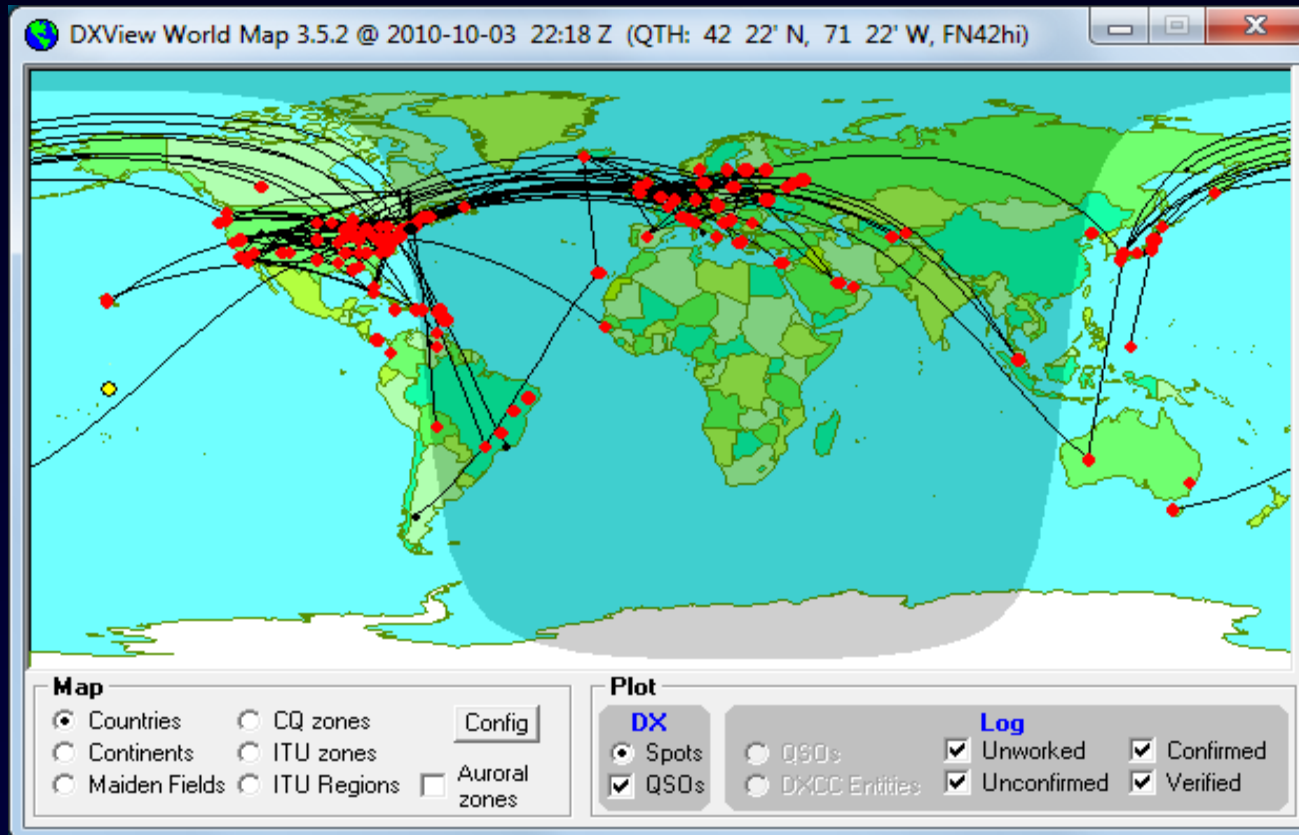


# DXing with DXLab

v12 2021-06



## Better DXing Through Software

# DXing

The art and science  
of making two-way contacts  
with distant amateur radio stations  
using phone, CW, or digital modes

# DXLab: Better DXing Through Software

1. Automates QSL wrangling and award submissions to liberate more time for DXing
2. Makes time spent DXing more productive by helping you
  - Find the DX you need
  - Work the DX you need

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# Wrangling Electronic and Hardcopy QSLs

- Submit QSOs to LotW & eQSL, and download QSLs
- Request QSLs by sending outgoing QSL cards
  - Find QSL routes
  - Track responses
- Update DXing objectives as QSLs are received
- Submit QSLs for Award Credit

# Electronic QSL Automation

- eQSL.cc
  - Database of known Authenticity Guaranteed (AG) participants
  - Optional automatic upload as QSOs are logged
  - One-click download of new confirmations and award progress update
- LotW
  - Database of known participants with date of last submission
  - Optional automatic upload as QSOs are logged
  - One-click download of new confirmations and award progress update
  - Show QSOs that should be confirmed via LoTW, but aren't

# Identifying Missing LoTW QSLs

- DXLab's LoTW database contains all stations known to participate in LoTW, and the date at which each last submitted QSOs to LoTW
- You can identify all unconfirmed QSOs with stations known to participate in LoTW that have submitted QSOs to LoTW after the QSO date
  - contact your QSO partner
  - Ask them to submit your QSO, or correct the mismatch and resubmit

# Hardcopy QSL Automation

You can

- Generate QSL cards or Labels requesting confirmations **needed** for DXCC, IOTA, Marathon, VUCC, WAS, WAZ, and WPX
- Locate QSL routes from more than 80 web-accessible sources
- Generate address labels or print envelopes
- Use full-page printers and individual label printers



# DXing Objectives Drive Automation

You can specify the bands and modes you are pursuing for each of DXCC, IOTA, Marathon, VUCC, WAS, WAZ, and WPX

The screenshot shows the 'DXKeeper Configuration' window with the 'Awards' tab selected. The window is divided into several sections for configuring different awards:

- General Settings:** Includes checkboxes for 'Automatically recompute realtime award tracking' (checked), 'Deduce CQ and ITU zones from US call signs' (unchecked), 'Include LotW QSLs in CQ (DX, Fields), JARL, & Maidenhead Grid progress' (unchecked), and 'Include eQSL.cc QSLs in DXCC, VUCC, WAS, WAC, & Maidenhead Grid progress' (unchecked).
- DXCC Bands & Modes:** Lists bands from 160M to 2M. Modes include Phone, CW, Digital, FT8, and QRP. A dropdown menu shows 'FT8' selected under 'User-specified digital mode family'. A checkbox for 'Hide unworked in progress rpt' is checked.
- DXCC Submission:** Includes a checkbox for 'Submit deleted entities' (checked) and a text field for 'Record Sheet lines/page' set to '75'.
- Marathon Submission:** Includes a checkbox for 'Confirmed QSOs are low risk' (checked).
- VUCC & WAS Submission:** Includes radio buttons for 'QSL Card' and 'LotW' (selected).
- DXCC Credits:** Includes a checkbox for 'Credit-only QSO creation' (checked).
- Marathon Bands & Modes:** Lists bands from 160M to 2M. Modes include Phone, CW, Digital, Mixed, and 'Include QSOs with no prop'. A text field for 'Max TX power' is set to '1500'. A button 'Year, Category, Score Sheet Info' is present. A checkbox for 'Realtime Award Progress' is checked.
- VUCC Bands & Modes:** Lists bands from 6M to 13 CM and up, plus Satellite. A checkbox for 'Realtime Award Progress' is checked.
- WPX Bands & Modes:** Lists bands from 160M to 6M. Modes include SSB, CW, Digital, and Mixed. A checkbox for 'Realtime Award Progress' is checked.
- WAS Bands & Modes:** Lists bands from 160M to 70CM. Modes include Phone, CW, RTTY, Digital, SSTV, Sat, QRP, and Mixed (Basic). A checkbox for 'Realtime Award Progress' is checked.
- IOTA:** Includes checkboxes for 'IOTA mem4win update' (unchecked) and 'Realtime Award Progress' (unchecked).
- Other Awards:** Includes checkboxes for 'CQ, WAE, Holyland region select' (checked), 'DARC DOK region selection' (unchecked), 'WAE 2 point low-band QSOs' (unchecked), and 'Subdivision validity checking' (checked).
- WAZ Bands & Modes:** A grid for selecting bands and modes (Mixed, SSB, CW, RTTY, AM, SSTV, Digital). A checkbox for '5-band WAZ' is checked. A checkbox for 'Realtime Award Progress' is checked.

Buttons at the bottom include 'QSL Config' and 'Help'.

# QSL Card Printing

DXKeeper Print Preview

Next Print Left margin: .117 in Width: 10.333 in Top margin: .117 in Height: 8.267 in

Dave Bernstein  
25 Glezen Lane  
Wayland, MA 01778

**AA6YQ**

Middlesex County  
FN42hi  
USA

**Confirming a 2X QSO with AP2TN**

Date	Time	Freq	Mode	RST	QSL?	Notes
02-Sep-10	2058Z	10.102	CW	559	please!	

printed by DXLab freeware [www.dxlabsuite.com](http://www.dxlabsuite.com)

Dave Bernstein  
25 Glezen Lane  
Wayland, MA 01778

**AA6YQ**

Middlesex County  
FN42hi  
USA

**Confirming a 2X QSO with A51A**

Date	Time	Freq	Mode	RST	QSL?	Notes
10-Sep-10	2354Z	7.005	CW	599	please!	

printed by DXLab freeware [www.dxlabsuite.com](http://www.dxlabsuite.com)

Dave Bernstein  
25 Glezen Lane  
Wayland, MA 01778

**AA6YQ**

Middlesex County  
FN42hi  
USA

**Confirming a 2X QSO with JT5DX**

Date	Time	Freq	Mode	RST	QSL?	Notes
19-Sep-10	2323Z	18.075	CW	599		

printed by DXLab freeware [www.dxlabsuite.com](http://www.dxlabsuite.com)

Dave Bernstein  
25 Glezen Lane  
Wayland, MA 01778

**AA6YQ**

Middlesex County  
FN42hi  
USA

**Confirming 2X QSOs with VQ9LA**

Date	Time	Freq	Mode	RST	QSL?	Notes
17-Sep-09	1522Z	18.087	CW	599		
21-Feb-10	0112Z	10.117	CW	599		
08-Aug-10	0144Z	7.002	CW	599		
28-Aug-10	0101Z	3.508	CW	599		

printed by DXLab freeware [www.dxlabsuite.com](http://www.dxlabsuite.com)

# QSL Card Printing

Wayland Massachusetts  
Middlesex county

**AA6YQ**


Grid: FN42hi  
42 20' N  
71 25' W

Confirming a 2X QSO with 5T0JL via ON8RA

Date	Time	Freq	Mode	RST	QSL?	Notes
28-Jul-11	1906Z	24.894	CW	579		

printed by DXLab freeware

[www.dxlabsuite.com](http://www.dxlabsuite.com)



# QSL Label Printing

DXKeeper Print Preview

Next Print

Left margin: .117 in Width: 8.267 in  
Top margin: .117 in Height: 10.333 in

AA6YQ cfm a 2X QSO with AP2TN

Date	Time	Freq	Mode	RST
02-Sep-14	2058Z	10.102	CW	559

AA6YQ cfm a 2X QSO with A51A

Date	Time	Freq	Mode	RST
10-Sep-14	2354Z	7.005	CW	599

AA6YQ cfm a 2X QSO with JT5DX

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AA6YQ cfm 2X QSOs with VQ9LA

Date	Time	Freq	Mode	RST
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08-Aug-10	0144Z	7.002	CW	599

AA6YQ cfm 2X QSOs with VQ9LA

Date	Time	Freq	Mode	RST
28-Aug-10	0101Z	3.508	CW	599

# Hardcopy QSL Automation



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- Locate QSL routes from more than 80 web-accessible sources
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- Use full-page printers and individual label printers
- Keep track of requested QSLs not yet received

# QSL Route Discovery

Pathfinder 5.2.7 {Script error notifications are hidden}: results from VK Callbook for VK3ZL

2020 X HC VK3ZL Buck QRZ Google K2DSL 425DXN IK3QAR Config  
RAC VK CB Club Log QRZ RU HamQTH DB0SDX JJ1WTL hamdb Help

  Register of Radiocommunications Licences

[Search Register](#)  
[Licences by Sub Service](#)  
[Site Location Map](#)  
[Spectrum Areas Map](#)  
[Frequency Range Search](#)  
[Access Areas](#)  
[Antennas](#)  
[400MHz Search](#)  
[800MHz Search](#)  
[Direction Finder](#)  
[Site Photo Search](#)  
[Data Download](#)  
[Offline RRL](#)  
[RRL Archive](#)  
[Class Licences](#)  
[Help](#)

**Client Details**

RRL data as of: 05/May/2021 15:25

Client Number	137687
Licensee	Arie Groen
Postal Address	110 School Road BALLIANG EAST VIC 3340
Fee Status	Normal

**Licences Held**

Results 1 - 2 of 2 licences.

BSL/Licence No	Service	Sub Service	Date of Expiry	Callsign(s)	Ship Name	Status
9950204/3	Amateur	Advanced	14/Mar/2022	VK3ZL		Granted
1303411/1	Amateur	Advanced	11/Mar/2022	VK3AMZ		Granted

[ [New Client Search](#) ]

\*engage | donotcall | cyber(smart) | smartnumbers\* | researchacma  
[The fine print](#) | [Privacy policy](#) | [Careers](#) | [Contact](#) | [Site map](#)

Australian Communications and Media Authority  
communicating | facilitating | regulating

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# QSLs Requested But Not Received

AA6YQ QSL aging analysis @ 05-May-2021

```
missing DXCC entities:      0
missing DXCC entity-bands:  1
missing DXCC entity-modes:  0

missing IOTA groups:        0

missing VUCC grid-bands:    2

missing WAS states:         0
missing WAS state-bands:    0
missing WAS state-modes:    0

missing WAZ zones:          0
missing WAZ zone-bands:     0
missing WAZ zone-modes:     0
missing WAZ zone-band-modes 0
```

Call	Band	Mode	QSO Date	DXCC	IOTA	Grid1	Grid2	Grid3	Grid4	State	CQ	QSL Date	Weeks	Expired	QSL_SENT_VIA	Need
LA6SL	6M	CW	21-Nov-2001	LA		JP50					14	24-Nov-2001	999			VUCC
CE4WJK	6M	SSB	19-Sep-2011	CE		FF45					12	05-Oct-2011	500		D	VUCC
5B4/YL2RR	6M	SSB	02-May-2014	5B							14	13-Jan-2021	16		D	DXCC (entity-band)

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1. Automates QSL wrangling and **award submissions** to liberate more time for DXing
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# Award Submission Automation

You can

- Generate Award Progress Reports
- Identify confirmed QSOs for which award credit would advance progress towards your DXing objectives, and generate the required submission files (DXCC, IOTA, Marathon, VUCC, WAS, WAZ, WPX)
- Update confirmed QSOs to reflect award credit granted (DXCC, IOTA)

# Award Progress Reports

- DXCC & Challenge
- CQ DX
- CQ DX Marathon
- CQ Field
- Gridsquares
- IOTA
- TOPLIST
- VUCC
- Worked All Continents
- Worked All CQ Zones
- Worked All Europe
- Worked All ITU Zones
- Worked All Prefixes
- Worked All US States
- Worked All Belgian Provinces
- Worked All British Areas
- Worked All Canadian Provinces
- Worked All French Departments
- Worked All DARC DOKs
- Worked All Holyland Areas
- Worked All Hungarian Counties
- Worked All Italian Provinces
- Worked All Japanese Cities
- Worked All Japanese Guns
- Worked All Japanese Prefectures
- Worked All Korean Districts
- Worked All Russian Oblasts
- Worked All Russian Districts
- Worked All Summits on the Air (SOTA)
- Worked All Swiss Cantons
- Worked All US Counties
- Worked All US Gridsquares (FFMA)
- Worked All User-defined Counters

# DXCC Progress Report

Confirmed DXCC Countries (excludes deleted countries)

```

mixed 340
phone 340
cw 339
digi 336
FT8 222
160m 258
80m 312
40m 333
30m 325
20m 339
17m 336
15m 338
12m 331
10m 331
6m 111
2m 002
Sat 003
    
```

Top (9 HF Bands, Phone, CW, Digital, excludes deleted countries)

```

topmode 1015
topband 2903
toplist 3918
    
```

Entity	Prefix Deleted	Mixed	Phone	CW	DIGI	FT8	160M	80M	40M	30M	20M	17M	15M	12M	10M	6M	2M	Card	LotW	Sat
Sov. Military Order Of Malta	1A	V	V	V	V	C	V	V	V	V	V	V	V	V	V			V	V	
Spratly Islands	1S	V	V	V	V			V	V		V	V	V	V	V			V	V	
Monaco	3A	V	V	V	V	W		V	V	V	V	V	V	V	V			V	C	
Agalega & St Brandon Islands	3B6	V	V	V	V		V	V	V	V	V	V	V	V	V			V	C	
Mauritius Island	3B8	V	V	V	V	C	V	V	V	V	V	V	V	V	V			V	C	
Rodriguez Island	3B9	V	V	V	V	C	V	V	V	V	V	V	V	V	V			V	C	
Equatorial Guinea	3C	V	V	V	V		V	V	V	V	V	V	V	V	V			V	V	
Annobon	3C0	V	V	V	V		V	V	V	V	V	V	V	V	V			V	V	
Conway Reef	3D2-C	V	V	V	V	W		V	V	V	V	V	V	V	V			V	V	
Fiji Islands	3D2-F	V	V	V	V	C	V	V	V	V	V	V	V	V	V			V	V	
Rotuma	3D2-R	V	V	V	V	W		V	V	V	V	V	V	V	V			V	C	
Swaziland	3DA	V	V	V	V	C		V	V	V	V	V	V	V	V			V	C	
Tunisia	3V	V	V	V	V	W	V	V	V	V	V	V	V	V	V			V	C	
Viet Nam	3W	V	V	V	V			V	V	V	V	V	V	V	V			V	V	
Guinea	3X	V	V	V	V		V	V	V	V	V	V	V	V	V			V	C	
Bouvet Island	3Y-B	V	V	V					V		V	V	V	V	V			V	C	
Peter 1 Island	3Y-P	V	V	V	V		V	V	V	V	V	V	V	V	V			V	C	

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You can

- Generate Award Progress Reports
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# Generated DXCC Record Sheet

AA6YQ DXCC LotW Record Sheet 30-Dec-2020

	Call	QSO Date	Band	Mode	Entity
0001	YE3WIL	27-11-2020	30M	FT8	Indonesia
0002	E44RU	11-01-2020	160M	FT8	Palestine
0003	HL5BLI	26-11-2020	30M	FT8	Republic of Korea

# Award Submission Automation

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1. Automates QSL wrangling and award submissions to liberate more time for DXing
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# DXing With DXLab

- Introduction to the DXLab Suite
  - Drivers
  - Architecture
  - Multiple Views of Active DX
- Finding the DX You Need
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# Drivers

## 1. User-driven iterative development

- Online group with 4700+ participants
- Defect repairs get highest priority; goal is < 24 hours
- Public enhancement lists
- Frequent releases (several per month)

## 2. Powerful and Easy to Use

- Primarily for DXers
- Secondarily for casual operators

## 3. Runs on Windows NT, 2000, XP, Vista, 7, 8, and 10

- and Mac in a virtual machine
- and Linux in a virtual machine

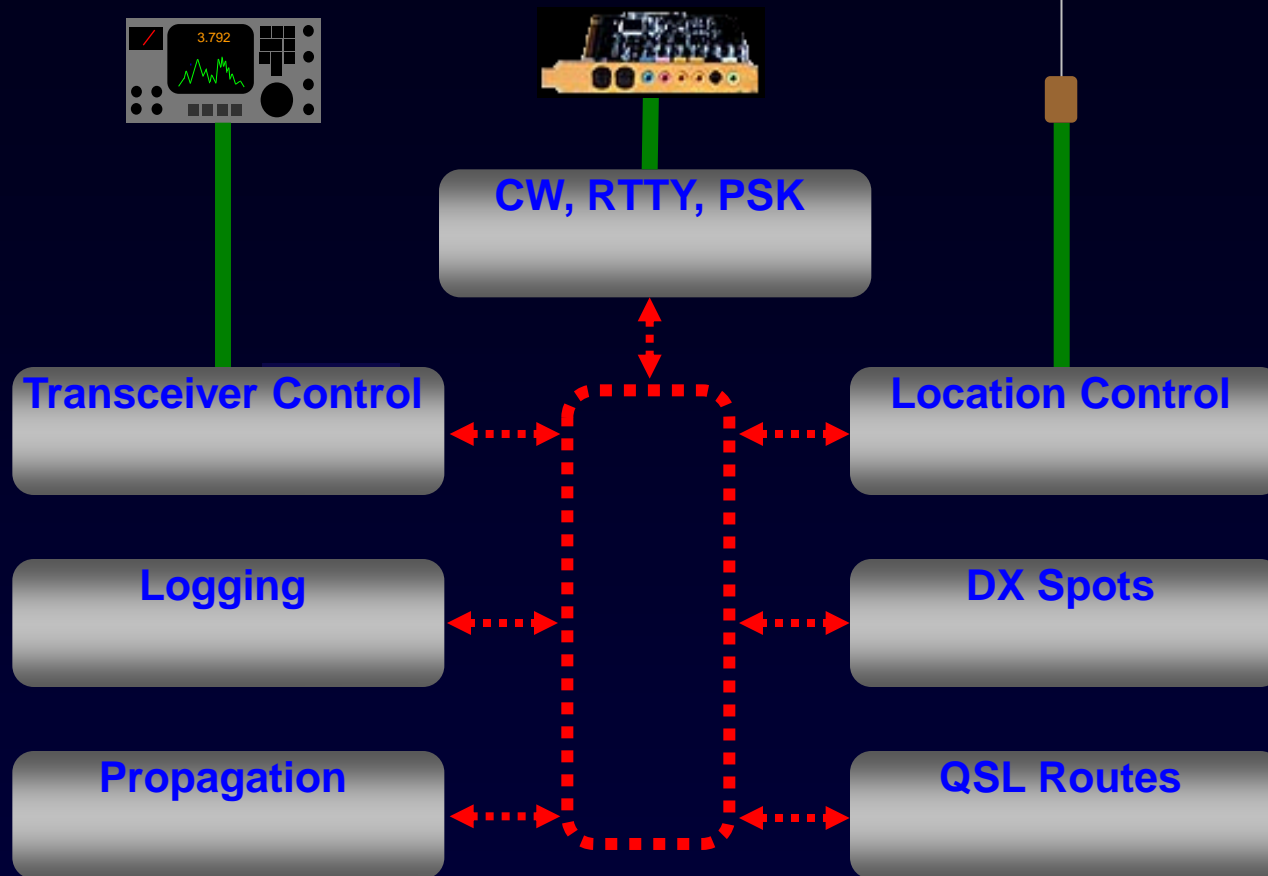
# DXing With DXLab

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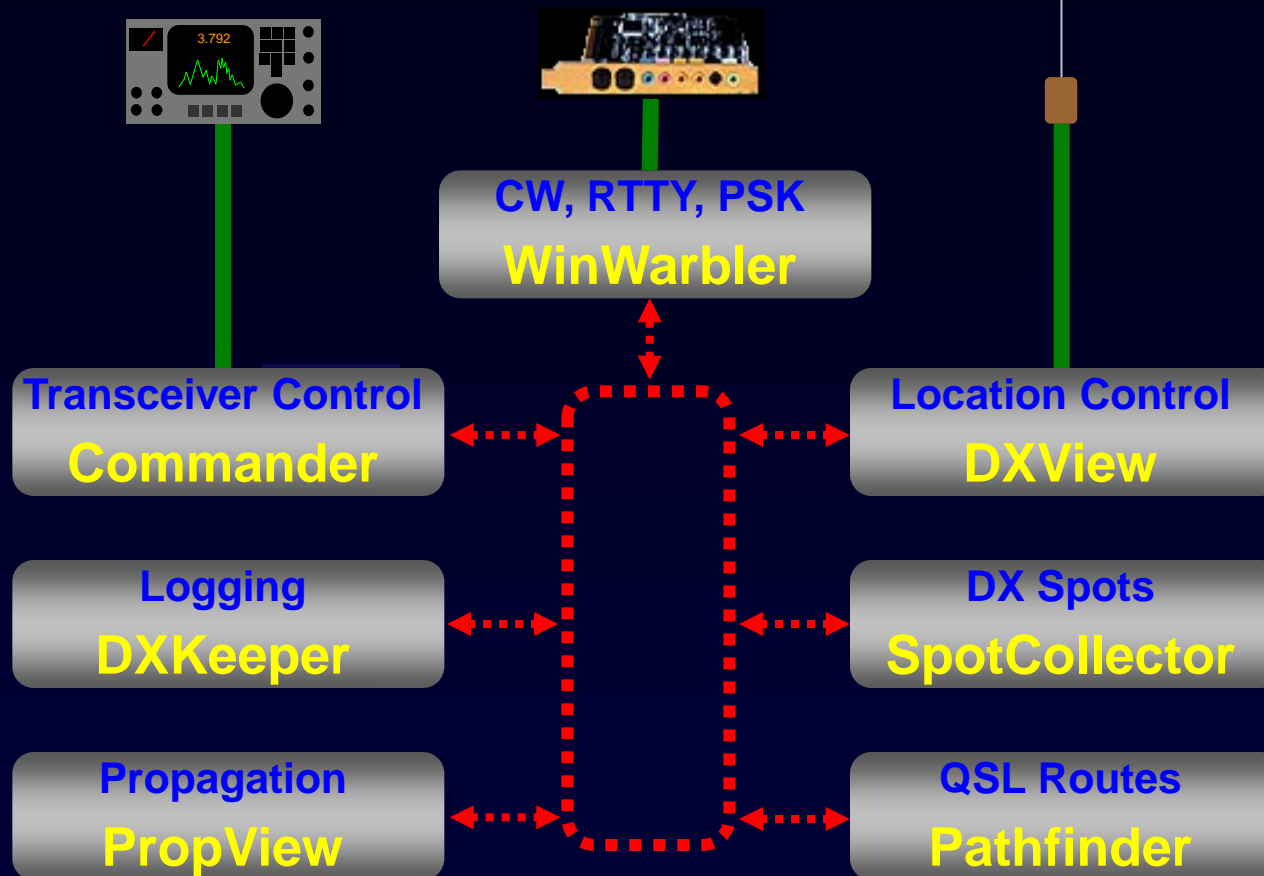
# the DXLab Suite

Eight free applications that run individually  
but  
when run simultaneously sense each other's presence  
and  
interoperate automatically

