



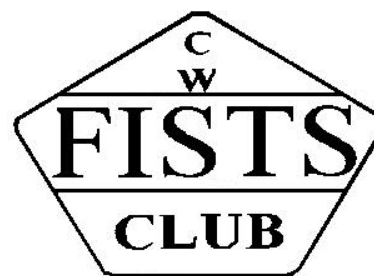
Getting Started on HF



Part 2 – Electronic Logging

Al Walters – K5NOF
k5nof@arrl.net

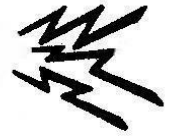
Director
Kendall Amateur Radio Society





Part 2

Electronic Logging



- Part 2 – How to get started with electronic logging.
 - Convert paper logs to digital format.
 - Logging software.
 - Logbook of the World (LoTW), eQsl and Club Log in addition to QSL cards.



Electronic Logging



- Amateurs are moving to electronic logging using a laptop or desk top PC.
 - Whatever, try to dedicate one to your station; and old one will do.
 - I run Win7 on my ham machine with multiple USB ports installed.
 - Use USB to Serial converters for my legacy equipment.
 - You will not need high processing speed nor a lot of RAM.
 - Ham radio software is not a resource hog.
 - Software is discussed in this section and you are going to want to use it.
 - For now, know that you will want a package which will work easily with your radio, connect to a DX spotting network, and which you can use with LoTW and Club Log. More about all of this as we continue.



Software Overview



- Basic Log Import
 - Manually enter 100 QSO's at a time.
 - Convert to ADIF format
 - Import into logging program to build an electronic log.
- LoTW
 - A relational data base that compares your QSO's (call, time, frequency) with others (call, time, frequency) for a match.
- Other Neat Stuff: DX Tool Box, Digipan, MMTTY
- DX4Win www.dx4win.com
 - Will cost \$90 but
 - Full of features, has users' manual, very active reflector for users, supported by developers and AD1C. Needs to be updated for new digital modes.
 - LoTW support
 - Major upgrade from one version to another -- \$30.
- Writelog www.writelog.com
 - Initial cost \$30.
 - Upgraded periodically.
 - Supports any CW, SSB or RTTY contest
 - Focus moving toward RTTY and away from CW.
 - Full of features, has users' manual, very active reflector for users, supported by developers with regular updates.
 - LoTW support
 - Many use Writelog for general logging
 - but has none of the award tracking features of DX4Win.
 - Annual maintenance fee -- \$30.
 - Newbe starter package -- \$18.
- Introduction to each



Why?



Convert paper logs to digital (ADIF) format?

- Then you can upload your logs to LoTW, Club Log, eQSL for QSO confirmation and award credit.

Use Logbook of the World(LoTW) and eQSL in addition to QSL cards?

- LoTW is world-wide standard for ARRL awards.
 - Paper QSL's automatically added to this record when approved.
 - eQSL accepted for CQ awards. Not accepted by ARRL.
- Fast confirmations at low cost (ARRL also charges for the award).
- Club Log for on-line QSL requests.

Use logging software?

- Log becomes electronic data base which supports.
 - LoTW , Club Log & eQSL upload and download.
 - Provides QSL management and different award tracking.

Participate in Contests?

- Build personal proficiency
- Work states and countries needed for various awards.

Use Contest Software?

- Beats paper and pencil and dupe sheet.
- Can't compete without it.



Basic Log Import



File Edit View Insert Format Tools Data Window Help Type a question for help

F103 fx =IF(C103=1,"599",IF(C103=3,"59",IF(C103="C","599",IF(C103="S","59",""))))

