02	LZ1IF	CW	579	599	Ivan		Yambol	ZIC
4017.02	I1HJP	CW	599LP	599	Paolo	NOM	Asti	Stoney WX ZOC
4017.02	F3OA	CW	599LP	599	Mike	1174	Pzke	
4017.02	9H7FCU	CW	579LP	449	Ben		Nr Romeby	
4017.02	OH8HF	CW	379LP	589	Michal			
18073.04	Y30UD	CW	559	599	Drax			=G4BU0 on hols G
24 Jul 14 06:16	18071.10	BY4IS	CW	599	Mrc		Liugang Is	M
24 Jul 14 19:34	3503.00	OH8NUW	CW	559	569--		Johan	Kokkolla
24 Jul 14 19:42	7006.58	E7100GP	CW	599	599			
24 Jul 14 20:27	10120.00	OH0/DL15VA/P	CW	519	519			
24 Jul 14 22:02	18074.03	W4O	CW	599	599			Oliver Hardy festival and/or IDTA NA-067 SES ?????
24 Jul 14 22:07	18075.66	LZ1810PPW	CW	599	599			
24 Jul 14 22:08	18069.00	HB9CVQ	CW	579LP	449		Andy	Zurich
24 Jul 14 22:11	18072.99	ZB2FK	CW	599LP	579		Ernest	New vert

Israel Not confirmed on 20M Sunrise 02:50 Sunset 16:42 268°/88° at 16442 Km 25 Jul 14 06:16

25 Jul 14 03:16 Data Terminal Cluster Radio1 No Rotor Local Localhost Antenna ##### DVK uHam WWW at 0300: SRI 104.A.5.K.3

Ref	Call	Date	Dist	Mode	Power	On	Sent	Rec	DF	Country	St	County	Other	S	R	Comments	Name	Freq	10-10	Grid	Dist	QO Zs	ITU Zs	IASL Zs	ICTA	Lighthouse	PK	Other2	C	
6143	WBHB	2/19/2013	15	SSB	100	19:01	57	57		USA	CA	Los An...				DOUGLAS L DOWDS - 415 E...	DOUG...			DM	MA	00	00					WB		
6142	NBBN	2/10/2013	15	SSB	100	21:37	57	57		USA	SD	Penns...				Rich Water Coder RICHARD L...	RCHA...			DM	MA	04	07					WB		
6141	W00	2/10/2013	15	SSB	100	21:35	55	55		USA	WV	Lewis				Mt. St. Helens Eruption Area...	Mt. St...			DM	MA	00	00					WB		
6140	WBHB	2/10/2013	15	SSB	100	21:02	58	58		USA	CA	Los An...				DOUGLAS L DOWDS - 415 E...	DOUG...			DM	MA	00	00					WB		
6139	W4MEL	2/8/2013	15	SSB	100	21:41	53	53		USA	CA	Los An...				Robert I Tucker - 76 Stet PL...	Robert			DM	MA	00	00					WB		
6138	N5WPC	2/8/2013	15	SSB	100	17:05	53	53		USA	TX	William...				VICTOR F SKINNER - 16 EV...	VICTOR			DM	MA	04	07					WB		
6137	W6RYO	2/7/2013	15	SSB	100	18:52	53	53		USA	CA	San Die...				GARY W GONNELLA - 9327...	GARY			DM	MA	00	00					WB		