# the DXLab Suite

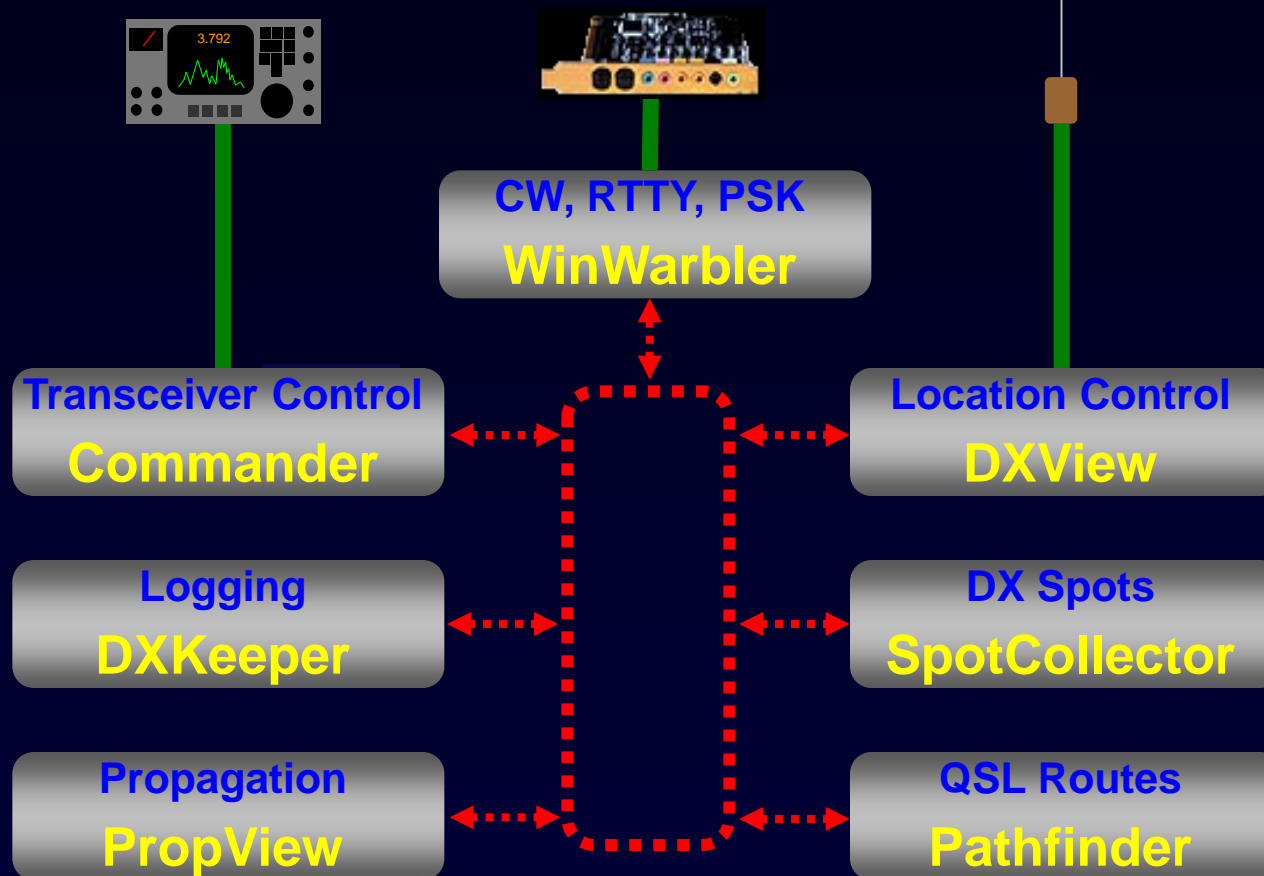


# the DXLab Suite



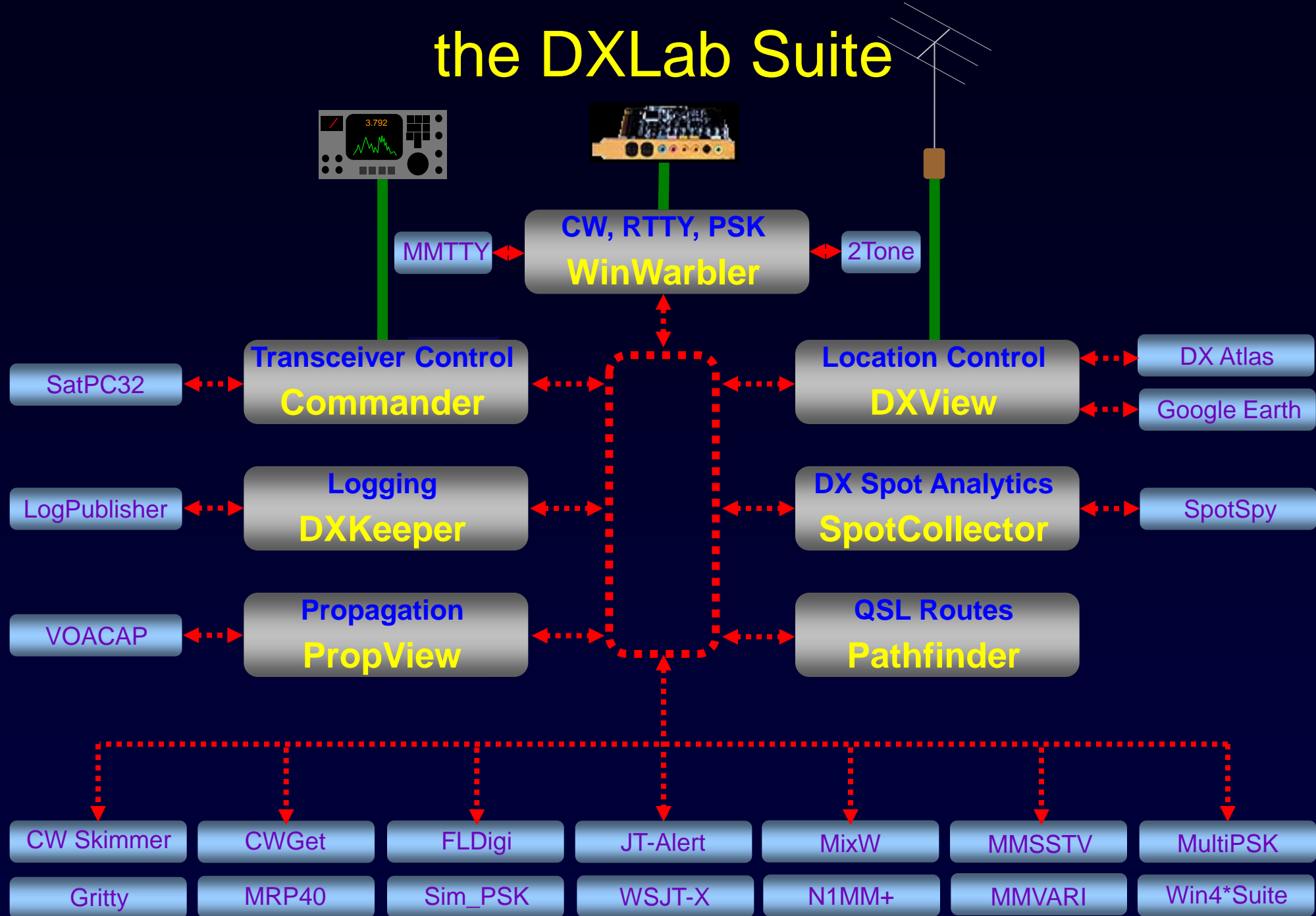


# the DXLab Suite



- Modular
- Loosely-coupled

# the DXLab Suite



# A Suite of DXing Applications

**DXKeeper 8.9.4** [CC,DXV,SC,WW] - AA6YQ.mdb : 18487 QSOs

Log QSOs | QSL | Check Progress | my QTHs | Import QSOs | Export QSOs

**QSO: Jordan**

call JY4NE name QTH

mode RTTY via tx freq 14.086765 begin 9/20/2010 18:37

sent 599 rcvd 599 tx band 20M rx freq 14.086764 end 9/20/2010 18:37

power 1500 code 342 DXCC JY entity Jordan

New Save Undo CBA Delete Report Plot 18487 Adv RAT Capture Config Help

Call	DXCC	Starting UTC	Band	Mode	Sent	Rcvd	Name
JT5DX	JT	9/19/2010 23:23	17M	CW	599	599	hadraabal
RXQAT	UA	9/20/2010 01:01	20M	RTTY	599	599	Vit
KP4JFR	KP4	9/20/2010 01:11	20M	RTTY	599	599	Jose
JY4NE	JY	9/20/2010 18:37	20M	RTTY	599	599	

Sort: UTC Call Adv Filter: None EY7AD X Call DXCC Date Since Sel LotW Broke

**SpotCollector 5.3.9** @ 2010-10-04 19:59 Z [CC,DXK,DXV,WW] (log: AA6YQ.mdb)

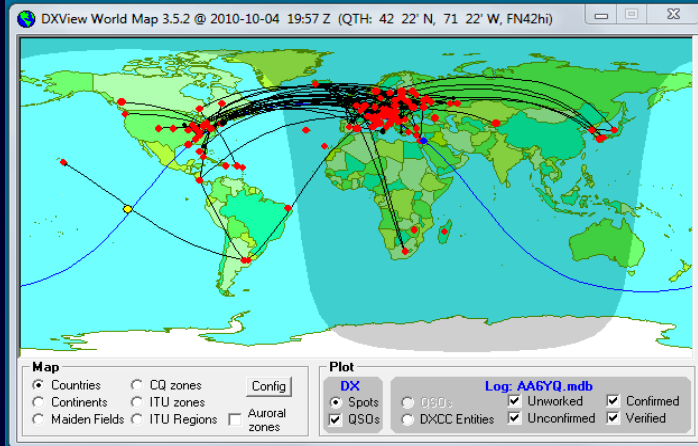
WV 10-04 1806 Z - Outgoing spot

SFI 80 History Call 14,086.2 Freq Cluster

Q: 0 A 1 2 K Notes Report Stats Config Help

Callsign	Pfx	Freq	Band	Mode	LastTime	Notes	NAE	NAM	NAW	SA	EU	AF	AS	OC	UN	LastOrig	Source	
PS7DX	PY	14,018.3	20M	CW	10/4/2010 1959	CQ 8 dB 21 WPM					Y	Y					NA-E	N4ZR-#
SQ9CNS	SP	3,541.0	80M	CW	10/4/2010 1959	CQ 16 dB 19 WPM					Y						EU	OL5Q-#
LA3TQ	LA	14,017.8	20M	CW	10/4/2010 1959	CQ 18 dB 23 WPM					Y						EU	S52X-#
IK0RCD	I	14,025.6	20M	CW	10/4/2010 1959	CQ 13 dB 18 WPM	Y	Y	Y								NA-M	K8ND-#
9A/SP9EVP	9A	7,017.0	40M	CW	10/4/2010 1959	CQ 21 dB 26 WPM					Y						EU	OL5Q-#
UA9MA	UA0	1,822.5	160M	CW	10/4/2010 1959	CQ 10 dB 25 WPM					Y						EU	EI6IZ-#

Sort: First Call Last Freq Rcv Az Filter: Band and Mode Need Call DXCC Freq Tag Band Mode Cont Origin AutoHide Audio LotW eQSL ALT SQL 1 SQL 2 SQL 3 SQL 4 SQL 5 SQL 6 SQL 7 SQL 8 Color codes: verified unneeded unconfirmed special



**WinWarbler 6.8.5** for AA6YQ @ 2010-10-04 19:59 Z [CC,DXK,DXV,SC]

**QSO Info (Receive Pane 0)**

Call ? EY7AD rst R Name Rakhim local: 2010-10-05 00:59

QSL Via DIRECT - I CQ 17 ITU 30 QTH 735700 Cont AS End Spot

Buro Grid MN30 Pri sub Sec sub

LotW IOTA Az Path S Comment

**Xcvt Freq** RX 14,086.19 TX 14,086.19

QUOTHCO DX CO DX DE SV1PAS SV1PAS PSE K

DS1PAUSSVPAS DEHPFF,PD1BPSE K...

))ITCO DX CO DX DE SV1PAS SV1PAS PSE EEUQ0ESCO DX CO DX DE SV1PAS SV1PAS PSE K

S MSQVAS UV1PAS DE PD1ANB,PD1ANB PSE K...9QRZ QRZ ORZ DE SV1PAS SV1PAS PSE K

**Commander 8.5.8** [com IC-7200] @ 19:59:42 Z 14,086.19 LSB

VFO A: 20M 9 VFO B 21,008.10

Filters: Group normal Width 0 PBT 1 50 PBT 2 50

PTT: Revving TX RX

AL-1200 Plate 7.75 Load 4 Band 20

Mode: LSB FM (wide) USB (normal) AM (wide) CW (narrow) RTTY (wide) CW-R (narrow) RTTY-R (wide)

Bandspeed Msgs Scan Memory Banks Config Help

**Commander**

Range: 1 5 10 25 50 100

14,088.5 E17BFB

14,088.0 E44AHE

14,087.5 UR7ITU

14,086.5 PF7DKW

14,085.5 LX8RTTY

14,084.5 SP9GKJ

Band: 160 80 60 40 30 20 17 15 12 10 6 4 2 7

Spotcollector Config Help

**Macros: rty sample**

F5 CQ F6 Call F7 SK log F8 ALT F9 ur rpt F10 tu log qz? F11 de mscall F12 mscall (3)

sh F5 80m sh F6 40m sh F7 30m sh F8 20m sh F9 17m sh F10 15m sh F11 12m sh F12 10m

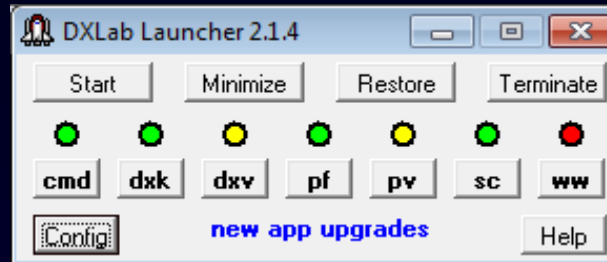
**RTTY receive (soundcard)** Freq: 14,084.065 Signal level & squelch 61

**RTTY transmit (soundcard)** Freq: 14,084.065 net

**Operating Mode** CW PSK31 Phone PSK63 RTTY PSK125

**Tuning Display** Vert height 2.0 Horiz zoom 1 Horiz pan

# Single Point of Control: DXLab Launcher



- Installation
- Upgrade
- Startup
- Shutdown

# DXing With DXLab

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  - Architecture
  - Drivers
  - Multiple Views of Active DX
- Finding the DX You Need
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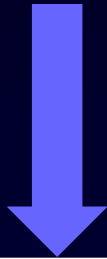
# Active DX Database

Telnet  
Clusters

Reverse  
Beacon  
Network

DX  
Summit

WSJT-X



Call	Freq	QSO	Mode	First	Last	EU	AF	SA	NA-E	NA-M	NA-W	OC	
P5DX	14.005	14.007	CW	0117Z	0341Z	Y					Y	Y	
KP1RY	21.080	21.085	RTTY	0245Z	0356Z	Y	Y	Y	Y	Y			

Active DX Database

# Multiple Views of Active DX

DX Spot Sources



Active DX Database

What DX stations are QRV ?

# Multiple Views of Active DX

DX Spot Sources



Active DX Database

Propagation  
Prediction  
(VOACAP)

Which DX stations can I likely copy ?



# Multiple Views of Active DX

DX Spot Sources

Active DX Database

Propagation  
Prediction  
(VOACAP)

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

WAS needs

WPX needs

WAZ needs

Logged  
QSOs

What QSOs and QSLs are “Needed” for the awards I’m pursuing on the bands and modes I’ve specified ?

# Multiple Views of Active DX

DX Spot Sources

Active DX Database

Propagation  
Prediction  
(VOACAP)

LotW  
Database

eQSL AG  
Database

What DX stations QSL  
via LotW and eQSL ?

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

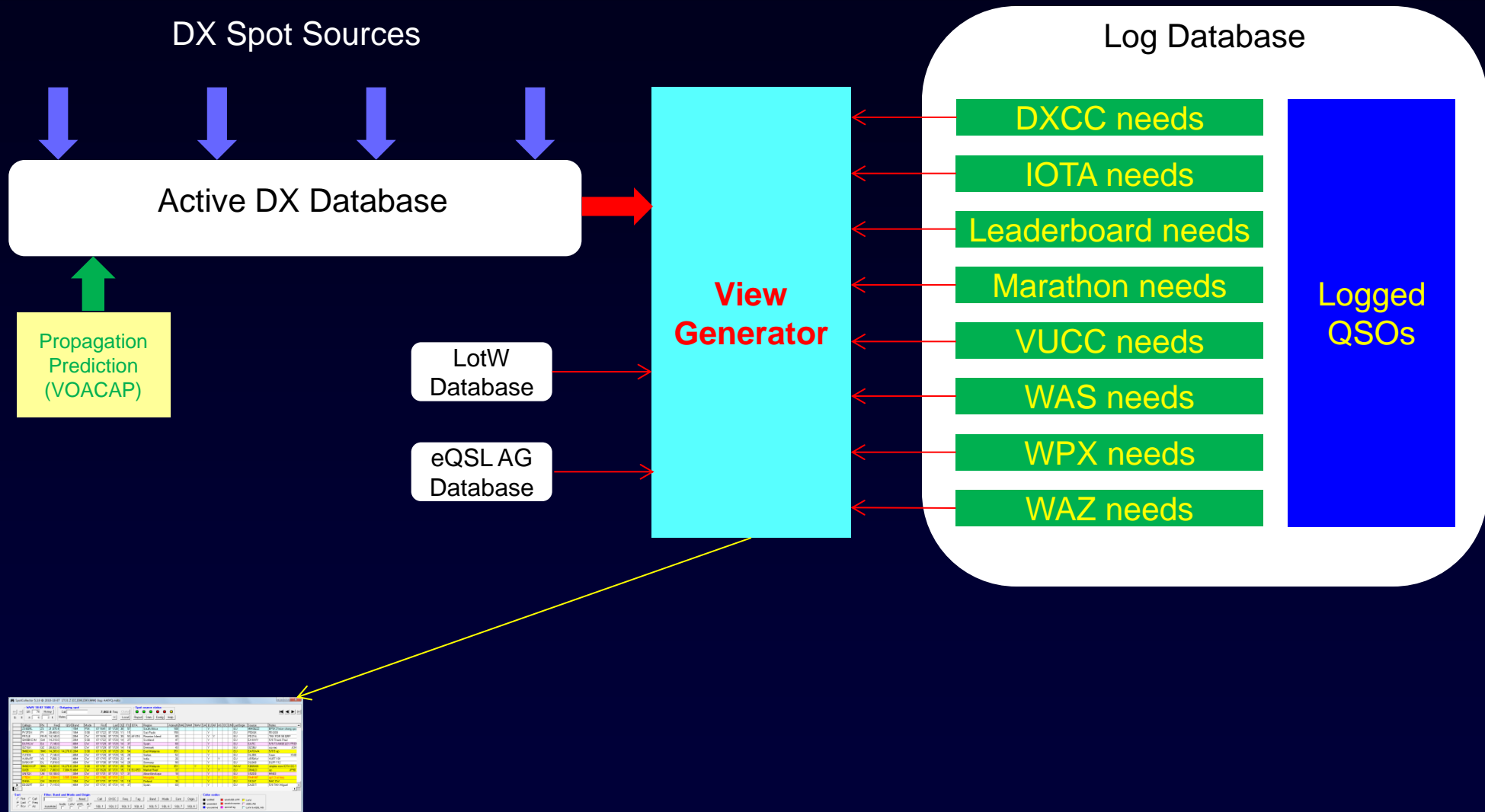
WAS needs

WPX needs

WAZ needs

Logged  
QSOs

# Tabular View of Active DX



# Tabular

# Tabular View of Active DX

## Selected Bands and Modes

SpotCollector 7.6.6 @ 2017-04-16 19:20 Z [CC,DXK,DXV,PV,WW] 8168 entries (log: AA6YQ.mdb)

WWV 04-16 1805 Z

SFI 73 History

Q: 1 A 6 1 K

Outgoing spot

Call 14.085.0 Freq Cluster

Notes X Local

Spot source status

Report Stats Prop Config Help

Need	Call	Prefix	Band	Mode	FirstTime	LastTime	Freq	QSQ	Pri	CQ	IOTA	DXGrid	ODX	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	SP SNR	SP P	LP SNR	LP P
	TA7I	TA	20M	CW	16 1919	16 1919	14,027.4			20		KM69	3830	Y								29	82	-40	1
	HB20MDC	HB	20M	SSB	16 1915	16 1919	14,216.0			14		JN47	515			Y						28	65	-62	
	HA7JIV	HA	30M	CW	16 1918	16 1919	10,138.0			15		JN97	3931	Y								13	55	-155	
	PY1TJ	PY	10M	CW	16 1914	16 1919	28,035.0		RJ	11		GG87	4137			Y						-5	23	-56	
	N2MM	K	20M	CW	16 1911	16 1919	14,028.8		NJ	5		FM29	3727	Y								14	63	-103	
	CE7VPQ	CE	10M	SSB	16 1909	16 1919	28,445.0			12		FE33	4311			Y						15	41	-61	
	5K4R	HK	20M	SSB	16 1839	16 1919	14,214.0			9		FJ15	2304	Y		Y						35	92	-66	
	KM4TVU	K	20M	SSB	16 1919	16 1919	14,316.5		GA	5		EM73	3727	Y								43	86	-88	
	D 3Y0RY	3Y-B	20M	RTTY	16 1920	16 1920	14,085.0			38	AN-002	JD14	1	Y								11	52	-50	
	KC1YL	K	20M	SSB	16 1903	16 1920	14,315.0		CT	5		FN31	319	Y			Y					27	70	-73	
	HI8/KB1KK	HI	20M	RTTY	16 1920	16 1920	14,074.0			8		FK49	3830	Y								44	100	-82	
	8Q7VB	8Q	30M	CW	16 1717	16 1920	10,107.0	10,108.0		22	AS-013	MJ64	3486	Y							Y	-5	1	-117	
	PU2KOB	PY	10M	RTTY	16 1920	16 1920	28,076.0		SP	11		GG57	1047				Y					-8	18	-63	
	V31MA	V3	15M	CW	16 1920	16 1920	21,004.1			7		EK57	2503					Y				37	91	-49	

Sort

Filter: Band and Mode and Origin

Audio Age LotW eQSL Mithn S

160 test1 W9OL Quixote Need50 SQL 29 SQL 30 160was

Color codes

verified unvrld B or M LotW  
unneeded unvrld counter eQSL AG  
unconfmd special tag LotW & eQSL AG

Font color indicates "needed" DX stations

Background color indicates LotW and eQSL participation

# Band Filter

SpotCollector Band Filter

☐ Transceiver Band Only

☒ Enable Start/End & Max Origin DX Filtering

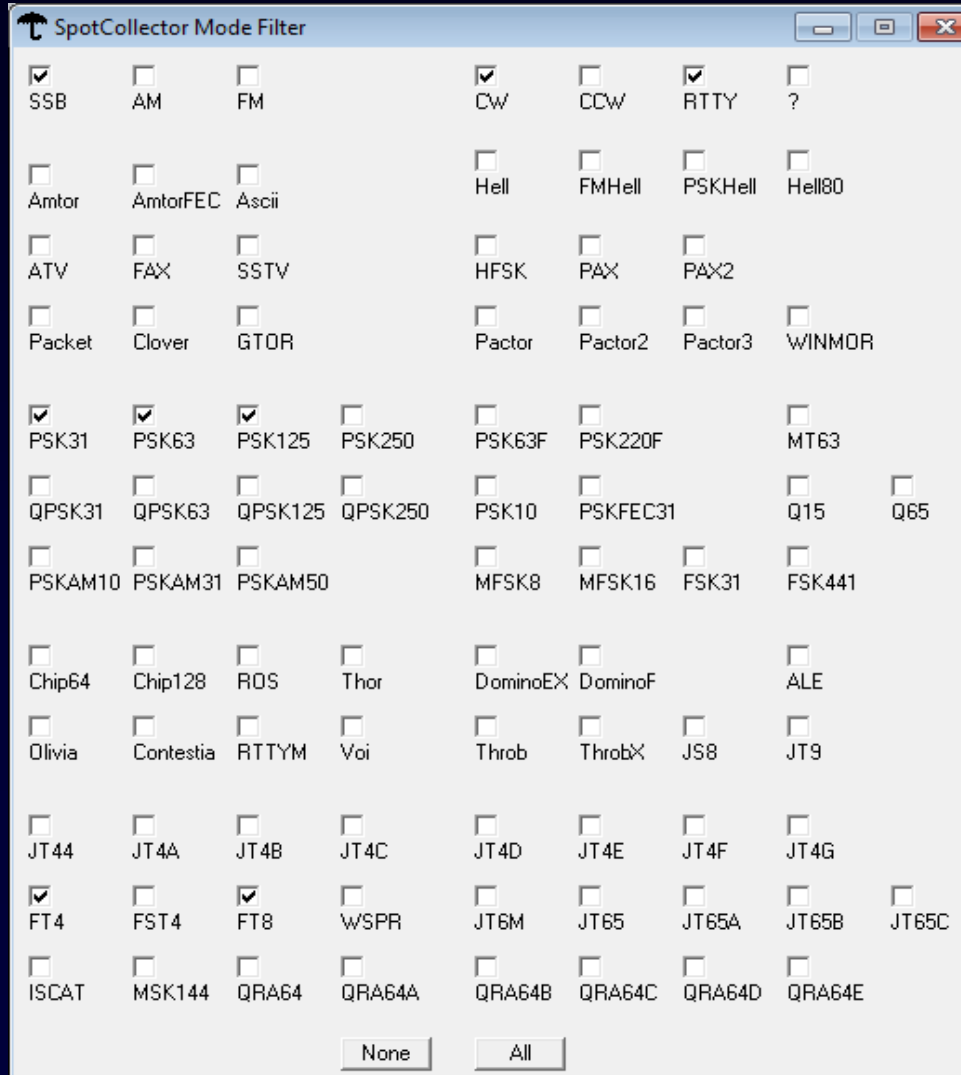
Band	Enable	Start UTC	End UTC	Max origin DX	Band	Enable	Start UTC	End UTC	Max origin DX
630m	<input type="checkbox"/>				8m	<input type="checkbox"/>			
160m	<input checked="" type="checkbox"/>	SS-30	SR+45		6m	<input checked="" type="checkbox"/>			500
80m	<input checked="" type="checkbox"/>	SS-60	SR+90		5m	<input type="checkbox"/>			
60m	<input type="checkbox"/>				4m	<input type="checkbox"/>			
40m	<input checked="" type="checkbox"/>				2m	<input type="checkbox"/>			
30m	<input checked="" type="checkbox"/>				1.25m	<input type="checkbox"/>			
20m	<input checked="" type="checkbox"/>				70cm	<input type="checkbox"/>			
17m	<input checked="" type="checkbox"/>				33cm	<input type="checkbox"/>			
15m	<input checked="" type="checkbox"/>				23cm	<input type="checkbox"/>			
12m	<input checked="" type="checkbox"/>				12cm	<input type="checkbox"/>			
10m	<input checked="" type="checkbox"/>				?	<input type="checkbox"/>			

None Top Low Tri Warc HF VHF UHF Micro All

**Sunrise & Sunset**  
Sunrise UTC 0935 Sunset UTC 2349

**Ignore**  
☐ Start & End times ☐ Max origin DX

# Mode Filter

A screenshot of the 'SpotCollector Mode Filter' window. The window has a title bar with a small umbrella icon and the text 'SpotCollector Mode Filter'. It contains a grid of checkboxes for various radio modes. The modes are arranged in rows and columns. Some checkboxes are checked, while others are unchecked. At the bottom of the window, there are two buttons: 'None' and 'All'.

