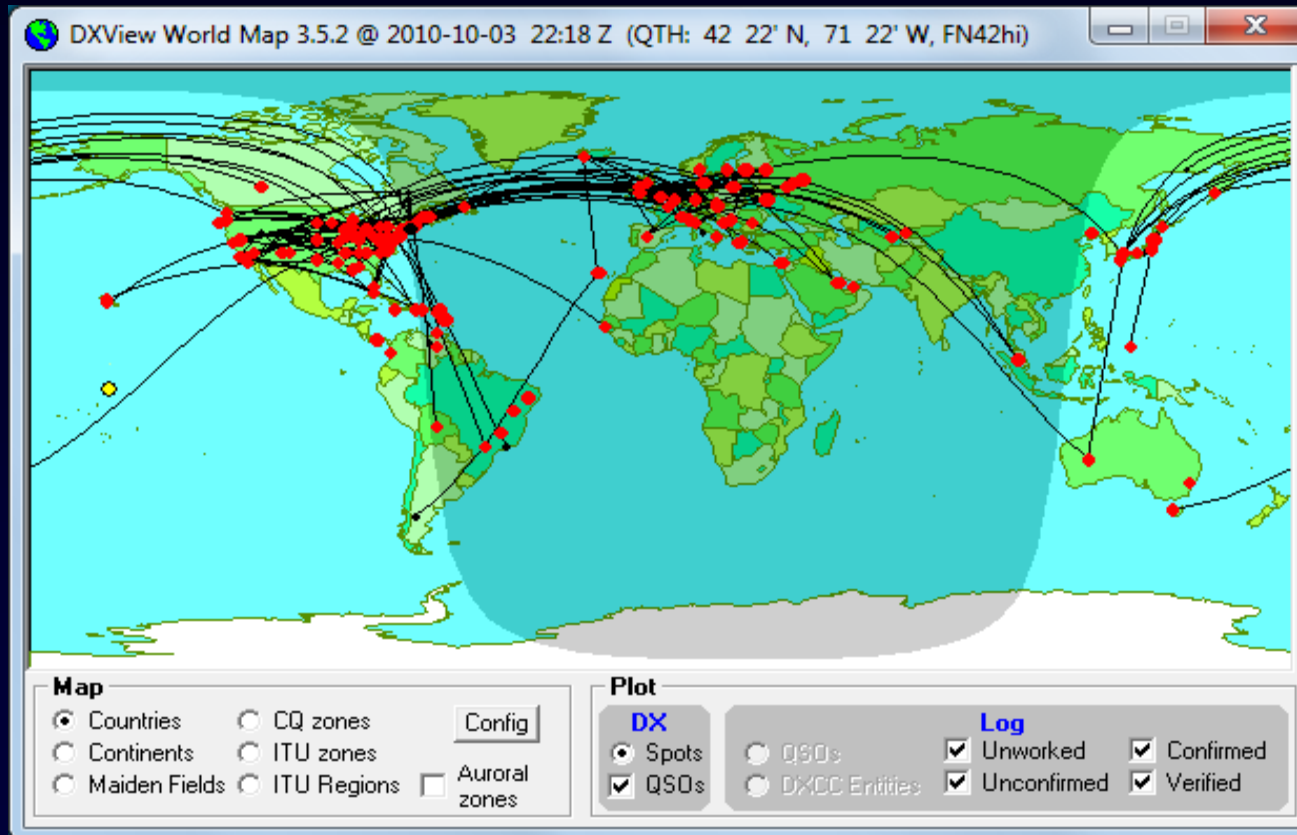


DXing with DXLab

v21 2026-08-18



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

DXing Objectives

1. Work All X – during a time interval, and/or over your lifetime
 - States or Districts or Prefectures or ...
 - Countries
 - CQ Zones
 - Prefixes
 - Grid Squares
 - Islands
 - Parks
 - Summits
 - Lighthouses
 - ...
2. Confirm all X – via QSL cards and/or online services
3. Obtain credit for QSOs from Award Sponsors
 - ARRL: DXCC, VUCC, WAS, WAZ, WPX
 - DX Marathon
 - IOTA
 - POTA
 - SOTA

DXLab Helps Achieve Your Objectives

1. Makes time spent DXing more productive by helping you find and work the DX you **need** to achieve your objectives
 - **Alerts** you to **needed** stations that are QRV now, and likely workable
 - **Analyzes** activity by **needed** stations that are infrequently active
 - Reveals activity patterns
 - Reveals actual propagation openings
2. **Automates needed** QSL wrangling and award submissions to liberate more time for DXing

DXing With DXLab

- the DXLab Suite
 - Drivers
 - Architecture
 - Multiple Views of Active DX

Drivers

1. User-driven iterative development

- Online group with ~6000 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

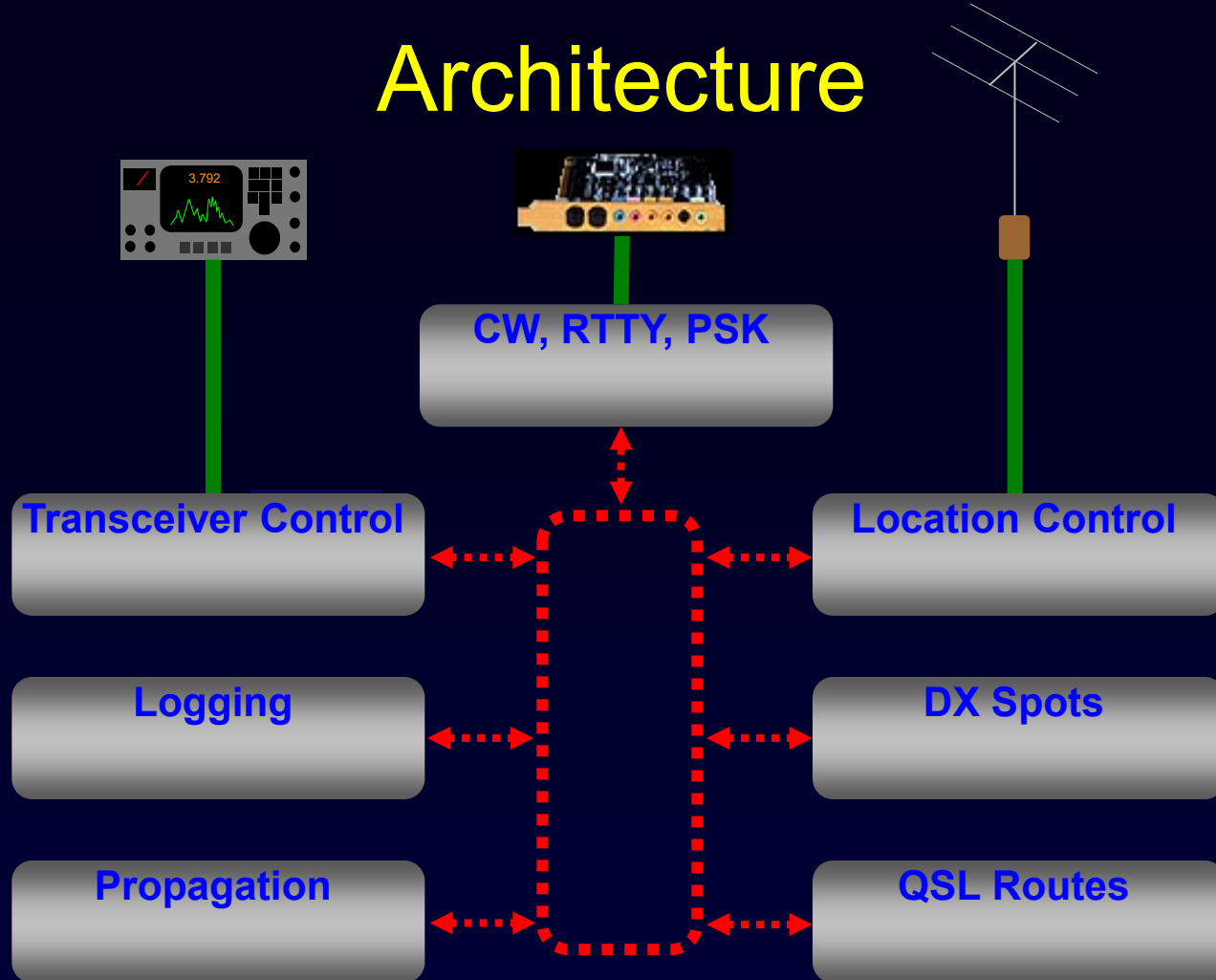
3. Runs on Windows NT, 2000, XP, Vista, 7, 8, 10, and 11