6136	W6MBA	2/7/2013	15	SSB	100	18:51	53	53		USA	OR	Wash...				Marie EV EVERETT W CUR...	EVER...			DM	MA	00	00					WB		
6135	N5APD	2/5/2013	15	SSB	100	17:50	53	53		USA	MD	Harford				GEORGE L HERON - 2419 F...	GEOR...			DM	MA	05	00					WB		
6134	W0ST	2/5/2013	15	SSB	100	17:47	55	55		USA	OH	Cleveland				Bill G Baker - 1808 Brarowak...	Bill			DM	MA	04	07					WB		
6133	W4WFL	2/3/2013	15	SSB	100	17:46	54	54		USA	TX	Houston				Ralph Water Coder RALPH N...	RALPH			DM	MA	04	07					WB		
6132	W5JGV	2/1/2013	15	SSB	100	20:05	57			USA	LA	Natchit...				RALPH W HARTWELL, III - 64...	RALPH			DM	MA	04	07					WB		
6131	VA7GL	2/1/2013	15	SSB	100					Canada	BC					Gerald L Long - 34 - 803 SH...	Gerald			DM	MA	00	00					WB		
6130	NBBN	2/1/2013	15	SSB	100	17:12	54	54		USA	SD	Penns...				RICHARD L FULLER - 1112 E...	RCHA...			DM	MA	04	07					WB		
6129	N5WPC	1/31/2013	15	SSB	100	20:57	51	51		USA	TX	William...				VICTOR F SKINNER - 16 EV...	VICTOR			DM	MA	04	07					WB		
6128	WBHB	1/25/2013	15	SSB	100	21:35	55	55		USA	CA	Los An...				DOUGLAS L DOWDS - 415 E...	DOUG...			DM	MA	00	00					WB		
6127	W4TLEW	1/25/2013	15	SSB	100	21:02	55	55		USA	WV	King				Doc RICHARD J LUNDSTRO...	RCHA...			DM	MA	00	00					WB		
6126	W0ST	1/21/2013	15	SSB	100	18:20	52	52		USA	OH	Cleveland				Bill G Baker - 1808 Brarowak...	Bill			DM	MA	04	07					WB		
6125	N0IP	1/20/2013	20	SSB	100	01:03				USA	OR				NAQP	Rouq	14...			DM	MA	05	00					WB		
6124	K7KK	1/20/2013	20	SSB	100	01:03				USA	WV				NAQP	Don	14...			DM	MA	00	00					WB		
6123	N4HC	1/20/2013	20	SSB	100	01:03				USA	CA				NAQP	Arno	14...			DM	MA	00	00					WB		
6122	W7WV	1/20/2013	20	SSB	100	01:01				USA	AZ				NAQP	Dave	14...			DM	MA	00	00					WB		
6121	N0DC	1/20/2013	20	SSB	100	00:57				USA	WI				NAQP	Randy	14...			DM	MA	00	00					WB		
6120	N7SM	1/20/2013	20	SSB	100	00:56				USA	UT				NAQP	Janet	14...			DM	MA	00	00					WB		