<input checked="" type="checkbox"/> SSB	<input type="checkbox"/> AM	<input type="checkbox"/> FM		<input checked="" type="checkbox"/> CW	<input type="checkbox"/> CCW	<input checked="" type="checkbox"/> RTTY	<input type="checkbox"/> ?	
<input type="checkbox"/> Amtor	<input type="checkbox"/> AmtorFEC	<input type="checkbox"/> Ascii		<input type="checkbox"/> Hell	<input type="checkbox"/> FMHell	<input type="checkbox"/> PSKHell	<input type="checkbox"/> Hell80	
<input type="checkbox"/> ATV	<input type="checkbox"/> FAX	<input type="checkbox"/> SSTV		<input type="checkbox"/> HFSK	<input type="checkbox"/> PAX	<input type="checkbox"/> PAX2		
<input type="checkbox"/> Packet	<input type="checkbox"/> Clover	<input type="checkbox"/> GTOR		<input type="checkbox"/> Pactor	<input type="checkbox"/> Pactor2	<input type="checkbox"/> Pactor3	<input type="checkbox"/> WINMOR	
<input checked="" type="checkbox"/> PSK31	<input checked="" type="checkbox"/> PSK63	<input checked="" type="checkbox"/> PSK125	<input type="checkbox"/> PSK250	<input type="checkbox"/> PSK63F	<input type="checkbox"/> PSK220F		<input type="checkbox"/> MT63	
<input type="checkbox"/> QPSK31	<input type="checkbox"/> QPSK63	<input type="checkbox"/> QPSK125	<input type="checkbox"/> QPSK250	<input type="checkbox"/> PSK10	<input type="checkbox"/> PSKFEC31	<input type="checkbox"/> Q15	<input type="checkbox"/> Q65	
<input type="checkbox"/> PSKAM10	<input type="checkbox"/> PSKAM31	<input type="checkbox"/> PSKAM50		<input type="checkbox"/> MFSK8	<input type="checkbox"/> MFSK16	<input type="checkbox"/> FSK31	<input type="checkbox"/> FSK441	
<input type="checkbox"/> Chip64	<input type="checkbox"/> Chip128	<input type="checkbox"/> RDS	<input type="checkbox"/> Thor	<input type="checkbox"/> DominoEX	<input type="checkbox"/> DominoF		<input type="checkbox"/> ALE	
<input type="checkbox"/> Olivia	<input type="checkbox"/> Contestia	<input type="checkbox"/> RTTYM	<input type="checkbox"/> Voi	<input type="checkbox"/> Throb	<input type="checkbox"/> ThrobX	<input type="checkbox"/> JS8	<input type="checkbox"/> JT9	
<input type="checkbox"/> JT44	<input type="checkbox"/> JT4A	<input type="checkbox"/> JT4B	<input type="checkbox"/> JT4C	<input type="checkbox"/> JT4D	<input type="checkbox"/> JT4E	<input type="checkbox"/> JT4F	<input type="checkbox"/> JT4G	
<input checked="" type="checkbox"/> FT4	<input type="checkbox"/> FST4	<input checked="" type="checkbox"/> FT8	<input type="checkbox"/> WSPR	<input type="checkbox"/> JT6M	<input type="checkbox"/> JT65	<input type="checkbox"/> JT65A	<input type="checkbox"/> JT65B	<input type="checkbox"/> JT65C
<input type="checkbox"/> ISCAT	<input type="checkbox"/> MSK144	<input type="checkbox"/> QRA64	<input type="checkbox"/> QRA64A	<input type="checkbox"/> QRA64B	<input type="checkbox"/> QRA64C	<input type="checkbox"/> QRA64D	<input type="checkbox"/> QRA64E	

None All

# Tabular View of Active DX

## Propagation Forecasting

SpotCollector 7.6.6 @ 2017-04-16 19:20 Z [CC,DXK,DXV,PV,WW] 8168 entries (log: AA6YQ.mdb)

WWV 04-16 1805 Z

SFI 73 History

Q: 1 A 6 1 K

Outgoing spot

Call 14.085.0 Freq Cluster

Notes X Local

Spot source status

Report Stats Prop Config Help

Need	Call	Prefix	Band	Mode	FirstTime	LastTime	Freq	QSQ	Pri	CQ	IOTA	DXGrid	ODX	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	SP SNR	SP P	LP SNR	LP P
	TA7I	TA	20M	CW	16 1919	16 1919	14,027.4			20		KM69	3830	Y								29	82	-40	1
	HB20MDC	HB	20M	SSB	16 1915	16 1919	14,216.0			14		JN47	515			Y						28	65	-62	
	HA7JIV	HA	30M	CW	16 1918	16 1919	10,138.0			15		JN97	3931	Y								13	55	-155	
	PY1TJ	PY	10M	CW	16 1914	16 1919	28,035.0		RJ	11		GG87	4137			Y						-5	23	-56	
	N2MM	K	20M	CW	16 1911	16 1919	14,028.8		NJ	5		FM29	3727	Y								14	63	-103	
	CE7VPQ	CE	10M	SSB	16 1909	16 1919	28,445.0			12		FE33	4311			Y						15	41	-61	
	5K4R	HK	20M	SSB	16 1839	16 1919	14,214.0			9		FJ15	2304	Y		Y						35	92	-66	
	KM4TVU	K	20M	SSB	16 1919	16 1919	14,316.5		GA	5		EM73	3727	Y								43	86	-88	
	D 3Y0RY	3Y-B	20M	RTTY	16 1920	16 1920	14,085.0			38	AN-002	JD14	1	Y								11	52	-50	
	KC1YL	K	20M	SSB	16 1903	16 1920	14,315.0		CT	5		FN31	319	Y			Y					27	70	-73	
	HI8/KB1KK	HI	20M	RTTY	16 1920	16 1920	14,074.0			8		FK49	3830	Y								44	100	-82	
	8Q7VB	8Q	30M	CW	16 1717	16 1920	10,107.0	10,108.0		22	AS-013	MJ64	3486	Y						Y		-5	1	-117	
	PU2KOB	PY	10M	RTTY	16 1920	16 1920	28,076.0		SP	11		GG57	1047				Y					-8	18	-63	
	V31MA	V3	15M	CW	16 1920	16 1920	21,004.1			7		EK57	2503					Y				37	91	-49	

Sort

Filter: Band and Mode and Origin

Audio Age LotW eQSL Mithn S

160 test1 W9OL Quixote Need50 SQL 29 SQL 30 160was

Color codes

verified unneeded unconfmd unvrld B or M unvrld counter special tag LotW eQSL AG LotW & eQSL AG

On 80m through 10m, PropView's VOACAP engine computes

- Short path SNR and probability
- Long path SNR and probability

# Tabular View of Active DX

## Needed DX on Selected Bands and Modes

SpotCollector 7.6.6 @ 2017-04-16 19:25 Z [CC,DXK,DXV,PV,WW] 6 entries (log: AA6YQ.mdb)

WWV 04-16 1805 Z

Outgoing spot

Call: 14.085.0 Freq: Cluster: Notes: Local: Report: Stats: Prop: Config: Help

Spot source status

Need	Call	Prefix	Band	Mode	FirstTime	LastTime	Freq	QSO	Pri	CQ	IOTA	DXGrid	ODX	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	SP SNR	SP P	LP SNR	LP P	Re
D	DS5USH	HL	30M	PSK63	14 1802	14 1802	10,140.9			25		PM47	4179	Y								-6	2	-112		
D	DS4ADW	HL	30M	CW	15 1556	15 1714	10,108.0	10,109.0		25		PM47	3983	Y						Y		-7	1	-113		
D	DS4ADW	HL	30M	CW	15 1819	15 1944	10,108.0	10,109.0		25		PM47	3539	Y		Y						-5	2	-111		
S	KC3BVL	K	6M	SSB	16 1521	16 1606	50,280.0		PA	5		FN20	228				Y									
D	DS4ADW	HL	30M	RTTY	16 1613	16 1618	10,146.0			25		PM47	3444	Y								-5	3	-110		
D	3Y0RY	3Y-B	20M	RTTY	16 1920	16 1920	14,085.0			38	AN-002	JD14	1	Y								11	52	-50		

Sort: First Last Rcv Call Freq Az

Filter: Band and Mode and Origin and [Unconfirmed DXCC, Marathon, VUCC, WAS]

Audio Age LotW eQSL Mithn S C 160 test1 W9QL Quixote Need50 SQL 29 SQL 30 160was

Color codes: verified, unconfirmed, unconfirmed B or M, unconfirmed counter, special tag, LotW, eQSL AG, LotW & eQSL AG



# Tabular View of Active DX

Needed DX on Selected Bands and Modes spotted from NA-E

SpotCollector 7.6.6 @ 2017-04-16 19:26 Z [CC,DXK,DXV,PV,WW] 1 entries (log: AA6YQ.mdb)

WWV 04-16 1805 Z

Outgoing spot

Call: 14.085.0 Freq: Cluster

Spot source status

Report Stats Prop Config Help

Need	Call	Prefix	Band	Mode	FirstTime	LastTime	Freq	QSX	Pri	CQ	IOTA	DXGrid	ODX	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	SP SNR	SP P	LP SNR	LP P	Re
S	KC38VL	K	6M	SSB	16 1521	16 1606	50,280.0		PA	5		FN20	228				Y									

Sort: First Last Rcv Call Freq Az

Filter: Band and Mode and Origin and [Unconfirmed DXCC, Marathon, VUCC, WAS]

Color codes: verified, unconfirmed, unworked B or M, unworked counter, special tag, LotW, eQSL AG, LotW & eQSL AG

# Tabular View of Active DX

Needed DX on Selected Bands & Modes with SP Prob > 50%

SpotCollector 7.6.6 @ 2017-04-16 19:29 Z [CC,DXK,DXV,PV,WW] 1 entries (log: AA6YQ.mdb)

WWV 04-16 1805 Z

Outgoing spot

Spot source status

Call: 14.085.0 Freq: Cluster

Notes: X Local

Report Stats Prop Config Help

Need	Call	Prefix	Band	Mode	FirstTime	LastTime	Freq	QSO	Pri	CQ	IOTA	DXGrid	ODX	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	SP SNR	SP P	LP SNR	LP P	Re
D	3Y0RY	3Y-B	20M	RTTY	16 1920	16 1920	14,085.0			38	AN-002	JD14	1	Y								11	52	-50		

Sort: First Last Rcv Call Freq Az

Filter: SQL [Need50]

Color codes: verified, unconfirmed, unworked B or M, unworked counter, special tag, LotW, eQSL AG, LotW & eQSL AG

# Tabular View of Active DX

Entries for K1JT modes show last SNR, max SNR, min SNR

SpotCollector 8.2.3 © 2019-02-02 01:34 Z [CC,DXK,DXV,PV] 26367 entries (log: AA6YQ.mdb)

www 02-02 0005 Z

Outgoing spot

Call: 7,074.0 Freq Cluster

Spot source status

Autoscroll

Need	Cat	Call sign	Prefix	Freq	Band	Mode	FirstTime	LastTime	Network	QSQ	Pri	CQ	IOTA	DXGrid	Gr	ODX	Source	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	SNR	SNRMax	SNRMin
	2	E76C	E7	14,074.3	20M	FT8	01 1258	01 1841	WSJTX			15		JN93	S	0	AA6YQ	Y			Y					-8	14	-22
	2	IZ3VBM	I	14,074.9	20M	FT8	01 1801	01 1841	WSJTX			15		JN65	S	0	AA6YQ				Y					-10	-1	-16
	2	EA7JZL	EA	14,074.8	20M	FT8	01 1841	01 1841	WSJTX			14		IM86	S	0	AA6YQ				Y					6	6	6
	2	HK3UA	HK	14,075.1	20M	FT8	01 1841	01 1841	WSJTX			9		FJ45	S	3187	CT7AIU	Y										
	2	EA3CFV	EA	14,075.4	20M	FT8	01 1842	01 1842	WSJTX			14		IN80	S	3033	GD3YUM	Y										
	2	DK2BK	DL	14,074.4	20M	FT8	01 1834	01 1842	WSJTX			14		JN49	S	1	AA6YQ		Y		Y					-7	-7	-7
	2	JF2KOZ	JA	7,077.0	40M	JT65	01 1842	01 1842	CQDX			25		PM85	S	4729	UA3QNA-@	Y										
M	0	GD3YUM	GD	14,075.4	20M	FT8	01 1834	01 1842	WSJTX			14	EU-116	IO74	S	0	AA6YQ	Y			Y					-2	4	-7
	2	KE8ERH	K	14,075.2	20M	FT8	01 1829	01 1842	WSJTX		MI	4		EN83	S	1018	KK4RDI				Y					-6	10	-20
	2	IU2EBQ	I	14,075.2	20M	FT8	01 1703	01 1842	WSJTX			15		JN45	S	0	AA6YQ				Y					-10	-1	-10
	2	DJ5EJ	DL	14,075.4	20M	FT8	01 1841	01 1842	WSJTX			14		JN57	S	0	AA6YQ				Y							
	2	SP2IQW	SP	14,074.2	20M	FT8	01 1815	01 1842	WSJTX			15		KO02	S	6634	Z81D		Y									
	2	EA7KDR	EA	7,179.8	40M	SSB	01 1810	01 1843	K1TTT			14		IN80	S	3105	SP9MKG	Y	Y									
	2	EA8AOC	EA8	14,218.3	20M	SSB	01 1842	01 1843	EI7MRE			33	AF-004	IL27	S	730	N4WMB	Y			Y							
	2	EA5WO	EA	10,136.7	30M	FT8	01 1843	01 1843	JH1RFM			14		IN80	D	4084	9A3GNG	Y										
	2	R4CI	UA	3,575.3	80M	FT8	01 1843	01 1843	JH1RFM		SA	16		LO31	S	4463	UY5AX	Y										
	2	KX4FZ	K	14,075.1	20M	FT8	01 1843	01 1843	WSJTX		FL	5		EL87	S	0	AA6YQ				Y					-9	-9	-9
	2	SV1MO	SV	14,075.0	20M	FT8	01 1841	01 1843	WSJTX			20		KM17	S	0	AA6YQ				Y					-17	-14	-23
	2	N8AWW	K	14,075.3	20M	FT8	01 1801	01 1843	WSJTX		MI	4		EN82	S	1124	KW4IG	Y			Y							
	2	4U1WB	K	14,074.5	20M	FT8	01 1801	01 1844	WSJTX			5				901	NY0V					Y						
	2	EA3CC	EA	14,260.0	20M	SSB	01 1752	01 1844	EI7MRE			14		IN80	S	42	AB2KL	Y			Y							

Sort: First Call, Last Freq, Rcv Az

Filter: Band and Mode and Origin

Audio Age LoTW eQSL Mthn

DX 160 DX 80 DX 40 DX 30 DX 20 DX 17 DX 15 DX 6

Color codes: verified, unneeded, unconfirmed, world B or M, world counter, special tag, LotW, eQSL AG, LotW & eQSL AG

Entries last updated by reports from WSJT-X

Entries last updated by my WSJT-X copying the station

last, maximum, and minimum SNRs reported by WSJT-X

# Tabular View of Active DX

in a web browser from anywhere

SpotCollector DX Spots x

dxlab/spots

iGoogle DXLab Trusted QSL DX Status Foliage

SFI = 137, A = 4, K = 2

DX Spots @ 5/12/2013 0615Z

50096.55 USB

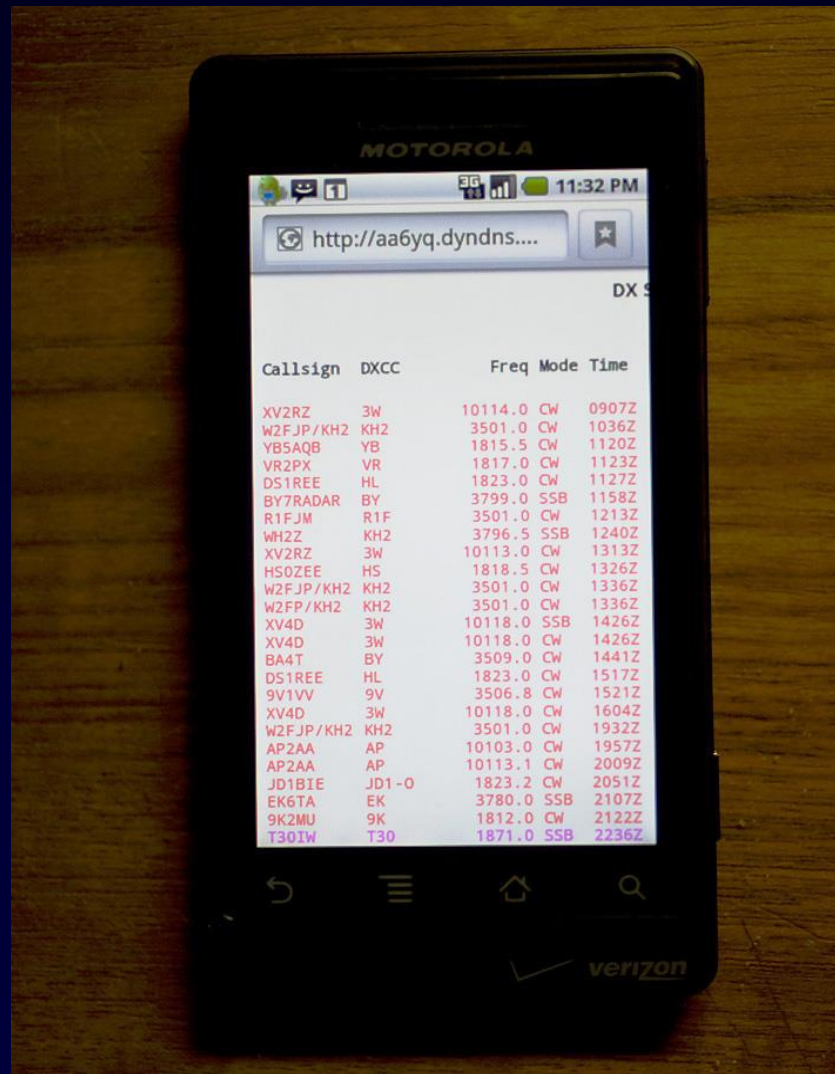
Callsign	DXCC	Freq	Mode	Source	NAE	LastTime	Notes	DXCC Entity	Network
VU7KV	VU7	28,494.0	SSB	VK3SX		05-May-13 0508Z	Tnx fb signals VK3	Lakshadweep Islands	EI7MRE
VU7KV	VU7	28,518.0	SSB	VK2DAG-@		05-May-13 0531Z	VK/ZL only	Lakshadweep Islands	CQDX
VU7KV	VU7	24,960.0	SSB	RU6L		05-May-13 0641Z	simplex	Lakshadweep Islands	VE1DX
VU7KV	VU7	24,960.0	SSB	F4FEP		05-May-13 1200Z	but bad grg grm here 970 NA	Lakshadweep Islands	EI7MRE
VU7KV	VU7	24,950.0	SSB	K5OA		05-May-13 1529Z	no copy my qth esp only	Lakshadweep Islands	VE1DX
VU7KV	VU7	24,961.6	SSB	IWOHBY	Y	05-May-13 1707Z	nw strong	Lakshadweep Islands	EI7MRE
VU7KV	VU7	24,962.0	SSB	W4QN	Y	05-May-13 1928Z	not VU7 he is QRT and on a boa	Lakshadweep Islands	VE1DX
P51X	P5	21,030.0	CW	OH6PP-@		09-May-13 0927Z	correction call	DPRK (North Korea)	CQDX
VK9NT	VK9-N	1,821.7	CW	K5UR		09-May-13 1111Z		Norfolk Is	CQDX
9M2AX	9M2	1,831.5	CW	YC1COZ		09-May-13 1154Z	cq cq	West Malaysia	VE1DX
ZD8VHF/B	ZD8	50,032.5	CW	K1TOL	Y	09-May-13 2124Z	weak, in/out>ME	Ascension Island	EI7MRE
VK9NT	VK9-N	1,807.9	CW	JK7LXU		09-May-13 2154Z	UP1 599 TNX	Norfolk Is	JH1RFM
YC1COZ	YB	1,806.5	CW	9M2AX		09-May-13 2232Z	cqng	Indonesia	EI7MRE
9M2AX	9M2	1,831.5	CW	YC1COZ		09-May-13 2255Z	cq cq	West Malaysia	EI7MRE
ZD8VHF/B	ZD8	50,032.7	CW	N3DB	Y	10-May-13 2101Z	419	Ascension Island	VE1DX
UP0L	UN	1,834.7	CW	RX9CAZ		11-May-13 2031Z	MN83	Kazakhstan	VE7CC
CX2TQ	CX	50,115.0	SSB	N3DB	Y	11-May-13 2041Z	S9	Uruguay	VE1DX
CX9AU	CX	50,110.0	CW	N3DB	Y	11-May-13 2045Z	S9 cw	Uruguay	EI7MRE
CX2TQ	CX	50,110.0	SSB	K7BV	Y	11-May-13 2048Z	55 SSB	Uruguay	EI7MRE
CX9AU	CX	50,098.0	CW	K4QI-@	Y	11-May-13 2118Z	em85<>gf15 cqng 559	Uruguay	CQDX

Filter: Band and Mode and Cont and Origin and [entity-band unworked or unconfirmed, or entity-mode unworked or unconfirmed]

X Need Call DXCC Freq Tag Band Mode Cont Orig SQL Config

# Tabular View of Active DX

in a web browser from anywhere





# Audio and Email Views of Active DX

DX Spot Sources

Active DX Database

Propagation  
Prediction  
(VOACAP)

LotW  
Database

eQSLAG  
Database

**View  
Generator**

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

WAS needs

WPX needs

WAZ needs

Logged  
QSOs



Audio/Email

# Audio and Email Views of Active DX

Creation of a new Active DX Database Entry for a needed DX station can trigger

- an audio announcement (callsign, “counter”, band, mode)
- an outgoing email message (which can initiate a text message)

# World Map View of Active DX

DX Spot Sources

Active DX Database

Propagation  
Prediction  
(VOACAP)

LotW  
Database

eQSLAG  
Database

View  
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

WAS needs

WPX needs

WAZ needs

Logged  
QSOs

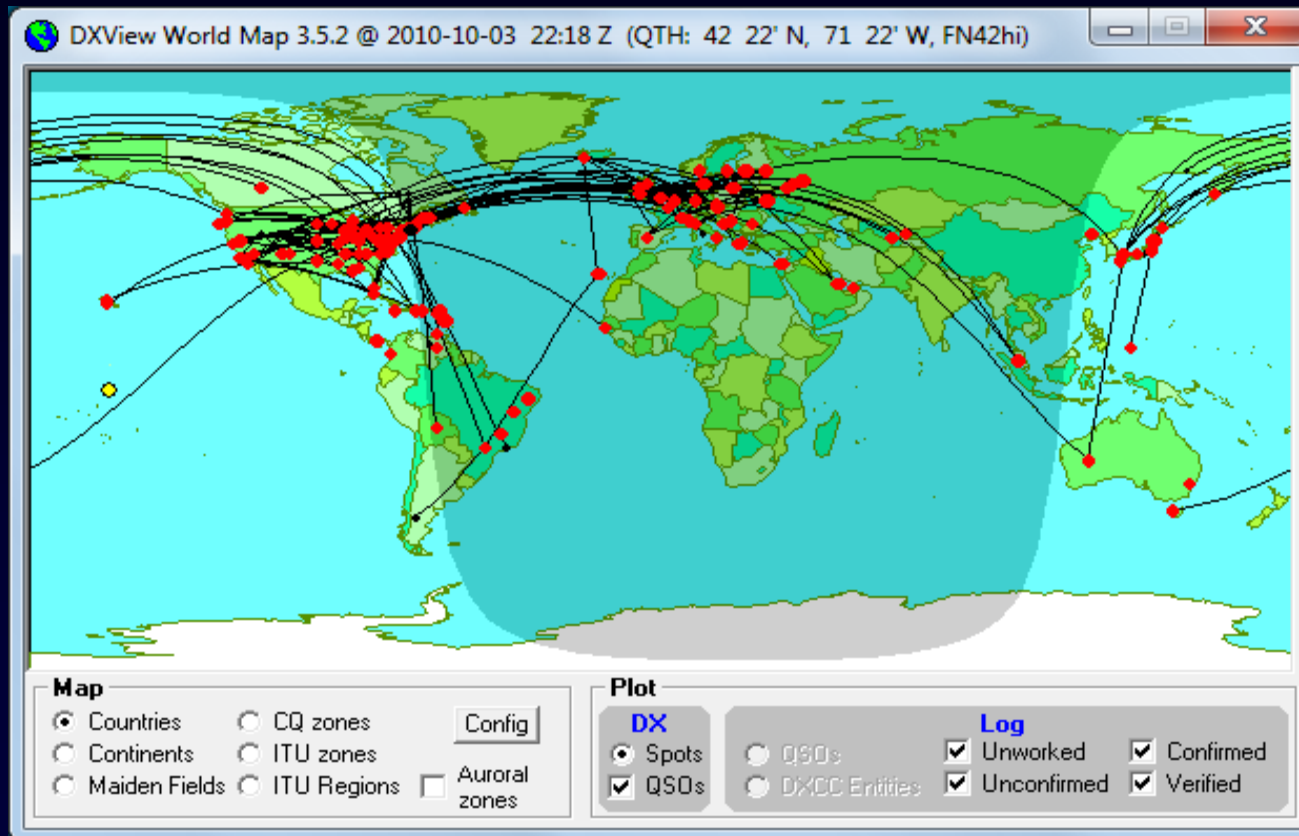


World Map



# World Map View of Active DX

“Active DX on Selected Bands”



# World Map View of Active DX

## Controlling the Map View

The screenshot shows the 'DXView Configuration' dialog box with the 'World Map' tab selected. The dialog is organized into several sections for configuring the map view.

**Selection**

- ☐ Spots
- ☒ QSOs
- Lifetime (hrs)

**Log: AA6YQ.mdb**

- ☐ QSOs
  - ☒ Unworked
  - ☒ Unconfirmed
  - ☒ Confirmed
  - ☒ Verified
- ☐ DXCC Entities

**Scan DX Bands**

<input checked="" type="checkbox"/> 160m	<input checked="" type="checkbox"/> 80m	<input type="checkbox"/> 60m	<input checked="" type="checkbox"/> 40m	<input checked="" type="checkbox"/> 30m	<input checked="" type="checkbox"/> 20m	<input checked="" type="checkbox"/> 17m	<input checked="" type="checkbox"/> 15m	<input checked="" type="checkbox"/> 12m	<input checked="" type="checkbox"/> 10m	<input checked="" type="checkbox"/> 6m	<input type="checkbox"/> 4m	<input type="checkbox"/> 2m	<input type="checkbox"/> 70cm	<input checked="" type="checkbox"/> ann	<input type="text" value="2"/> dwell
--	---	------------------------------	---	---	---	---	---	---	---	--	-----------------------------	-----------------------------	-------------------------------	---	--------------------------------------

**Band Filter**

<input checked="" type="checkbox"/> 160m	<input checked="" type="checkbox"/> 80m	<input type="checkbox"/> 60m	<input checked="" type="checkbox"/> 40m	<input checked="" type="checkbox"/> 30m	<input checked="" type="checkbox"/> 20m	<input checked="" type="checkbox"/> 17m	<input checked="" type="checkbox"/> 15m	<input checked="" type="checkbox"/> 12m	<input checked="" type="checkbox"/> 10m	<input checked="" type="checkbox"/> 6m	<input type="checkbox"/> 4m	<input type="checkbox"/> 2m	<input type="checkbox"/> 70cm	<input type="checkbox"/> ?
--	---	------------------------------	---	---	---	---	---	---	---	--	-----------------------------	-----------------------------	-------------------------------	----------------------------

☐ Xcvr band only

**Mode Filter**

<input checked="" type="checkbox"/> SSB	<input checked="" type="checkbox"/> CW	<input checked="" type="checkbox"/> RTTY	<input checked="" type="checkbox"/> AM	<input checked="" type="checkbox"/> FM	<input checked="" type="checkbox"/> ?					<input type="button" value="None"/> <input type="button" value="All"/>
<input checked="" type="checkbox"/> Amtor	<input checked="" type="checkbox"/> Ascii	<input checked="" type="checkbox"/> ATV	<input checked="" type="checkbox"/> Chip64	<input checked="" type="checkbox"/> Clover	<input checked="" type="checkbox"/> FAX	<input checked="" type="checkbox"/> FSK31	<input checked="" type="checkbox"/> FSK441	<input checked="" type="checkbox"/> GTOR		
<input checked="" type="checkbox"/> Hell	<input checked="" type="checkbox"/> HFSK	<input checked="" type="checkbox"/> JT44	<input checked="" type="checkbox"/> JT65	<input checked="" type="checkbox"/> JT9	<input checked="" type="checkbox"/> MFSK8	<input checked="" type="checkbox"/> MFSK16	<input checked="" type="checkbox"/> MT63	<input checked="" type="checkbox"/> Olivia	<input checked="" type="checkbox"/> Packet	
<input checked="" type="checkbox"/> Pactor	<input checked="" type="checkbox"/> Pactor2	<input checked="" type="checkbox"/> Pactor3	<input checked="" type="checkbox"/> PSK31	<input checked="" type="checkbox"/> PSK63	<input checked="" type="checkbox"/> PSK125	<input checked="" type="checkbox"/> Q15	<input checked="" type="checkbox"/> SSTV	<input checked="" type="checkbox"/> Throb		

**Continent Filter**

<input checked="" type="checkbox"/> NA	<input checked="" type="checkbox"/> SA	<input checked="" type="checkbox"/> EU	<input checked="" type="checkbox"/> AF	<input checked="" type="checkbox"/> AS	<input checked="" type="checkbox"/> OC	<input checked="" type="checkbox"/> AN	<input type="checkbox"/> ?	<input type="button" value="None"/> <input type="button" value="All"/>
--	--	--	--	--	--	--	----------------------------	--

**Origin Filter**

<input checked="" type="checkbox"/> NAE	<input checked="" type="checkbox"/> NAM	<input checked="" type="checkbox"/> NAW	<input checked="" type="checkbox"/> SA	<input checked="" type="checkbox"/> EU	<input checked="" type="checkbox"/> AF	<input checked="" type="checkbox"/> AS	<input checked="" type="checkbox"/> OC	<input type="checkbox"/> ?	<input type="button" value="None"/> <input type="button" value="All"/>
---	---	---	--	--	--	--	--	----------------------------	--

# World Map View of Active DX

## Controlling the Map View

**DXView Configuration**

**General** | **Plot Settings** | **Rotator Control** | **World Map** | **Overrides** | **Databases**

**Selection**

☒ Spots  
☒ QSOs  
3 Lifetime (hrs)

**Log: AA6YQ.mdb**

☐ QSOs  
☐ DXCC Entities

☒ Unworked  
☒ Unconfirmed  
☒ Confirmed  
☒ Verified

**Scan DX Bands**

☒ 160m ☒ 80m ☐ 60m ☒ 40m ☒ 30m ☒ 20m ☒ 17m ☒ 15m ☒ 12m ☒ 10m ☒ 6m ☐ 4m ☐ 2m ☐ 70cm ☒ ann ☐ 2 dwell

**Band Filter**

☒ 160m ☐ 80m ☐ 60m ☐ 40m ☐ 30m ☐ 20m ☐ 17m ☐ 15m ☐ 12m ☐ 10m ☐ 6m ☐ 4m ☐ 2m ☐ 70cm ☐ ?

☐ Xcvr band only

**Mode Filter**

☒ SSB ☒ CW ☒ RTTY ☒ AM ☒ FM ☐ ?