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

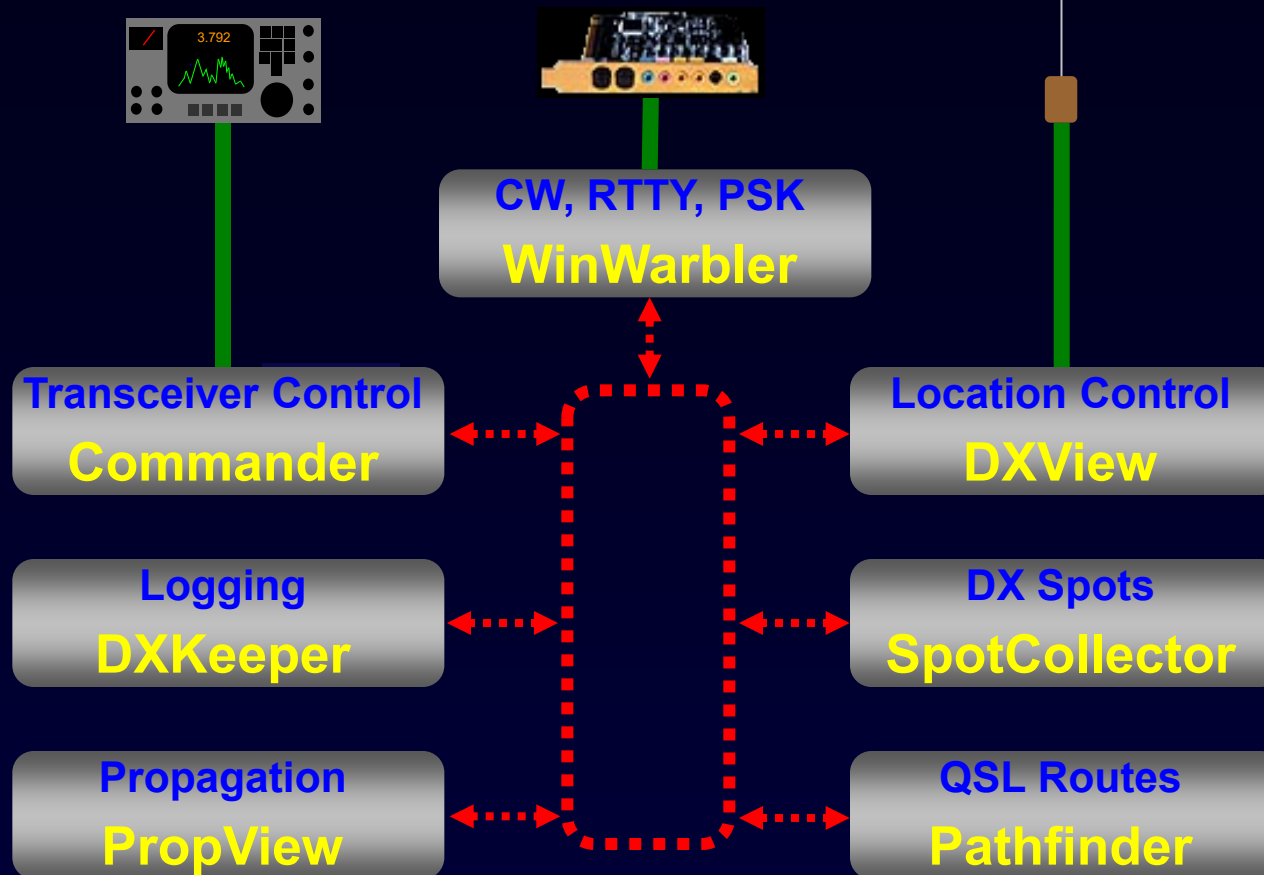
Architecture

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

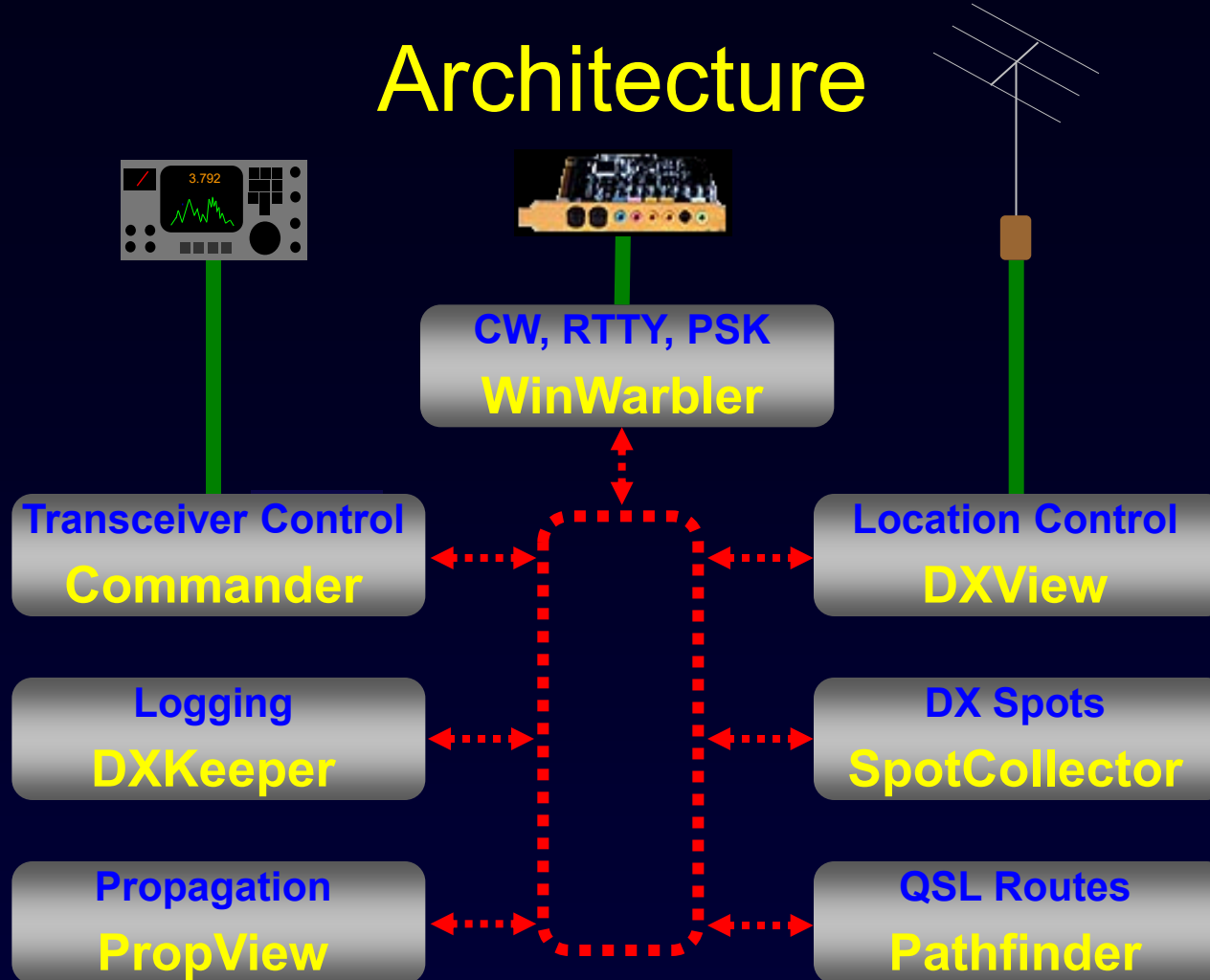
Architecture



Architecture



Architecture



- Modular
- Loosely-coupled



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: tx freq: 14.086765 begin: 9/20/2010 18:37
 mode: RTTY via: rx freq: 14.086764 end: 9/20/2010 18:37
 sent: 599 rcvd: 599 tx band: 20M rx band: 20M
 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
PXQAT	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

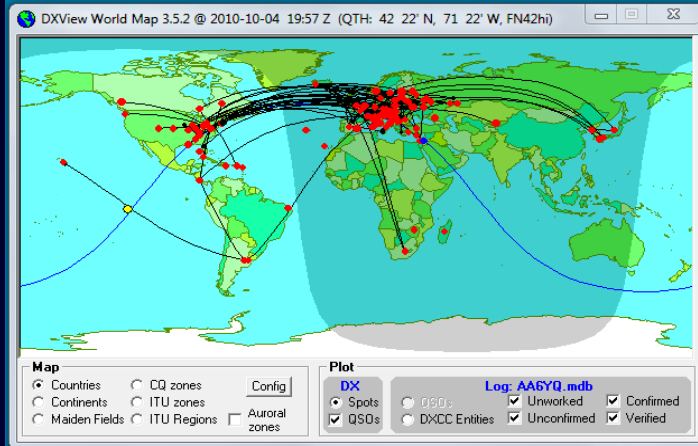
SpotCollector 5.3.9 @ 2010-10-04 19:59 Z [CC,DXK,DXV,WW] (log: AA6YQ.mdb)

WV 10-04 1806 Z - Outgoing spot

Call: 14.086.2 Freq: Cluster: Spot source status: Report Stats Config Help

Call	Plx	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 Last 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 Xcvr Freq: 14.086.19
 QSL: Via DIRECT - I CQ: 17 ITU: 30 QTH: 735700 Cont: AS End Spot TX: 14.086.19
 Buro: Grid: MN30 Pri sub: Sec sub: Config Help
 LotW: IOTA Az Path S Comment

QUOTHCO DX CO DX DE SV1PAS SV1PAS PSE K
 DS1PAUSSVPAS DEHPFF,PD1BPSE K...
))ITCO DX CO DX DE SV1PAS SV1PAS PSE EEUQ00ESCO 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
 LSB (normal) FM (wide)
 USB (normal) AM (wide)
 CW (narrow) RTTY (wide)
 CW-R (narrow) RTTY-R (wide)

Bandsplit Msgs Scan Memory Banks Config Help

Commander

Range 1 5 10 25 50 100

14.088.5
 14.088.0 E17BFB
 14.087.5 E44AHE
 14.087.0
 14.086.5 UR7ITU
 14.086.0 PF7DKW
 14.085.5 LX8RTTY
 14.085.0 SP9GKJ
 14.084.5
 14.084.0

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

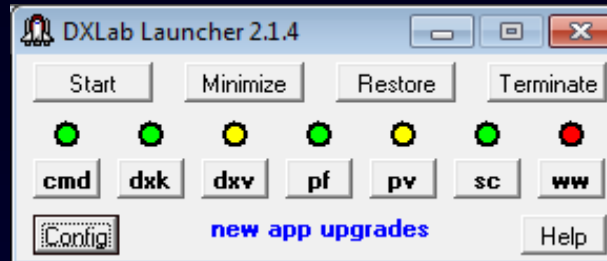
RTTY receive (soundcard) Freq: 14,084.065 Signal level & squelch: 61
 AFC Notch BPF DPF Reverse Def Opt Profile

RTTY transmit (soundcard) Freq: 14,084.065 net tune
 Reverse F2 Start F4 Esc

Operating Mode
 CW PSK31 Phone PSK63 RTTY PSK125

Tuning Display
 Vert height: 2.0 Horiz zoom: 1 Horiz pan: 14086

Single Point of Control: DXLab Launcher



- Installation
- Upgrade
- Startup
- Shutdown

DXing With DXLab

- the DXLab Suite
 - Drivers
 - Architecture
 - Multiple Views of Active DX

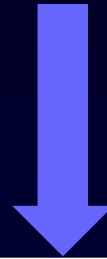
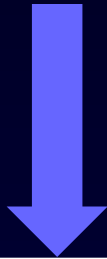
Active DX Database

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

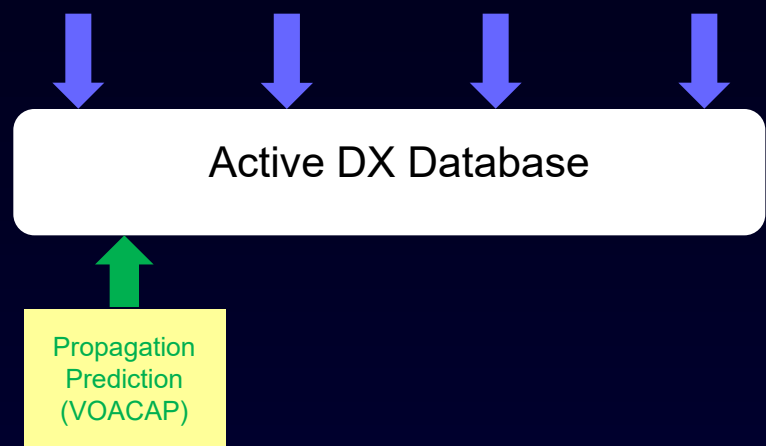


Active DX Database

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 to achieve *your*
DXing objectives?

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

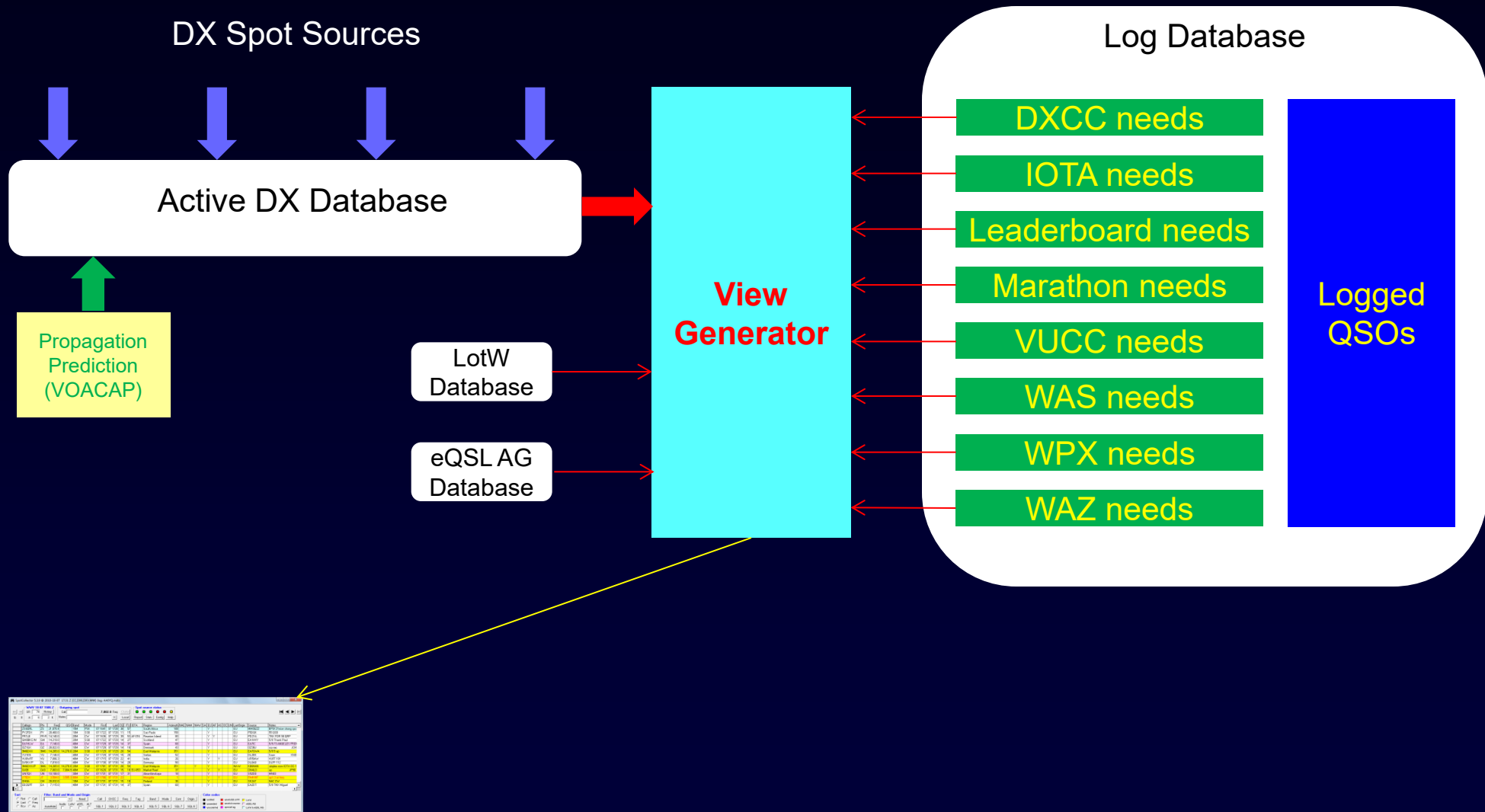
WAS needs

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,DXC,DXV,PV,WW] 8168 entries (log: AA6YQ.mdb)