HamLog.log

Call	Date	Band	Mode	Power	Time On	Sent	Rec	Country

ST	County	Other	<input type="checkbox"/> QSL Sent	3:50:48 PM	Log Contact
			<input type="checkbox"/> QSL Recvd	20:50:46 UTC	Manual
Name, City, Comments					

Bearing:

Miles:

Continent:

Time Off

JX9JKA	7.161	Jan Mayen	New!	de LA1EQA: mr Jan Mayen nice sig		2049
TF3IG	7.0452	Iceland	Need QSL!	de SP6HTQ: rly		2050
UE9SRA	1.837	Asiatic Russia	Confirmed	de SP6ENR: Tnx qso 73		2050
OK8VAV	1.85	Czech Republic	Confirmed	de UA4NDX: CQ DX ++		2051
AO1ICE	3.694	Spain	Confirmed	de EA1AST: Antarctic Activity Week,	AP233	2050
HL5/VL	1.8185	Republic of Korea	New!	de DL1AP: not hearing and gave up	(2048

QSO date	Time on	Call	Mode	Send	Rcvd	Band	Name	State	Country
2/11/2015	12:46:11	NRLN	LSB	50	50	80m	LEONARD POLLAK	NE	United States
2/11/2015	12:06:57	K4800	LSB	50	50	80m	MEL D LOMBARD	MO	United States
1/9/2009	12:05:38	KF010	LSB	50	50	80m	DAVID P BATES, SR	MO	United States
1/9/2009	11:20:56	N00RF	LSB	50	50	80m	ROBERT E BERGER, JR	IL	United States
1/9/2009	10:57:02	W07RO	LSB	50	50	80m	Mark E Meyer	IA	United States
1/9/2009	12:02:58	W80OU	LSB	50	50	80m	MARTIN D WISSEHN	MO	United States
1/9/2009	11:20:55	K800H	LSB	50	50	80m	Jerry L Walker	IL	United States
2/3/2009	17:01:07	K0WVL	CW	500	500	40m	Jim	ND	United States
2/1/2009	12:44:31	N00RF	LSB	50	50	80m	ROBERT E BERGER, JR	IL	United States
2/1/2009	12:27:08	N00AB	LSB	50	50	80m	Roland J Barnaby	KS	United States
2/1/2009	12:05:11	N00RF	LSB	50	50	80m	ROBERT E BERGER, JR	IL	United States
2/1/2009	11:57:49	K195	LSB	50	50	80m	ERDARD L ALBERTS	IL	United States
2/6/2009	14:04:21	W80UJ	LSB	50	50	80m	EARL E WEAVER	IL	United States
2/5/2009	13:06:39	K0UBR	LSB	50	50	80m	Oral L Barnes	MO	United States
2/5/2009	13:06:08	K050X	LSB	50	50	80m	PAUL A GRENSTAFF, SR	CO	United States
2/5/2009	13:05:34	NV0T	LSB	50	50	80m	PHILIP E BRIGGSOLA	KS	United States
2/4/2009	14:12:55	W80AZ	LSB	50	50	80m	Gary W Zabel	NE	United States
2/4/2009	12:08:41	K4800	LSB	50	50	80m	MEL D LOMBARD	MO	United States
2/3/2009	11:13:00	N88K	PSK31	500	500	40m	Peter E Beadlow	IL	United States
2/3/2009	14:11:36	K708H	PSK31	500	500	40m	Robert W Perry	OR	United States
2/3/2009	13:26:39	W80UJ	LSB	50	50	80m	EARL E WEAVER	IL	United States
2/3/2009	12:21:20	K195	LSB	50	50	80m	ERDARD L ALBERTS	IL	United States
2/10/2009	11:45:11	W80UJ	LSB	50	50	80m	Mark E Meyer	IA	United States

C	S	X	S	Time	Freq	OR	Call	Spotted	Comment	Country (ARRL PrefList)
✓	✓	✓	✓	10:45	3.610.0	30000	IA3	12000	OFFLINE LINEAR W80UJ/EA, TX	Italy (I)
✗	✗	✗	✗	10:42	3.503.0	10450A	W80UJ	00:00	off sp	Switzerland (V)
✓	✗	✓	✗	10:35	3.500.0	0811P	GR8P	00:00	4000Hz !!!	Czech Republic (CZ)
✓	✗	✓	✗	10:12	3.500.0	0811P	GR8P	00:00	4000Hz !!!	Czech Republic (CZ)

HRLognet Station Manager

Date: 2/12/2015
 FT8 Set: 10:42:50
 FT8 Ext: 10:42:50
 PS Call: N105a
 RST Set: S4
 RST Pwr: S4
 Name: CHAD S HAYS
 Comment:
 County: United States
 Power: 10.70000

My Station Profile

Callign: IOPTR
 Owner: IOPTR
 Operator: IOPTR
 Name: Rich
 Street: 106 N Hansen Av
 City: Pierre, SD
 County: Hughes
 State: SD
 ZIP: 57501
 Subnet: Icom 7010 or 7300
 Address: Hwy 101 N 2003 and 1040 Eastside
 Club: PARC
 License: E90

Profile: Icom 7010

Use "Configure My Station" to permanently alter user settings. All changes made here are temporary.

Audio Rec: [On]