☒ Amtor ☒ Ascii ☒ ATV ☒ Chip64 ☒ Clover ☒ FAX ☒ FSK31 ☒ FSK441 ☒ GTOR

☒ Hell ☒ HFSK ☒ JT44 ☒ JT65 ☒ JT9 ☒ MFSK8 ☒ MFSK16 ☒ MT63 ☒ Olivia ☒ Packet

☒ Pactor ☒ Pactor2 ☒ Pactor3 ☒ PSK31 ☒ PSK63 ☒ PSK125 ☒ Q15 ☒ SSTV ☒ Throb

**Continent Filter**

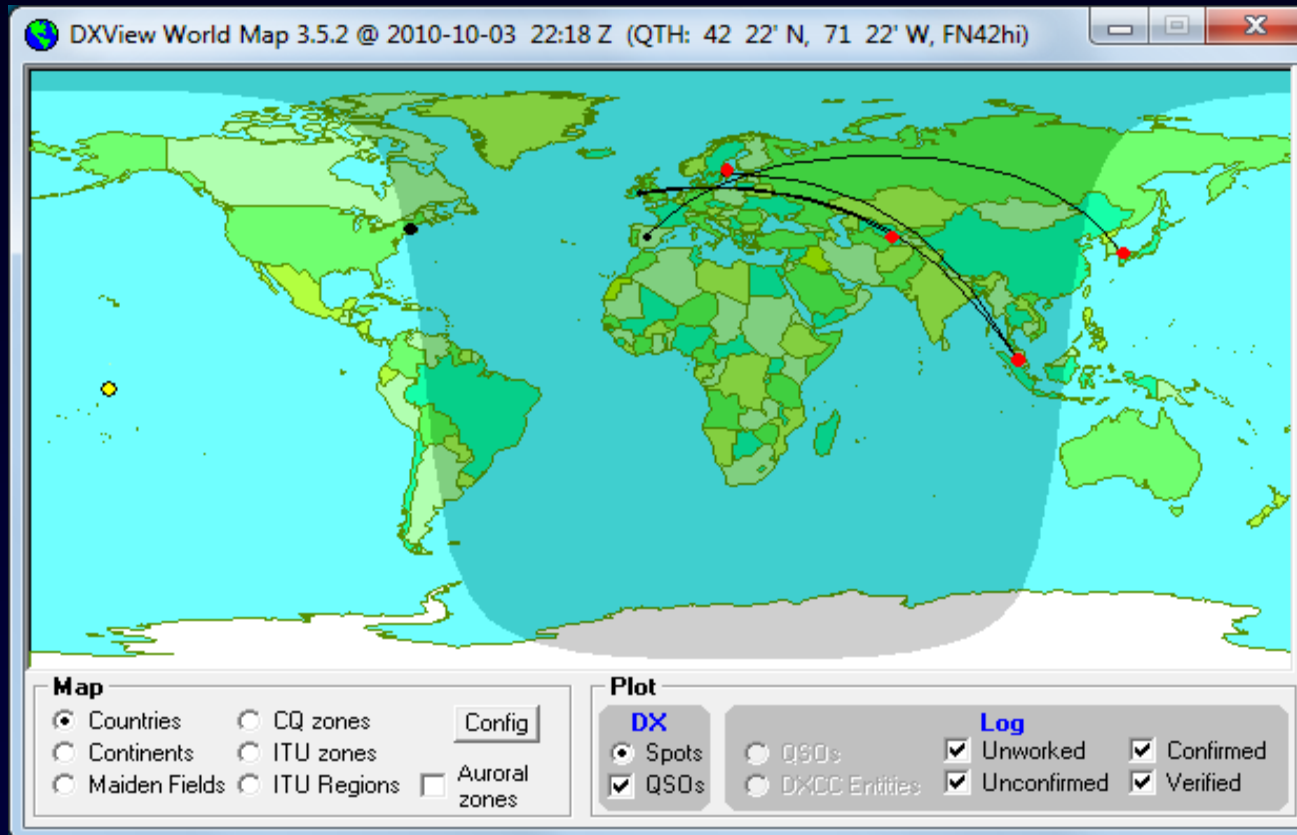
☒ NA ☒ SA ☒ EU ☒ AF ☒ AS ☒ OC ☐ ?

**Origin Filter**

☒ NAE ☒ NAM ☒ NAW ☒ SA ☒ EU ☒ AF ☒ AS ☒ OC ☐ ?

# World Map View of Active DX

“160m”

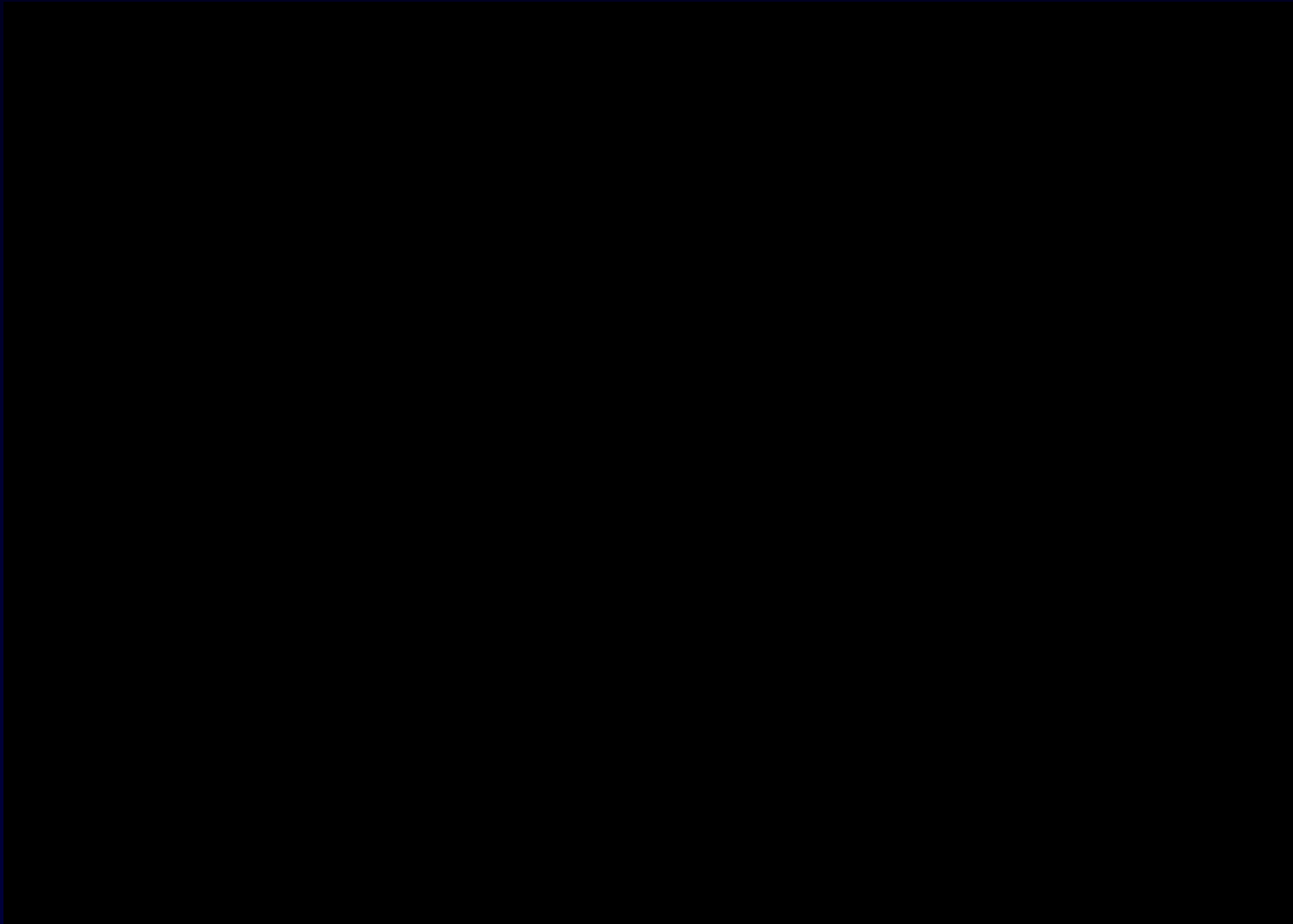


# ScanDX

61

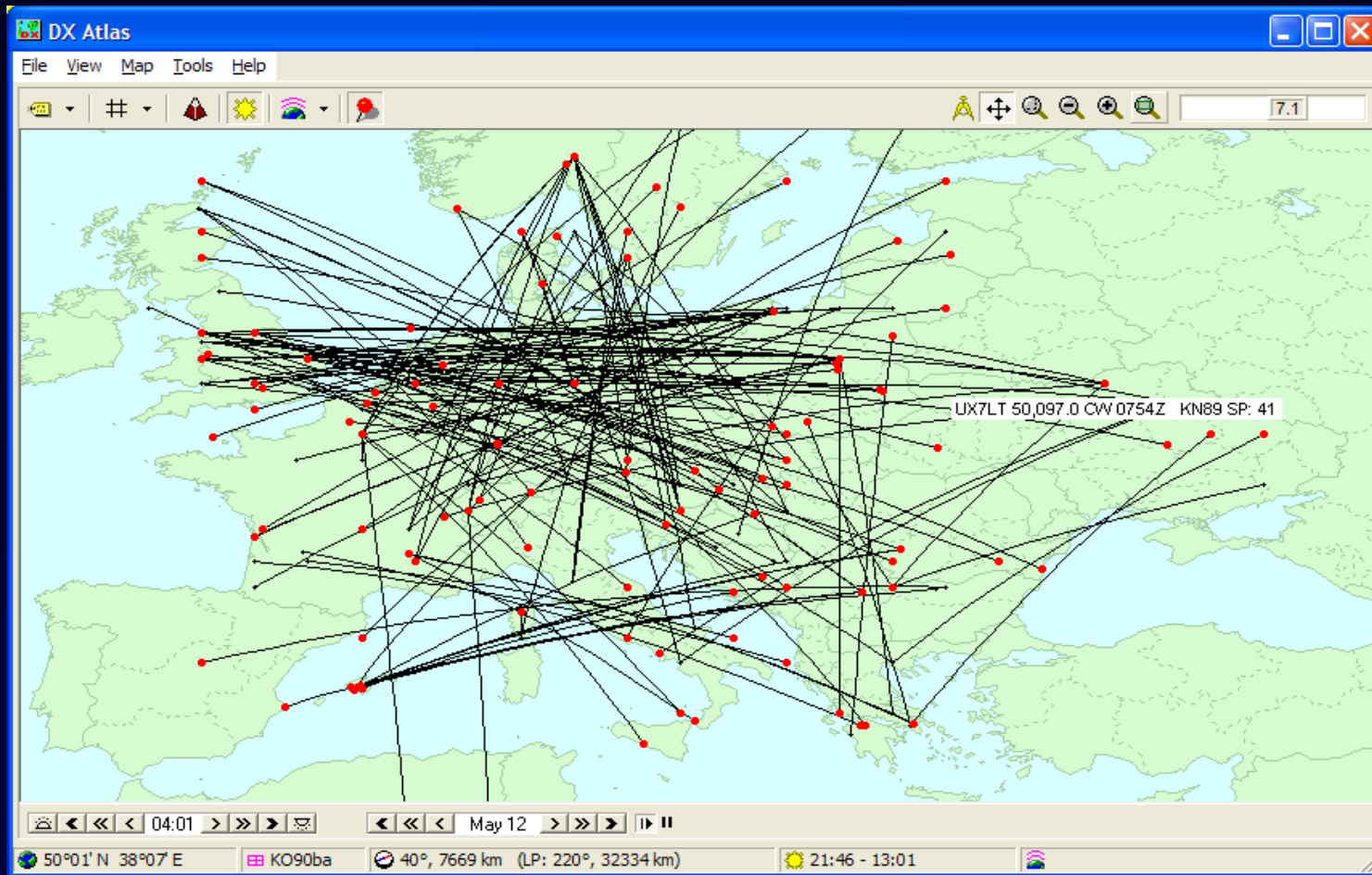
# World Map View of Active DX

ScanDX



# World Map View of Active DX

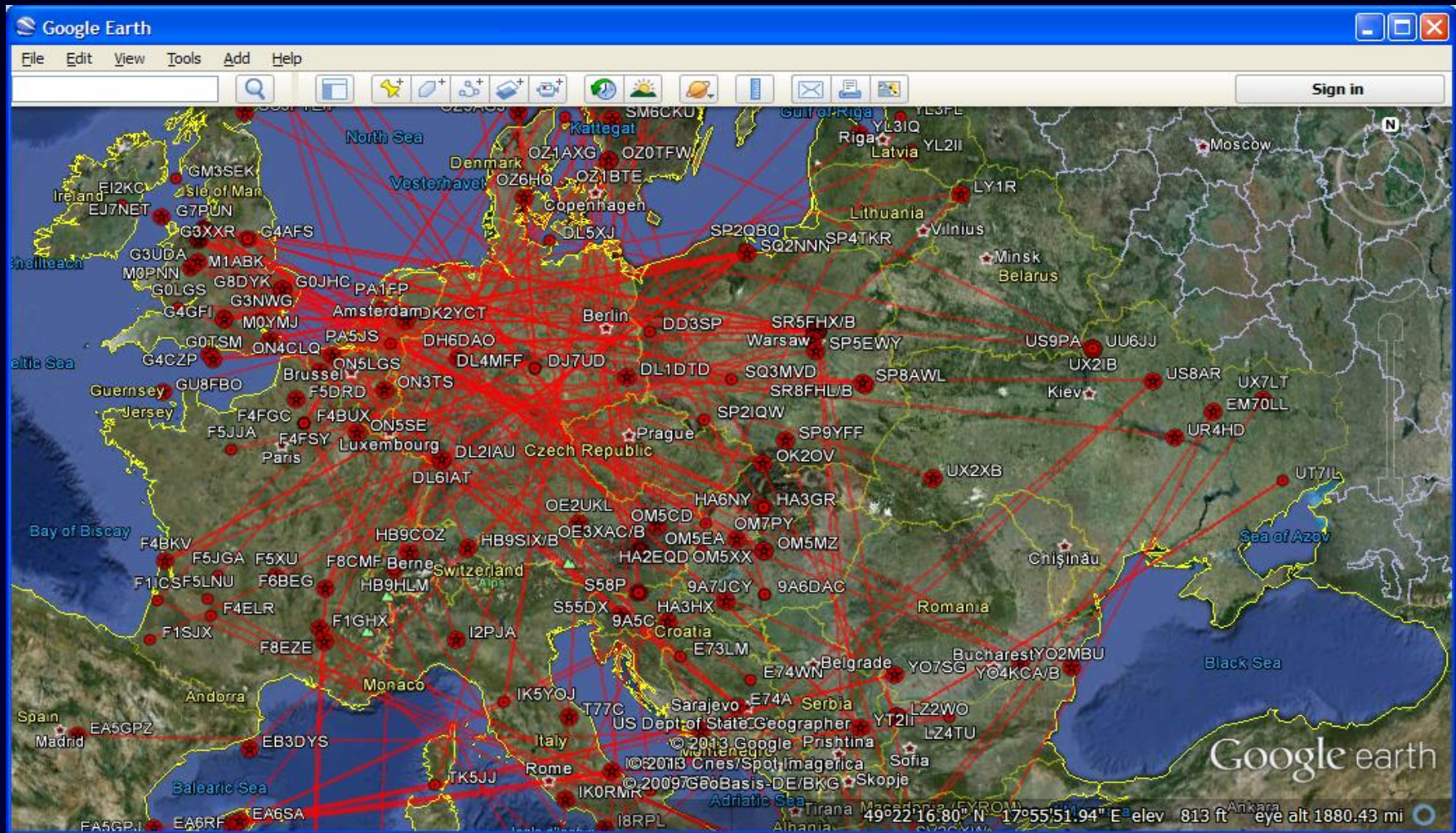
“6m” on DX Atlas





# World Map View of Active DX

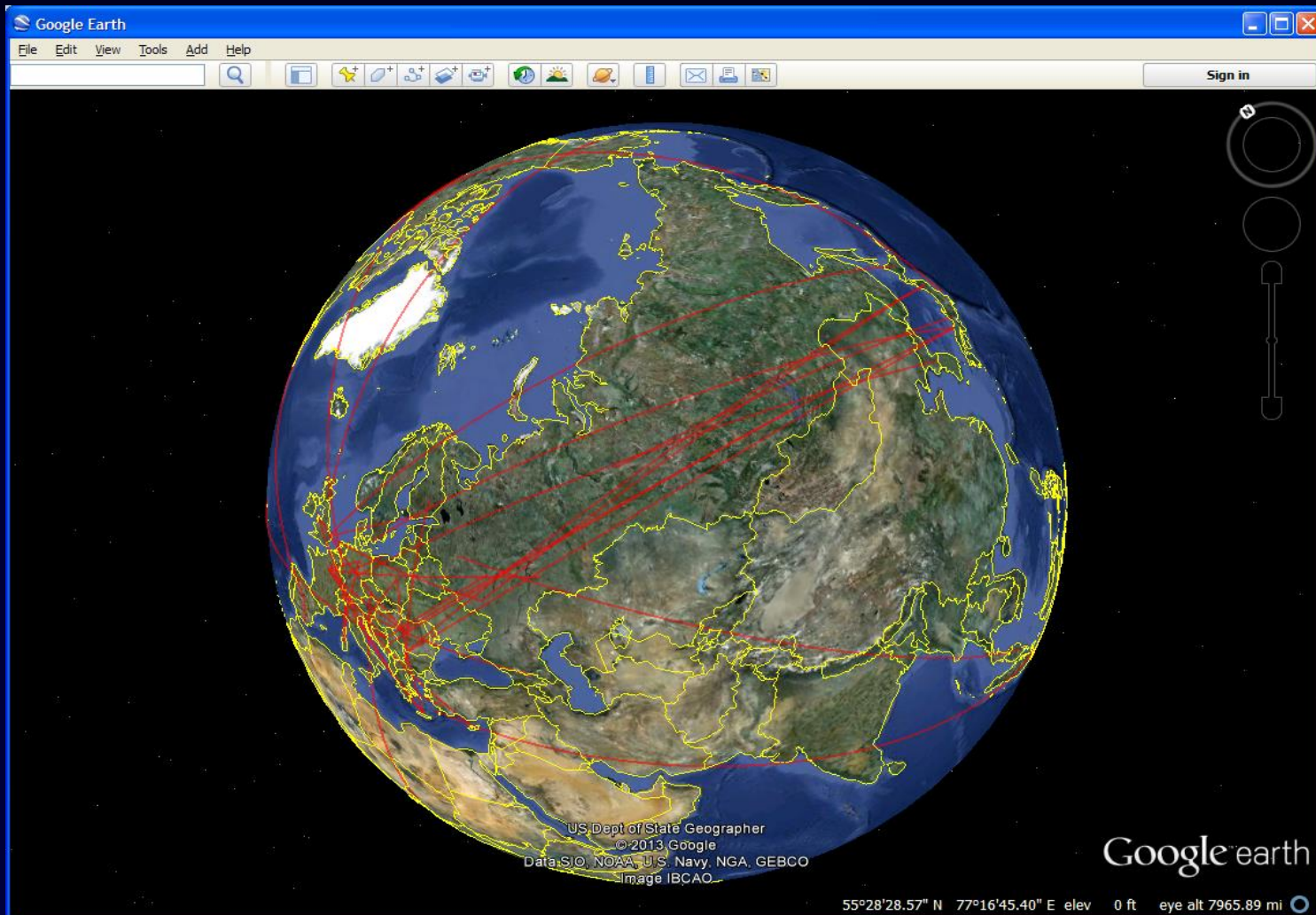
“6m” on Google Earth





# World Map View of Active DX

“12m” on Google Earth



# Bandspread View of Active DX

DX Spot Sources

Active DX Database

Propagation  
Prediction  
(VOACAP)

LotW  
Database

eQSLAG  
Database

View  
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

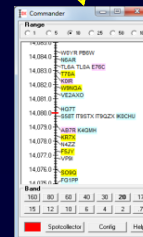
VUCC needs

WAS needs

WPX needs

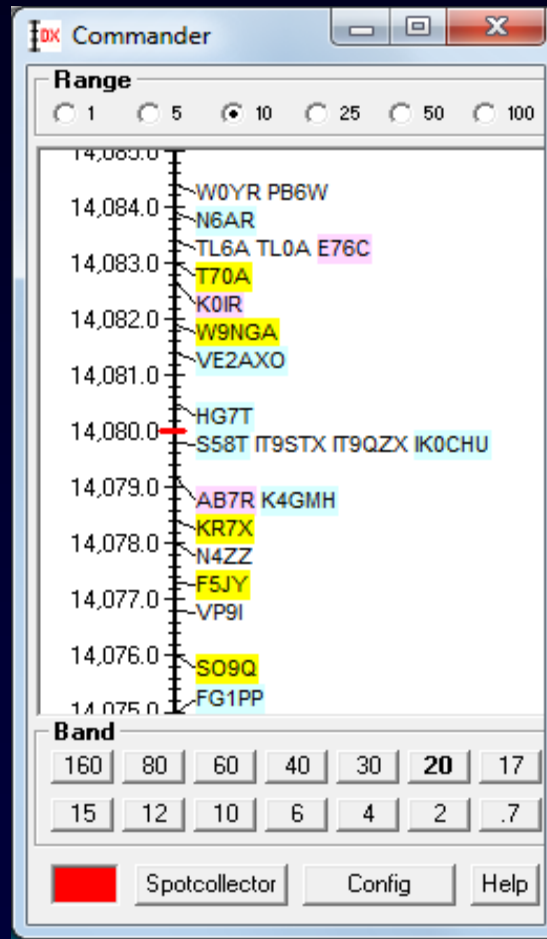
WAZ needs

Logged  
QSOs



Bandspread

# Bandspread View of Active DX



# Spectrum-Waterfall View of Active DX

DX Spot Sources

Active DX Database

Propagation  
Prediction  
(VOACAP)

LotW  
Database

eQSL AG  
Database

View  
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

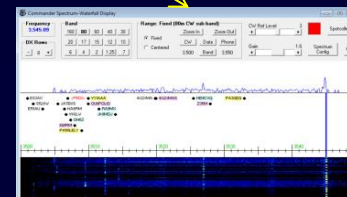
VUCC needs

WAS needs

WPX needs

WAZ needs

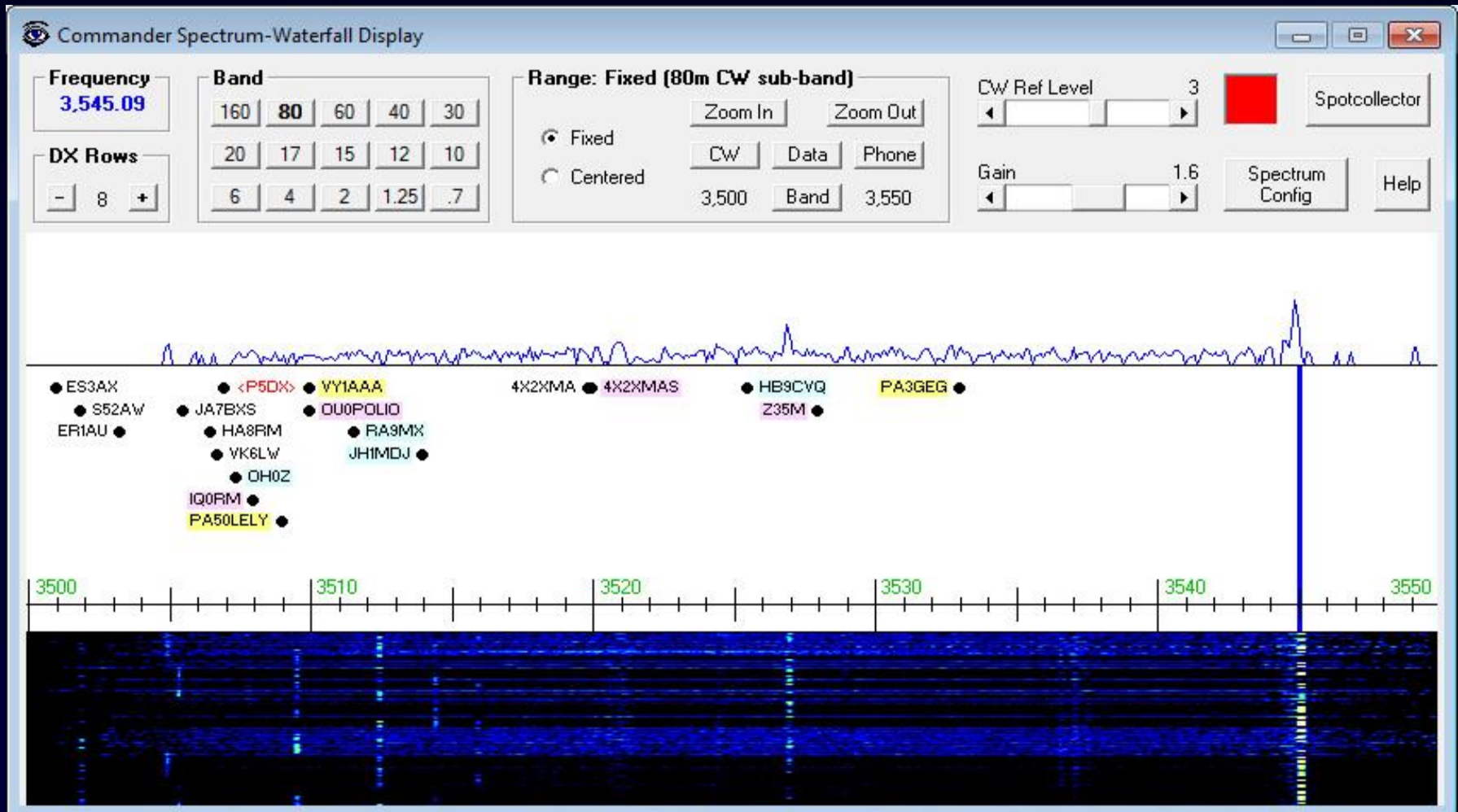
Logged  
QSOs



Spectrum

# Spectrum-Waterfall View of Active DX

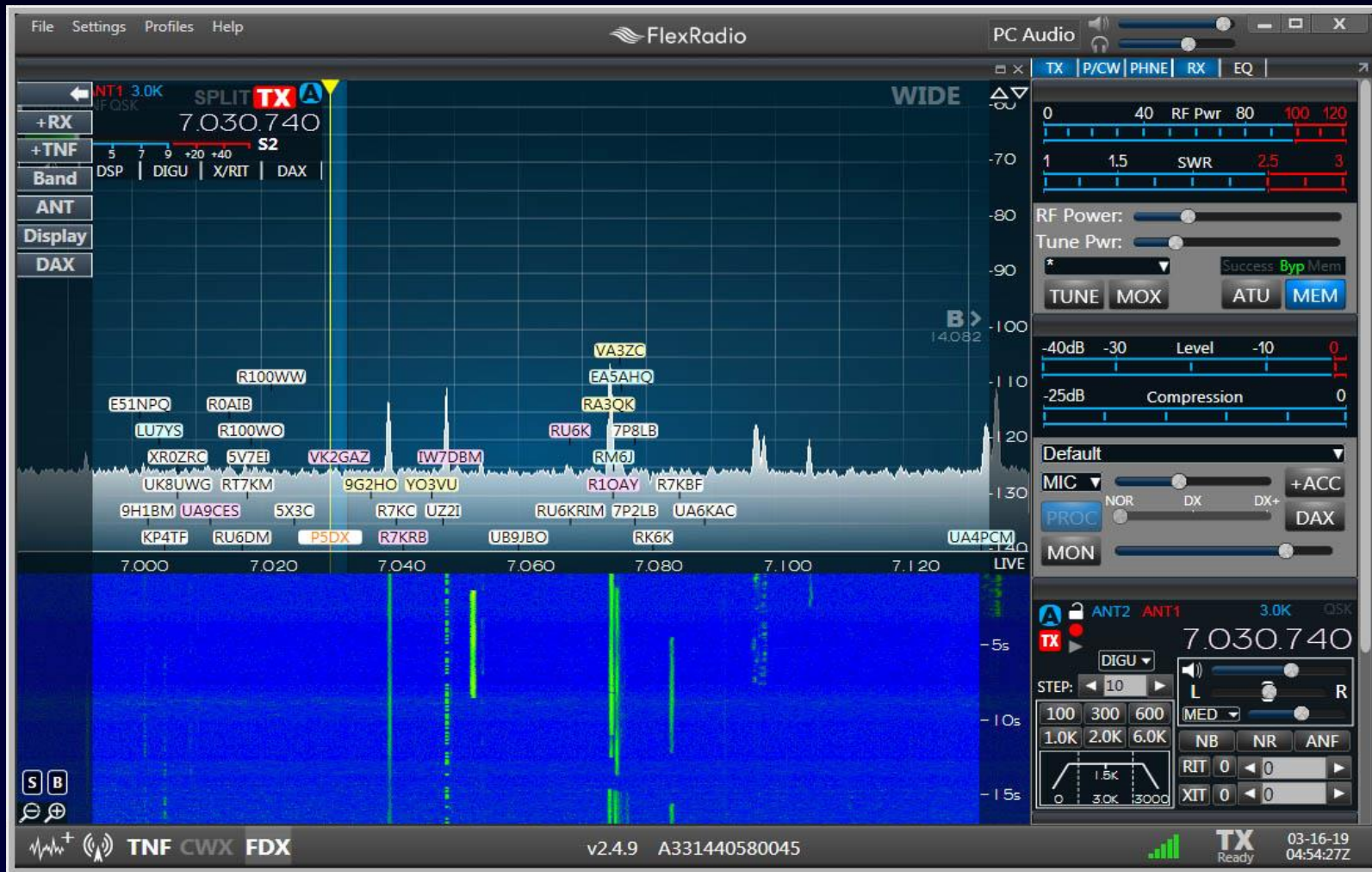
Icom 705, 7300, 7610, 7850, 7851, 9700





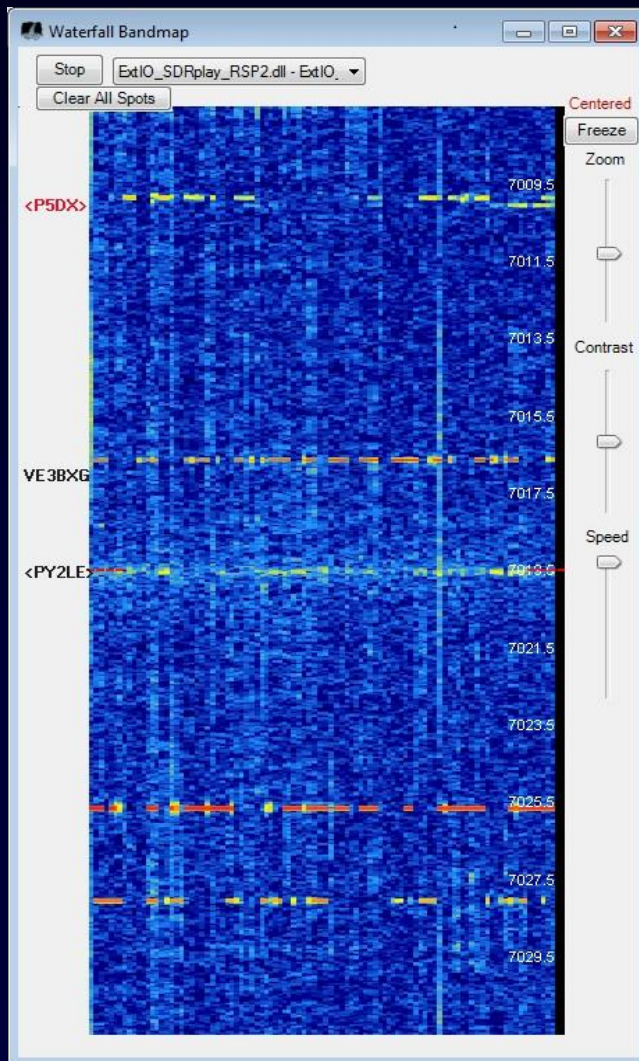
# Spectrum-Waterfall View of Active DX

## Flex Signature Radios



# Spectrum-Waterfall View of Active DX

**Just Released:** Interoperation with N2IC's Waterfall Bandmap



- Supports most SDRs
- RF or IF input

# Propagation View of Active DX

DX Spot Sources

Active DX Database

Propagation  
Prediction  
(VOACAP)