WB6FHK_0_01

	A	B	C	D	E	F	G	H	I	
1	Do a "Save AS" Before Any Entries!				BasicLog	Input Log Data Starting on Line 4				
2	Date	Freq. MHz	Mode	Time	Call	Optional Report		Calculated Data		
3	(mm-dd-yyyy)	(Whole No. ONLY)	(1,3,C or S)	(hhmm)	(Enter Callsign Worked)	Sent	Rcvd	Band	Mode	
4	12/24/1975	14	1	2142	W2SRZ	599	599	20M	CW	
5	12/24/1975	14	1	2203	WA4SDZ	599	599	20M	CW	
6	12/24/1975	14	1	2225	K2JUV	599	599	20M	CW	
7	12/24/1975	14	1	2310	K6VRA	599	599	20M	CW	
8	12/25/1975	7	1	0305	WB9PSH/9	599	599	40M	CW	
9	12/25/1975	14	1	1645	W7JSH/6	599	599	20M	CW	
10	12/25/1975	21	1	1837	VE3HDO	599	599	15M	CW	
11	12/25/1975	21	1	1855	WB2RNJ	599	599	15M	CW	
12	12/25/1975	21	1	2030	WA7YJX	599	599	15M	CW	
13	12/25/1975	21	1	2055	WN6IWC	599	599	15M	CW	
14	12/26/1975	7	1	0030	W4HQU	Created by BasicLog A simple log entry program by w8tn Email: w8tn@w8tn.com <eoh>				
15	12/26/1975	7	1	0345	WB6JIK	<call:5>w2srz<qso_date:8>19751224<time_on:4>2142<band:3>20M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
16	12/26/1975	7	1	0500	W2HHU	<call:6>wa4sdz<qso_date:8>19751224<time_on:4>2203<band:3>20M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
17	12/26/1975	7	1	0524	WB8OWM	<call:5>k2juv<qso_date:8>19751224<time_on:4>2225<band:3>20M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
18	12/26/1975	7	1	0557	WA7ZSD	<call:5>k6vra<qso_date:8>19751224<time_on:4>2310<band:3>20M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
19	12/27/1975	7	1	0450	WB6KHK	<call:8>wb9psh/9<qso_date:8>19751225<time_on:4>0305<band:3>40M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
20	12/27/1975	21	3	1713	WB0NGD	<call:7>w7jsh/6<qso_date:8>19751225<time_on:4>1645<band:3>20M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
21	12/27/1975	21	3	1725	WB0IAH	<call:6>ve3hdo<qso_date:8>19751225<time_on:4>1837<band:3>15M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
22	12/29/1975	7	1	0115	WA0VJM	<call:6>wb2rnj<qso_date:8>19751225<time_on:4>1855<band:3>15M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
23	12/29/1975	7	1	0140	WB6OMT	<call:6>wa7yjx<qso_date:8>19751225<time_on:4>2030<band:3>15M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
24	12/29/1975	7	1	0306	WB5JUK	<call:6>wn6iwc<qso_date:8>19751225<time_on:4>2055<band:3>15M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
25	12/29/1975	7	1	0340	WB0ARZ	<call:5>w4hqu<qso_date:8>19751226<time_on:4>0030<band:3>40M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
26	12/29/1975	14	1	0343	WB0ARZ	<call:6>wb6omt<qso_date:8>19751226<time_on:4>0345<band:3>40M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
						<call:6>wb8owm<qso_date:8>19751226<time_on:4>0524<band:3>40M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
						<call:6>wa7zsd<qso_date:8>19751226<time_on:4>0557<band:3>40M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
						<call:6>wb6khh<qso_date:8>19751227<time_on:4>0450<band:3>40M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
						<call:6>wb0iah<qso_date:8>19751227<time_on:4>1725<band:3>15M<mode:3>SSB<rst_sent:2>59<rst_rcvd:2>59<eor>				
						<call:6>wb0ngd<qso_date:8>19751227<time_on:4>1713<band:3>15M<mode:3>SSB<rst_sent:2>59<rst_rcvd:2>59<eor>				
						<call:6>wa0vjm<qso_date:8>19751229<time_on:4>0115<band:3>40M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
						<call:6>wb6omt<qso_date:8>19751229<time_on:4>0140<band:3>40M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
						<call:6>wb5juk<qso_date:8>19751229<time_on:4>0306<band:3>40M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
						<call:6>wb0arz<qso_date:8>19751229<time_on:4>0340<band:3>40M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				
						<call:6>wb0arz<qso_date:8>19751229<time_on:4>0343<band:3>20M<mode:2>CW<rst_sent:3>599<rst_rcvd:3>599<eor>				

Ready

Generally – Transcribe QSO's from paper log into Excel and then save work sheet to ADIF and upload to your logging software and/or to LoTW.

Email me for freeware program. Be sure to read instructions first.



LoTW



General Steps

(See www.arrl.org for instructions).

- Download and print the instructions
- Download and install the software.
- Request a certificate for your callsign.
- Authenticate your location.
- Load your certificate (TQ6 file).
- Create a station location.
- Sign and upload your log files.

Follow the instructions step by step.



LoTW

Showing the K5NOF account

Your Logbook DXCC Award

The American Radio Relay League, Incorporated [US] <https://lotw.arrl.org/lotwuser/awardaccount?awardaccountcmd=status&awg>

Apps Bookmarks aboutblank Imported From IE McCrometer Connect Google Amtrak Other bookmarks

Today is Sun, 21 Feb 2016 UTC
You are **K5NOF**
[Log Off](#)
You have **11,792** QSO records
You have **3,649** QSL records

THE ARRL
LOGBOOK OF THE WORLD™
YAESU The radio PRINCIPAL SPONSOR of the LoTW Website

Choice of the World's top DX'ers™

Search Help: Search

Home Your QSOs Awards Find Call Upload File Your Account Help

Award Account Menu

- Account Status
- Account Credits
- Modify Account
- Application
- Application History
- DXCC QSL Download

Your Logbook DXCC Account (K5NOF - UNITED STATES OF AMERICA)