WWV 04-16 1805 Z

SFI 73 History

Outgoing spot

Call 14,085.0 Freq Cluster

Notes X Local

Spot source status

distance from my QTH to the closest spotting station

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
	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		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/K81KK	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	
	PU2K0B	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	

Filter: Band and Mode and Origin

Sort: First Call, Last Freq, Rcv Az

Color codes: verified, needed, unconfirmed, worked B or M, worked counter, special tag, LotW, vQSL AG, LotW & vQSL AG

Font color **alerts** you to **needed** 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	☐				8m	☐			
160m	☒	SS-30	SR+45		6m	☒			500
80m	☒	SS-60	SR+90		5m	☐			
60m	☐				4m	☐			
40m	☒				2m	☐			
30m	☒				1.25m	☐			
20m	☒				70cm	☐			
17m	☒				33cm	☐			
15m	☒				23cm	☐			
12m	☒				12cm	☐			
10m	☒				?	☐			

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

SpotCollector Mode Filter

☒ SSB	☐ AM	☐ FM	☒ CW	☐ CCW	☒ RTTY	☐ ?
☐ Amtor	☐ AmtorFEC	☐ Ascii	☐ Hell	☐ FMHell	☐ PSKHell	☐ Hell80
☐ ATV	☐ FAX	☐ SSTV	☐ HFSK	☐ PAX	☐ PAX2	
☐ Packet	☐ Clover	☐ GTOR	☐ Pactor	☐ Pactor2	☐ Pactor3	☐ WINMOR
☒ PSK31	☒ PSK63	☒ PSK125	☐ PSK250	☐ PSK63F	☐ PSK220F	☐ MT63
☐ QPSK31	☐ QPSK63	☐ QPSK125	☐ QPSK250	☐ PSK10	☐ PSKFEC31	☐ Q15 ☐ Q65
☐ PSKAM10	☐ PSKAM31	☐ PSKAM50	☐ MFSK8	☐ MFSK16	☐ FSK31	☐ FSK441
☐ Chip64	☐ Chip128	☐ RDS	☐ Thor	☐ DominoEX	☐ DominoF	☐ ALE
☐ Olivia	☐ Contestia	☐ RTTYM	☐ Voi	☐ Throb	☐ ThrobX	☐ JS8 ☐ JT9
☐ JT44	☐ JT4A	☐ JT4B	☐ JT4C	☐ JT4D	☐ JT4E	☐ JT4F ☐ JT4G
☒ FT4	☐ FST4	☒ FT8	☐ WSPR	☐ JT6M	☐ JT65	☐ JT65A ☐ JT65B ☐ JT65C
☐ ISCAT	☐ MSK144	☐ QRA64	☐ QRA64A	☐ QRA64B	☐ QRA64C	☐ QRA64D ☐ 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 unvrld B or M LotW
unneeded unvrld counter eQSL AG
unconfmd special tag 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,DXC,DXV,PV,WW] 6 entries (log: AA6YQ.mdb)

WWV 04-16 1805 Z

SFI 73 History

Q: 4 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	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	DS4AOW	HL	30M	CW	15 1556	15 1714	10,108.0	10,109.0		25		PM47	3983	Y						Y		-7	1	-113		
	D	DS4AOW	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	DS4AOW	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		

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

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

Audio Age LotW eQSL Mrthn S

160 test1 W9DL Quixote Need50 SQL 29 SQL 30 160was

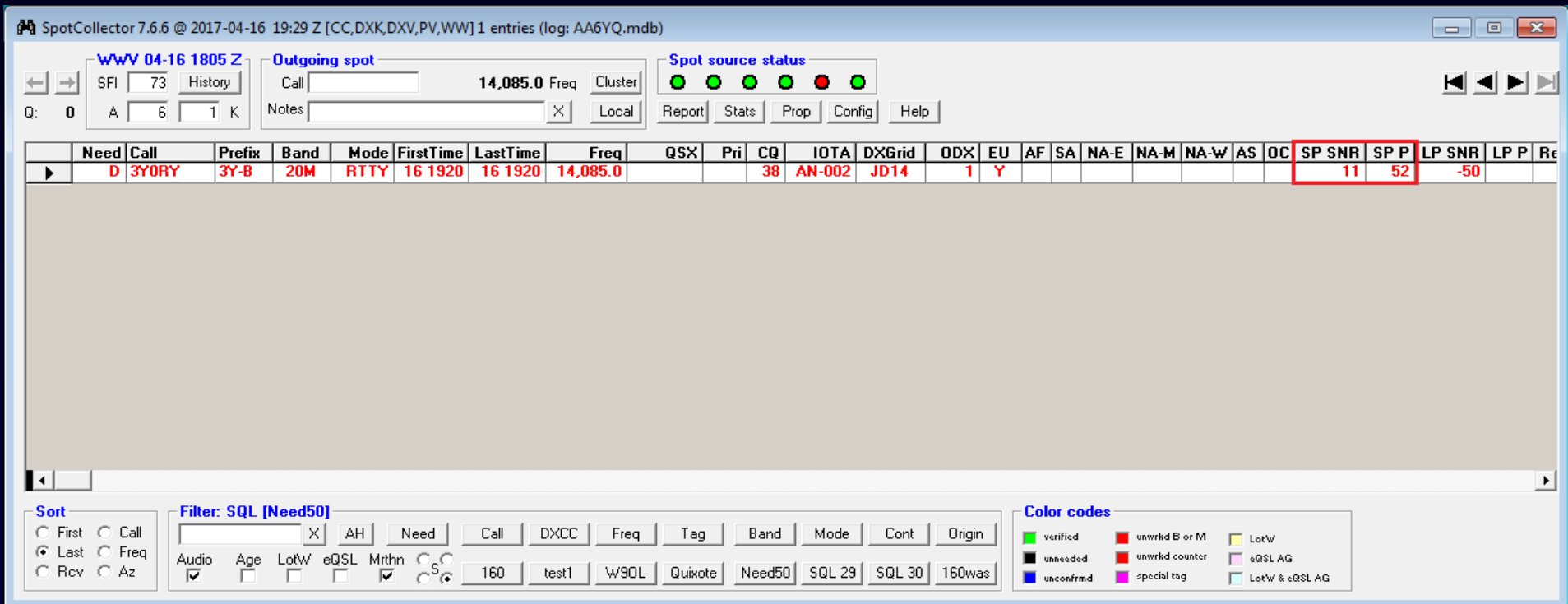
Color codes

- verified
- unconfirmed
- worked B or M
- worked counter
- special tag
- LotW
- eQSL AG
- LotW & eQSL AG

The **Need** filter focuses your attention on **needed** stations that are currently active

Tabular View of Active DX

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



The **Need filter** combined with **propagation probability** focuses your attention on **needed** stations that are **likely workable** and currently active

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)

WWV 02-02 0005 Z SFI 72 History Call 7,074.0 Freq Cluster Notes X Local Report Stats Prop Config Help

Spot source status 0

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	IZ3VBH	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							
		2	IU2EBQ	I	14,075.2	20M	FT8	01 1703	01 1842	WSJTX			15		JN45	S	0	AA6YQ				Y					-6	10	-20
		2	DJ5EJ	DL	14,075.4	20M	FT8	01 1841	01 1842	WSJTX			14		JN57	S	0	AA6YQ				Y					-10	-1	-10
		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

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



Audio/Email

Audio and Email Views of Active DX

Audio, email, and/or text message alerts can be generated when an Active DX Database Entry is created for a needed DX station

- audio announcement: callsign, “counters”, band, mode
- outgoing email message (which can initiate an outgoing 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

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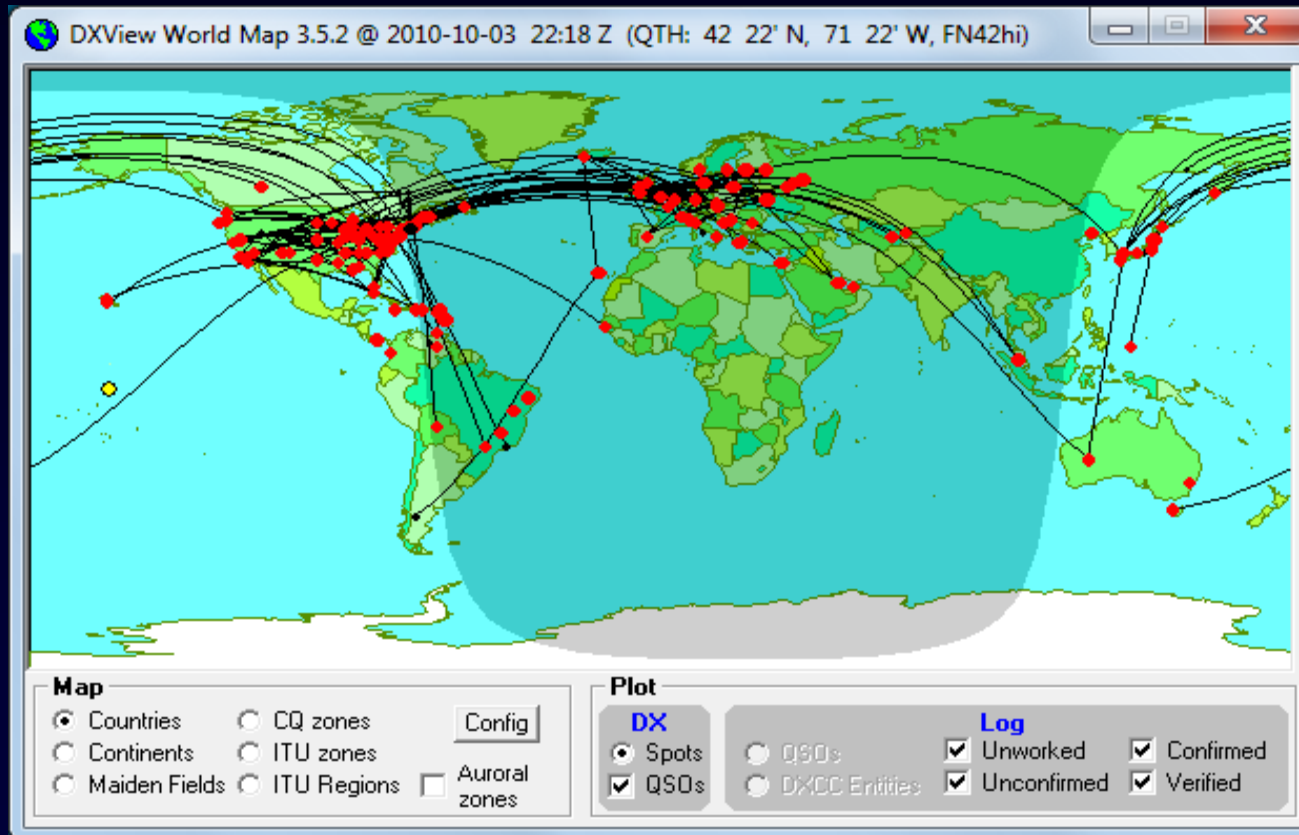
Logged
QSOs



World Map

World Map View of Active DX

“Active DX on Selected Bands”



World Map View of Active DX

Controlling the Map View

DXView Configuration

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

Selection

☐ Spots
☒ QSOs
3 Lifetime (hrs)

Log: AA6YQ.mdb

☐ QSOs
☒ Unworked
☒ Unconfirmed
☒ Confirmed
☐ DXCC Entities
☒ 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 ☐ AN ☐ ?