LotW  
Database

eQSLAG  
Database

**View  
Generator**

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

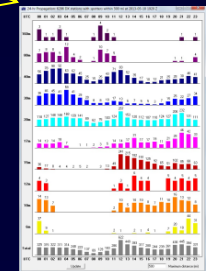
VUCC needs

WAS needs

WPX needs

WAZ needs

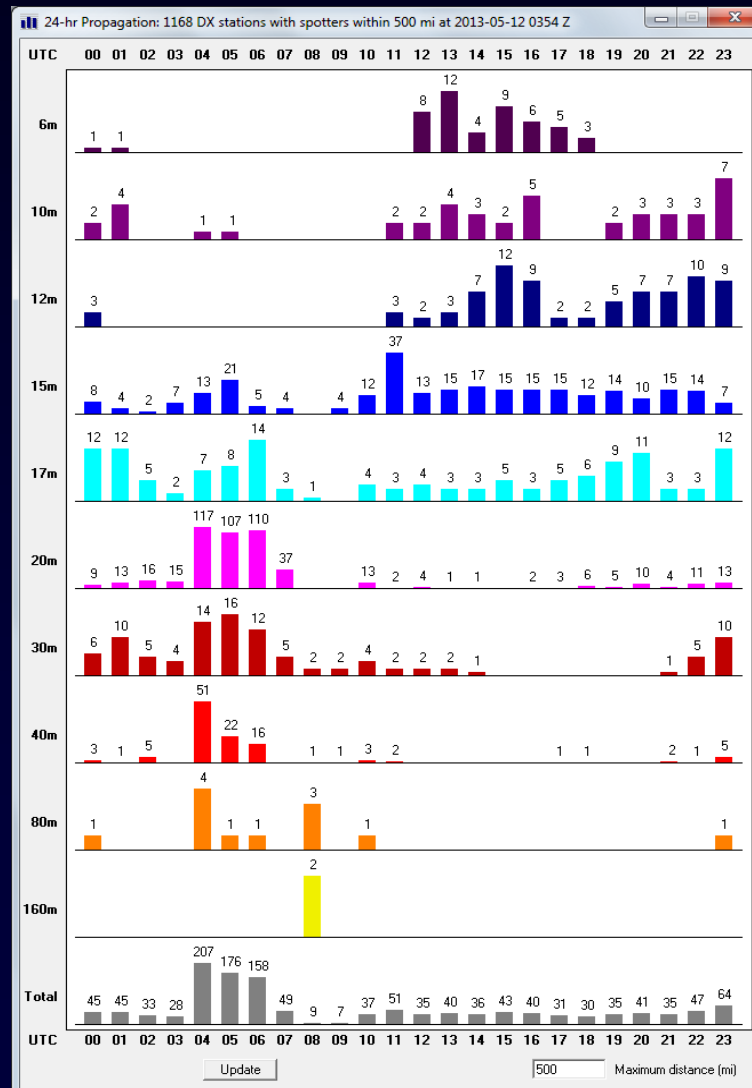
Logged  
QSOs



Propagation



# Propagation View of Active DX



# WSJT-X View of Active DX

DX Spot Sources

Active DX Database

Propagation  
Prediction  
(VOACAP)

LotW  
Database

eQSLAG  
Database

**View  
Generator**

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

VUCC needs

WAS needs

WPX needs

WAZ needs

Logged  
QSOs



# WSJT-X View of Active DX

Log Database

WSJT-X v2.0.0 by K1JT

File Configurations View Mode Decode Save Tools Help

Band Activity

UTC	dB	DT	Freq	Message
013930	-7	0.7	1877	CQ YV5ZV FK60
013930	-11	0.0	1930	CQ EA1CDV IN80
013930	0	0.2	2003	VU3WEW HK3EU R-19
013930	-22	-0.1	2072	K4ZO LY3BG KO24
013930	7	-0.7	2315	CQ CM2RSV EL83
013930	-20	0.1	2496	KR7DX W3KX FM19
013930	-10	0.4	2572	CQ N5SDR EM10
013930	12	0.2	2695	AD6FR KOGDI 73
013930	-14	0.0	2806	VU3ESV L22FF R-22
40m				
013945	-2	0.1	200	CQ NU1T FN42
013945	-11	-1.0	542	CQ HK6JCF FJ25
013945	-11	1.8	720	CQ IU8GUC JM89
013945	-5	0.2	951	CQ W1FDR FN42
013945	2	-0.8	1106	W4JPG WP4AZT RRR
013945	2	0.3	1182	CANNON VET 73
013945	-11	0.2	1319	AA9BJ WB9VG DM34
013945	-16	1.5	1395	L22FU YV5KG -15
013945	-15	-0.3	1551	M6JVV OE1MKA -20
013945	-7	0.3	1653	CQ IZ8JFA JM89
013945	-6	-0.3	1744	EA4GA AF5VR R-22
013945	-8	-0.0	1813	UN7DBA WA5VGI R-24
013945	2	0.1	1863	KC6HBB KB1EFS RRR
013945	1	0.0	2196	3B9FR NO8D EN91
013945	-4	-0.6	2272	EA5HRV CO8OB +00
013945	-21	0.1	2556	CM2RSV OK4FX JO70
013945	7	0.1	2752	UT6UZ W1DNP EM90
40m				
014000	-6	0.1	201	NU1T IK1GEY JN45
014000	8	0.4	501	VE3SSV W7YA -20
014000	-14	0.1	571	WD5JK KR7DX DM22
014000	-1	0.0	791	KALGOO N5RB -06
014000	2	-0.2	891	CO8OB EA5HRV IN99
014000	-6	-0.6	1030	KB1HNZ IZ5MKA JN53
014000	-15	-0.0	1196	N7TWS 3B9FR -02
014000	-10	0.0	1233	VU3ESV L22FF R-22
014000	-7	0.4	1395	KM4JNR L22FU -22
014000	10	0.0	1589	VE1GG WOQU 73
014000	-6	1.8	1655	W1FDR YV5AJY FK60
014000	-16	-0.5	1745	AF5VR EA4GA -10
014000	-8	0.7	1877	AB9RP YV5ZV -14
014000	-5	0.0	1930	CQ EA1CDV IN80
014000	4	0.2	2003	VU3WEW HK3EU R-19
014000	7	-0.7	2315	CQ CM2RSV EL83
014000	-6	0.4	2572	K9DN N5SDR -10
014000	-7	-0.0	2677	CQ OE6ATD JN76

Needed call signs

Rx Frequency

UTC	dB	DT	Freq	Message
013930	-22	-0.1	2072	K4ZO LY3BG KO24
014018	Tx	715	~	LY3BG AA6YQ -22

Log QSO Stop Monitor Erase Decode Encode Tx Halt Tx Tune Menus

40m 7.074 000 Tx even/1st Tx 715 Hz Hold Tx Freq Rx 715 Hz Report -22 Auto Seq Call 1st

DX Call DX Grid LY3BG KO24 Az: 42 6682 km Lookup Add

2019 Feb 01 01:40:44

Receiving IC-7800 FT8 Last Tx: LY3BG AA6YQ -22 14/15 WD:6m

# Multiple Views of Active DX

DX Spot Sources

Active DX Database

Propagation  
Prediction  
(VOACAP)

LotW  
Database

eQSLAG  
Database

View  
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

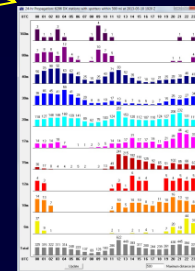
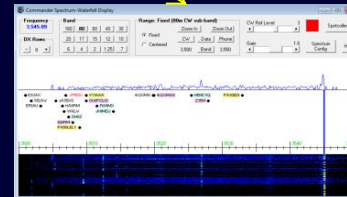
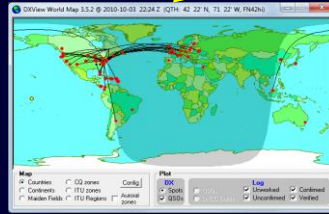
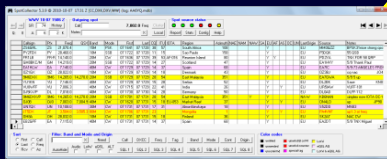
VUCC needs

WAS needs

WPX needs

WAZ needs

Logged  
QSOs



Tabular

Audio/Email

World Map

Bandspread

Spectrum

Propagation

WSJT-X

# DXing With DXLab

- Introduction to the DXLab Suite
  - Architecture
  - Development Drivers
  - Multiple Views of Active DX
- Finding the DX You Need
- Working the DX You Need

# Finding and Working Needed DX

## What is QRV that I Need?

SpotCollector 8.8.7 © 2021-05-08 2045 Z [CC,DX,PF,DXV,PI]180 entries (log: A46YQ.mdb)

VWV 05:08 1800 Z  
SFR 75 History  
Q 1 A 3 0 K

Outgoing spot  
Call: TA2EE  
7.074.0 Freq

Spot source status: pre-filtered

Need	Call	Prefix	RegCode	First	Last	Mode	Band	Freq	QX	CQ	Pr1	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	ODX	S	Min	S	Max	Last	SP	S	LP	S	LP	P
D	UK8FAV	U3	05 05 0311	0311	FT8	20M	14,074.0	17																		6	78	-26	19		
D	UK8IF	U3	05 05 0342	0343	FT8	20M	14,074.0	17																		8	81	-25	20		
D	DTBA	VP8-H	05 05 0238	0444	FT8	40M	7,076.1	13							Y	Y	Y									8	81	-71			
D	EZ2JMS	EZ	05 05 0423	0423	CW	80M	3,508.0	17																							
D	3A2DS	3A	05 05 0659	0651	FT8	15M	21,074.0	14																							
D	S21VU	S2	05 05 0655	0734	FT8	10M	28,074.0	22																							
D	B4CRA	BY	05 05 0917	0918	FT8	80M	3,573.0	24																							
D	VR2CH	VR	05 05 1014	1020	FT8	40M	7,074.0	24							Y	Y															
D	EXBAGB	EX	05 05 1044	1044	FT8	10M	28,074.0	17																							
D	3H3B	3H	05 05 1033	1041	FT8	40M	7,074.0	26																							
D	9N1CA	9N	05 05 1042	1043	FT8	10M	28,074.0	22																							
D	BA4IZ	BY	05 05 1059	1059	CW	80M	3,523.0	24																							
D	EP2LMA	EP	05 05 1100	1102	FT8	15M	21,076.0	21																							
D	DTBA	VP8-H	05 05 0850	1120	FT8	40M	7,074.0	13							Y	Y	Y	Y	Y												
D	9HBDEN	9M6	05 05 1027	1130	FT8	40M	7,074.0	28							Y	Y	Y														
Z	VK100AF	VK	05 05 1124	1125	SSB	80M	3,670.0	29																							
D	VR2CH	VR	05 05 1206	1207	FT8	20M	14,076.5	24																							
D	VR2VAZ	VR	05 05 1228	1229	FT8	20M	14,074.2	24																							
D	VR2XYL	VR	05 05 1224	1247	FT8	15M	21,075.6	24							Y																
D	XV1X	3W	05 05 1254	1306	FT8	30M	10,136.3	26																							
D	VR2HKL	VR	05 05 1323	1323	FT8	40M	7,074.0	24																							
D	EP2LMA	EP	05 05 1230	1350	FT8	15M	21,075.9	21							Y																
D	9HBDEN	9M6	05 05 1253	1405	FT8	20M	14,074.4	28																							
D	XV2A	3W	05 05 1503	1503	FT8	20M	14,074.0	26																							
Z	RASUDU	UA0	05 05 1500	1500	SSB	80M	3,630.0	18																							
Z	UB0AZL	UA0	05 05 1514	1514	SSB	80M	3,670.0	18																							
D	XV1X	3W	05 05 1641	1641	FT8	30M	10,136.2	26							Y																
D	EP2LMA	EP	05 05 1651	1652	FT8	17M	10,074.0	21																							
D	UK7AL	U3	05 05 1750	1750	FT8	17M	10,100.0	17							Y																
D	EP2HAM	EP	05 05 1750	1810	FT8	15M	21,074.0	21							Y																
D	EP2HAM	EP	05 05 1818	1819	FT8	20M	14,074.0	21																							
D	XV1X	3W	05 05 1858	1858	FT8	30M	10,136.0	26							Y																
D	KH30	KH3	05 05 2009	2010	FT8	10M	28,074.0	31																							
D	VR2VGM	VR	05 05 2218	2218	FT8	30M	10,136.0	24							Y																
D	XV1X	3W	05 05 2206	2206	FT8	30M	10,136.0	26							Y																
D	DTBA	VP8-H	05 05 2343	2343	FT8	40M	7,075.0	13							Y																
D	EXBABA	EX	05 06 0026	0106	FT8	20M	14,074.0	17																							
D	9FSNVT	ET	05 06 0236	0236	FT8	20M	14,074.0	37																							
D	EXBAGB	EX	05 06 0319	0329	FT8	10M	28,074.0	17							Y																
D	DTBA	VP8-H	05 06 0359	0423	FT8	40M	7,076.4	13							Y																
D	VR2CO	VR	05 06 0748	0748	FT8	12M	24,915.0	24																							
D	5H3AS	5W	05 06 1042	1042	CW	160M	1,821.0	32																							
D	YB9KA	YB	05 06 1139	1139	CW	160M	1,818.5	28																							
D	3A2NM	3A	05 06 1138	1140	FT8	12M	24,916.6	14							Y																
D	BQ7VR	BQ	05 06 1210	1210	CW	160M	1,825.0	22							Y																
D	YB9KA	YB	05 06 1211	1211	CW	160M	1,834.5	28																							
D	3A2NM	3A	05 06 1224	1224	FT8	30M	10,136.0	14							Y																
D	DTBA	VP8-H	05 06 1207	1208	FT8	40M	7,074.0	13																							
D	XV1X	3W	05 06 1207	1234	FT8	40M	7,074.3	26																							
D	XV2A	3W	05 06 1410	1411	FT8	20M	14,074.0	26																							
D	DTBA	VP8-H	05 06 1502	1503	FT8	17M	10,100.0	13																							
D	EP2LMA	EP	05 06 1536	1536	FT8	10M	28,074.8	21							Y																
D	DTBA	VP8-H	05 06 1752	1753	FT8	17M	10,100.0	13																							
D	EP2LMA	EP	05 06 1807	1808	FT8	15M	21,074.0	21							Y																
D	VR2CO	VR	05 06 1912	1945	FT8	30M	10,136.0	24							Y																
D	DTBA	VP8-H	05 06 2115	2115	FT8	40M	7,074.0	13																							
D	ZC4GR	ZC4	05 06 2200	2201	FT8	30M	10,136.0	20																							
D	ZC4GR	ZC4	05 06 2143	2227	FT8	40M	7,074.0	20							Y																
D	VR2XNT	VR	05 06 2212	2213	FT8	30M	10,136.0	24							Y																
D	XH0LP	XH	05 06 2316	2316	FT8	40M	7,074.0	26																							
D	9HBDEN	9M6	05 06 2305	2321	FT8	40M	7,074.0	28							Y																
Z	VK100AF	VK	05 07 0018	0019	SSB	80M	3,610.0	29																							
D	DTBA	VP8-H	05 07 0155	0226	FT8	40M	7,076.7	13																							
D	3H3B	3H	05 07 0437	0437	FT8	10M	28,074.0	16																							
D	XV1X	3W	05 07 0642	0642	FT8	20M	14,074.0	26																							
D	ZC4GR	ZC4	05 07 0753	0753	FT8	15M	21,075.7	20							Y																
D	ZC4GR	ZC4	05 07 0757	0757	FT8	12M	24,915.0	20																							
D	ZC4GR	ZC4	05 08 1917	1939	FT8	15M	21,074.0	20							Y																
D	XV1X	3W	05 08 2009	2009	FT8	30M	10,136.0	26							Y																
D	EP2LSH	EP	05 08 2016	2016	FT8	20M	14,074.0																								

# Award Tracking for ZC4GR on 15m FT8

✓ Realtime Award Tracking for ZC4GR on 15M FT8

DXCC: U K Bases on Cyprus

Mixed status	verified, sought
15M status	verified, sought
Digital status	<b>not worked, sought</b>

WAZ zone: 20

Mixed status	verified, not sought
15M status	confirmed, sought
Digital status	confirmed, not sought
15M-Digital status	confirmed, not sought

Marathon

Marathon Zone

IOTA

VUCC

15M status

WAS state

Mixed status	
15M status	
Digital status	

WPX

Leaderboard

log pathname: C:\DXLab\DXKeeper\Logs\AA6YQ.mdb

# Finding and Working Needed DX

Because I'm Pursuing all DXCC Entities in FT8!

**DXKeeper Configuration**

General Log **Awards** Reports Callbook Contest User Items Defaults

☒ Automatically recompute realtime award tracking  
☐ Deduce CQ and ITU zones from US callsigns  
☐ Include LoTW QSLs in CQ (DX, Fields), JARL, & Maidenhead Grid progress  
☐ Include eQSL.cc QSLs in DXCC, VUCC, WAS, WAC, & Maidenhead Grid progress

**DXCC Bands & Modes**

☒ 160M ☒ Phone HF  
☒ 80M ☒ CW  
☒ 40M ☒ Digital VHF  
☒ 30M  
☒ 20M **FT8**  
User-specified digital mode family  
☒ FT8  
☒ 17M  
☒ 15M  
☒ 12M  
☒ 10M  
☒ 6M  
☐ 2M ☐ QRP

☒ Hide unworked in progress rpt

**Marathon Bands & Modes**

☐ 160M ☐ Phone HF  
☐ 80M ☐ CW  
☐ 60M ☐ Digital VHF  
☐ 40M  
☐ 30M  
☐ 20M ☒ Include QSOs with no prop  
☐ 17M  
☐ 15M 1500  
Max TX power  
☐ 12M Year, Category, Score Sheet Info  
☐ 10M  
☐ 6M  
☐ 2M

☐ Realtime Award Progress

**WPX Bands & Modes**

☐ 160M ☐ SSB HF  
☐ 80M ☐ CW  
☐ 60M ☐ Digital  
☐ 40M  
☐ 30M ☐ Mixed  
☐ 20M  
☐ 17M  
☐ 15M  
☐ 12M  
☐ 10M  
☐ 6M

☐ Realtime Award Progress

**IOTA**

☐ IOTA mem4win update  
☐ Realtime Award Progress

**Other Awards**

☒ CQ, WAE, Holyland region select  
☐ DARC DOK region selection  
☐ WAE 2 point low-band QSOs  
☒ Subdivision validity checking

**WAZ Bands & Modes**

	Mixed	SSB	CW	RTTY	AM	SSB	Digital
Mixed	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
160M	<input type="checkbox"/>						
80M		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
40M		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
30M		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
20M		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17M		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
15M		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
12M		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
10M		<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
6M	<input type="checkbox"/>						

☒ 5-band WAZ  
☒ Realtime Award Progress

**DXCC Submission**

☒ Submit deleted entities  
75 Record Sheet lines/page

**Marathon Submission**

☒ Confirmed QSOs are low risk

**VUCC & WAS Submission**

☐ QSL Card  
☒ LoTW

**DXCC Credits**

☒ Credit-only QSO creation

QSL Config Help

☒ Realtime Award Progress

**VUCC Bands & Modes**

☒ 6M  
☐ 2M  
☐ 1.25M  
☐ 70 CM  
☐ 33 CM  
☐ 23 CM  
☐ 13 CM and up  
☐ Satellite

☐ Realtime Award Progress

**WAS Bands & Modes**

☒ 160M ☐ Phone HF  
☐ 80M ☐ CW  
☐ 40M ☐ RTTY VHF  
☐ 30M ☐ Digital  
☐ 20M ☐ SSTV  
☐ 17M  
☐ 15M ☐ Sat  
☐ 12M  
☐ 10M ☐ QRP  
☒ 6M  
☐ 2M ☐ Mixed (Basic)  
☐ 1.25M  
☐ 70CM

☒ Realtime Award Progress



# DXCC Award Tracking for ZC4GR

**DXKeeper Realtime Award Tracking**

DXCC IOTA Marathon VUCC WAS WAZ WPX

**Award Progress: 340 current DXCC entities [Filter: by progress]**

Prefix	Entity	Phone	CW	DIGI	FT8	160M	80M	40M	30M	20M	17M	15M	12M	10M	6M	2M
YN	V	V	V	V	W	V	V	V	V	V	V	V	V	V		
YD	V	V	V	V	C	V	V	V	V	V	V	V	V	V		
YS	V	V	V	V	C	V	V	V	V	V	V	V	V	V	V	
YU	V	V	V	V	C	V	V	V	V	V	V	V	V	V	V	
YV	V	V	V	V	C	V	V	V	V	V	V	V	V	V	V	
YV0	V	V	V	V		V	V	V	V	V	V	V	V	V		
Z2	V	V	V	V	C	V	V	V	V	V	V	V	V	V		
Z3	V	V	V	V	C	V	V	V	V	V	V	V	V	V		
Z6	V	V	V	V	C	V	V	V	V	V	V	V	V			
Z8	V	V	V	V	C	V	V	V	V	V	V	V	V	V		
ZA	V	V	V	V	C	V	V	V	V	V	V	V	V	V		
ZB2	V	V	V	V	C	V	V	V	V	V	V	V	V	V	V	
<b>ZC4</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>	<b>V</b>
ZD7	V	V	V	V	W	V	V	V	V	V	V	V	V	V		
ZD8	V	V	V	V	C	V	V	V	V	V	V	V	V	V		
ZD9	V	V	V	V		V	V	V	V	V	V	V	V	V		
ZF	V	V	V	V	C	V	V	V	V	V	V	V	V	V	V	
ZK3	V	V	V	V	C		V	V	V	V	V	V	V	V		
ZL	V	V	V	V	C	V	V	V	V	V	V	V	V	V		
ZL7	V	V	V	V		V	V	V	V	V	V	V	V	V		
ZL8	V	V	V	V		V	V	V	V	V	V	V	V	V		
ZL9	V	V	V	V			V	V	V	V	V	V	V	V		
ZP	V	V	V	V	C	V	V	V	V	V	V	V	V	V		
ZS	V	V	V	V	C	V	V	V	V	V	V	V	V	V		
ZS8	V	V	V	V				V		V		V		V		

**Key**  
W - worked  
R - requested  
Q - queued  
C - confirmed  
V - verified

**Award Progress Filter**  
Band: ANY ☒ Unworked ☒ Worked ☒ Requested ☒ Confirmed ☒ Verified  
Mode: MIXED ☐ Include deleted DXCC entities

**ZC4 (U K Bases on Cyprus) Progress Details**

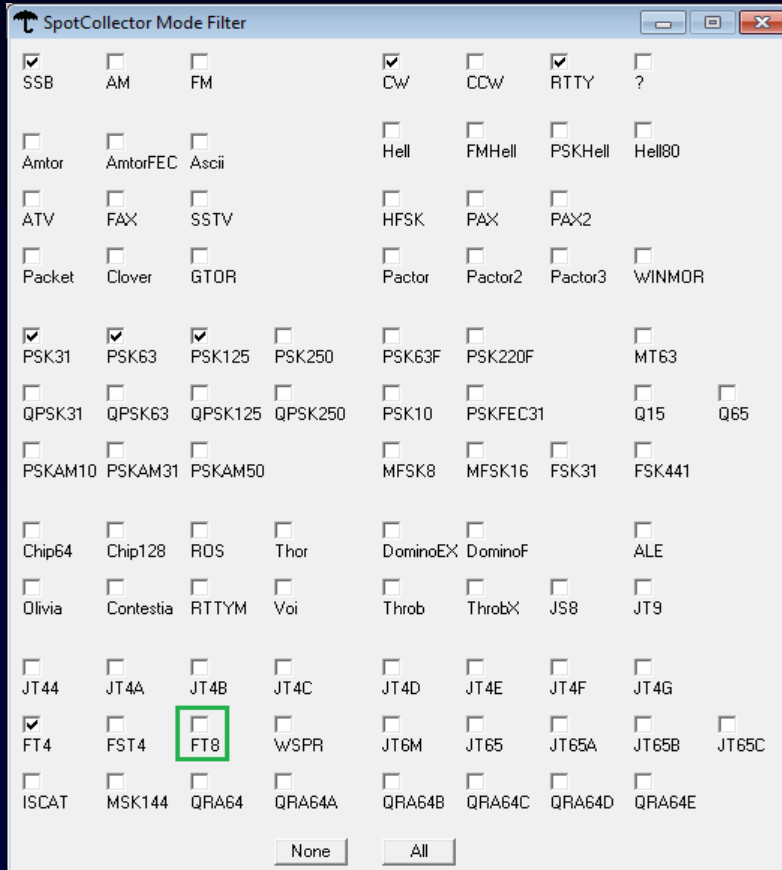
	160M	80M	40M	30M	20M	17M	15M	12M	10M	6M	2M
PHONE					V		V		C		
CW	V	V	V	V	V	V	C	V	V		
DIGI		C					V		V		
FT8											

Summary

Help  
Config

# Finding and Working Needed DX

What is QRV in other than FT8 that I Need?



SpotCollector 8.8.7 @ 2021-05-08 20:54 Z [CC,DXK,PF,DXV,PV] 10 entries (log: AA6YQ.mdb)

VVVV 05-08 1800 Z

Outgoing spot: 7,074.0 Freq Cluster

Spot source status: pre-filtered

Need	Call	Prefix	RegCode	First	Last	Mode	Band	Freq	QSQ	CQ	Pri	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	ODX
	D EZ1WS	EZ		05 05 0423	0423	CW	80M	3,508.0		17										3913
	D BA4II	BY		05 05 1059	1059	CW	80M	3,523.0		24	SD							Y		7324
	Z VK100AF	VK		05 05 1124	1125	SSB	80M	3,678.0		29									Y	10074
	Z RA9UDD	UA0		05 05 1508	1508	SSB	80M	3,630.0		18	KE							Y		5178
	Z UB0AZL	UA0		05 05 1514	1514	SSB	80M	3,670.0		18	KK							Y		5178
	D SW1SA	SW		05 06 1042	1042	CW	160M	1,821.0		32									Y	10105
	D YB9KA	YB		05 06 1139	1139	CW	160M	1,818.5		28									Y	10040
	D 8Q7VR	8Q		05 06 1210	1210	CW	160M	1,825.0		22		Y								4071
	D YB9KA	YB		05 06 1211	1211	CW	160M	1,834.5		28									Y	10040
	Z VK100AF	VK		05 07 0018	0019	SSB	80M	3,610.0		29									Y	10419

Sort: First, Last, Call, Freq, Az, Call, DXCC, Freq, Tag, Band, Mode, Cont, Origin

Filter: Band and Mode and Cont and Origin and [Unconfirmed DXCC, VUCC, WAS, WAZ]


Color codes: verified, unconfirmed, unconfirmed B or M, unconfirmed counter, unconfirmed special tag, unconfirmed, unconfirmed, unconfirmed, unconfirmed

- Stations on 160m and 80m
  - EZ1WS not valid for DXCC
  - VK1000AF is in SSB, and is only needed for WAZ
  - The rest were spotted after my 1030Z sunrise

# ZC4GR on FT8 Looks Challenging


Pathfinder 5.2.7 {Script error notifications are hidden}: results from QRZ for ZC4GR

2020 X HC **ZC4GR** Buck **QRZ** Google K2DSL 425DXN IK3QAR Config  
RAC Club Log QRZ RU HamQTH DB0SDX JJ1WTL hamdb Help

 **QRZ.COM**

18 new alerts 21:46:25 UTC 8 May 2021

by Callsign Search Database News Forums Store Swapmeet Resources Contact AA6YQ

**ZC4GR**  Cyprus SBA

**Garry Russell**  
ESBA Cyprus  
U K BASES ON CYPRUS  
Cyprus SBA  
**QSL:** QSL via EB7DX  
**Email:** [zc4gr@outlook.com](mailto:zc4gr@outlook.com)

**Ham Member** Lookups: 43262 Label

Biography Detail Logbook 14941 Log a NEW contact with ZC4GR...