Account Status

DXCC Award	New LoTW QSLs	LoTW QSLs in Process	DXCC Credits Awarded	Total (All)	Total (Current)
Mixed *	1	0	300	301	296
CW *	1	0	283	284	280
Phone	6	0	180	186	184
Digital	0	0	2	2	2
160M	2	0	13	15	15
80M	3	0	112	115	113
40M	3	0	176	179	177
30M	5	0	120	125	125
20M	3	0	206	209	208
17M	9	0	118	127	127
15M	6	0	204	210	205
12M	14	0	86	100	100
10M	2	0	160	162	161
Challenge *	47	0	1184	---	1231
5-Band *	---	---	---	---	---

* = Award has been issued
[View Award Credit Matrix](#)

This account includes credits for the following:

- K5NOF - UNITED STATES OF AMERICA
- K6NOF - UNITED STATES OF AMERICA
- WB6FHK - UNITED STATES OF AMERICA
- WB6FHK/0 - UNITED STATES OF AMERICA
- WB6FHK/5 - UNITED STATES OF AMERICA

This account is linked with DXCC record:
Alan Walters, K5NOF

Notes

- Click on the **Awards** item in the menu at the top of the page to select a different LoTW award account.
- You can click on the links in the Account Status table to view the credit list for an individual award.
- If you want to merge other DXCC award accounts (different call signs that are licensed to you, inside the same DXCC entity) with this one, use [Modify Account](#).
- When you are ready to apply your LoTW credits to your DXCC record, use [Application](#).
- To view the present and past applications you have submitted, use

BCH
\$8500
BEST PERFORMANCE
BEST RELIABILITY
BEST CUSTOMER SERVICE
www.Bridge.com

Go to:
www.pr
for more
informati
www.pr



Example of LoTW Award Credits

Partial report from the K5NOF
DX Challenge Account



LoTW Shows all DX credits including approved paper QSL's.

Your Logbook Award Acc: X

The American Radio Relay League, Incorporated [US] https://lotw.arrl.org/lotwuser/accountcredits?awg_id=DXCC&ac_acct=1&ac_view=all&aw_id=DXCC-CHAL&ac

Apps ★ Bookmarks about:blank Imported From IE McCrometer Connect Google Amtrak Other bookmarks

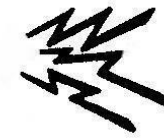
Award Credits: Selected: 47 Applied for: 0 Awarded: 1184 Total: 1231
Key: Selected · Applied · Awarded

DXCC Entity	160M	80M	40M	30M	20M	17M	15M	12M	10M
AFGHANISTAN					T6T				
AGALEGA & SAINT BRANDON ISLANDS					3B6CD				
ALAND ISLANDS			OG0A		OH0NSJ		OH0X		OH0X
ALASKA	KL7RA	KL7RA	KL7FH	KL7J	KL7IRN	KL7J	KL7Y	KL7SB	KL7Y
ALBANIA			ZA1Z						
ALGERIA							7Y50I		
AMERICAN SAMOA							AH3FF	KH8/DL6JGN	KH8/W8GEX
AMSTERDAM & SAINT PAUL ISLANDS		FT5ZM	FT5ZM	FT5ZM	FT5ZM				
ANDAMAN & NICOBAR ISLANDS					VU4KV				
ANDORRA					C37N				
ANGOLA				D3AA	D2SG		D2EB		D2SG
ANGUILLA		VP2EZZ	VP2EZZ	VP2EMR	VP2EZZ		VP2EKK		VP2E
ANTARCTICA				VP8CTR	R1ANC	KC4AAA	R1ANC	VP8CTR	
ANTIGUA & BARBUDA		V25A	W6QL/VP2A		V26M	V25N	V25AA		V25AA
ARGENTINA			LU5FF	LU2FE	LU3FLV	LU8MFE	LQ0F		LU5FF
ARMENIA					EK4JJ				

Your credits from paper QSL's are combined with digital QSL's from members.



Other Neat Stuff



DX Toolbox

Current Conditions

File Edit Windows

UTC: 1812

Solar Flux: 153 SSN: - Play Alert Sound

A-Index: 6

K-Index: 1 at 1800 UTC

Past 24 Hours: MODERATE Next 24 Hours: None

Space weather : MODERATE

Geomagnetic storms: G1 G1

Solar radiation storms: None None

Radio blackouts: R2 R2

GOES 14

Current: 1807 C2.8

Begin: 1318 C1.5

Max: 1405 M6.5

End: 1428 M3.2

Solar wind: 396.8 km/s Density: 2.9 p/cc Temperature: 96100 K

Magnetic Bx: -5.1 By: -1.4 Bz: 1.6 Bt: 5.5 nT Lat: 17.4 Long: 195.5 deg

Grayline Window

File Edit Windows

Date: 4/2/2014 UTC: 1805 Now Path

Propagation Window

File Edit Windows

Current UTC: 1805 Date: 4/2/2014 MHz: 17 Flux: 153 Watts: 100

Propagation Path Estimation For Freq

File Edit Windows

Parameters: MHz: 17 Solar Flux: 153 Power (W): 100 Date: 4/2/2014

Location A: Latitude: 29.82 Longitude: -98.65 Home

Location B: Latitude: -6.328276 Longitude: 174.5 Home



Digipan



K5NOF - DigiPan

File Edit Clear Mode Options View Locks Configure Help

Lookup CQ Call 3 Call BTU Signoff File Brag T/R Squelch Clear Multi ^

Call: Name: QTH: Rec'd: Sent: Band: Notes: * [Icons]