Origin Filter

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

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 ☐ dwell 2

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

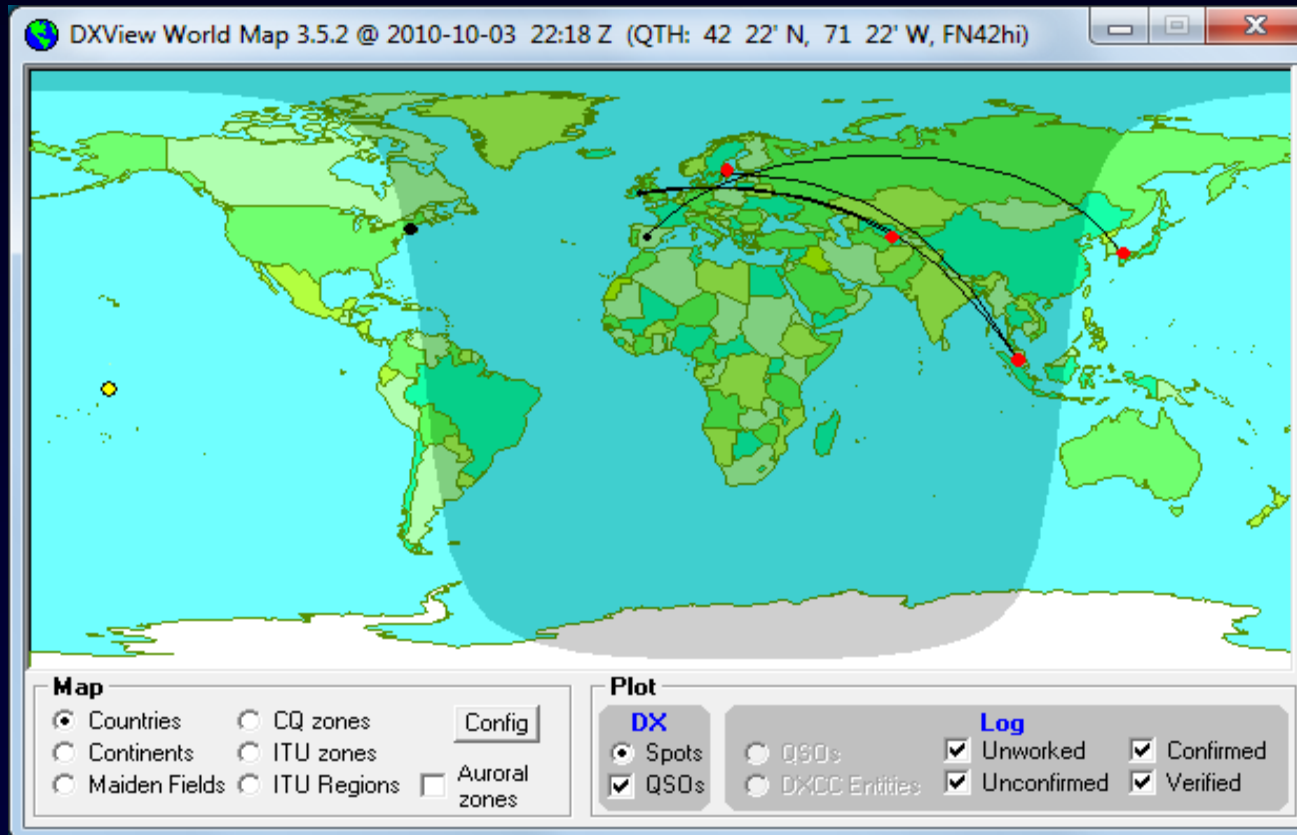
☒ NA ☒ SA ☒ EU ☒ AF ☒ AS ☒ OC ☐ ?

Origin Filter

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

World Map View of Active DX

“160m”



World Map View of Active DX

ScanDX

DXView Info 4.3.3 @ 2017-04-18 16:43:07 Z [CC,SC,PV]

Search
callsign

DXCC
prefix entity code

GeoMag
max K

Location @ 2017-04-18 16:43:07 local
latitude longitude SP DX ~ cont grid CQ ITU

DXCC database
location IOTA time zone

Heading
short long

Special Callsign Tags

3Y-B Progress (AA6YQ.mdb)

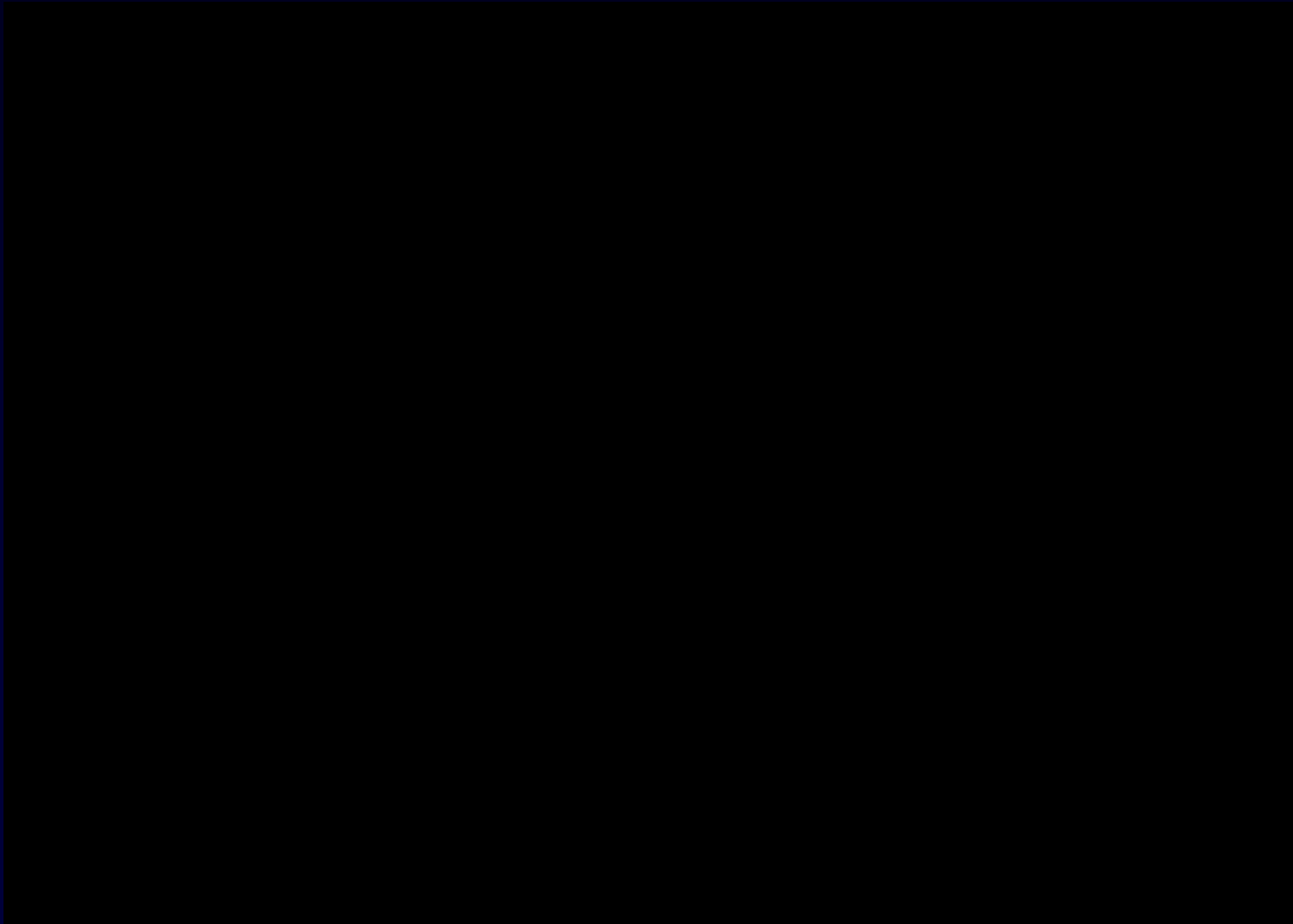
	160M	80M	40M	30M	20M	17M	15M	12M	10M	6M	2M
PHONE			V		V	V	V	V	V		
CW								V			
DIGI											
PSK											