Hi and thanks for looking at my QRZ page, I am currently back on operating from ESBA Cyprus locator KM65WC. My main interest is operating voice SSB and Digi modes, I mainly operate FT8, other modes I operate are SSTV, PSK31, JS8 call and WSPR. my station includes an **FT450** which is my main HF radio, my other radio for VHF UHF is an FT847, which is a lovely radio for the higher bands. and as you can imagine with this hobby I have accumulated many other radios over the years. I have now improved my antenna and PC situation. I am now operating using a Vine City **Windom antenna** from Lamco [www.hamradio-shop.co.uk](http://www.hamradio-shop.co.uk) Bands I operate on **40, 20, 30, 17, 15, 10, 12.**

# ZC4GR on FT8 Looks Challenging

## Check for Recent Activity

SpotCollector 8.8.7 @ 2021-05-08 21:27 Z [CC,DXK,PF,DXV,PV] 43 entries (log: AA6YQ.mdb)

WWV 05-08 2105 Z  
SFI 76 History  
Q: 0 A 4 0 K

Outgoing spot  
Call TA2EE 7,074.0 Freq  
Notes X Local Report Stats Prop Config Help

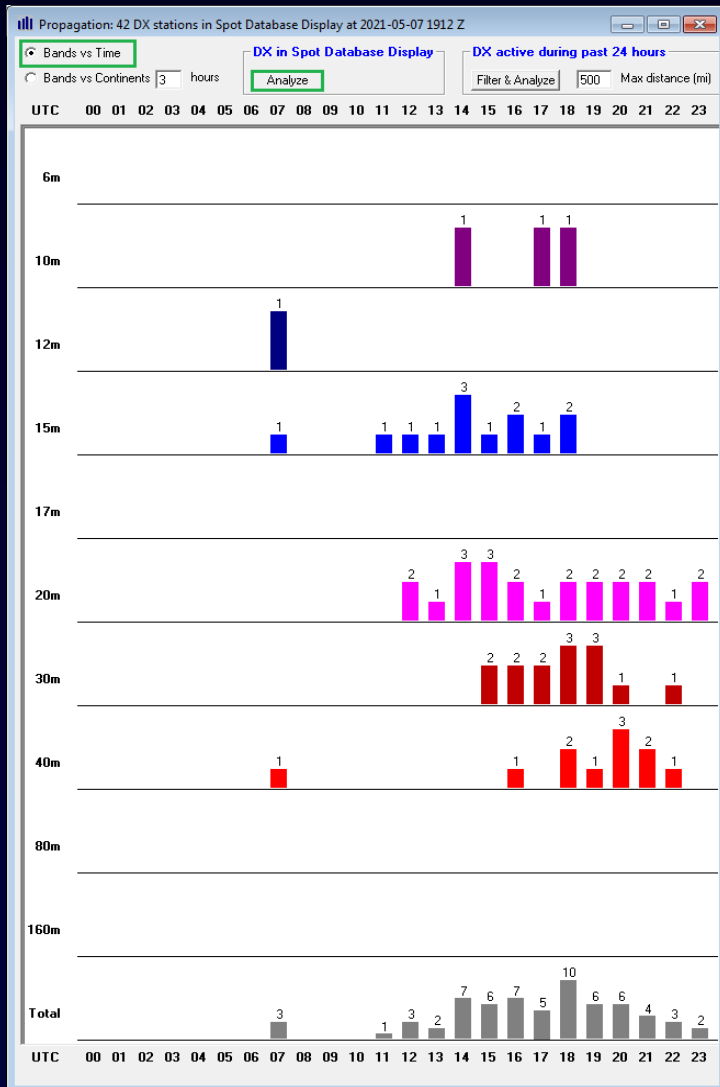
Spot source status: pre-filtered

	Need	Call	Prefix	RegCode	First	Last	Mode	Band	Freq	QX	CQ	Pr	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	ODX	S Min	S Max	S Last	SP S	SP P	LP S	LP P	▲
		D ZC4GR	ZC4		04 16 1519	1538	FT8	15M	21,076.0		20		Y								3602				-32	13	-35	11	
		D ZC4GR	ZC4		04 16 1943	1943	FT8	30M	10,137.5		20		Y								3444				5	81	-148		
		D ZC4GR	ZC4		04 18 1628	1628	FT8	15M	21,075.0		20		Y								4067				10	84	-51	2	
		D ZC4GR	ZC4		04 18 1741	1825	FT8	10M	28,075.1		20		Y		Y						4246				-46	4	-148		
		D ZC4GR	ZC4		04 18 1914	1915	FT8	30M	10,136.0		20								Y		6931				12	91	-121		
		D ZC4GR	ZC4		04 18 2031	2031	FT8	30M	10,138.5		20								Y		6905				12	91	-121		
		D ZC4GR	ZC4		04 19 1420	1421	FT8	10M	28,076.3		20		Y								4462				-135		-71		
		D ZC4GR	ZC4		04 19 1622	1638	FT8	30M	10,136.7		20		Y								4266				-6	61	-161		
		D ZC4GR	ZC4		04 19 1826	1834	FT8	30M	10,136.0		20		Y							Y	3615				0	77	-159		
		D ZC4GR	ZC4		04 19 1936	2023	FT8	40M	7,074.0		20		Y								4694				-18	11	-252		
		D ZC4GR	ZC4		04 20 1424	1425	FT8	15M	21,074.0		20		Y								4985				-25	23	-30	16	
		D ZC4GR	ZC4		04 20 1806	1806	FT8	40M	7,076.3		20		Y								3766				-31		-270		
		D ZC4GR	ZC4		04 20 1803	1911	FT8	30M	10,136.0		20		Y						Y		3127				5	81	-148		
		D ZC4GR	ZC4		04 22 1409	1409	FT8	20M	14,074.0		20		Y								3444				23	94	-60		
		D ZC4GR	ZC4		04 22 1640	1646	FT8	20M	14,074.0		20		Y								3930				25	96	-64		
		D ZC4GR	ZC4		04 22 1821	1924	FT8	20M	14,074.0		20		Y								4087				28	97	-49	1	
		D ZC4GR	ZC4		04 23 1830	1830	FT8	15M	21,074.0		20		Y								3881				-26	21	-27	19	
		D ZC4GR	ZC4		04 23 1229	2136	FT8	20M	14,074.0		20		Y			Y			Y		0	-24	-11	-13	26	96	-68		
		D ZC4GR	ZC4		04 23 2326	2331	FT8	20M	14,074.0		20		Y								4332				7	79	-41	6	
		D ZC4GR	ZC4		04 25 1239	1240	FT8	20M	14,074.0		20								Y		6770				19	92	-47	3	
		D ZC4GR	ZC4		04 25 1446	1446	FT8	20M	14,076.0		20								Y		5250				23	95	-59		
		D ZC4GR	ZC4		04 25 1533	1558	FT8	30M	10,136.0		20		Y						Y		4728				-20	5	-147		
		D ZC4GR	ZC4		04 25 1741	1818	FT8	30M	10,136.0		20		Y						Y		4266				-7	60	-179		
		D ZC4GR	ZC4		04 25 2045	2104	FT8	40M	7,074.0		20		Y								4462				-1	77	-231		
		D ZC4GR	ZC4		04 26 1531	1536	FT8	30M	10,136.0		20		Y						Y		4694				-20	5	-147		
		D ZC4GR	ZC4		04 26 1649	1708	FT8	30M	10,136.0		20		Y						Y		3459				-6	61	-161		
		D ZC4GR	ZC4		04 27 0742	0742	FT8	40M	7,075.4		20		Y								3615				-8	55	-240		
		D ZC4GR	ZC4		04 27 1654	1654	FT8	40M	7,074.0		20		Y								3569				-70		-293		
		D ZC4GR	ZC4		04 27 1803	1809	FT8	40M	7,074.0		20		Y						Y		4462				-31		-271		
		D ZC4GR	ZC4		04 27 2004	2004	FT8	40M	7,074.0		20		Y								4649				-1	76	-231		
		D ZC4GR	ZC4		04 30 2027	2342	FT8	20M	14,074.0		20		Y		Y	Y					86				29	97	-49	3	
		D ZC4GR	ZC4		05 03 1148	1225	FT8	15M	21,074.0		20		Y						Y		3104				-25	23	-121		
		D ZC4GR	ZC4		05 03 1352	1419	FT8	15M	21,075.7		20		Y								1043				-41	6	-37	9	
		D ZC4GR	ZC4		05 03 1609	1643	FT8	15M	21,075.7		20		Y								3311				-61	1	-37	9	
		D ZC4GR	ZC4		05 03 1757	1838	FT8	15M	21,074.0		20		Y								3693				-59	1	-21	29	
		D ZC4GR	ZC4		05 04 1553	1553	FT8	20M	14,085.0		20								Y		5250				26	96	-62		
		D ZC4GR	ZC4		05 04 1559	1559	FT8	20M	14,075.0		20								Y		5250				26	96	-62		
		D ZC4GR	ZC4		05 06 2200	2201	FT8	30M	10,136.0		20								Y		6839				13	88	-84		
		D ZC4GR	ZC4		05 06 2143	2227	FT8	40M	7,074.0		20		Y						Y		3700				5	86	-176		
		D ZC4GR	ZC4		05 07 0753	0753	FT8	15M	21,075.7		20		Y								4462				-143		-137		
		D ZC4GR	ZC4		05 07 0757	0757	FT8	12M	24,915.0		20								Y		6803				-119		-167		
		D ZC4GR	ZC4		05 08 1917	1939	FT8	15M	21,074.0		20		Y								3206				-2	64	-31	15	

Filter: Band and Mode and Cont and Origin and [DXCC-ZC4]  
Sort: First, Call, Last, Freq, Rev, Az  
Audio, Age, LoTW, eQSL, Mtn, S, C, DX160, DX80, DX40, DX30, DX20, DX17, DX15, DX6  
Color codes: verified, unverified, unconfirmed, unworld B or M, unworld counter, special tag, LoTW, eQSL AG, LoTW & eQSL AG

# Working ZC4GR on FT8

## Band vs. Time-of-Day Analysis of Recent Activity



### When QRV?

- 15m: 11Z to 18Z
- 20m: 12Z to 23Z
- 30m: 15Z to 20Z
- 40m: 16Z to 21Z

# Working ZC4GR on FT8

- No “Fox/Hound” frequencies
- Spotted from NA-E on 4/23 and 4/30
- Copied on 4/23

SpotCollector 8.8.7 @ 2021-05-08 21:27 Z [CC,DXK,PF,DXV,PV] 43 entries (log: AA6YQ.mdb)

WVY 05-08 2105 Z

Outgoing spot

Call TA2EE

7,074.0 Freq

Cluster

Spot source status: pre-filtered

Report

Stats

Prop

Config

Help

Closest Spotter

Spotted from Regions

Actual SNR

Need	Call	Prefix	RegCode	First	Last	Mode	Band	Freq	QSQ	CQ	Pri	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	ODX	S Min	S Max	S Last	SP S	SP P	LP S	LP P	▲
	D ZC4GR	ZC4		04 16 1519	1538	FT8	15M	21,076.0	20			Y								3602				-32	13	-35	11	
	D ZC4GR	ZC4		04 16 1943	1943	FT8	30M	10,137.5	20			Y								3444				5	81	-148		
	D ZC4GR	ZC4		04 18 1628	1628	FT8	15M	21,075.0	20			Y								4067				10	84	-51	2	
	D ZC4GR	ZC4		04 18 1741	1825	FT8	10M	28,075.1	20			Y		Y						4246				-46	4	-148		
	D ZC4GR	ZC4		04 18 1914	1915	FT8	30M	10,136.0	20									Y		6931				12	91	-121		
	D ZC4GR	ZC4		04 18 2031	2031	FT8	30M	10,138.5	20									Y		6905				12	91	-121		
	D ZC4GR	ZC4		04 19 1420	1421	FT8	10M	28,076.3	20			Y								4462				-135		-71		
	D ZC4GR	ZC4		04 19 1622	1638	FT8	30M	10,136.7	20			Y								4266				-6	61	-161		
	D ZC4GR	ZC4		04 19 1826	1834	FT8	30M	10,136.0	20			Y							Y	3615				0	77	-159		
	D ZC4GR	ZC4		04 19 1936	2023	FT8	40M	7,074.0	20			Y								4694				-18	11	-252		
	D ZC4GR	ZC4		04 20 1424	1425	FT8	15M	21,074.0	20			Y								4985				-25	23	-30	16	
	D ZC4GR	ZC4		04 20 1806	1806	FT8	40M	7,076.3	20			Y								3766				-31		-270		
	D ZC4GR	ZC4		04 20 1803	1911	FT8	30M	10,136.0	20			Y						Y		3127				5	81	-148		
	D ZC4GR	ZC4		04 22 1409	1409	FT8	20M	14,074.0	20			Y								3444				23	94	-60		
	D ZC4GR	ZC4		04 22 1640	1646	FT8	20M	14,074.0	20			Y								3930				25	96	-64		
	D ZC4GR	ZC4		04 22 1821	1924	FT8	20M	14,074.0	20			Y								4087				28	97	-49	1	
	D ZC4GR	ZC4		04 23 1830	1830	FT8	15M	21,074.0	20			Y								3881				-26	21	-27	19	
	D ZC4GR	ZC4		04 23 1229	2136	FT8	20M	14,074.0	20			Y			Y			Y		0	-24	-11	-13	26	96	-68		
	D ZC4GR	ZC4		04 23 2326	2331	FT8	20M	14,074.0	20			Y								4332				7	79	-41	6	
	D ZC4GR	ZC4		04 25 1239	1240	FT8	20M	14,074.0	20									Y		6770				19	92	-47	3	
	D ZC4GR	ZC4		04 25 1446	1446	FT8	20M	14,076.0	20									Y		5250				23	95	-59		
	D ZC4GR	ZC4		04 25 1533	1558	FT8	30M	10,136.0	20			Y						Y		4728				-20	5	-147		
	D ZC4GR	ZC4		04 25 1741	1818	FT8	30M	10,136.0	20			Y						Y		4266				-7	60	-179		
	D ZC4GR	ZC4		04 25 2045	2104	FT8	40M	7,074.0	20			Y								4462				-1	77	-231		
	D ZC4GR	ZC4		04 26 1531	1536	FT8	30M	10,136.0	20			Y						Y		4694				-20	5	-147		
	D ZC4GR	ZC4		04 26 1649	1708	FT8	30M	10,136.0	20			Y						Y		3459				-6	61	-161		
	D ZC4GR	ZC4		04 27 0742	0742	FT8	40M	7,075.4	20			Y								3615				-8	55	-240		
	D ZC4GR	ZC4		04 27 1654	1654	FT8	40M	7,074.0	20			Y								3569				-70		-293		
	D ZC4GR	ZC4		04 27 1803	1809	FT8	40M	7,074.0	20			Y						Y		4462				-31		-271		
	D ZC4GR	ZC4		04 27 2004	2004	FT8	40M	7,074.0	20			Y								4649				-1	76	-231		
	D ZC4GR	ZC4		04 30 2027	2342	FT8	20M	14,074.0	20			Y		Y	Y					86				29	97	-49	3	
	D ZC4GR	ZC4		05 03 1148	1225	FT8	15M	21,074.0	20			Y						Y		3104				-25	23	-121		
	D ZC4GR	ZC4		05 03 1352	1419	FT8	15M	21,075.7	20			Y						Y		1043				-41	6	-37	9	
	D ZC4GR	ZC4		05 03 1609	1643	FT8	15M	21,075.7	20			Y								3311				-61	1	-37	9	
	D ZC4GR	ZC4		05 03 1757	1838	FT8	15M	21,074.0	20			Y								3693				-59	1	-21	29	
	D ZC4GR	ZC4		05 04 1553	1553	FT8	20M	14,085.0	20									Y		5250				26	96	-62		
	D ZC4GR	ZC4		05 04 1559	1559	FT8	20M	14,075.0	20									Y		5250				26	96	-62		
	D ZC4GR	ZC4		05 06 2200	2201	FT8	30M	10,136.0	20									Y		6839				13	88	-84		
	D ZC4GR	ZC4		05 06 2143	2227	FT8	40M	7,074.0	20			Y						Y		3700				5	86	-176		
	D ZC4GR	ZC4		05 07 0753	0753	FT8	15M	21,075.7	20			Y								4462				-143		-137		
	D ZC4GR	ZC4		05 07 0757	0757	FT8	12M	24,915.0	20									Y		6803				-119		-167		
	D ZC4GR	ZC4		05 08 1917	1939	FT8	15M	21,074.0	20			Y								3206				-2	64	-31	15	

Filter: Band and Mode and Cont and Origin and [DXCC-ZC4]

Sort

First

Call

Last

Freq

Rcv

Az

Audio Age

LoTW eQSL Mtrn

DX160

DX80

DX40

DX30

DX20

DX17

DX15

DX6

Color codes

verified

unverified

unconfirmed

world B or M

world counter

special tag

LoTW

eQSL AG

LoTW & eQSL AG

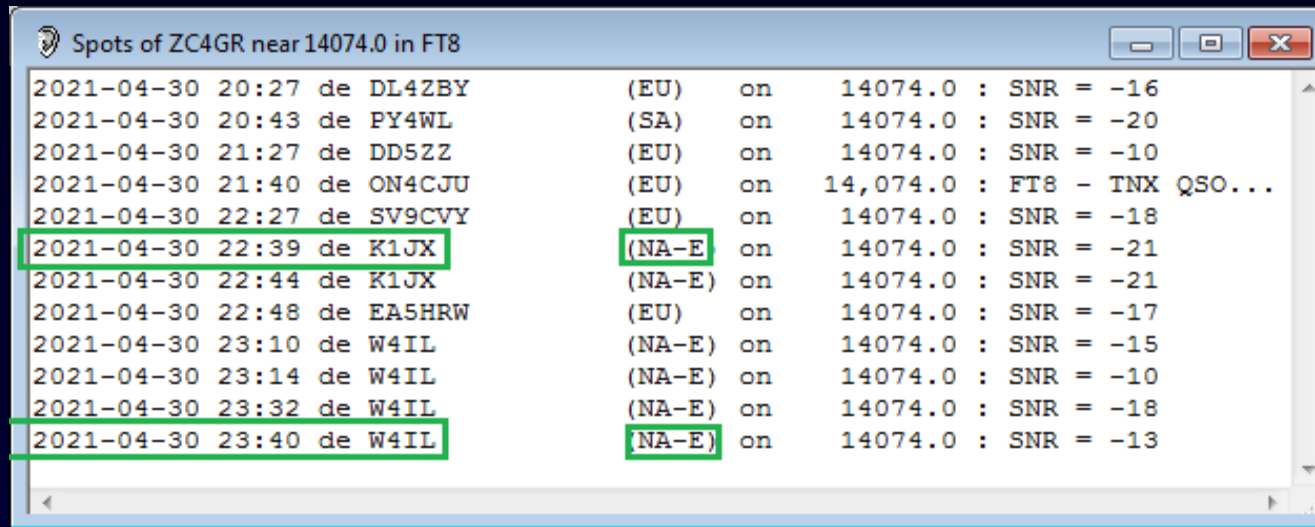
# 20m ZC4GR Spots on 4/23 @ 1229Z

Spots of ZC4GR near 14074.0 in FT8

2021-04-23 12:29	de S53EO	(EU)	on	14074.0 : SNR = -03
2021-04-23 16:37	de SV2CSR	(EU)	on	14074.0 : SNR = -10
2021-04-23 17:30	de AA6YQ	(NA-E)	on	14076.6 : CQ from KM65
2021-04-23 17:35	de AA6YQ	(NA-E)	on	14076.6 : calling EA3HYN with SNR = -05
2021-04-23 17:45	de UR5QBB	(EU)	on	14074.0 : SNR = -12
2021-04-23 17:48	de AA6YQ	(NA-E)	on	14076.6 : calling UR5QBB with RR73
2021-04-23 17:48	de AA6YQ	(NA-E)	on	14076.6 : calling MIOJZZ with SNR = -15
2021-04-23 17:49	de MIOJZZ	(EU)	on	14074.0 : SNR = -24
2021-04-23 17:49	de MIOJZZ	(EU)	on	14074.0 : SNR = -20
2021-04-23 17:50	de AA6YQ	(NA-E)	on	14076.6 : calling LB2EG with SNR = -11
2021-04-23 17:51	de AA6YQ	(NA-E)	on	14076.6 : calling DL5RMM with RR73
2021-04-23 17:56	de MIOJZZ	(EU)	on	14074.0 : SNR = -20
2021-04-23 17:59	de MIOJZZ	(EU)	on	14074.0 : SNR = -14
2021-04-23 18:01	de MIOJZZ	(EU)	on	14074.0 : SNR = -12
2021-04-23 18:04	de F6BHK	(EU)	on	14074.0 : SNR = -19
2021-04-23 18:09	de DC0KK	(EU)	on	14074.0 : SNR = -11
2021-04-23 18:09	de MIOJZZ	(EU)	on	14074.0 : SNR = -12
2021-04-23 18:13	de KK4WQ	(NA-E)	on	14074.0 : SNR = -24
2021-04-23 18:16	de AA6YQ	(NA-E)	on	14076.6 : calling OZ1BUR with RR73
2021-04-23 18:23	de AA6YQ	(NA-E)	on	14076.6 : calling EA5IZJ with SNR = -06
2021-04-23 18:27	de AA6YQ	(NA-E)	on	14076.6 : calling LA6NNA with SNR = -10
2021-04-23 18:29	de G8KVM	(EU)	on	14074.0 : SNR = -12
2021-04-23 18:30	de AA6YQ	(NA-E)	on	14076.6 : calling S56KFG with SNR = -14
2021-04-23 18:35	de AA6YQ	(NA-E)	on	14076.6 : calling DJ2VA with SNR = -01
2021-04-23 18:35	de AA6YQ	(NA-E)	on	14076.6 : calling LZ3CB with SNR = +11
2021-04-23 18:35	de LZ3CB	(EU)	on	14074.0 : SNR = +05
2021-04-23 18:36	de AA6YQ	(NA-E)	on	14076.6 : calling LZ3CB with RR73
2021-04-23 18:36	de DL3UB	(EU)	on	14074.0 : SNR = -11
2021-04-23 18:42	de G8KVM	(EU)	on	14074.0 : SNR = -15
2021-04-23 18:46	de 9A8DX	(EU)	on	14074.0 : SNR = -02
2021-04-23 19:03	de AA6YQ	(NA-E)	on	14076.6 : CQ from KM65
2021-04-23 19:04	de UR7UV	(EU)	on	14074.0 : SNR = -11
2021-04-23 19:07	de AA6YQ	(NA-E)	on	14076.6 : calling S57ESG with SNR = +07
2021-04-23 19:09	de AA6YQ	(NA-E)	on	14076.6 : calling IUSKZL with RR73
2021-04-23 19:10	de AA6YQ	(NA-E)	on	14076.6 : calling LA3PU with SNR = +01
2021-04-23 19:10	de LA3PU	(EU)	on	14074.0 : SNR = -13
2021-04-23 19:11	de AA6YQ	(NA-E)	on	14076.6 : calling LA3PU with RR73
2021-04-23 19:16	de HA2ETP	(EU)	on	14074.0 : Chunks and 73 gl!
2021-04-23 19:21	de K23BP	(EU)	on	14074.0 : SNR = -10
2021-04-23 19:23	de RG4D	(EU)	on	14074.0 : SNR = -15
2021-04-23 19:24	de G3UHU	(EU)	on	14074.0 : SNR = -23
2021-04-23 19:31	de EA3AEY	(EU)	on	14074.0 : SNR = -17
2021-04-23 19:33	de AA6YQ	(NA-E)	on	14076.6 : calling EA3AEY with SNR = -07
2021-04-23 19:36	de S6ELV	(EU)	on	14074.0 : SNR = -07
2021-04-23 19:40	de IW8ELR	(EU)	on	14074.0 : SNR = -17
2021-04-23 19:44	de SK200PMQ	(EU)	on	14074.0 : SNR = -17
2021-04-23 19:49	de SV1PMQ	(EU)	on	14074.0 : SNR = -14
2021-04-23 19:52	de SV1DZB	(EU)	on	14074.0 : SNR = -12
2021-04-23 20:12	de IZAOX	(EU)	on	14074.0 : SNR = -24
2021-04-23 20:26	de WB2SNN	(NA-E)	on	14074.0 : SNR = -22
2021-04-23 20:27	de AA6YQ	(NA-E)	on	14076.6 : calling WB2SNN with RR73
2021-04-23 20:31	de WB2SNN	(NA-E)	on	14074.0 : SNR = -22
2021-04-23 20:31	de CO2WP	(NA-E)	on	14074.0 : SNR = -24
2021-04-23 20:45	de DL1AE	(EU)	on	14074.0 : SNR = -12
2021-04-23 20:49	de DG5YCG	(EU)	on	14074.0 : SNR = -13
2021-04-23 20:56	de DF3WI	(EU)	on	14074.0 : SNR = -12
2021-04-23 20:57	de AA6YQ	(NA-E)	on	14076.6 : calling DF3WI with RR73
2021-04-23 21:01	de AA6YQ	(NA-E)	on	14076.6 : CQ from KM65
2021-04-23 21:02	de IZ2KTE	(EU)	on	14074.0 : SNR = -19
2021-04-23 21:04	de AA6YQ	(NA-E)	on	14076.6 : calling VA3QB with SNR = -15
2021-04-23 21:08	de FA1H	(EU)	on	14074.0 : SNR = -14
2021-04-23 21:10	de EA3RT	(EU)	on	14074.0 : SNR = -18
2021-04-23 21:15	de G4FFY	(EU)	on	14074.0 : SNR = -19
2021-04-23 21:28	de AA6YQ	(NA-E)	on	14076.6 : calling TA2L with SNR = +00
2021-04-23 21:29	de TA2L	(NA-E)	on	14074.0 : SNR = -19
2021-04-23 21:29	de AA6YQ	(NA-E)	on	14076.6 : calling TA2L with RR73
2021-04-23 21:36	de G7VNC	(EU)	on	14074.0 : SNR = -17

- QRV from 1229Z to 2136Z
- WSJT-X copied from 1730Z to 2129Z

# 20m ZC4GR Spots on 4/30 @ 2027Z



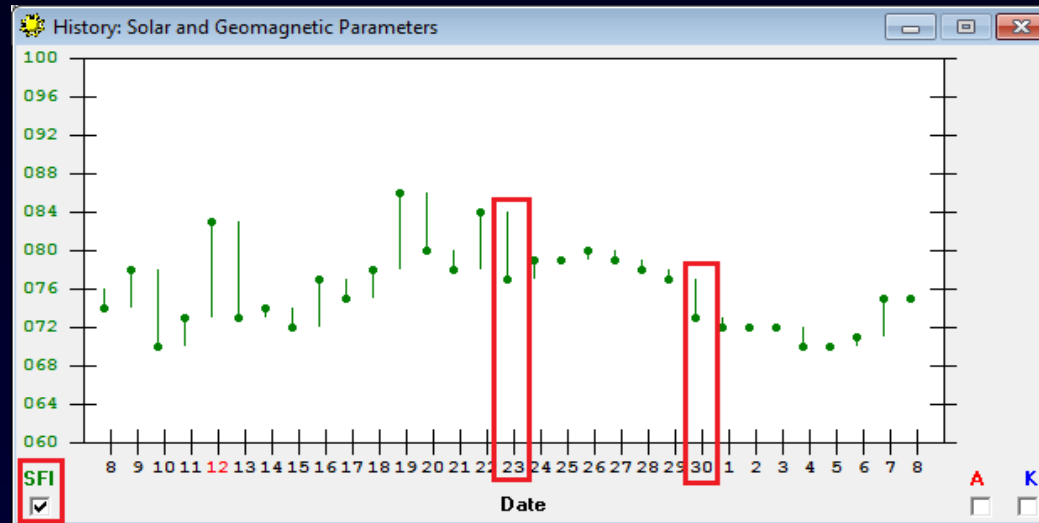
Spots of ZC4GR near 14074.0 in FT8

2021-04-30	20:27	de	DL4ZBY	(EU)	on	14074.0	:	SNR = -16
2021-04-30	20:43	de	PY4WL	(SA)	on	14074.0	:	SNR = -20
2021-04-30	21:27	de	DD5ZZ	(EU)	on	14074.0	:	SNR = -10
2021-04-30	21:40	de	ON4CJU	(EU)	on	14,074.0	:	FT8 - TNX QSO...
2021-04-30	22:27	de	SV9CVY	(EU)	on	14074.0	:	SNR = -18
2021-04-30	22:39	de	K1JX	(NA-E)	on	14074.0	:	SNR = -21
2021-04-30	22:44	de	K1JX	(NA-E)	on	14074.0	:	SNR = -21
2021-04-30	22:48	de	EA5HRW	(EU)	on	14074.0	:	SNR = -17
2021-04-30	23:10	de	W4IL	(NA-E)	on	14074.0	:	SNR = -15
2021-04-30	23:14	de	W4IL	(NA-E)	on	14074.0	:	SNR = -10
2021-04-30	23:32	de	W4IL	(NA-E)	on	14074.0	:	SNR = -18
2021-04-30	23:40	de	W4IL	(NA-E)	on	14074.0	:	SNR = -13