20m

CQ CQ CQ CQ CQZQ
 DE ..N2FBB/4N2FBB/4 plsK eo9dui
 wd9dui
 CQ CQ CQ de wd9dui wd9dui
 CQ CQ CQ de wd9dui wd9dui
 PSE K 0dtse i oEip

3 op iolo T t ettr rt titlno oea t l-ot
 tBGY B8oo WB8BGY WB8BG
 CQ CQ de wd9dui wd9dui PSE K yns
 æ oe3 pt JeeGij Qt
 P ou K i te
 K 1o n oe
 pn ' o toetao e pt-et ot be e
 UNIONTOWN COPY YU : 599 599 RADIO: ICOM 756PRO AN
 WV PSE K

TX RX IMD: 5q AFC Snap BPSK31 04/10/2014 17:41:42 z

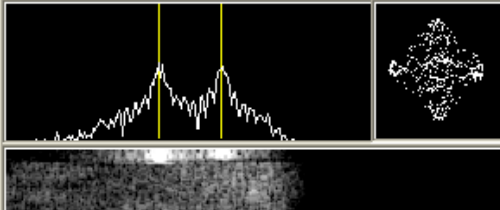


MMTTY



K5NOF (K5NOF.MDT) - MMTTY Ver1.68A

File(E) Edit(E) View(V) Option(O) Profiles(S) Program(P) Help(H)

Control		Demodulator (IIR)					Macro				
FIG	Mark	1829	Hz	Type	Rev.	HAM	1X2	QANS	SK	RY	
UOS	Shift	170	Hz	SQ	Not.	BPF	2X3	M6	EE	M14	
TX	BW	60	Hz				DE3	M7	M11	CQ2	
TXOFF	AV.	70	Hz	ATC	NET	AFC	UR599	M8	M12	CQ1	

QSO Data Init Call Find Name My His 599 14

```

EN
DL3GA TU W1AW/4 UP 2 "):..N4RWT N4RWT N4RWT K
RA3OX 599 VA RA3OX
LMPFZJ
RA3OX TU W1AW/4 UP 2
".MN4RXXRWT N4RWT K ML
SP6QM 599 VAP6QM
LCZ
VW
E HCROG
QR_

```

Clear 1X1 DEAR ANS BTU Edit Both wait

-



DX4Win Logging Software

\$95



- Full of features
 - Packet terminal
 - Packet spots
 - Band map
 - Call sign information (country, heading, distance, QSL manager, etc.)
 - Use for general QSO's, working DX, casual participation in contests.
 - Program includes PSK31 utilities similar to DIGIPAN.
 - MMTTY RTTY engine integrates into program.
 - Uses onboard and/or off board sound card (s).
 - Print labels and manage QSL cards.
 - Upload/download to/from LoTW.
 - Upload/download to/from eQSL.
 - Award tracking
- Just to name a few.
- See www.dx4win.com for more information.



DX4Win Setup Tabs



- Use these series of tabs to tell DX4Win how you want the program to operate:
 - Station capabilities
 - Defaults for a new QSO
 - Preferred fonts
 - Import parameters
 - Radio (s). Can be setup for SO2R.
 - Band decoders
 - Rotor control
 - Antenna control
 - CW generation via serial or parallel.
 - How to handle packet spots.
 - Setup for RTTY.
 - External call sign data base.
 - QSL confirmations
 - Label generation

Setup Parameters

File

Callsign:

Name and Address:

User Level: Worked Cutoff: Mailed Cutoff:

Grid locator: Longitude: Latitude:

Date format: Units:

Personal
Station
QSO
Screen
Import
Radio
Control
CW
Packet1
Packet2
Packet3
RTTY
Ext Data
F2 Key
Rep/Lab



QSO Entry Window



- Information generated by packet spot:
 - Callsign (can be entered manually)
 - Once call is entered other info generated by internal data base:
 - Country, heading/distance, prefix, QSL manager, IOTA number and name.
- Information generated by radio:
 - Mode, Band, Frequency
- Information generated by call sign data base:
 - Name, QTH
- Notes for QSO and Call entered by operator.
- Label, LoTW and eQSL defaults set in preferences.
- See user manual at www.dx4win.com for more information.