Map

Ant

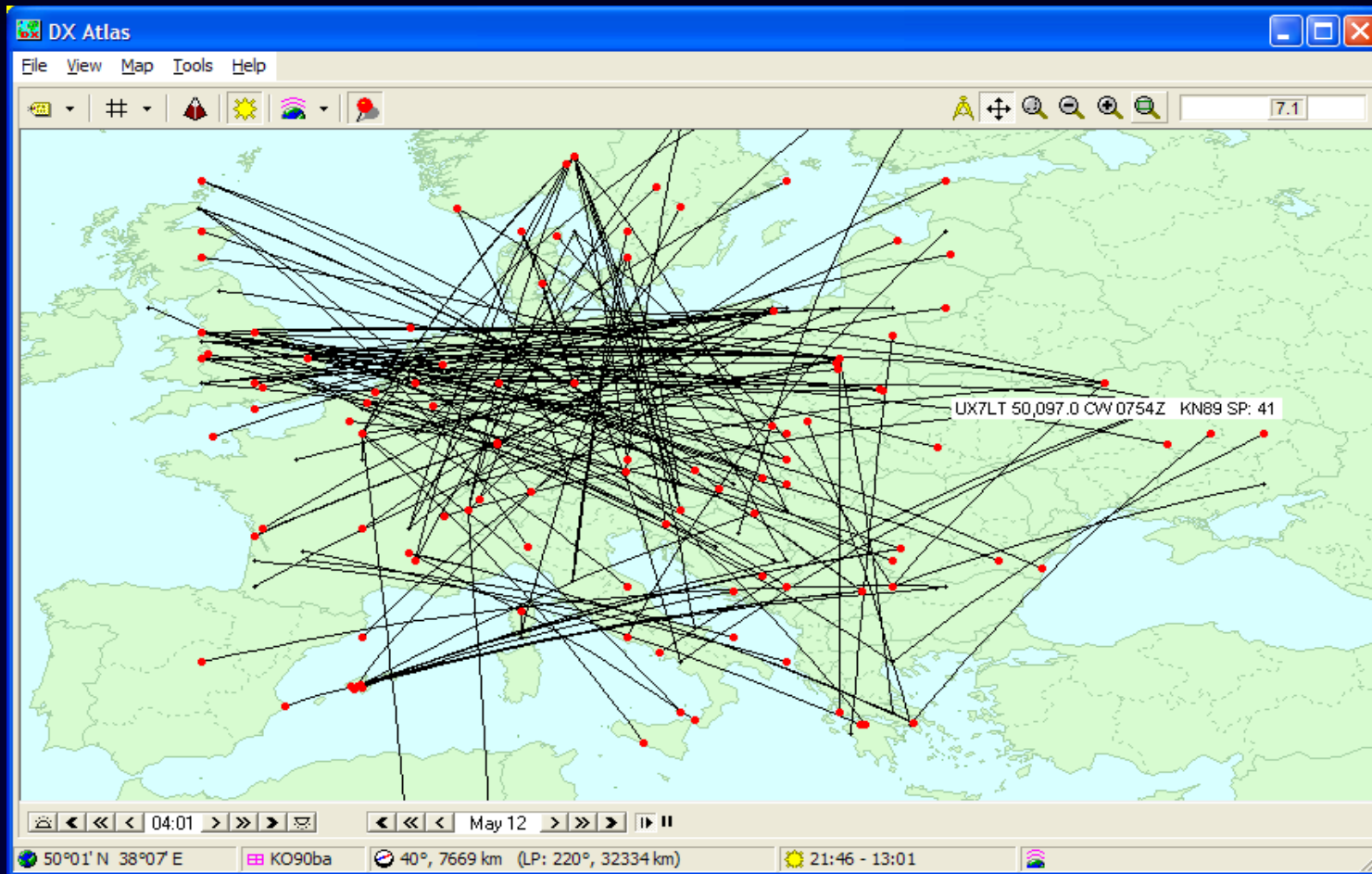
World Map View of Active DX

ScanDX



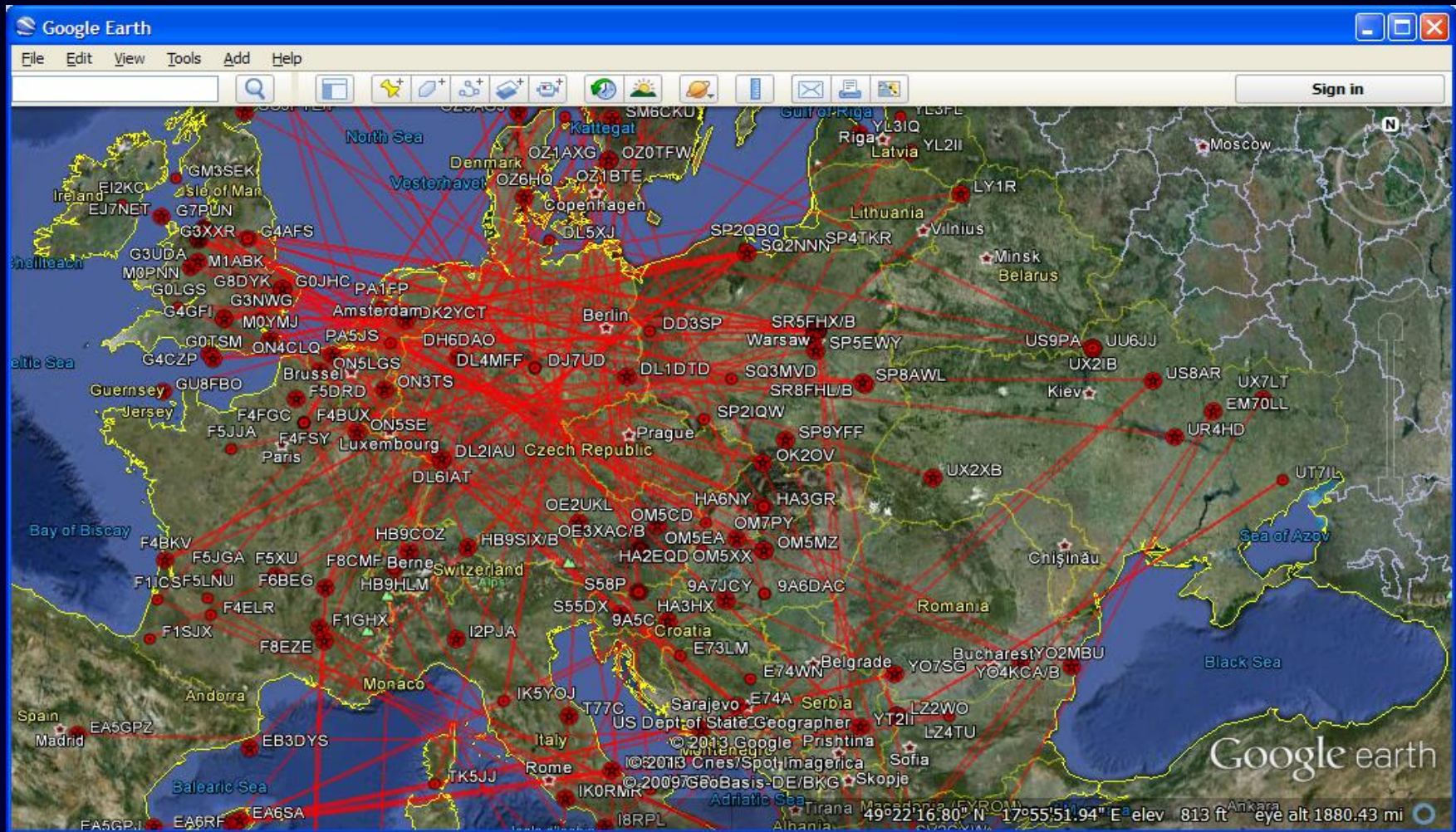
World Map View of Active DX

“6m” on DX Atlas



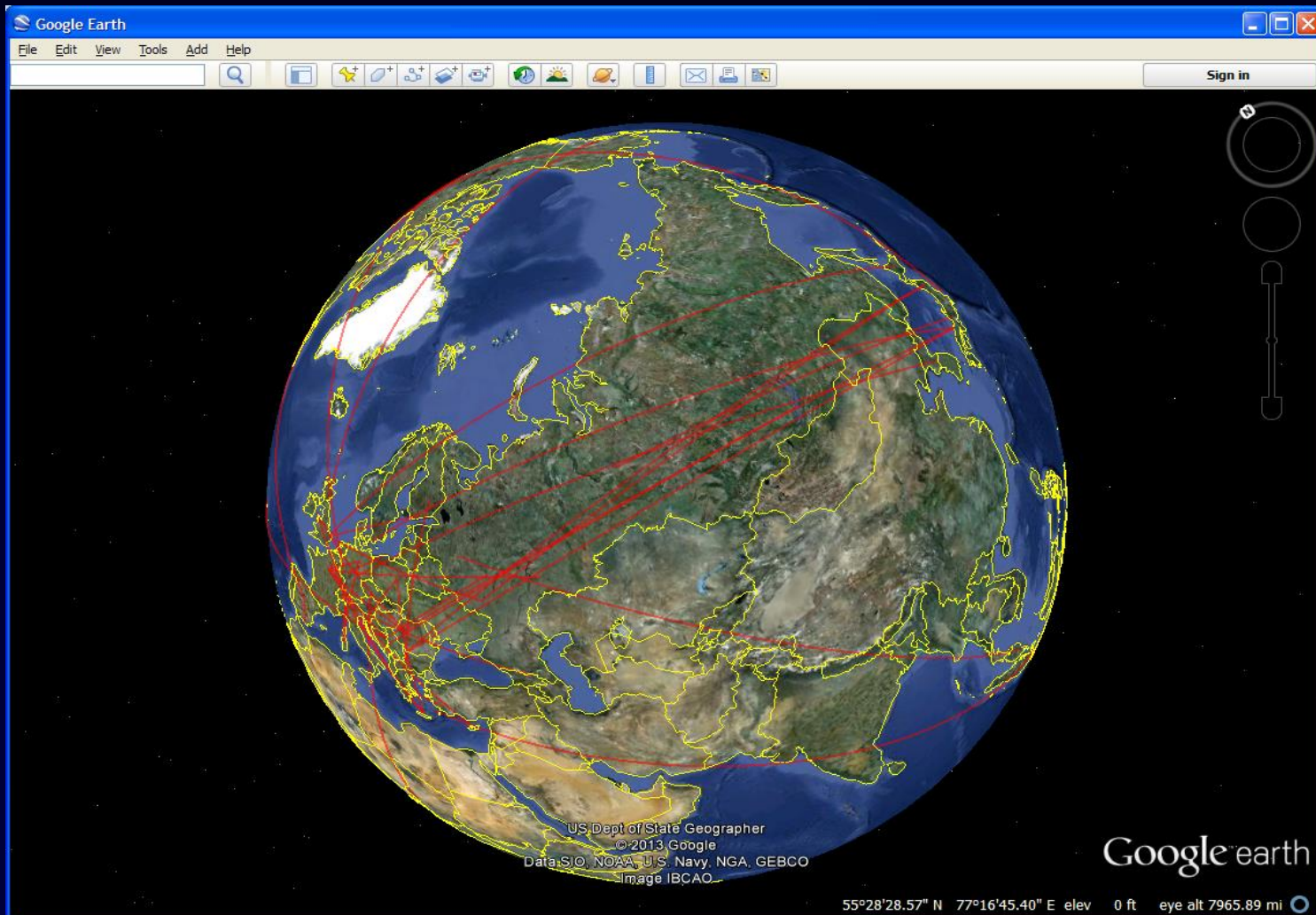
World Map View of Active DX

“6m” on Google Earth

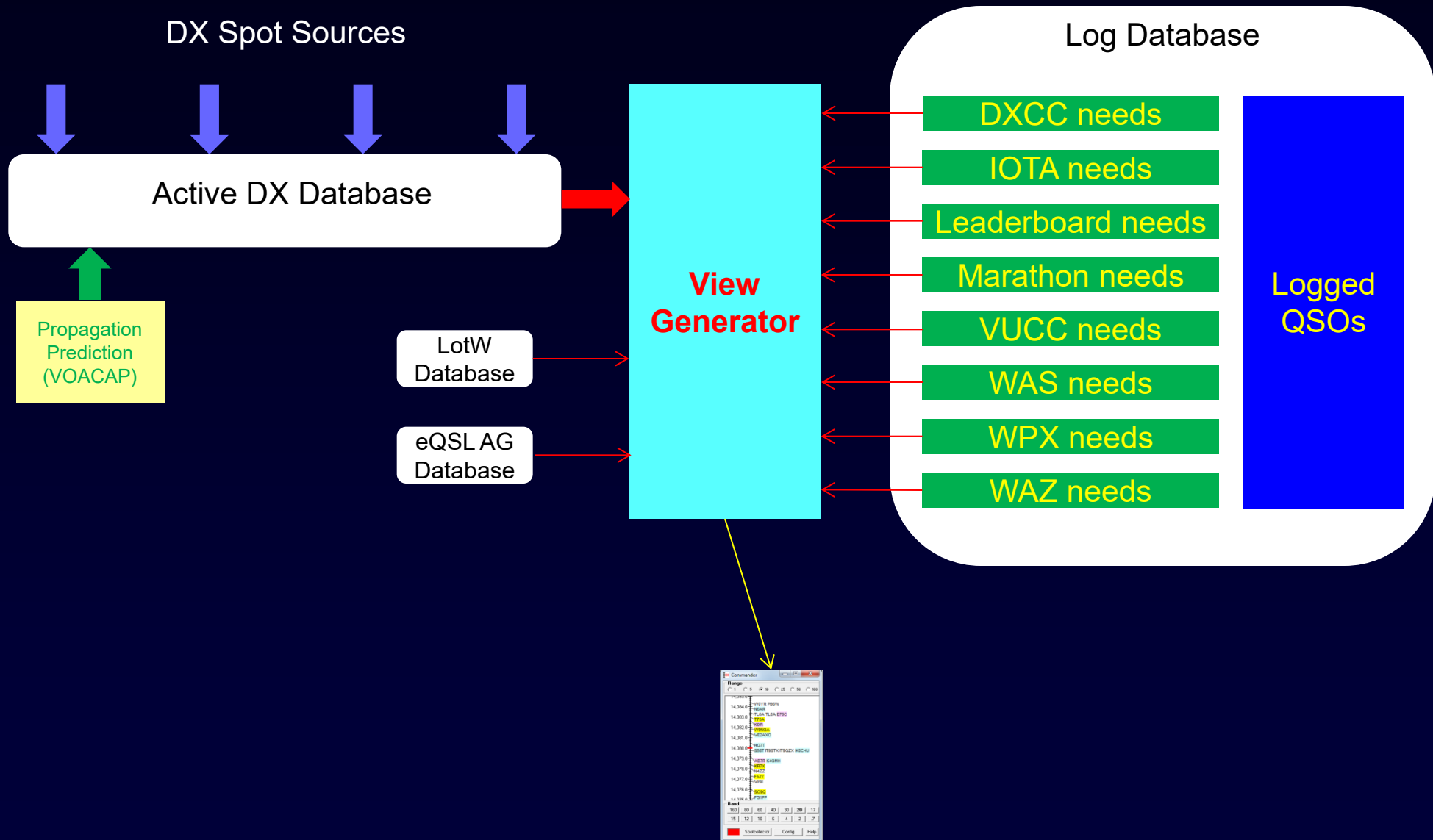


World Map View of Active DX

“12m” on Google Earth

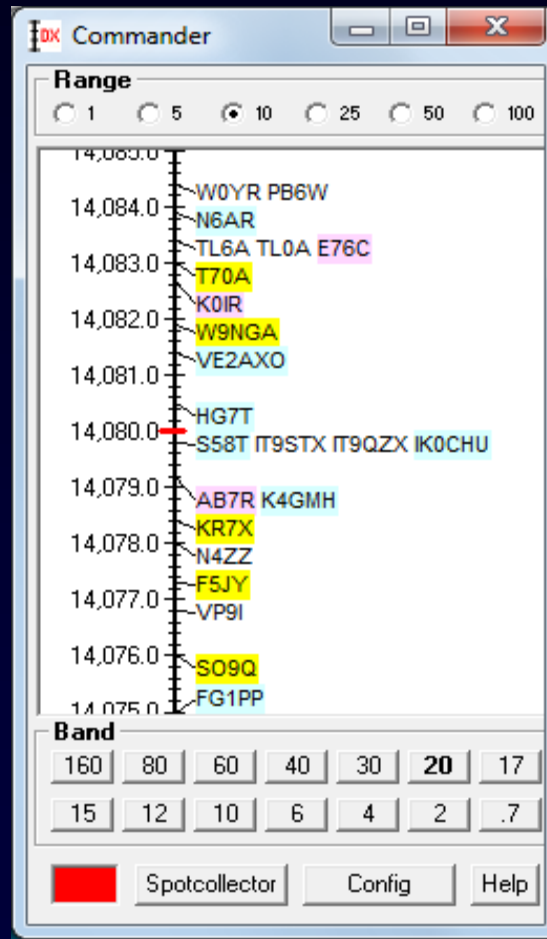


Bandspread View of Active DX



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

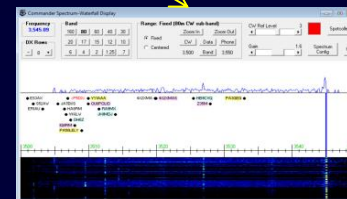
VUCC needs

WAS needs

WPX needs

WAZ needs

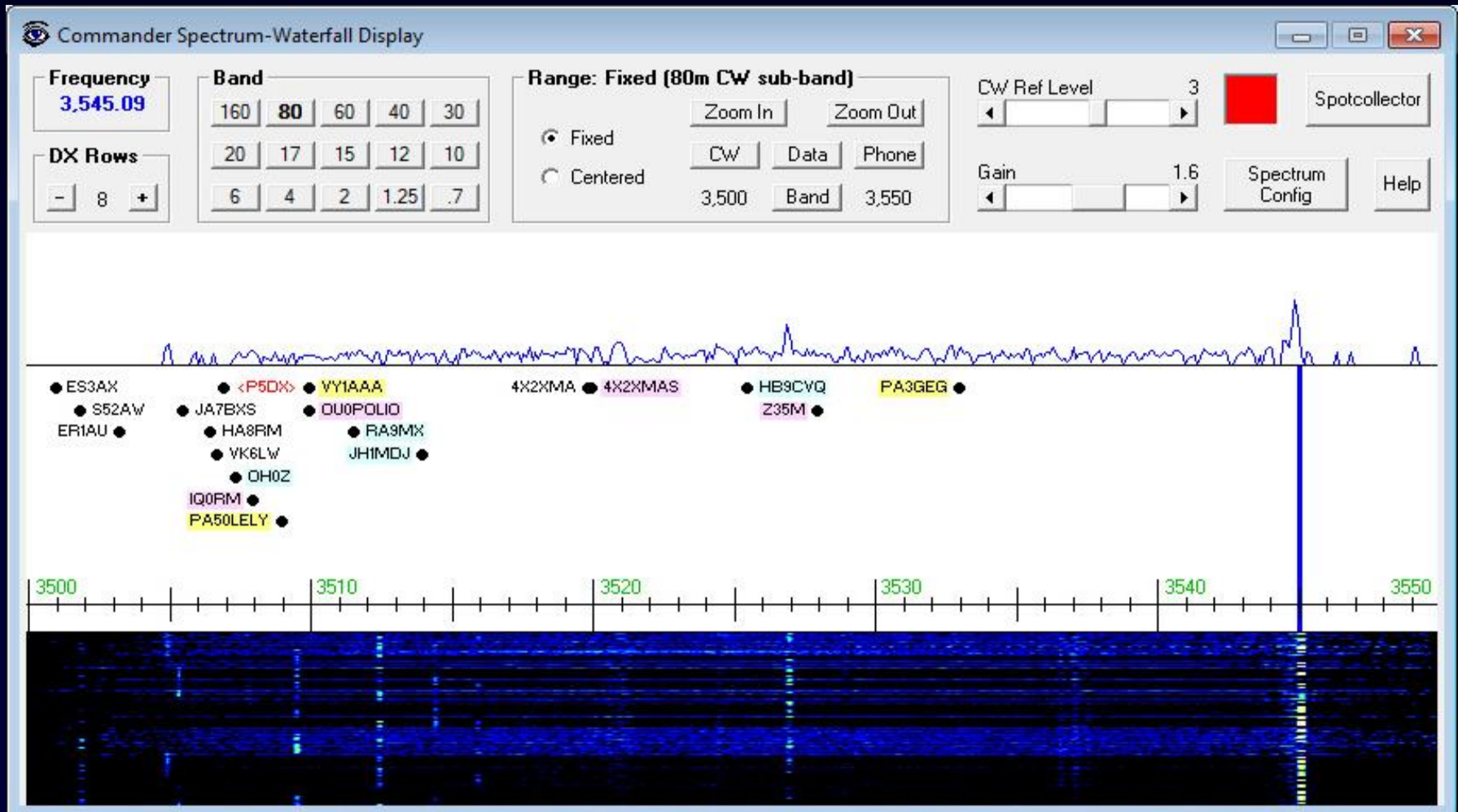
Logged
QSOs



Spectrum

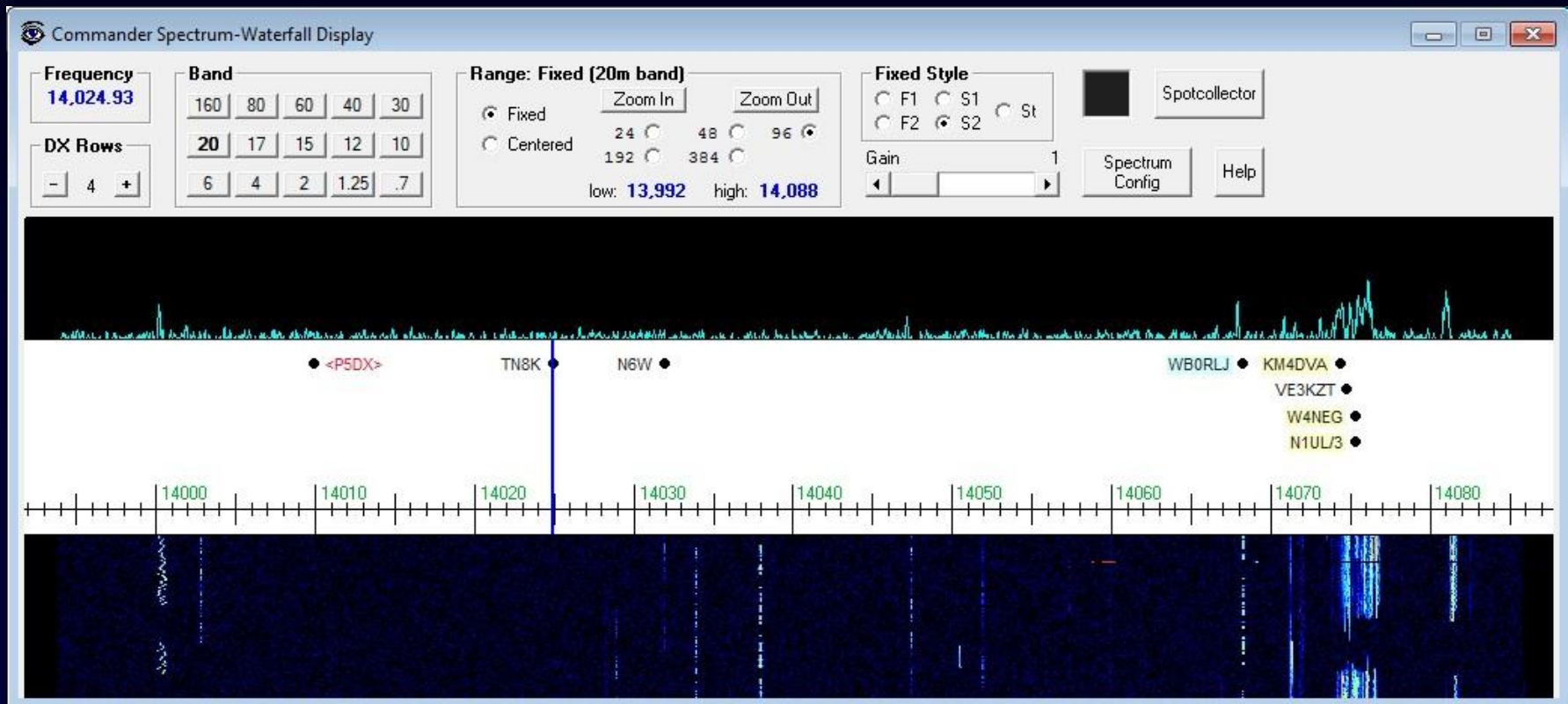
Spectrum-Waterfall View of Active DX

Icom 705, 7300, 7610, 7760, 7850, 7851, 9700



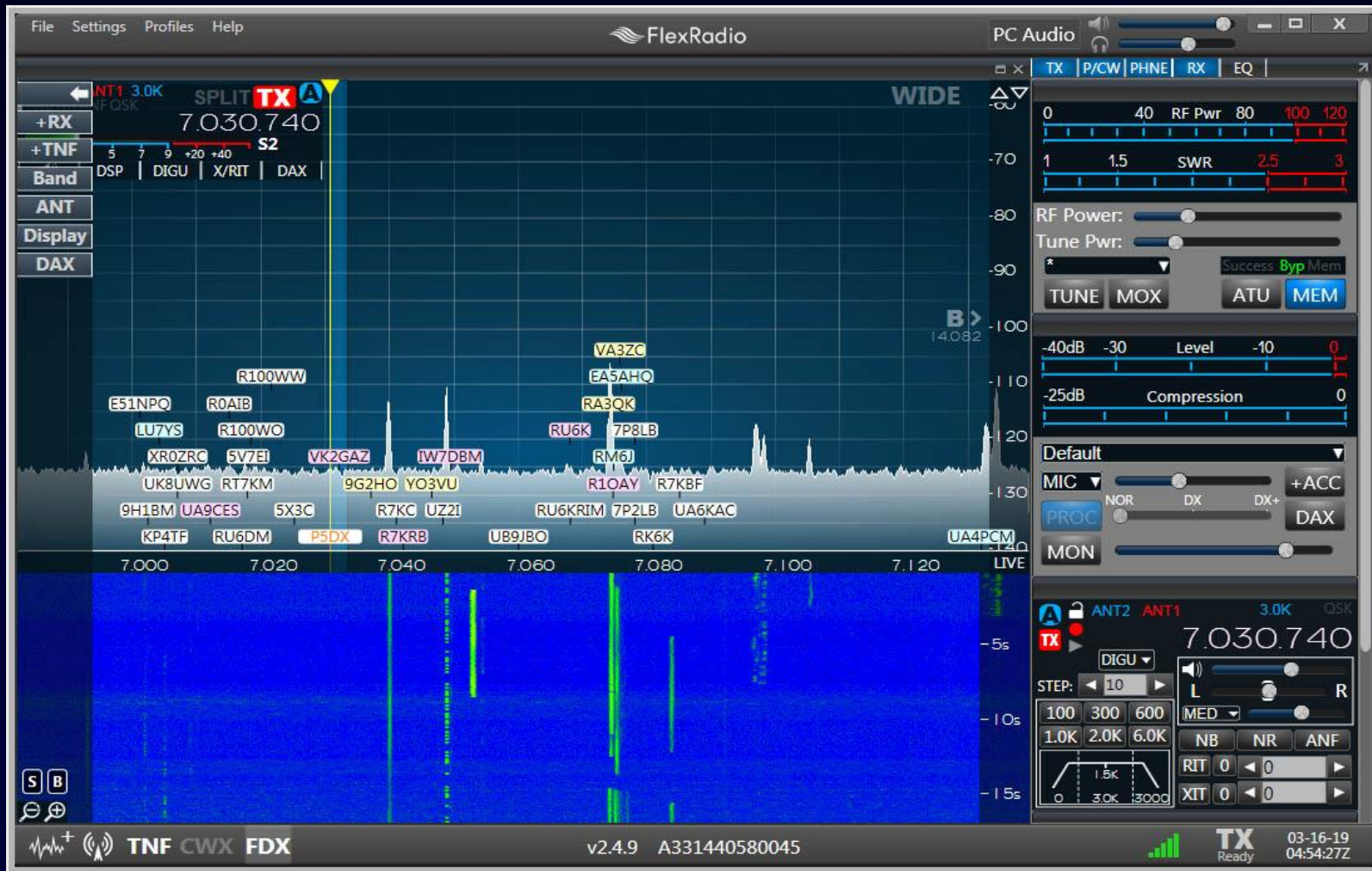
Spectrum-Waterfall View of Active DX

Elecraft K4



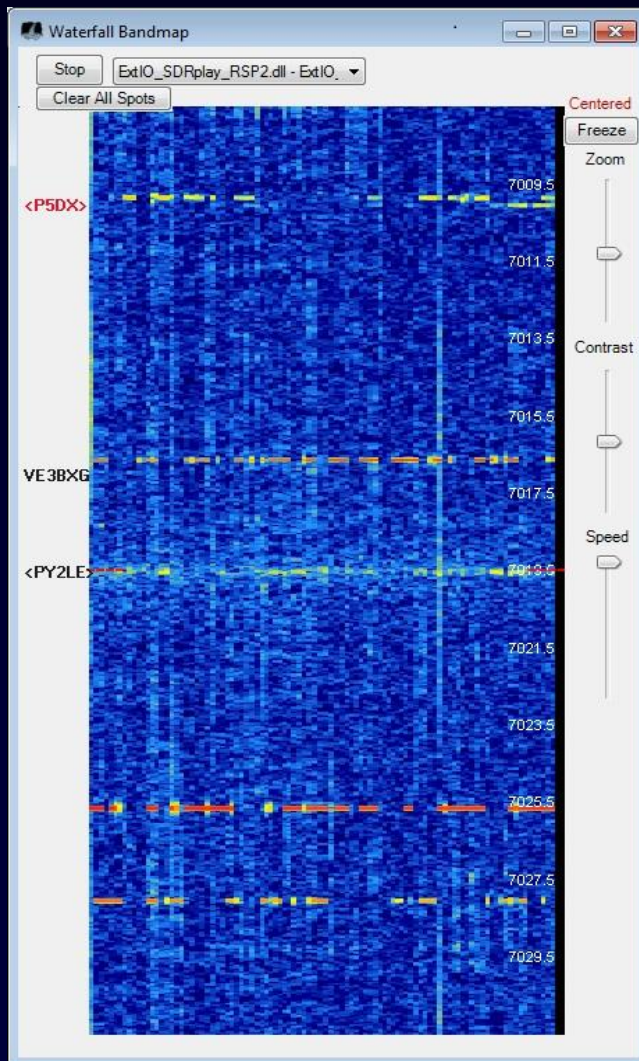
Spectrum-Waterfall View of Active DX

Flex Signature Radios



Spectrum-Waterfall View of Active DX

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

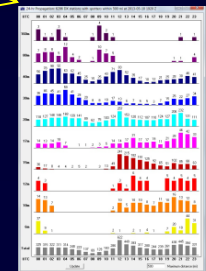
VUCC needs

WAS needs

WPX needs

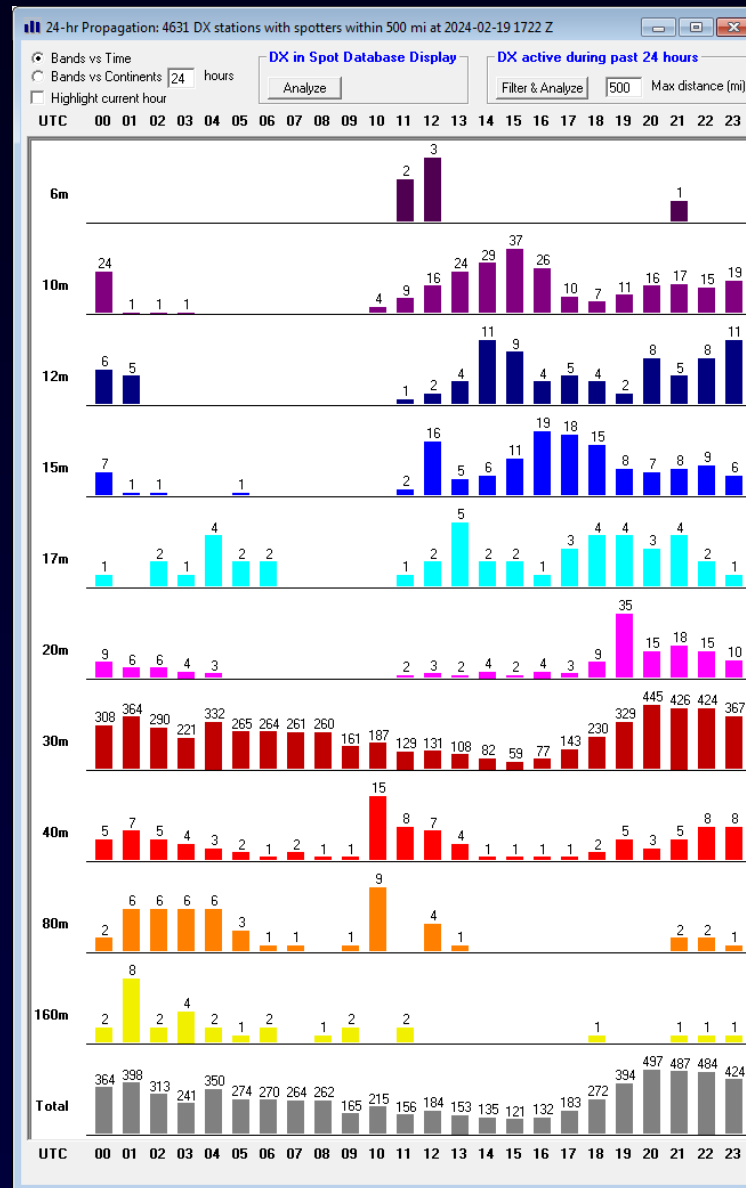
WAZ needs

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

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



WSJT-X View of Active DX

Log Database

The screenshot displays the WSJT-X v2.0.0 interface. The main window is divided into two panes: 'Band Activity' on the left and 'Rx Frequency' on the right. Both panes show a list of active stations with columns for UTC, dB, DT, Freq, and Message. The 'Band Activity' pane lists stations like CQ YV5ZV FK60, CQ EA1CDV IN80, and others. The 'Rx Frequency' pane shows a list of stations including K4ZO LY3BG KO24 and LY3BG AA6YQ -22. A red arrow points from the text 'Needed' callsigns to the 'CQ YV5ZV FK60' entry in the 'Band Activity' pane. Below the panes, there are buttons for 'Log QSO', 'Stop', 'Monitor', 'Erase', 'Decode', 'Enable Tx', 'Halt Tx', and 'Tune'. At the bottom, there is a status bar showing 'Receiving', 'IC-7800', 'FT8', 'Last Tx: LY3BG AA6YQ -22', and a progress bar. The interface also includes a 'Generate Std Msgs' section with a list of messages and a 'Tx even/1st' checkbox.

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 L22FP 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	M6JVG 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 L22FP 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