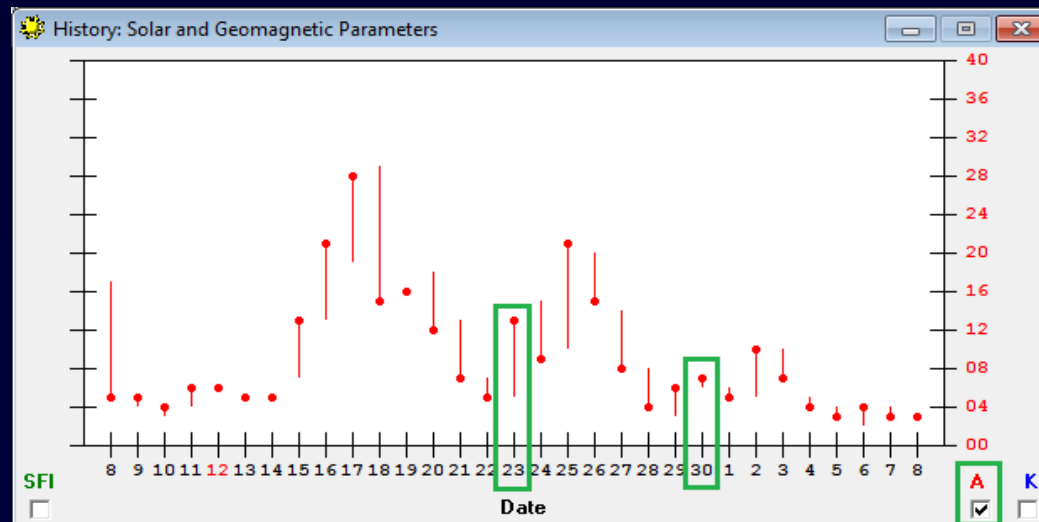


# Propagation Conditions

Solar Flux Index



Geomagnetic A Index



# Check for Gray-Line Enhancement

DXView Sunrise/Sunset @ 19:24:12 Z

DX: Cyprus (UK Military Bases) ☐ Auto update

☐ Sun rise & set ☒ Gray-Line

Latitude: 34 35' 59" N Longitude: 32 58' 58" E Starting Date: 2021-04-01 Selected Time: Date Sunset GL Start

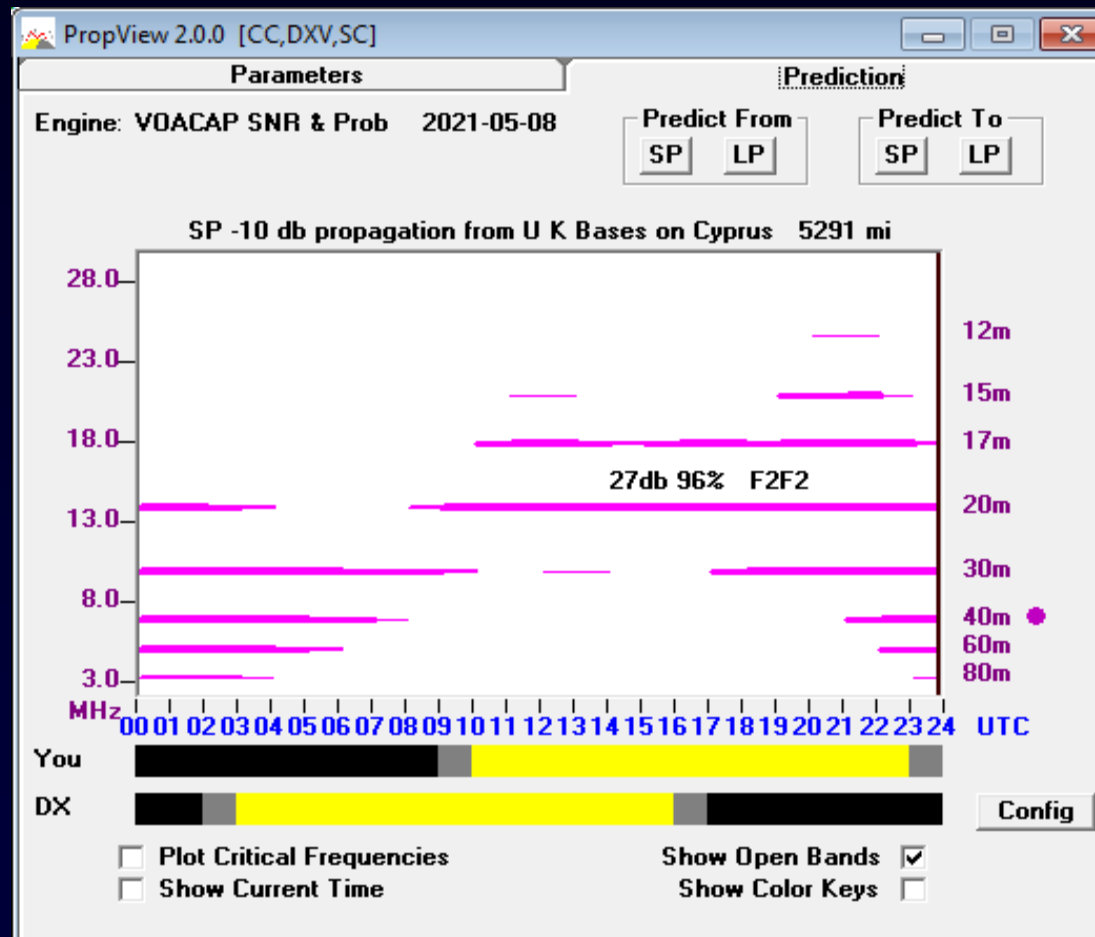
QTH-DX Gray-line (GL) Paths

Date	Sunrise GL Start	Sunrise GL End	Sunset GL Start	Sunset GL End
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None!

# 20m Propagation Forecast to ZC4

Solar Flux Index = 75, DX running 100 watts



17m, 20m, 30m, and 40m look feasible

# Check “Actual” Propagation

NCDXF 4X6TU Beacon is ~230 miles from ZC4

PropView Beacon Monitor @ 03:37:41 06-May-2021 [CC,DXV,SC]

**Monitor**

☒ Enable ☐ QSY ☐ Map ☐ Predict Config Help

**Band**

☐ 20m ☐ 17m ☐ 15m ☐ 12m ☐ 10m

**Beacons**

☐ 4S7B ☐ KH6RS ☐ VK6RBP  
☐ 4U1UN ☐ LU4AA ☐ VR2B  
☒ 4X6TU ☐ OA4B ☐ W6W/X  
☐ 5Z4B ☐ OH2B ☐ YV5B  
☐ CS3B ☐ RR9D ☐ ZL6B  
☐ JA2IGY ☐ VE8AT ☐ ZS6DN

**Octant**

☐ 315 ☐ 0  
☐ 270 ☐ 45  
☐ 225 ☐ 90  
☐ 180 ☐ 135  
☐ Rotate

**Transceiver**

Offset (Hz)

**Beacon Schedule (1 cycle)**

Time	Call	City	DXCC Country	Freq (khz)	SP	Dist (mi)
0						
10						
20	4X6TU	Tel Aviv	Israel	14100	55	5486
30	4X6TU	Tel Aviv	Israel	18110	55	5486
40	4X6TU	Tel Aviv	Israel	21150	55	5486
50	4X6TU	Tel Aviv	Israel	24930	55	5486
60	4X6TU	Tel Aviv	Israel	28200	55	5486
70						
80						
90						
100						
110						
120						
130						
140						
150						
160						
170						

# Check “Actual” Propagation

Who Near Me has been Spotting Stations Near ZC4?

Define a “near ZC4” filter to show stations

- In ZC4, 5B4, TA, OD, 4X, SU
- spotted by stations less than 500 miles from my QTH



nr ZC4

`(DXCCPrefix in ('ZC4','5B4','TA','OD','4X','SU')) and (DDX<500)`

# Propagation from “Near Me” to “Near ZC4”

Stations in ZC4, 5B4, TA, OD, 4X, SU  
spotted by stations within 500 miles of my QTH

SpotCollector 8.8.7 @ 2021-05-08 18:57 Z [CC,DXK,PF,DXV,PV] 38 entries (log: AA6YQ.mdb)

WWW 05-07 0605 Z Outgoing spot Call TA2EE 7,074.0 Freq Cluster Spot source status: pre-filtered

Q: 0 A 4 T K Notes X Local Report State Prop Config Help

Closest Spotter

Spotted from Regions Actual SNR

	Need	Call	Prefix	RegCode	First	Last	Mode	Band	Freq	QSQ	CQ	Pri	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	ODX	S Min	S Max	S Last	SP S	SP P	LP S	LP P
		D ZC4GR	ZC4		04 23 1229	2136	FT8	20M	14,074.0		20		Y			Y			Y		0	-24	-11	-13	26	96	-68	
		D ZC4GR	ZC4		04 30 2027	2342	FT8	20M	14,074.0		20		Y		Y	Y					86				29	97	-49	3
		D YM8DAG	TA		05 04 2226	2226	FT4	6M	50,318.0		20					Y					188							
		TA6B	TA		05 04 2230	2230	FT8	20M	14,075.3		20					Y					319				24	95	-30	15
		4X5VA	4X		05 04 2238	2238	FT8	20M	14,076.4		20					Y					319				29	97	-30	16
		TC568FA	TA		05 04 1329	2241	SSB	20M	14,257.0		20		Y		Y	Y	Y		Y		40				27	63	-53	
		TA7I	TA		05 04 2125	2255	CW	20M	14,004.0		20		Y			Y	Y	Y			35				23	74	-37	1
		TA2LG	TA		05 04 2115	2317	SSB	20M	14,232.0		20		Y			Y	Y				149				13	34	-27	1
		SU1AS	SU		05 04 2339	2341	FT8	40M	7,074.0		34					Y			Y		299				13	96	-172	
		4Z4KX	4X		05 05 0241	0242	CW	80M	3,504.0		20					Y					355				-12		-312	
		TA0S	TA		05 05 1823	2010	SSB	20M	14,286.0		20		Y	Y	Y	Y					66				28	65	-53	
		TA3DJ	TA		05 05 2015	2019	CW	30M	10,116.0		20					Y			Y		355				8	36	-134	
		TA2ANK	TA		05 05 2039	2039	FT8	20M	14,074.2		20					Y					0	-20	-20	-20	27	96	-45	4
		OD5ZZ	OD		05 05 1935	2041	FT8	20M	14,074.0		20		Y		Y	Y	Y	Y			193				28	97	-41	6
		4X6HU	4X		05 05 2005	2047	SSB	20M	14,307.0		20		Y			Y			Y		64				31	70	-35	
		TA7OYG	TA		05 05 2222	2222	FT8	20M	14,074.0		20					Y					46				24	95	-31	14
		TA2LG	TA		05 05 2212	2323	SSB	20M	14,242.0		20					Y	Y		Y		193				23	57	-30	1
		4Z5ML	4X		05 06 0214	0237	CW	40M	7,024.0		20					Y					58				10	48	-52	
		TA2ABX	TA		05 06 1459	1503	SSB	20M	14,217.0		20		Y			Y					186				26	61	-61	
		4Z5KU	4X		05 06 1906	1906	FT8	17M	18,102.4		20					Y					319				18	91	-33	13
		TA7OYG	TA		05 06 2020	2021	FT8	40M	7,076.5		20					Y					474				-16	18	-229	
		TA1PB	TA	TA1	05 06 2103	2103	CW	30M	10,103.0		20					Y					355				13	58	-122	
		4X6HU	4X		05 06 2003	2057	SSB	20M	14,282.0		20		Y		Y	Y			Y		423				31	70	-35	
		TA3DJ	TA		05 06 2057	2105	CW	30M	10,117.0		20		Y			Y					355				8	36	-134	
		TA0S	TA		05 06 2128	2128	FT8	20M	14,076.6		20					Y					483				30	97	-35	10
		TA6B	TA		05 06 2130	2130	FT8	20M	14,074.0		20					Y					400				25	95	-36	9
		TA2NEH	TA		05 06 2125	2150	FT8	40M	7,074.0		20		Y			Y					0	-19	-19	-19	-1	74	-196	
		4X5KS	4X		05 06 2146	2155	FT8	40M	7,075.1		20		Y			Y					0	-15	-15	-15	-5	65	-197	
		TA7OYG	TA		05 06 2151	2158	FT8	40M	7,076.1		20		Y			Y					0	-16	-11	-15	-3	70	-193	
		TC568FA	TA		05 06 1736	2200	SSB	20M	14,257.0		20		Y		Y	Y			Y		185				27	62	-73	
		TA7I	TA		05 06 2106	2220	SSB	20M	14,340.0		20		Y			Y	Y	Y	Y		267				25	60	-34	
		TA2LG	TA		05 06 2137	2220	SSB	20M	14,264.0		20		Y			Y	Y		Y		267				25	60	-42	
		TA1PB	TA	TA1	05 06 2234	2235	CW	40M	7,003.0		20					Y					355				9	44	-175	
		4Z1KN	4X		05 07 0025	0026	FT8	40M	7,074.0		20					Y					143				10	92	-128	
		TA2SE	TA		05 07 0011	0012	CW	40M	7,030.0		20					Y					355				16	63	-127	
		TA2HC	TA		05 06 2343	0134	FT8	40M	7,074.0		20		Y			Y	Y				0	-19	-11	-13	10	88	-160	
		TA2LG	TA		05 07 0152	0154	SSB	40M	7,128.0		20					Y					15				7	4	-170	
		4Z5ML	4X		05 07 0405	0407	FT8	40M	7,076.9		20					Y					0	-16	-12	-12	4	86	-179	

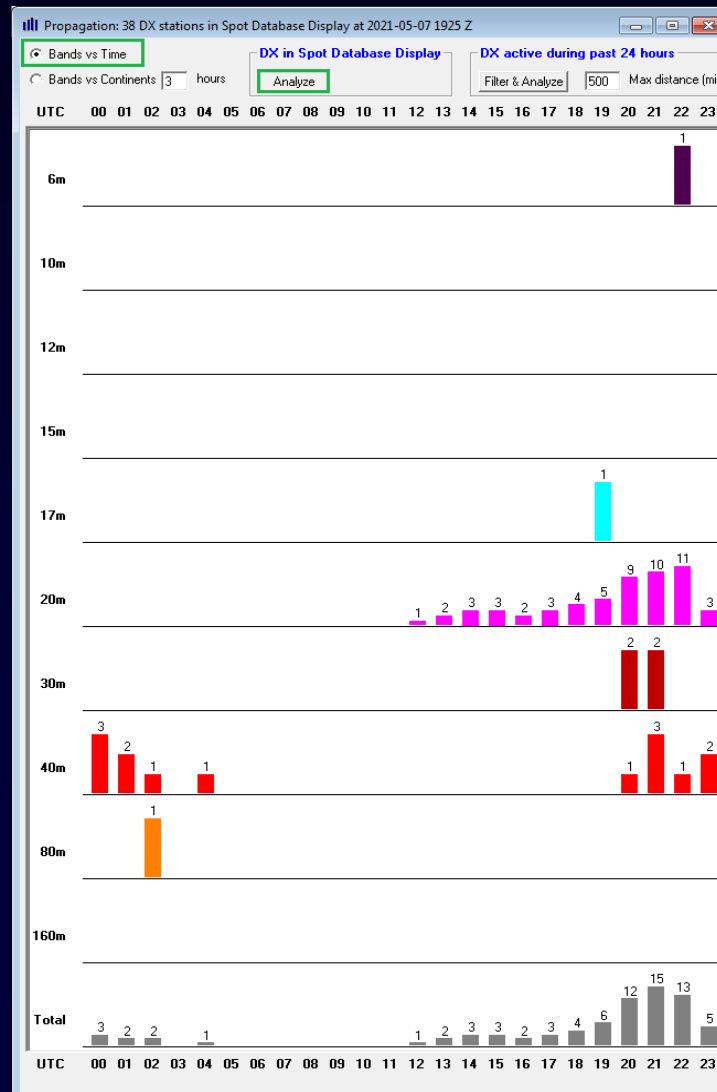
Filter: SQL [nr ZC4]

Sort: First, Call, Last, Freq, Rcv, Az

AutoHide: Need, Call, DXCC, Freq, Tag, Band, Mode, Cont, Origin

Color codes: verified, unverified, unconfirmed, unverified B or M, unverified counter, special tag, LotW, xQSL AG, LotW & xQSL AG

# Propagation from “Near Me” to “Near ZC4”

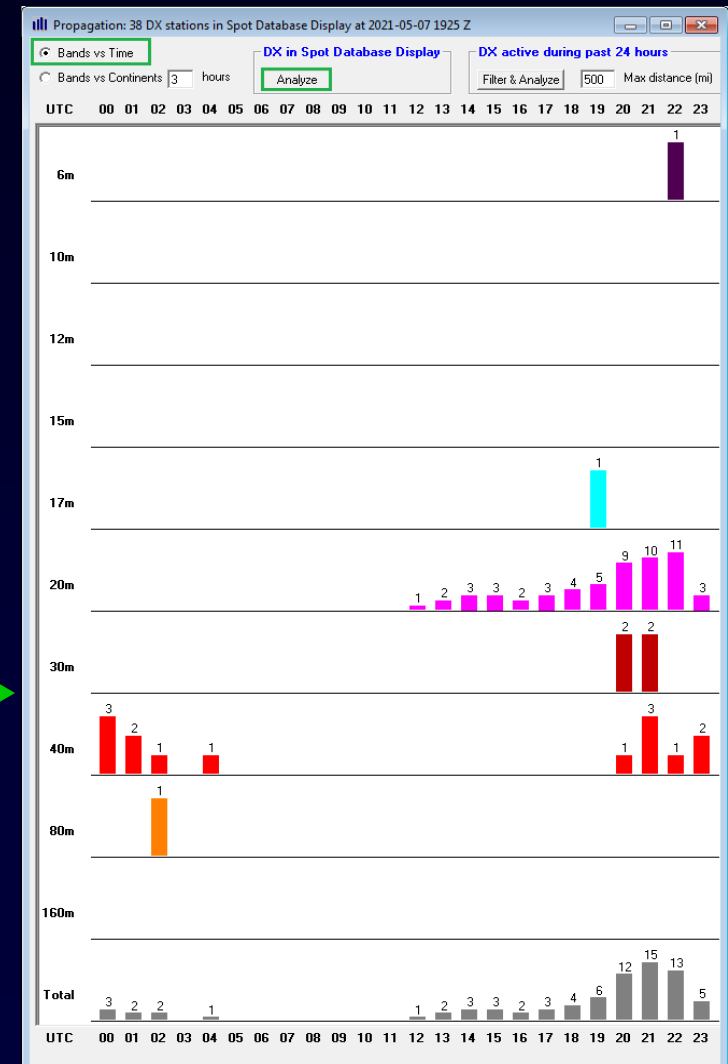
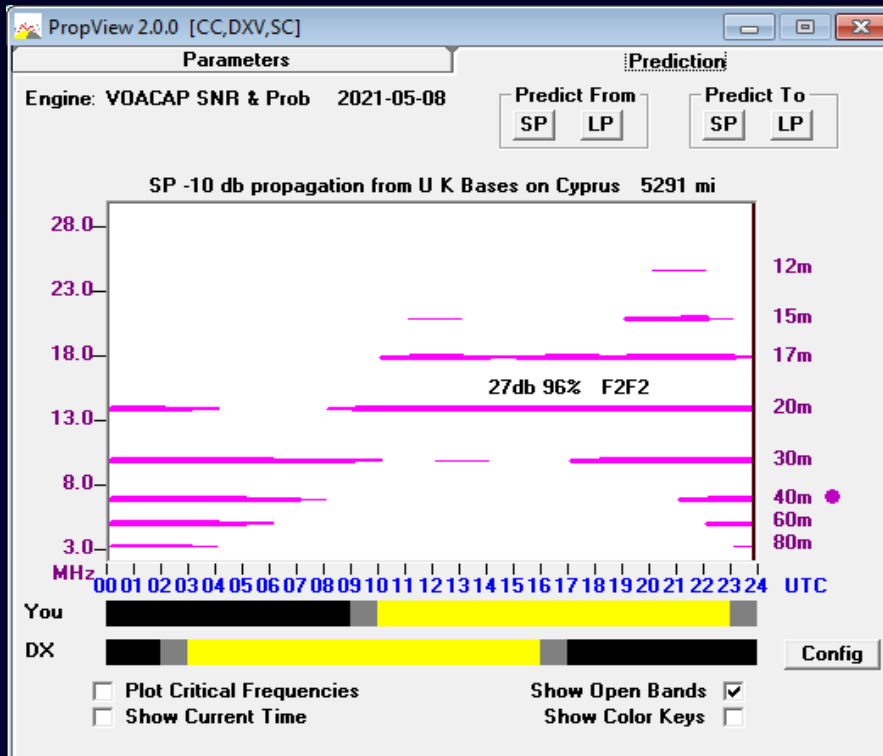


## Propagation Openings?

- 20m: 12Z to 23Z
- 30m: 20Z to 21Z
- 40m: 20Z to 23Z

# Compare Actual & Forecast Propagation

Solar Flux Index = 80, DX running 100 watts





# ZC4GR: The Plan

1. Monitor the 20m FT8 sub-band from 12Z to 23Z, especially
  - when the Solar Flux Index is 75 or above
  - when the NCDXF 4X Beacon can be copied

## When QRV?

- 15m: 11Z to 18Z
- 20m: 12Z to 23Z
- 30m: 15Z to 20Z
- 40m: 16Z to 21Z

## Propagation Openings?

- 20m: 12Z to 23Z
- 30m: 20Z to 21Z
- 40m: 20Z to 23Z

2. Employ a European DX Cluster as a Spot Source
3. Rapidly QSY if ZC4GR is spotted on another band
  - Enable audio announcements
  - Exploit Frequency-dependent Amplifier and Tuner settings

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# Multiple Views of Active DX

DX Spot Sources

EU

Active DX Database

Propagation  
Prediction  
(VOACAP)

LotW  
Database

eQSLAG  
Database

View  
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

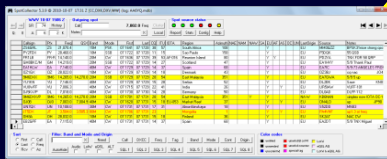
VUCC needs

WAS needs

WPX needs

WAZ needs

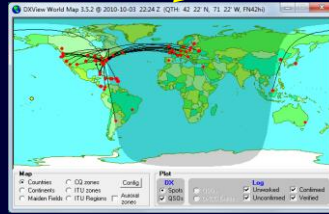
Logged  
QSOs



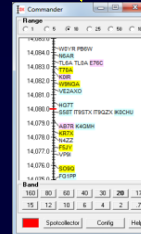
Tabular



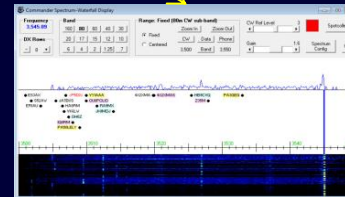
Audio/Email



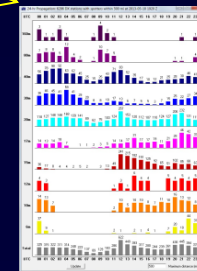
World Map



Bandspread



Spectrum



Propagation



WSJT-X

# ZC4GR: The Plan

1. Monitor the 20m FT8 sub-band from 12Z to 23Z, especially
  - when the Solar Flux Index is 75 or above
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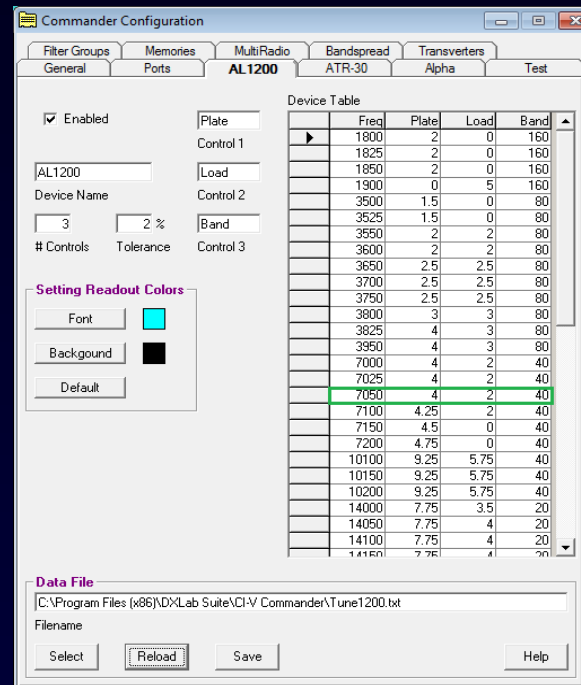
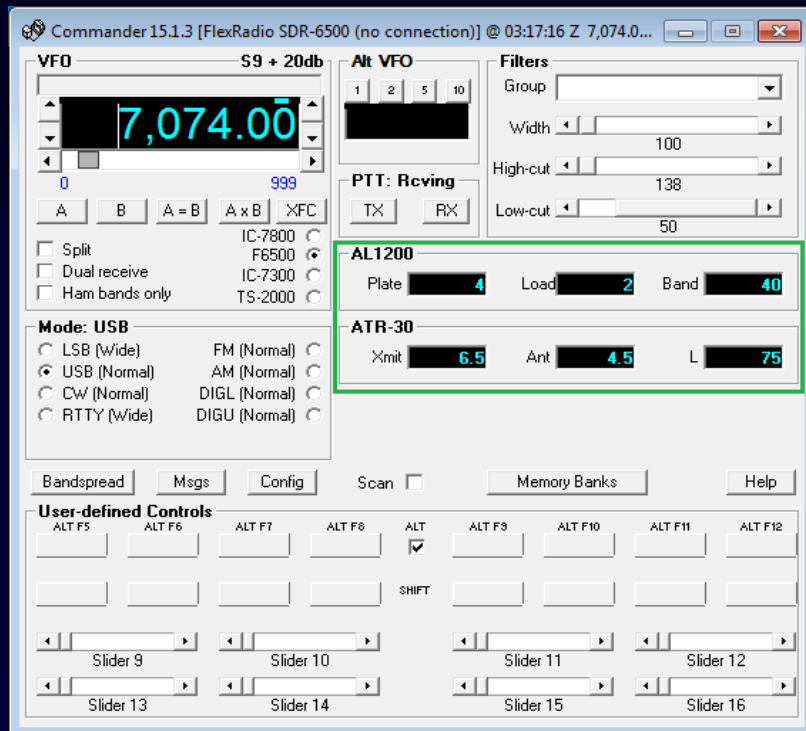
- 15m: 11Z to 18Z
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- 20m: 12Z to 23Z
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  - Enable audio announcements
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# Rapidly Setup Amplifier After QSY



# ZC4GR: The Plan

## 1. Monitor the 20m FT8 sub-band from 12Z to 23Z

### When QRV?

- 15m: 11Z to 18Z
- 20m: 12Z to 23Z
- 30m: 15Z to 20Z
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## 2. Employ a European DX Cluster as a Spot Source

## 3. Rapidly QSY if ZC4GR is spotted on another band

- Enable audio announcements
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# Working ZC4GR in CW, RTTY, or SSB

1. “Blueprint” the band with local spots
2. If ZC4GR is spotted, double-click to QSY and set split
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LotW  
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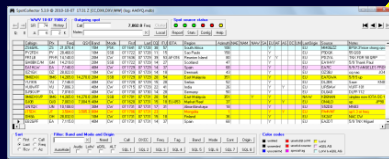
VUCC needs