MASTER_LOG sorted by Date

QSO Sort Filter QSLs LoTW eQSL Window Reports Rotator

Georgia **4L : 27° 6,961Mi**

Callsign	Prefix	Date	Time	Mode	Band
4L1MA	4L	04/08/2011	15:30	CW	24MHz

rstS	rstR	Recvd	Zone	State	County	Grid
599	599		21			

Name: QTH: QSL Mgr: **ON4RU**

IOTA: IOTA Island: Freq (kHz): **24,908.10** Group: **7**

Notes for this QSO: Sat Name: Sat Mode:

Notes for this Call: QRP: **N** YLop: **N**

Label	QSL Date	Cnfm	Method
Y	/ /	N	Buro

LoTW	Upload Date	Cnfm	Custom award
Y	/ /	N	---

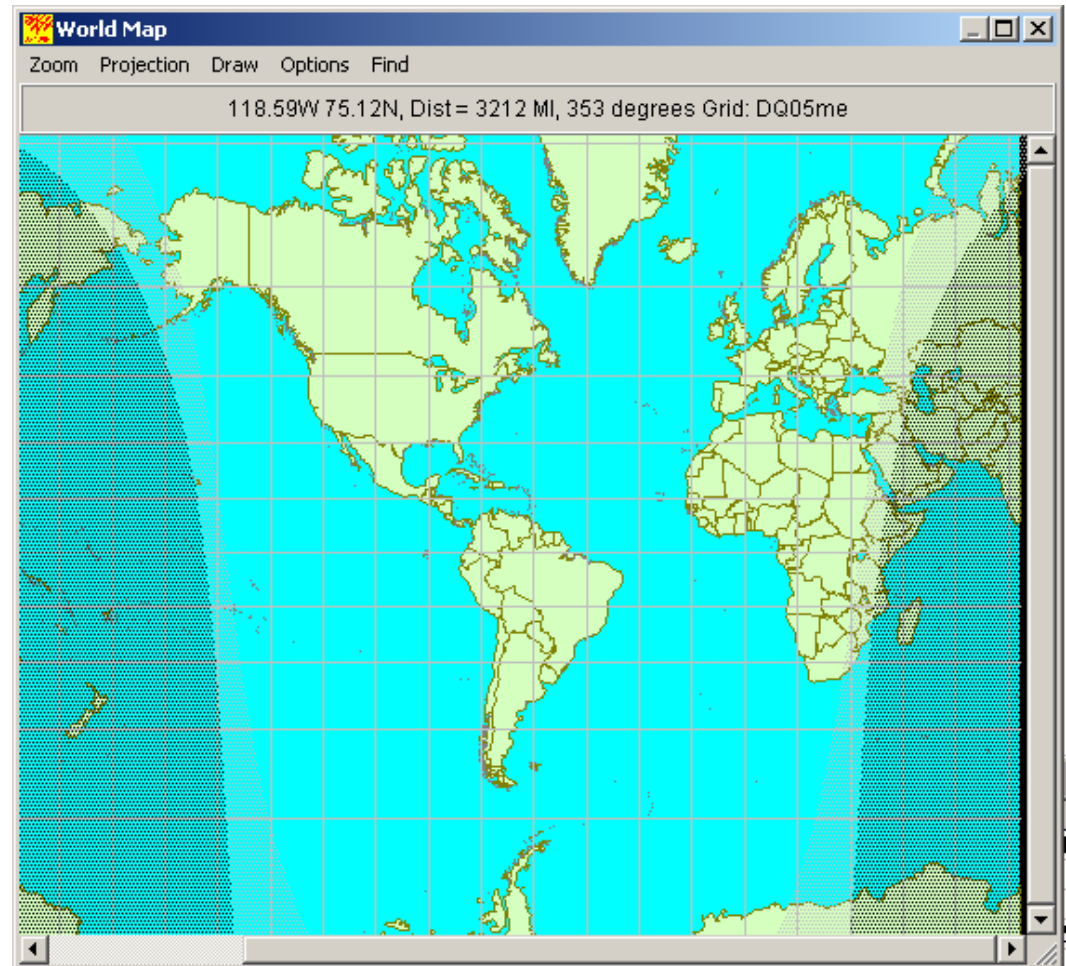
eQSL	Upload Date	Cnfm
N	/ /	N



Grayline Map



- A key tool for working DX
 - Map updated continuously.
 - Zoom in or out as desired.
 - Choice of standard map projections
 - Choice of amount of geographic detail shown.
 - Propagation paths based on spots.





K5NOF Master Log

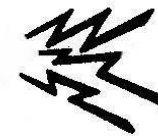


Column headings selected from menu. User determines sequence and arrangement.