Spotting Programs

- ▶ DX Summit
- ▶ VE7CC
- ▶ DX Labs Spot Collector



» LAST 25 DX SPOTS - RELOADED EVERY MINUTE

PA/NL8992-	10143.7	A45XR	cq RTTY no takers	1847	03	Nov	Oman
EA2DT	7028.5	OK1RZ		1847	03	Nov	Czech Republic
IK2SAR	7008.0	4U20B	TNX QSO	1847	03	Nov	Not Found
UN7TK-@	10138.0	JE2KSM	JT65 - 09 Yuji Numazu	1847	03	Nov	Japan
7X2RD-@	14264.0	7U60AR	SPECIAL CALL INFOS QRZ.COM	1847	03	Nov	Algeria
F5MZE	21361.0	W1AW/1		1846	03	Nov	United States
KI4BKE	28082.9	CN8KD	RTTY, TNX for Morocco!	1846	03	Nov	Morocco
VK7BO-@	10138.0	UN7TK	JT65	1845	03	Nov	Kazakhstan
PA/NL8992-	10138.7	HS0ZKM	WSPR	1845	03	Nov	Thailand
IW7DHC	21290.0	VP8LP/100		1844	03	Nov	Falkland Islands
LY3B	7130.0	ON1418HRT	TNX QSO	1844	03	Nov	Belgium
EA2DT	7003.3	9A7R		1844	03	Nov	Croatia
M0TPO	14187.5	SV3AAF		1844	03	Nov	Greece
K4YYL	28018.5	FT4TA	QSX 28023.26 AF031	1844	03	Nov	France
ON8DM-@	3513.0	HG6L	cq cq tu	1843	03	Nov	Hungary
W3LPL	21027.0	HP1RN	Heard in OH and MA	1843	03	Nov	Panama
SP5GKN	14017.0	EA6NB	QSB	1843	03	Nov	Balearic Islands
P11KTZ	24944.0	2W75PSO	USB	1842	03	Nov	Brazil
P11WJH	24955.0	FT4TA	Any chance for South America?	1842	03	Nov	France
PA/NL8992-	10138.0	UN7TK	JT65a	1842	03	Nov	Kazakhstan
OG1X-@	50000.0	OH1NO	Never heard her! Fake spot agn??	1841	03	Nov	Finland
PA/NL8992-	10138.0	TR8CA	JT65a	1841	03	Nov	Gabon
W3LPL	28029.0	OX3LX	Heard in KS and MA	1841	03	Nov	Greenland
ZS1TAF	28465.0	CX3AT	JF96GE<>GF15VC	1841	03	Nov	Uruguay
W9MO	28036.8	W1AW/KP2		1841	03	Nov	US Virgin Island

I2YBC ANY NEWS VU4CB 1843 03 Nov
 ID10P PLEASE RESPECT FOR ITALIANS !!! LEARN THE LANGUAGE BEFORE 1832 03 Nov

[Sign In/Register](#)

Solar-Terrestrial Data

03 Nov 2014 1838 GMT
 SFI:124 SN: 91
 A-Index: 9
 K-Index: 1
 X-Ray: B4.9
 304A: 158.9 @ SEM

Calculated Conditions

Band	Day	Night
80m-40m:	Fair	Good
30m-20m:	Good	Good
17m-15m:	Fair	Fair
12m-10m:	Fair	Poor

Signal Noise: S0-S1

Click to Install Solar Data On your Web Site
<http://www.n0nbh.com>
 Copyright Paul L Herrman 2010



The World's Most Popular
 43-Foot Vertical Antenna!

- High Quality
- Superior Performance
- Low Price

Connected to VE7CC-1

Disconnect

Sunset 08 May
-1:52 01:44:41

BER^HA7UG^226^69^AB5K^8^5^28^15^MA^^CT-Connecticut-W^Hungary-HA^FN32^JN97
User UK2UK has logged out

Settings Country State Bands Locals = 27 DX W/W Login Msg Ann Wx Mail

Spotter	Freq	DX	Time	Comments
U01AU	7004.0	HC1MD	0138Z	
AD1C	7237.0	WA1ENO	0139Z	Plymouth, MA (also WB1ARU)
W2YJ	28476.5	ZL4PW	0139Z	10m open!!!
PY2D0	1817.5	EW60IG	0139Z	tnx
AA3B	3517.8	SN8F	0138Z	ARI
W0FLS	14020.5	PY1CE	0143Z	
N5CRO	21308.0	UK1CW	0141Z	
G8UHB	3768.0	9A4D	0141Z	
K4KWK	7012.0	IR4T	0140Z	TEST, 599 PLUS 30 IN TN
G8UHB	3773.0	IQ3AZ	0141Z	GO
G8UHB	3786.0	IQ2CJ	0141Z	MI
Y02LDC	1832.9	SU5/DJ5AA/P	0141Z	
AA3B	3510.1	ON6NR	0139Z	ARI
W2RQ	7070.0	IK0PHY	0141Z	qsx 7215 for stateside..
W2XYZ	7041.5	K1ZZ	0140Z	NEQP
W9YK	28430.0	XE1ZGG	0143Z	
HA7UG	7037.0	K1TTT	0144Z	MA- BER