WAS needs

WPX needs

WAZ needs

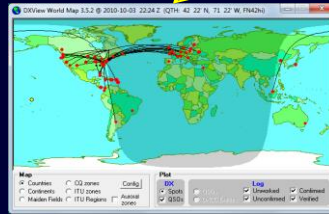
Logged  
QSOs



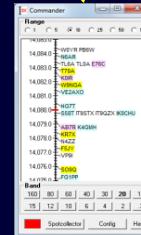
Tabular



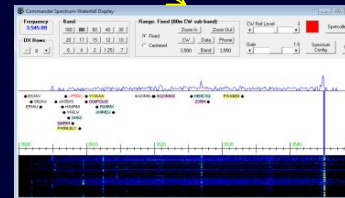
Audio/Email



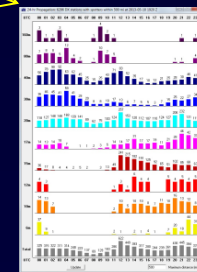
World Map



Bandspread



Spectrum



Propagation

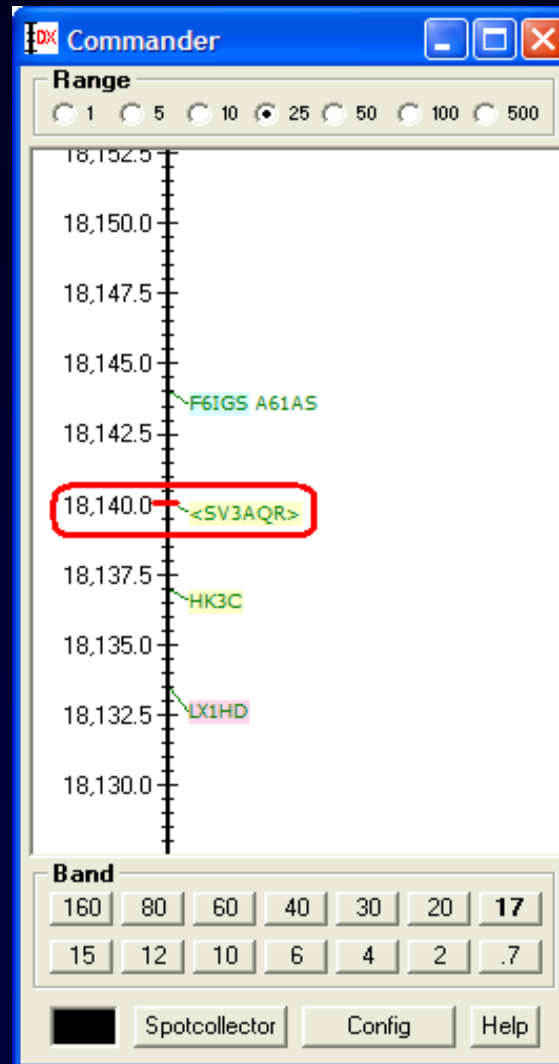


WSJT-X



# Blueprinting the Band

“Locally Spot” Every Station You Identify



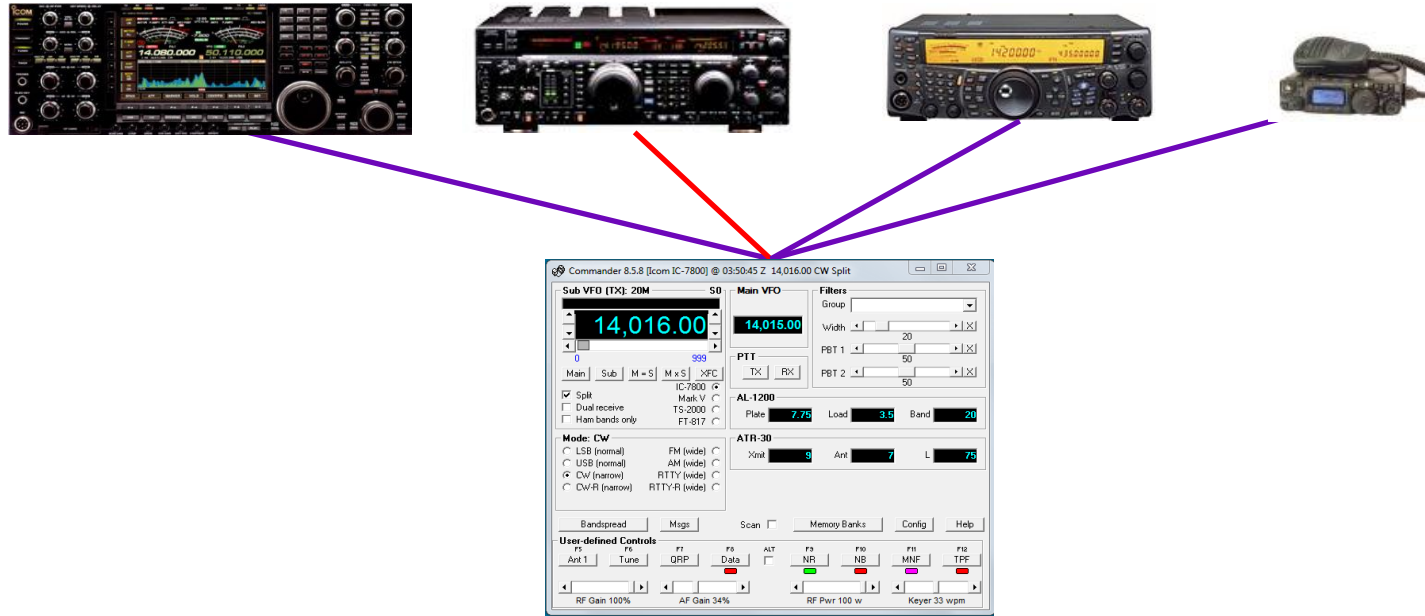
# Working ZC4GR in CW, RTTY, or SSB

1. “Blueprint” the band with local spots
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# Working ZC4GR in CW, RTTY, or SSB

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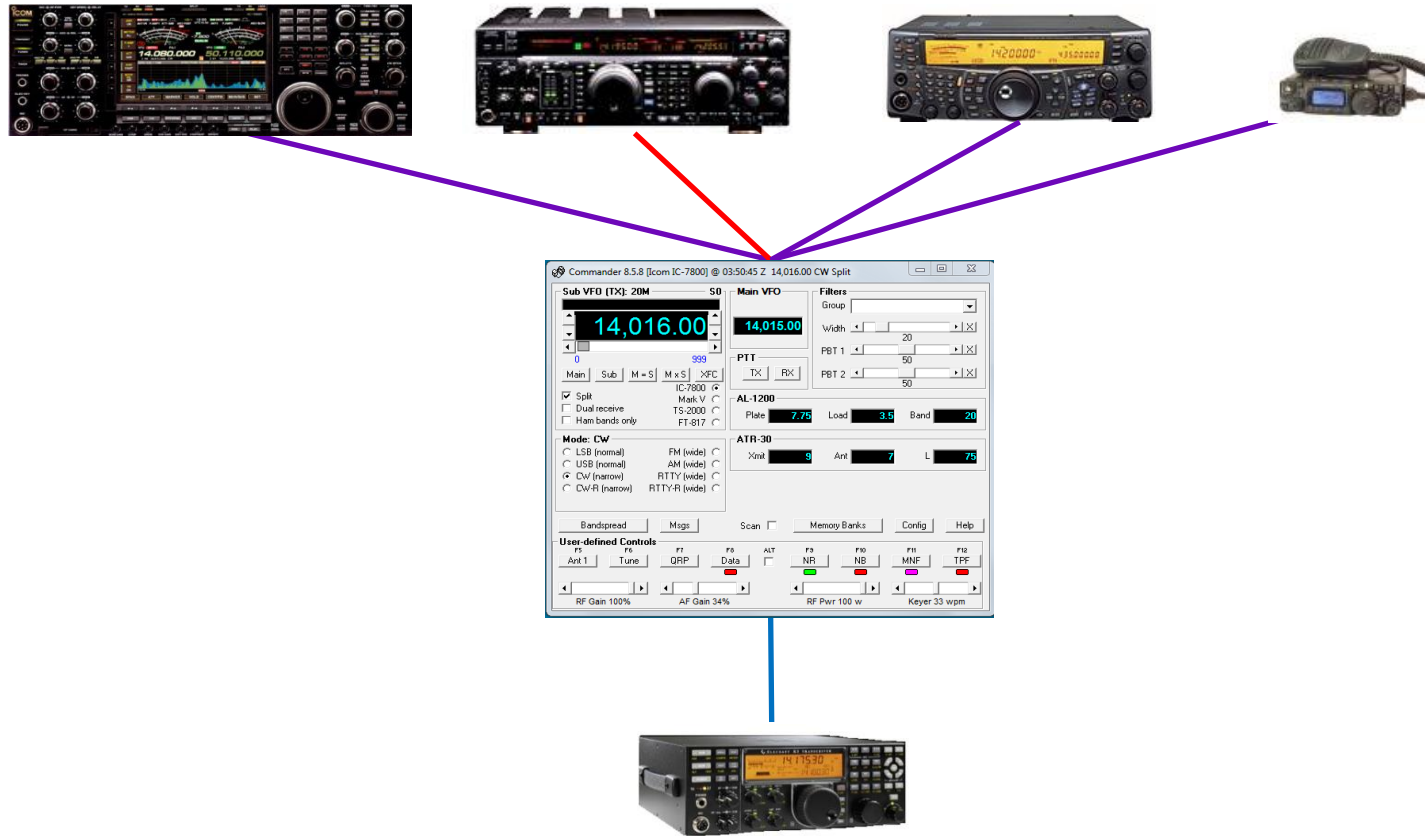
# Commander: Multiple Radio Support



Select one of four *primary* radios

- By button click
- Automatically as a function of frequency

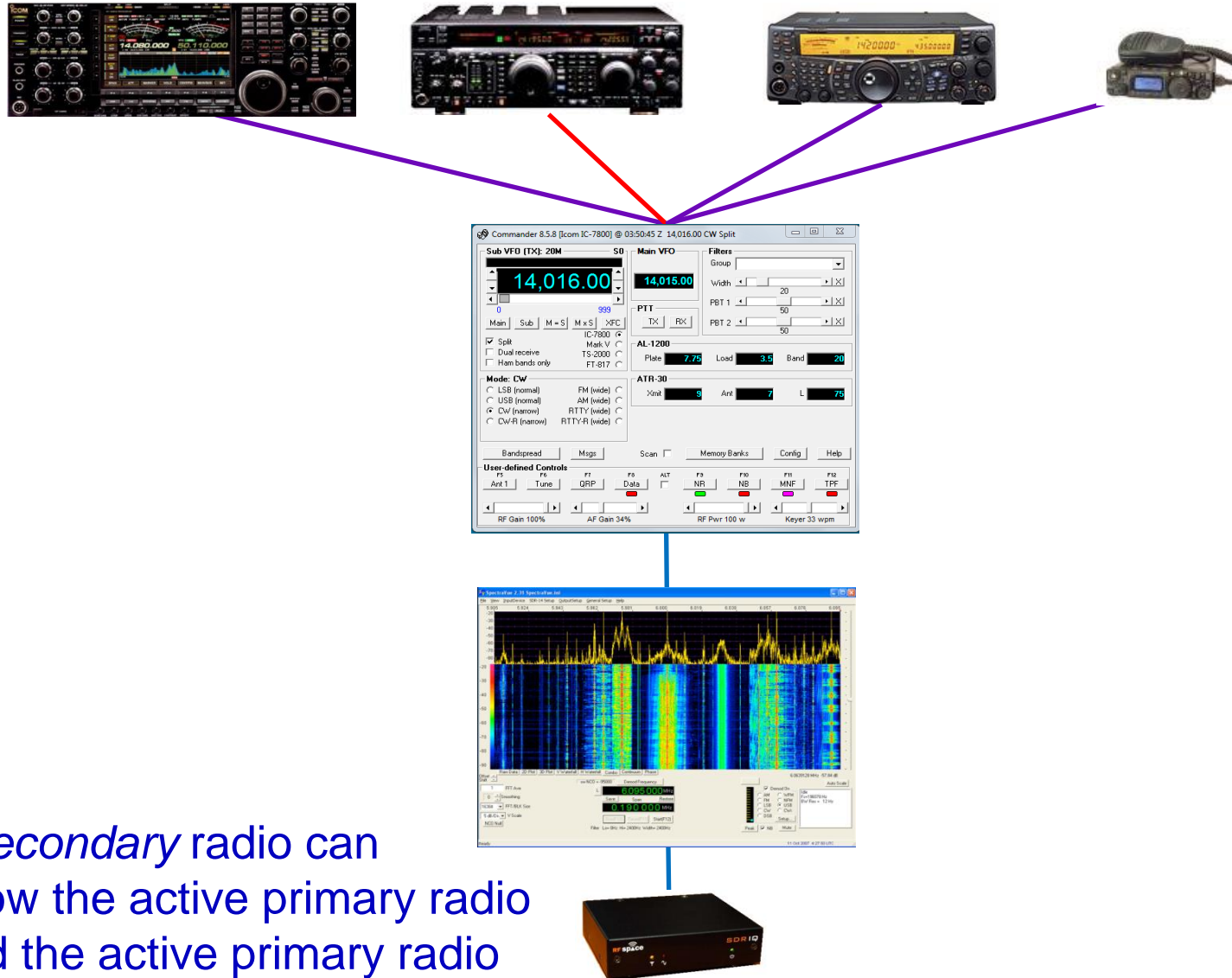
# Commander: Multiple Radio Support



The *Secondary* radio can

- Follow the active primary radio Main or Sub VFO
- Lead the active primary radio

# Commander: Multiple Radio Support



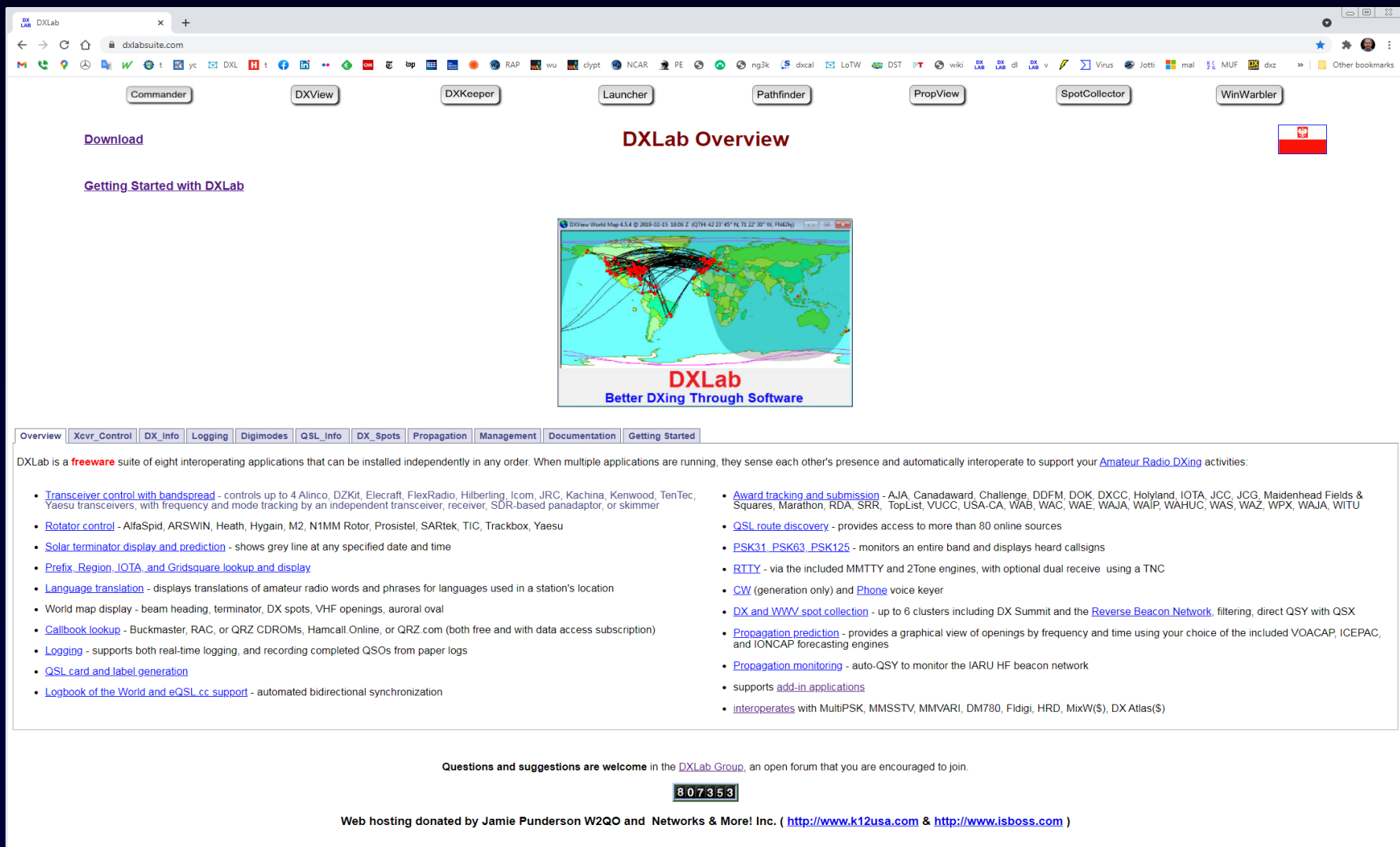
# DXing With DXLab

- Introduction to the DXLab Suite
  - Architecture
  - Development Drivers
  - Multiple Views of Active DX
- Finding the DX You Need
- Working the DX You Need

# DXLab Documentation

- Reference documentation
  - HTML: Online and local
  - PDF: Online
  - Updated with each version
- Task-oriented documentation
  - Step-by-step instructions for common actions
  - HTML: Online

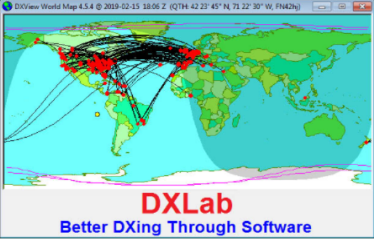




DXLab Suite Overview

Download  
Getting Started with DXLab

DXLab Overview



DXLab  
Better DXing Through Software

Overview | Xcvr\_Control | DX\_Info | Logging | Digimodes | QSL\_Info | DX\_Spots | Propagation | Management | Documentation | Getting Started

DXLab is a **freeware** suite of eight interoperating applications that can be installed independently in any order. When multiple applications are running, they sense each other's presence and automatically interoperate to support your [Amateur Radio DXing](#) activities:

- [Transceiver control with bandspread](#) - controls up to 4 Alinco, DZKit, Elecraft, FlexRadio, Hilberling, Icom, JRC, Kachina, Kenwood, TenTec, Yaesu transceivers, with frequency and mode tracking by an independent transceiver receiver, SDR-based panadapter, or skimmer
- [Rotor control](#) - AlfaSpid, ARSWIN, Heath, Hygain, M2, N1MM Rotor, ProStar, SARTek, TIC, Trackbot, Yaesu
- [Solar terminator display and prediction](#) - shows grey line at any specified date and time
- [Prefix, Region, IOTA, and Gridsquare lookup and display](#)
- [Language translation](#) - displays translations of amateur radio words and phrases for languages used in station identification
- World map display - beam heading, terminator, DX spots, VHF openings, aural oval
- [Callbook lookup](#) - Buckmaster, RAC, or QRZ CDROMs, Hamcall, Online, or QRZ.com (both free and with data access subscription)
- [Logging](#) - supports both real-time logging, and recording completed QSOs from paper logs
- [QSL card and label generation](#)
- [Logbook of the World and eQSL.cc support](#) - automated bidirectional synchronization
- [Award tracking and submission](#) - AJA, Canadaward, Challenge, DDFM, DOK, DXCC, Holyland, IOTA, JCC, JCG, Maidenhead Fields & Squares, Marathon, RDA, SBB, TopList, VUCC, USA, CA, WAB, WAC, WAE, WAJA, WAIP, WAHUC, WAS, WAZ, WPX, WAJA, WITU
- [QSL route display](#) - provides access to more than 80 online sources
- [PSK31, PSK63, and SK125](#) - monitors an entire band and displays heard callsigns
- [RTTY](#) - via the included MMTTY and 2Tone engines, with optional dual receive using a TNC
- [CW](#) (generally only) and [Phone](#) voice keyer
- [DX and WWW site collection](#) - up to 6 clusters including DX Summit and the [Reverse Beacon Network](#), filtering, direct QSY with QSX
- [Propagation prediction](#) - provides a graphical view of openings by frequency and time using your choice of the included VOACAP, ICEPAC, or NCAP
- [Propagation monitoring](#) - auto-QSY to monitor the IARU HF beacon network
- supports [add-in applications](#)
- [interoperates](#) with MultiPSK, MMSSTV, MMVARI, DM780, Fldigi, HRD, MixW(\$), DXAtlas(\$)

Questions and suggestions are welcome in the [DXLab Group](#), an open forum that you are encouraged to join.

807353

Web hosting donated by Jamie Punderson W2QO and Networks & More! Inc. ( <http://www.k12usa.com> & <http://www.isboss.com> )

# Better DXing Through Software

**DXKeeper 8.9.4** [CC,DXV,SC,WW] - AA6YQ.mdb : 18487 QSOs

**Log QSOs** | QSL | Check Progress | my QTHs | Import QSOs | Export QSOs

**QSO: Jordan**

call JY4NE name QTH

mode RTTY via tx freq 14.086765 begin 9/20/2010 18:37

sent 599 rcvd 599 tx band 20M rx freq 14.086764 end 9/20/2010 18:37

power 1500 code 342 DXCC JY entity Jordan

New Save Undo CBA Delete Report Plot T8487 Adv RAT Capture Config Help

Call	DXCC	Starting UTC	Band	Mode	Sent	Rcvd	Name
JT5DX	JT	9/19/2010 23:23	17M	CW	599	599	hadraabal
RPQAT	UA	9/20/2010 01:01	20M	RTTY	599	599	Vit
KP4JFR	KP4	9/20/2010 01:11	20M	RTTY	599	599	Jose
JY4NE	JY	9/20/2010 18:37	20M	RTTY	599	599	

Sort: UTC Call Adv Filter: None EY7AD X Call DXCC Date Since Sel LotW Broke ~

**SpotCollector 5.3.9** @ 2010-10-04 19:59 Z [CC,DXK,DXV,WW] (log: AA6YQ.mdb)

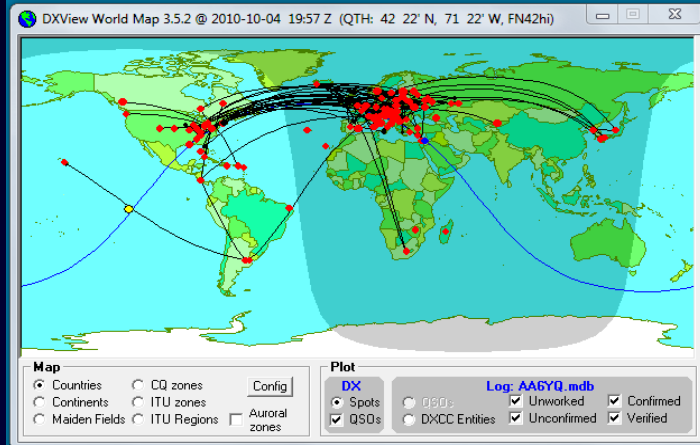
**wvV 10-04 1806 Z** | **Outgoing spot** | **Spot source status**

SFI 80 History Call 14.086.2 Freq Cluster

Q: 0 A 1 2 K Notes X Local Report Stats Config Help

Callign	Pfx	Freq	Band	Mode	LastTime	Notes	NAE	NAM	NAW	SA	EU	AF	AS	OC	UN	LastOrig	Source
PS7DX	FY	14,018.3	20M	CW	10/4/2010 1959	CQ 8 dB 21 WPM	Y	Y	Y	Y	Y	Y	Y	Y	Y	NA-E	N4ZR-#
SQ9CNS	SP	3,541.0	80M	CW	10/4/2010 1959	CQ 16 dB 13 WPM										EU	QL5Q-#
LA3TQ	LA	14,017.8	20M	CW	10/4/2010 1959	CQ 18 dB 23 WPM										EU	S5ZK-#
IK0RCD	I	14,025.6	20M	CW	10/4/2010 1959	CQ 13 dB 18 WPM	Y	Y	Y							NA-M	K8ND-#
SA/SP9EVP	SA	7,017.0	40M	CW	10/4/2010 1959	CQ 21 dB 26 WPM				Y						EU	QL5Q-#
UA9MA	UA0	1,822.5	160M	CW	10/4/2010 1959	CQ 10 dB 25 WPM				Y						EU	EI6IZ-#

Sort: First Call Last Freq Rev Az Filter: Band and Mode Need Call DXCC Freq Tag Band Mode Cont Origin AutoHide Audio LotW eQSL ALT SQL 1 SQL 2 SQL 3 SQL 4 SQL 5 SQL 6 SQL 7 SQL 8 Color codes: verified unneeded unconfmd unworkd special



**WinWarbler 6.8.5** for AA6YQ @ 2010-10-04 19:59 Z [CC,DXK,DXV,SC]

**QSO Info (Receive Pane 0)** | local: 2010-10-05 00:59

Call 2 EY7AD rst R Name Rakhim DXCC EY Begin Log Xcvr Freq

QSL Via DIRECT -1 CQ 17 ITU 30 QTH 735700 Cont AS End Spot RX 14,086.19 TX 14,086.19

Buro Grid MN30 Pri sub Sec sub Config Help

LotW IOTA Az Path S Comment

QUOTHCC DX CQ DX DE SV1PAS SV1PAS PSE K

DS1PAUSSVPAS DEHPFF,PD1BPSE K...

))ITCQ DX CQ DX DE SV1PAS SV1PAS PSE EEUQOESCQ DX CQ DX DE SV1PAS SV1PAS PSE K

S MSQVAS UV1PAS DE PD1ANB,PD1ANB PSE K..9QRZ QRZ DE SV1PAS SV1PAS SV1PAS PSE K

**Commander 8.5.8** [icom IC-7200] @ 19:59:42 Z 14,086.19 LSB

**VFO A: 20M** | **VFO B**

14,086.19 | 21,008.10

Filters: Group normal Width 0 PBT 1 50 PBT 2 50

PTT: Revving TX RX

AL-1200 Plate 7.75 Load 4 Band 20

Mode: LSB (normal) FM (wide) USB (normal) AM (wide) CW (narrow) RTTY (wide) CW-R (narrow) RTTY-R (wide)

Bandsread Msgs Scan Memory Banks Config Help

**dx Commander**

**Range**

1 5 10 25 50 100

14,088.5 E17BFB

14,088.0 EA4AHE

14,087.5 UR7ITU

14,086.5 PF7DKW

14,085.5 LX8RTTY

14,084.5 SP9GKJ

Band: 180 80 60 40 30 20 17 15 12 10 6 4 2 .7

Spotcollector Config Help

**Macros: rty sample**

F5 CQ F6 Call F7 Over F8 SK log ALT F9 ur rpt F10 tu log qrz? F11 de mcall F12 mcall (3)

sh F5 sh F6 sh F7 sh F8 sh F9 sh F10 sh F11 sh F12

**RTTY receive (soundcard)** | **RTTY transmit (soundcard)**

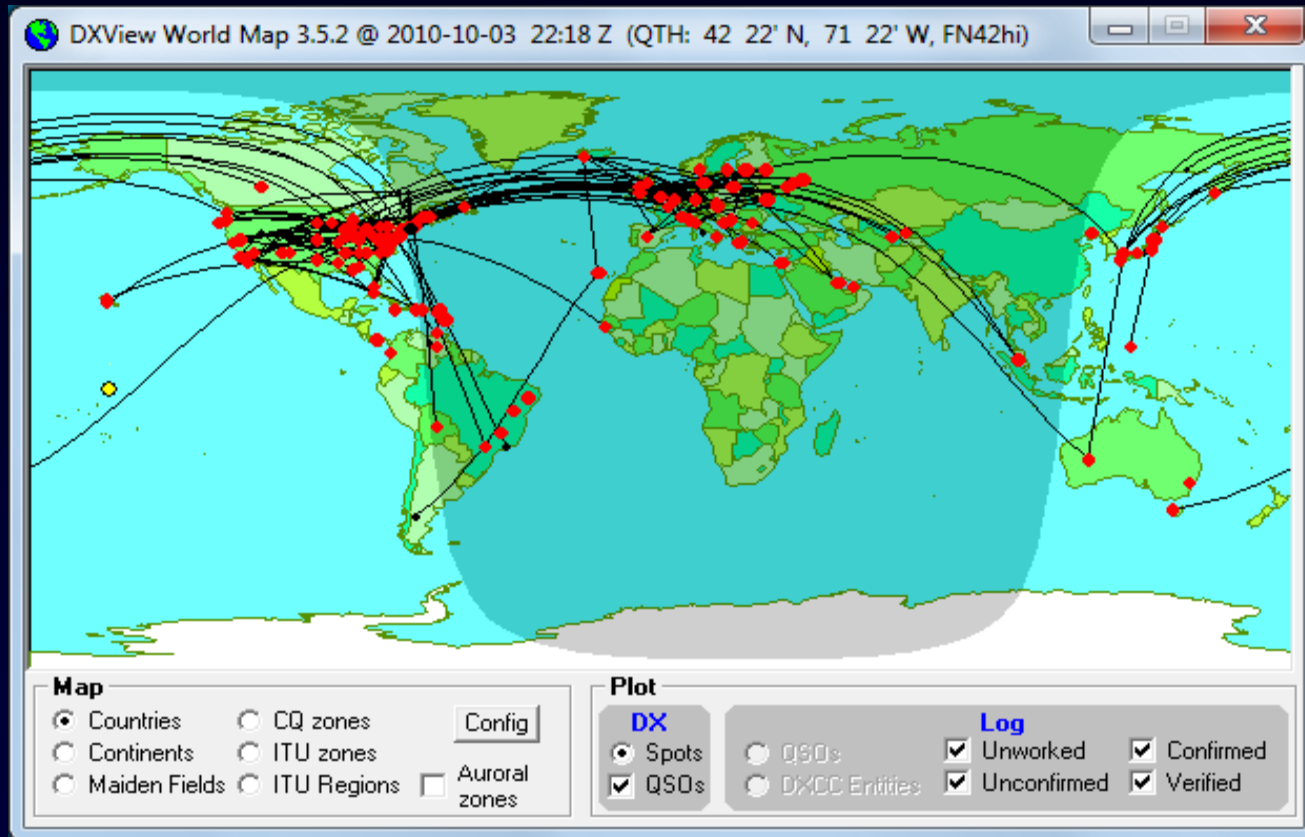
Freq: 14,084.065 Signal level & squelch 61

AFB Notch BPF DPF Profile Reverse Def Opt

**Operating Mode**: CW PSK31 Phone PSK63 RTTY PSK125

**Tuning Display**: Vert height 2.0 Horiz zoom 1 Horiz pan

# DXing with DXLab



## Better DXing Through Software