Number	Date	Time	Band	Frequency	Mode	Callsign	Prefix	State	Country	IOTA	DXCCmix	DXCCmod	DXCCbnd	QSL Mgr	QSL Mthd	LUp1	LoTW Date	LCnf
11126	02/15/2014	14:30	28MHz	28,047.61	CW	EF8USA	EA8		Canary Islands	AF004				W2GR	Other		02/16/2014	
11127	02/15/2014	14:31	28MHz	28,051.15	CW	OH7H	OH		Slovak Republic					OH3PA	Other		02/16/2014	
11128	02/15/2014	14:32	28MHz	28,051.60	CW	ED7X	EA		Spain			*	*	EA7AJR	Other		02/16/2014	Y
11129	02/15/2014	14:33	28MHz	28,052.30	CW	I0UZF	I		Italy						Other		02/16/2014	
11130	02/15/2014	14:35	28MHz	28,001.20	CW	OH2XX	OH		Finland			*	*		Other		02/16/2014	Y
11131	02/15/2014	14:36	28MHz	28,008.60	CW	UU5U	UT		Ukraine					UX1UA	Other		02/16/2014	
11132	02/15/2014	14:39	28MHz	28,041.30	CW	E7DX	E7		Bosnia-Herzegovina			*	*	E77E	Other		02/16/2014	Y
11133	02/15/2014	14:42	28MHz	28,059.00	CW	406Z	40		Montenegro						Other		02/16/2014	
11134	02/15/2014	14:45	28MHz	28,033.40	CW	S54W	S5		Slovenia						Other		02/16/2014	
11135	02/15/2014	15:36	28MHz	28,066.44	CW	Z39A	Z3		Macedonia						Other		02/16/2014	
11136	02/15/2014	15:39	28MHz	28,013.07	CW	OZ8SW	OZ		Denmark	EU029		*	*		Other		02/16/2014	Y
11137	02/15/2014	17:21	28MHz	28,050.09	CW	ER1V	ER		Moldova						Other		02/16/2014	
11138	02/15/2014	17:26	28MHz	28,112.50	CW	YL3FT	YL		Latvia						Other		02/16/2014	
11139	02/15/2014	17:43	21MHz	21,012.10	CW	SU9DJ	SU9		Crete	EU015		*	*		Other		02/16/2014	Y
11140	02/15/2014	22:41	21MHz	21,050.40	CW	9L1A	9L		Sierra Leone					9A2AA	Other		02/16/2014	
11141	02/15/2014	23:02	14MHz	14,044.50	CW	EL1R	EL		Liberia						Other		02/16/2014	
11142	02/15/2014	23:12	14MHz	14,039.10	CW	HK1NA	HK		Colombia					K61PM	Other		02/16/2014	Y
11143	02/16/2014	01:49	3.7MHz	3,530.91	CW	EA6F	EA6		Baleaic Islands	EU004		*	*		Other		02/16/2014	Y
11144	02/16/2014	11:41	7MHz	7,013.44	CW	KH7LC	KH6	HI	Hawaii	OC019					Other		02/16/2014	
11145	02/16/2014	11:44	7MHz	7,007.56	CW	JE7JDL	JA		Japan	AS007					Other		02/16/2014	Y
11146	02/16/2014	13:01	7MHz	7,012.70	CW	VJ8DU	YJ		Uanuatu	OC035		*	*	N70U	Other		02/16/2014	Y
11147	02/16/2014	13:06	3.7MHz	3,511.40	CW	KH2/N2NL	KH2		Guam	OC026		*	*	W2YC	Other		02/16/2014	Y
11148	02/16/2014	13:16	28MHz	28,011.40	CW	SU1DP1	SU		Greece			*	*		Other		02/16/2014	Y
11149	02/16/2014	13:18	28MHz	28,051.00	CW	I02X	I		Italy						Other		02/16/2014	
11150	02/16/2014	13:29	21MHz	21,110.10	CW	UN3H	UN		Kazakhstan					EA7FTR	Other		02/16/2014	
11151	02/16/2014	13:31	21MHz	21,030.20	CW	ER1V	ER		Moldova						Other		02/16/2014	
11152	02/16/2014	13:31	21MHz	21,102.30	CW	Z36W	Z3		Macedonia					Z37M	Other		02/16/2014	