ALL		85
160	7	7
80		22
40	29	29
20	5	5
15	11	11
10	11	11
Alarm		

Minor Radio Blackouts
SA: Eruptive
GMF: Quiet
Aurora

SFI=110 A=17 K=4

Chat Fix Spots Set Alarm Clear ALL Announce Send Spot Get Spots ALL

WWV 07-21 1211 Z

Outgoing spot

Spot source status

SFI 87 History

Call G8BCG 50,101.6 Freq Cluster

● ● ● ● ● ●

Q: 1 A 3 1 K

Notes X Local

Report Stats Prop Config Help

Callsign	Pfx	Freq	QSO	RcvdTime	Band	Mode	DXCC	Country	Cont	CountryPro	Notes	Source	Network	LotW	eQSL	FirstTime
ON4IQ	ON	50,276.0		7/21/2014 1351	6M	SSB	Belgium	EU	V		FM15MM<ES>J020	WD4KPD	EI7MRE	Y	A	7/21/2014 1351
G6WRW/P	G	18,140.0		7/21/2014 1352	17M	SSB	England	EU	V		OP. CAROLYN QSL BUREAU	IZ3PYL	DX Spots	N	N	7/21/2014 1351
OE4BHF	OE	18,151.0		7/21/2014 1352	17M	SSB	Austria	EU	V		GOOD SING 5/9 BEST 73	ON7CFX	DX Spots	N	A	7/21/2014 1352
JA1CG	JA	14,298.0		7/21/2014 1353	20M	SSB	Japan	AS	V		59+10 in Arkansas	K5XS	DX Spots	N	A	7/21/2014 1352
FR4PJ	FR-R	14,263.0		7/21/2014 1353	20M	SSB	Reunion	AF	F		TNX QSO DAVID !	RW9JZ	DX Spots	N	N	7/21/2014 1344
OK2APY/P	DL	14,256.0		7/21/2014 1355	20M	SSB	Czech Republic	EU	V		OKFF-094, WCA OK-00172	EA2DT	DX Spots	Y	A	7/21/2014 1352
Mw0ZZK	GW	24,936.9		7/21/2014 1355	12M	SSB	Wales	EU	V		TNX STEVE	F4ULC	EI7MRE	Y	A	7/21/2014 1355
MX0TBG/P	G	14,265.0		7/21/2014 1356	20M	SSB	England	EU	V		good copy in VIGO	EA1AIQ	DX Spots	N	N	7/21/2014 1342
W1AW/4	K	21,287.5		7/21/2014 1357	15M	SSB	United States	NA	V		In South Carolina	WA5KSC	DX Spots	Y	N	7/21/2014 1356
UN6QBX	UN	14,173.0		7/21/2014 1357	20M	SSB	Kazakhstan	AS	V		tnx QSO	R9CC	EI7MRE	N	N	7/21/2014 1357
SV8/OK1FFU	SV	14,188.0		7/21/2014 1357	20M	SSB	Greece	EU	V		EU-174	PD9DX	EI7MRE	N	N	7/21/2014 1357
G8BCG	G	50,101.6		7/21/2014 1358	6M	SSB	England	EU	V		Tks qso Peter	VE2DLC	EI7MRE	Y	N	7/21/2014 1348
N3DB	K	50,105.0		7/21/2014 1358	6M	SSB	United States	NA	V		JN78CJ<ES>FM18SU	OE5MPL	EI7MRE	N	N	7/21/2014 1358
OE5MPL	OE	50,105.0		7/21/2014 1358	6M	SSB	Austria	EU	V		559 w/ qsb	N3DB	EI7MRE	Y	A	7/21/2014 1356
Z35T	Z3	21,265.0		7/21/2014 1358	15M	SSB	Macedonia	EU	V		qrz	JA0HWF	DX Spots	N	A	7/21/2014 1357
EF6	EA6	28,478.2		7/21/2014 1401	10M	SSB	Balearic Is	EU	V		Cq 10 Mtr 55 In NJ	AB2DE	EI7MRE	N	N	7/21/2014 1332
YBQJS	YB	14,220.0		7/21/2014 1401	20M	SSB	Indonesia	OC	F		Sur in Djakarta	ON6ZK	EI7MRE	N	N	7/21/2014 1401