Rx Frequency

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

Needed callsigns

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

40m 7.074 000

DX Call DX Grid

LY3BG KO24

Az: 42 6682 km

Lookup Add

2019 Feb 01 01:40:44

Report -22 Auto Seq Call 1st

Generate Std Msgs

LY3BG AA6YQ FN42

LY3BG AA6YQ -22

LY3BG AA6YQ R-22

LY3BG AA6YQ RRR

LY3BG AA6YQ 73

CQ AA6YQ FN42

Next Now

Tx 1 Tx 2 Tx 3 Tx 4 Tx 5 Tx 6

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

eQSL AG
Database

View
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

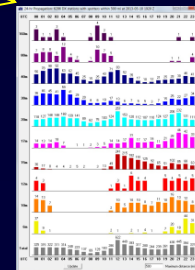
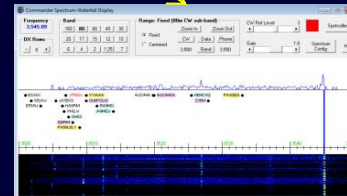
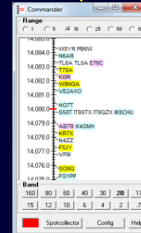
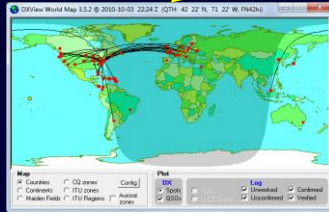
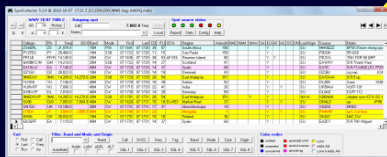
VUCC needs

WAS needs

WPX needs

WAZ needs

Logged
QSOs



Tabular

Audio/Email

World Map

Bandspread

Spectrum

Propagation

WSJT-X

DXLab: Better DXing Through Software

1. Makes time spent DXing more productive by helping you find and work the DX you **need** to achieve your objectives
 - **Alerts** you to **needed** stations that are QRV now, and likely workable
 - Analyzes activity by needed stations that are infrequently active
 - Reveals activity patterns
 - Reveals actual propagation openings
2. Automates needed QSL wrangling and award submissions to liberate more time for DXing

DXLab: Better DXing Through Software

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 - **Analyzes** activity by **needed** stations that are infrequently active
 - Reveals activity patterns
 - Reveals actual propagation openings
2. Automates needed QSL wrangling and award submissions to liberate more time for DXing

Finding and Working Needed DX

My DXing Objectives: DXCC, VUCC, WAS, WAZ

The image shows the DXKeeper Configuration window, specifically the Awards tab. The window is divided into several sections for configuring different awards. Red boxes highlight specific settings: DXCC Bands & Modes (160M, 80M, 40M, 30M, 20M, 17M, 15M, 12M, 10M, 6M), DXCC Submission (Submit deleted entities, 75 Record Sheet lines/page), DXCC Credits (Credit-only QSO creation), VUCC Bands & Modes (6M), WAS Bands & Modes (160M, 6M), and WAZ Bands & Modes (5-band WAZ).

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 VHF
☒ 40M ☒ Digital
☒ 30M
☒ 20M FT8
☒ 17M User-specified digital mode family
☒ 15M ☒ FT8
☒ 12M
☒ 10M
☒ 6M
☐ 2M ☐ QRP