11153	02/16/2014	13:34	28MHz	28,085.10	CW	9K2/SP4R	9K		Kuwait					SP7DQR	Other		02/16/2014	
11154	02/16/2014	13:48	28MHz	28,103.20	CW	D44CF	D4		Cape Verde	AF005				SM0JHF	Other		02/16/2014	
11155	02/16/2014	14:35	21MHz	21,107.90	CW	7Z1SJ	HZ		Saudi Arabia					EA7FTR	Other		02/16/2014	
11156	02/16/2014	14:52	28MHz	28,075.60	CW	UA2F	UA2		Kaliningrad					DK4UW	Other		02/16/2014	
11157	02/16/2014	17:12	21MHz	21,102.05	CW	GU4CHY	GU		Guernsey	EU114					Other		02/16/2014	
11158	02/16/2014	17:23	28MHz	28,013.70	CW	0T2A	ON		Belgium					ON4HIL	Other		02/16/2014	
11159	02/16/2014	18:10	24MHz	24,940.00	SSB	J8/K8EAB	J8		St. Vincent	NA109		*	*		Other		02/16/2014	Y
11160	02/16/2014	18:13	24MHz	24,933.00	SSB	ON8KW	ON		Belgium			*	*		Other		02/16/2014	Y
11161	02/16/2014	18:13	24MHz	24,942.20	SSB	DL4KAO	DL		Federal Republic of Germany						Other		02/16/2014	
11162	02/16/2014	18:13	24MHz	24,947.80	SSB	IK6SNR	I		Italy						Other		02/16/2014	
11163	02/16/2014	18:20	24MHz	24,965.50	SSB	F5LIW	F		France			*	*		Other		02/16/2014	Y
11164	02/16/2014	18:52	28MHz	28,028.80	CW	6W/G3TXF	6W		Senegal			*	*	OQRS	Other		02/16/2014	Y
11165	02/16/2014	18:53	28MHz	28,066.20	CW	YN2NC	YN		Nicaragua			*	*	A1AU	Other		02/16/2014	Y
11166	03/06/2014	00:42	21MHz	21,007.50	CW	R11ANC	CE9		Antarctica	AN016		*	*	RN10N	Other		03/22/2014	Y
11167	03/11/2014	04:44	10MHz	10,103.10	CW	KH600	KH6	HI	Hawaii	OC019		*	*		Other		03/22/2014	Y
11168	03/14/2014	02:52	3.7MHz	3,529.00	CW	W1AW/7	K	AZ	United States of America						Other		03/22/2014	
11169	03/14/2014	02:54	10MHz	10,111.00	CW	W1AW/7	K	AZ	United States of America						Other		03/22/2014	
11170	03/14/2014	02:55	10MHz	10,115.80	CW	W1AW/8	K	OH	United States of America						Other		03/22/2014	
11171	03/21/2014	23:49	24MHz	24,907.40	CW	W1AW/KH2	KH2		Guam	OC026					Other		03/22/2014	
11172	03/21/2014	23:56	24MHz	24,895.00	CW	TX6G	FO/A		Austral Islands	OC114		*	*	G3TXF	Other		03/22/2014	Y
11173	03/22/2014	12:38	7MHz	7,005.70	CW	ZL7AAA	ZL7		Chatham Islands	OC038				UE7NY	Other		03/22/2014	
11174	03/28/2014	01:09	24MHz	24,935.00	SSB	KL75B	KL7	AK	Alaska					N15DX	Other	Y		
11175	03/28/2014	01:14	24MHz	24,896.00	CW	W1AW/0	K	IA	United States of America						Other	Y		
11176	03/28/2014	01:17	28MHz	28,397.00	SSB	ZL7AAA	ZL7		Chatham Islands	OC038				UE7NY	Other	Y		
11177	03/28/2014	01:24	7MHz	7,012.30	CW	HH2/N5JR	HH		Haiti	NA096					Other	Y		
11178	03/28/2014	01:25	18MHz	18,070.00	CW	HK0/UA4WHX	HK0		San Andres & Providencia	NA033					Other	Y		
11179	04/02/2014	23:37	24MHz	24,938.00	SSB	HC8ART	HC8		Galapagos Islands	SA004					Other	Y		