Sort

- First
- Call
- Last
- Freq
- Rcv
- Az

Filter: Band and Mode

AH Need Call DXCC Freq Tag Band Mode Cont Origin
 Audio Age LotW eQSL Mithn SQL 1 SQL 2 SQL 3 SQL 4 SQL 5 SQL 6 SQL 7 SQL 8

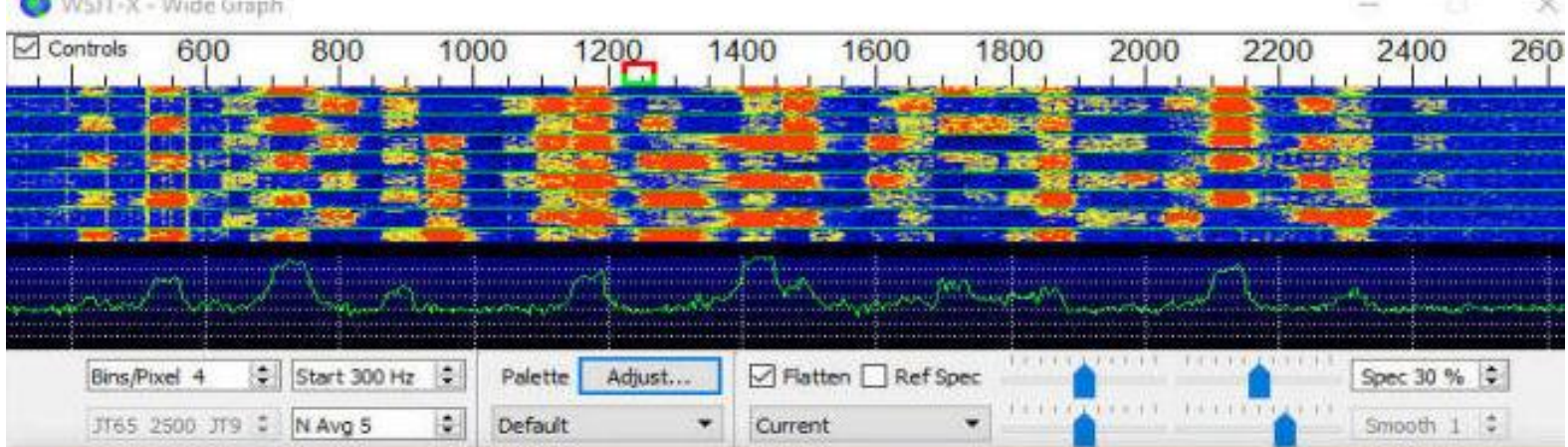
Color codes

- verified
- unwrkd B or M
- LotW
- unneeded
- unwrkd counter
- eQSL AG
- unconfmrd
- special tag
- LotW & eQSL AG

Digital Programs

- ▶ WSJT-X (FT8/FT4)
- ▶ Winlink
- ▶ Fldigi





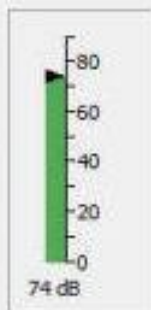
WSJT-X v1.8.0 by K1JT

File Configurations View Mode Decode Save Tools Help

Band Activity					Rx Frequency				
UTC	dB	DT	Freq	Message	UTC	dB	DT	Freq	Message
125500	11	0.2	2107	W5COV KC0FGX R+04					
125500	-2	-0.2	2234	UN7LZ W7ZJ EM10					
125500	-17	0.1	2290	UN7LZ KD1RT FN32					
125500	-15	-0.2	2403	CQ KS4OT EM83					
125500	-13	0.2	747	CQ KI7PYH DN40					
125500	-8	0.1	1047	CQ KG7NXU DN13					
125500	-15	0.2	1262	EU6MM HL5FUA RRR					
125500	-4	0.1	2235	UA3GPM NS9I -07					

Log QSO Stop Monitor Erase Decode Enable Tx Halt Tx Tune Menu

40m ● **7.074 000**



Tx even/1st
 DX Call: EA9CD DX Grid: IM75
 Az: 66 4238 mi
 Tx 1224 Hz Rx 1224 Hz
 Tx ← Rx Rx ← Tx
 Hold Tx Freq

2017 Dec 30 12:55:24
 Auto Seq Call 1st
 NA VHF Contest
 Report -15

Generate Std Msgs	Next	Now	Pwr
EA9CD KC8RP EM79	<input type="radio"/>	Tx 1	<input type="range"/>
EA9CD KC8RP -15	<input type="radio"/>	Tx 2	<input type="range"/>
EA9CD KC8RP R-15	<input type="radio"/>	Tx 3	<input type="range"/>
EA9CD KC8RP RRR	<input type="radio"/>	Tx 4	<input type="range"/>
EA9CD KC8RP 73	<input type="radio"/>	Tx 5	<input type="range"/>
CQ KC8RP EM79	<input checked="" type="radio"/>	Tx 6	<input type="range"/>

Receiving FTB 9/15 WD:6m



No active session...