☒ Hide unworked in progress rpt

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

Marathon Bands & Modes

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

WAS Bands & Modes

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

☒ Realtime Award Progress

WAZ Bands & Modes

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

☒ 5-band WAZ
☒ Realtime Award Progress

Finding and Working Needed DX

I'm also pursuing all DXCC Entities in FT8

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

General Settings:

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

☒ Hide unworked in progress rpt

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

Marathon Bands & Modes:

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

WUCC Bands & Modes:

- ☒ 6M
- ☐ 2M
- ☐ 1.25M
- ☐ 70 CM
- ☐ 33 CM
- ☐ 23 CM
- ☐ 13 CM and up
- ☐ Satellite
- ☒ Realtime Award Progress

WAS Bands & Modes:

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

WPX Bands & Modes:

- ☐ 160M
- ☐ 80M
- ☐ 60M
- ☐ 40M
- ☐ 30M
- ☐ 20M
- ☐ 17M
- ☐ 15M
- ☐ 12M
- ☐ 10M
- ☐ 6M
- ☐ SSB
- ☐ CW
- ☐ Digital
- ☐ Mixed
- ☐ Realtime Award Progress

IOTA:

- ☐ IOTAmer4win 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	☐	☐	☐	☐	☐	☐	☐
160M	☐	☐	☐	☐	☐	☐	☐
80M	☐	☐	☐	☐	☐	☐	☐
40M	☐	☐	☐	☐	☐	☐	☐
30M	☐	☐	☐	☐	☐	☐	☐
20M	☐	☐	☐	☐	☐	☐	☐
17M	☐	☐	☐	☐	☐	☐	☐
15M	☐	☐	☐	☐	☐	☐	☐
12M	☐	☐	☐	☐	☐	☐	☐
10M	☐	☐	☐	☐	☐	☐	☐
6M	☐	☐	☐	☐	☐	☐	☐

- ☒ 5-band WAZ
- ☒ Realtime Award Progress

Buttons: QSL Config, Help

What is QRV that I Need?

Interesting Targets

- 3W
- 5W
- 9M8
- 9N
- BA
- EP2LMA
- KH3O
- VP8-H
- VR
- XV
- XW
- YB
- ZC4

Almost All FT8 !

Finding and Working Needed DX

What is QRV in other than FT8 that I Need?



The image shows a 'SpotCollector Mode Filter' dialog box with a grid of checkboxes for various radio modes. The 'FT8' checkbox is highlighted with a green box. At the bottom, there are 'None' and 'All' buttons.

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

None All

Finding and Working Needed DX

What is QRV in other than FT8 that I Need?



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							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

- Stations on 160m and 80m
 - EZ1WS not valid for DXCC
 - VK100AF is in SSB, and is only needed for WAZ
 - The rest were spotted after my 1030Z sunrise

What is QRV that I Need?

Interesting Targets

- 3W
- 5W
- 9M8
- 9N
- BA
- EP2LMA
- KH3O
- VP8-H
- VR
- XV
- XW
- YB
- ZC4

Almost All FT8 !