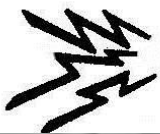
DX4Win



User selects, sizes and arranges windows as desired. K5NOF setup for general operation.

The screenshot displays the DX4Win software interface with several windows open:

- BandMap:** Shows a frequency plot with a marker for JY5HX at 14,015.70 MHz. Other call signs like CN8VAN and OK1GTH are also visible.
- DX spots [DXCC] sorted by Time:** A table listing active spots with columns for P, Freq, Callsign, Memb, Time, QSL, Remarks, and Spotter.
- MASTER_LOG sorted by Date:** A window for logging QSOs, showing details for a QSO with Jordan (JV) at 14,015.70 MHz.
- IOTA:** A window for logging IOTA activities, showing details for IOTA Island 7.
- Info: JY:** A window showing heading, long path, and reciprocal information for call sign JY.
- Packet Window:** Shows received packets from stations like UE 21022 TH and JY 21032 PA.
- Report: LogBook sorted by Date:** A table listing a log of QSOs with columns for Number, Date, Time, Band, Mode, Callsign, QSL Mgr, Prefix, Zone, State, Country, Conf, LCNf, IOTA, IOTA Island, QSL Mthd, LUp1, LoTW Date, Label, and QSL Date.



DX4Win with MMTTY



DX4WIN 8.04 K5NOF Alan Walkers

File Radio Help

Add real-time 00:47

BandMap

14,083.44 20m

DX spots [DXC] sorted by Time

P	Freq	CallSign	MemB	Time	QSL	Remarks	Spotter
1	18,105.6	UR2DX0		00:19		RTTYV Loud UR	K7XC
3	18,158.0	BD4QH	EL	00:21		TNX Pan!! 73 73 de	V5N2M
3	18,136.0	BT4EXP0		00:26		59 BV	KD4ESU
3	14,026.0	BD9AC		00:33		BV	K8BJ
3	7,009.1	CX9AU	E	00:33		CX	K9FEN
1	10,102.0	R11FJ		00:34		readable in WYV UA	KE2WV
3	18,115.0	0A8ACT	E	00:37		0A	NC00
3	3,500.6	5N7H		00:38		cq up1 579 1 hr b4	VE6HZ
3	7,007.6	R1ANP		00:41		CE9	W0FJ
3	24,894.0	UK2GUK	EL	00:41		FB in North Calif +K6XG	
6	14,260.0	UP8DWH		00:45		CE9	KFAECG
1	7,160.0	5B50AIF		00:46		Norman in Paphos, CYPRUS	

Talk messages and announcements

WUW: SFI=91 A=4 K=1 No Storms -> No Storms 9/30/2010 15:00Z
 WUW de N5IN <182> : SFI=91, A=4, K=1, No Storms -> No Storms
 To ALL de N4YIC <18432> : SFI=91, A=4, K=1, No Storms / No Storms
 WUW de VE1DX <212> : SFI=90, A=1, K=1, No Storms -> No Storms
 To ALL de W2VC <29532> : TS7TI doesn't announce his IOTA nr???
 WUW de N5IN <002> : SFI=90, A=1, K=1, No Storms -> No Storms
 To ALL de K3PA <00102> : AD4X you didnt work the 9M2, that was a stn in Montana

Packet Window

DX de K3RH: 14080.9 RX0AT
 UA9 00442 PA
 DX de K5WPH: 14242.0 K6B 59 in Okla
 +K 00462 OK

Reports LogBook sorted by Date

Number	Date	Time	Band	Mode	CallSign	QSL Mgr	Prefix	Zone	State	Country
9037	08/08/2010	01:52	7MHz	CW	M4HAF		K	5	NC	United S
9038	08/08/2010	01:54	7MHz	CW	0U0U		K	4	TX	United S
9039	08/08/2010	01:55	7MHz	CW	M21C		K	4	NM	United S
9040	08/08/2010	01:59	7MHz	CW	W47NB		K	3	AZ	United S
9041	08/08/2010	02:01	7MHz	CW	NC4KW		K	5	NC	United S
9042	08/08/2010	02:03	7MHz	CW	K9DX		K	4	IL	United S
9043	08/08/2010	02:05	7MHz	CW	W040		K	4	TN	United S
9044	08/08/2010	02:06	7MHz	CW	W7CT		K	3	UT	United S
9045	08/08/2010	02:08	7MHz	CW	W0BT		K	4	SD	United S
9046	08/08/2010	02:08	7MHz	CW	K0RV		K	4	CO	United S
9047	08/08/2010	02:11	7MHz	CW	K0EU		K	4	CO	United S
9048	08/08/2010	02:15	3.7MHz	CW	K560		K	4	AR	United S
9049	08/08/2010	02:25	3.7MHz	CW	NN4MM		K	4	AL	United S
9050	09/06/2010	01:22	10MHz	CW	K8FN		K	4	OH	United S
9051	09/07/2010	22:59	10MHz	CW	9X0TL	DL2RUM	9X	36		Rwanda
9052	09/24/2010	00:23	7MHz	CW	K89BUN		K	4	IN	United S
9053	09/24/2010	00:43	14MHz	SSB	I26CLZ		I	15		Italy

MASTER_LOG sorted by Date

QSO Sort Filter QSLs LoTW eQSL Window Reports Rotator

CallSign Prefix Date Time Mode Band
 10/01/2010 00:47 SSB 14MHz

rstS rstR Recvd Zone State County Grid
 59 59

Name QTH QSL Mgr

IOTA IOTA Island Freq (kHz) Group
 -- 14,083.44 7

Notes for this QSO Sat Name Sat Mode

Notes for this Call QRP YLop
 N N

Label QSL Date Cnfm Method
 Y / / N Buro

LoTW Upload Date Cnfm Custom award
 Y / / N ---

eQSL Upload Date Cnfm
 N / / N

Other QSOs

Date	Time	Band	Mode	Conf	QSLDate	Groupnam
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MMTTY Window

RXPAH
 X0AT R1AT
 CQ DE RH0AT RX0AT URX0JT C KNA U

1 CQ 2 GRZ 3 ReplCQ 4 TnxCall 5 TnxRST 6 ZxRST 7 Start 8 BTU

RTTY Control panel

View(V) Option(O) Profiles(5)

Control

FIG Mark 1464 Hz Type Rev. HAM

UOS Shaft 170 Hz SQ Not. BPF

TX BW 60 Hz

TXOFF AV. 70 Hz ATC NET AFC