System Folders
Inbox (0 unread)
Read Items (0)
Outbox (0)
Sent Items (12)
Saved Items (0)
Deleted Items (0)
Drafts (0)
Personal Folders
Global Folders
Contacts

	Date/Time	Message ID	Size	Source	Sender	Recipient	Subject
	2018/03/24 17:48	UMERBG50QYBP	208	WX1GYX	WX1GYX	KB1HNZ...	//WL2K Test message
	2018/03/24 17:22	H6KPJU1SSPCY	26939	SMTP	SMTP:query-repl...	KB1HNZ	GFS:39N.48N.74W.60W
	2018/02/02 16:19	ESRPL003S7RF	528	SYSTEM	SERVICE	KB0FX...	//WL2K User Notice
	2017/10/05 21:52	EWUX8M3DB7NE	186	WS1EC	WS1EC	KB1HNZ	//WL2K test message
	2017/06/25 17:13	204NOBHJVV3G	381	System	SERVICE	KB1HNZ	Undelivered Message
	2017/06/25 01:15	QV545N5ACUX9	547	KB1YTR	KB1YTR	WS1SM...	//WL2K Happy Field Day
	2017/02/10 21:37	VIJCTW9I6019	186	WEBMAIL	WEBMAIL	KB1HNZ	test message

Message ID: VIJCTW9I6019

Date: 2017/02/10 21:37

From: WX1GYX

To: KB1HNZ

Source: WEBMAIL

Downloaded-from: Telnet:Halifax.Winlink.org

Subject: test message

test message

File Op Mode Configure View Logbook Help

Spot RxID TxID TUNE

14070.000

Frg 14071.000

On

0855

Off

0939

In

Out

Call 321321321

Op

Az

This is a Softpedia test

USB

3000

#out

#in

Xch

Softpedia is a library of over 1,300,000 free and free-to-try software programs for Windows and Unix/Linux, games, Mac software, Windows drivers, mobile devices and IT-related articles.

We review and categorize these products in order to allow the visitor/user to find the exact product they and their system needs.

We strive to deliver only the best products to the visitor/user together with self-made evaluation and review notes.

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We review and categorize these products in order to allow the visitor/user to find the exact product they and their system needs.

We strive to deliver only the best products to the visitor/user together with self-made evaluation and review notes.

CQ

This is a Softpedia test

3.0

Clear

CQ

ANS

QSO

KN

SK

Me/Qth

Brag

T/R

Tx

Rx

TX

1

500

1000

1500

2000

2500

3000

3500

WF

-20

70

x1

NORM

1000

QSY

Store

Lk

Rv

T/R

BPSK31

-3.0

AFC

SQL

KPSQL

Let's Talk about Equipment Options Cont'd

- ▶ Other stuff
 - ▶ Grounding
 - ▶ Antenna switches
 - ▶ Lightning protection
 - ▶ SWR and power meters



Some Suggested Starter Packages to Get You Started

- ▶ Listed in the handout that will also be on the SDXA website www.sdxa.org



How Do I Learn What's Available and How to Operate on HF?

- ▶ SDXA can help
 - ▶ Mentor program for new/inexperienced Generals (and above)
 - ▶ Come to the SDXA meeting first Thursday every month
 - ▶ Great presentations
 - ▶ Ask questions
 - ▶ Lots of mentoring available



Questions

- ▶ Contact:
 - ▶ Del WA7AQH WA7AQH@gmail.com
 - ▶ Mel N7GCO Teammel@gmail.com
- ▶ www.sdxa.org will have both this deck and the handout



Thanks for Joining Us Today

- ▶ Enjoy the rest of the HamFest