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	not worked, sought

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	

WFX

Leaderboard

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

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	
ZC4	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V	V
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

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

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 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
Spot source status: pre-filtered

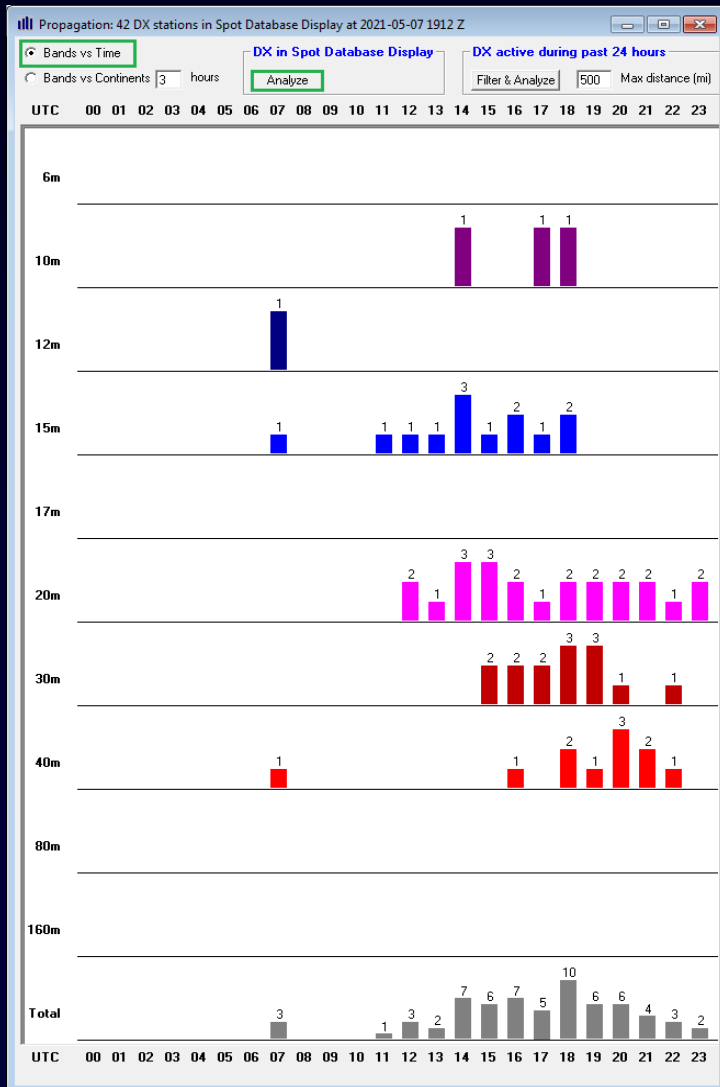
Notes Local Report Stats Prop Config Help

	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						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

SFI 76 History

Q: 0 A 4 0 K

Outgoing spot

Call TA2EE 7,074.0 Freq Cluster

Notes Local Report State Prop Config Help

Spot source status: pre-filtered

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	

Sort

First Call Last Freq Rcv Az

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

Audio Age LoTW eQSL Mtrn C S C

DX160 DX80 DX40 DX30 DX20 DX17 DX15 DX6 X

Color codes

verified unverified unconfirmed world B or M world counter special tag LoTW eQSL AG LoTW & eQSL AG

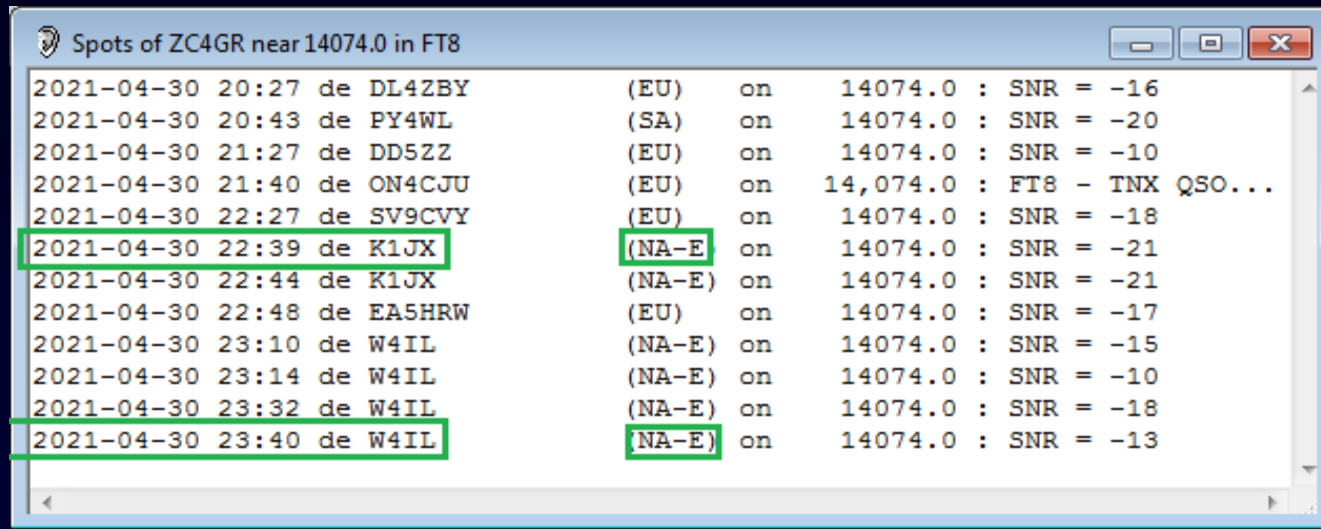
20m ZC4GR Spots on 4/23 @ 1229Z

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 EA5IJZJ 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 K2SFP	(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 SQ6ELV	(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

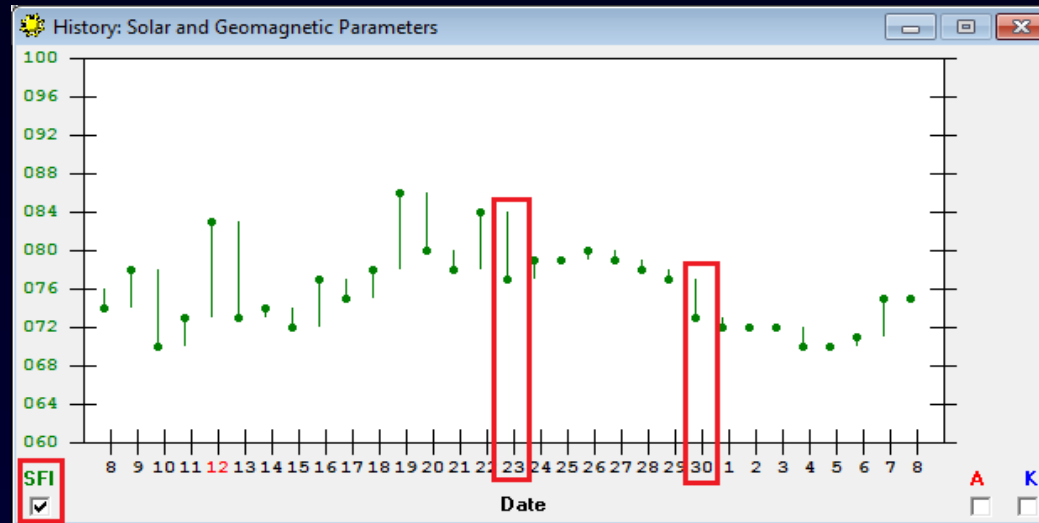


Spots of ZC4GR near 14074.0 in FT8

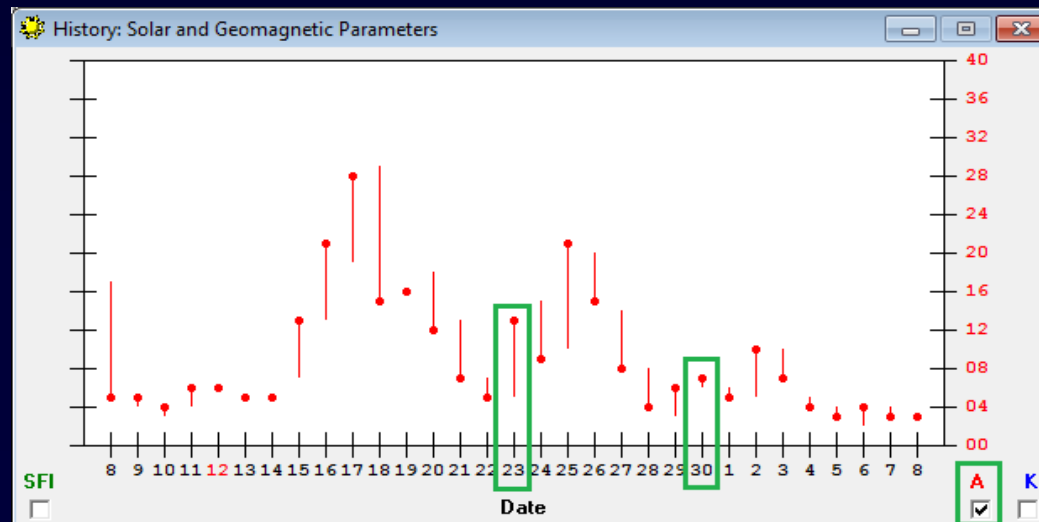
2021-04-30	20:27	de	DL4ZBY	(EU)	on	14074.0	: SNR = -16
2021-04-30	20:43	de	PY4WL	(SA)	on	14074.0	: SNR = -20
2021-04-30	21:27	de	DD5ZZ	(EU)	on	14074.0	: SNR = -10
2021-04-30	21:40	de	ON4CJU	(EU)	on	14,074.0	: FT8 - TNX QSO...
2021-04-30	22:27	de	SV9CVY	(EU)	on	14074.0	: SNR = -18
2021-04-30	22:39	de	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

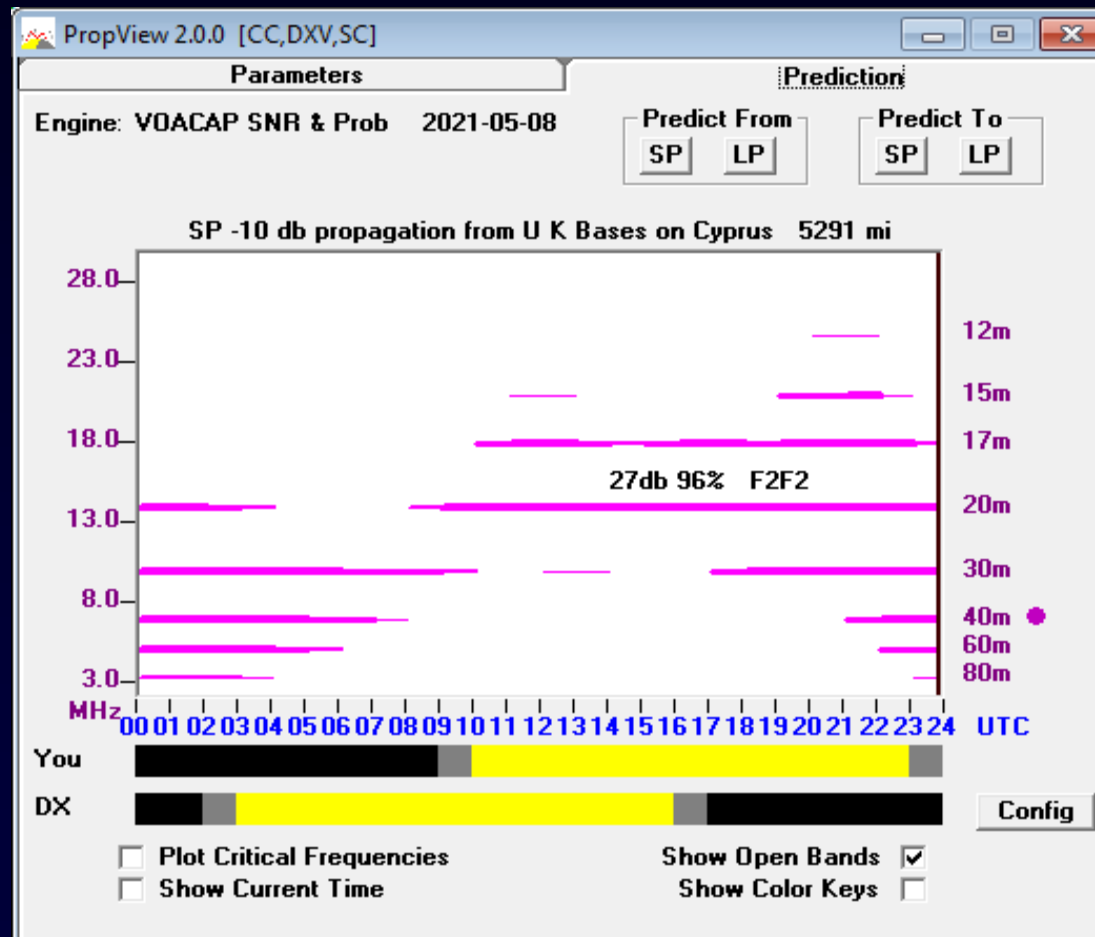
QTH-DX Gray-line (GL) Paths

Date	Sunrise GL Start	Sunrise GL End	Sunset GL Start	Sunset GL End
------	------------------	----------------	-----------------	---------------

None!

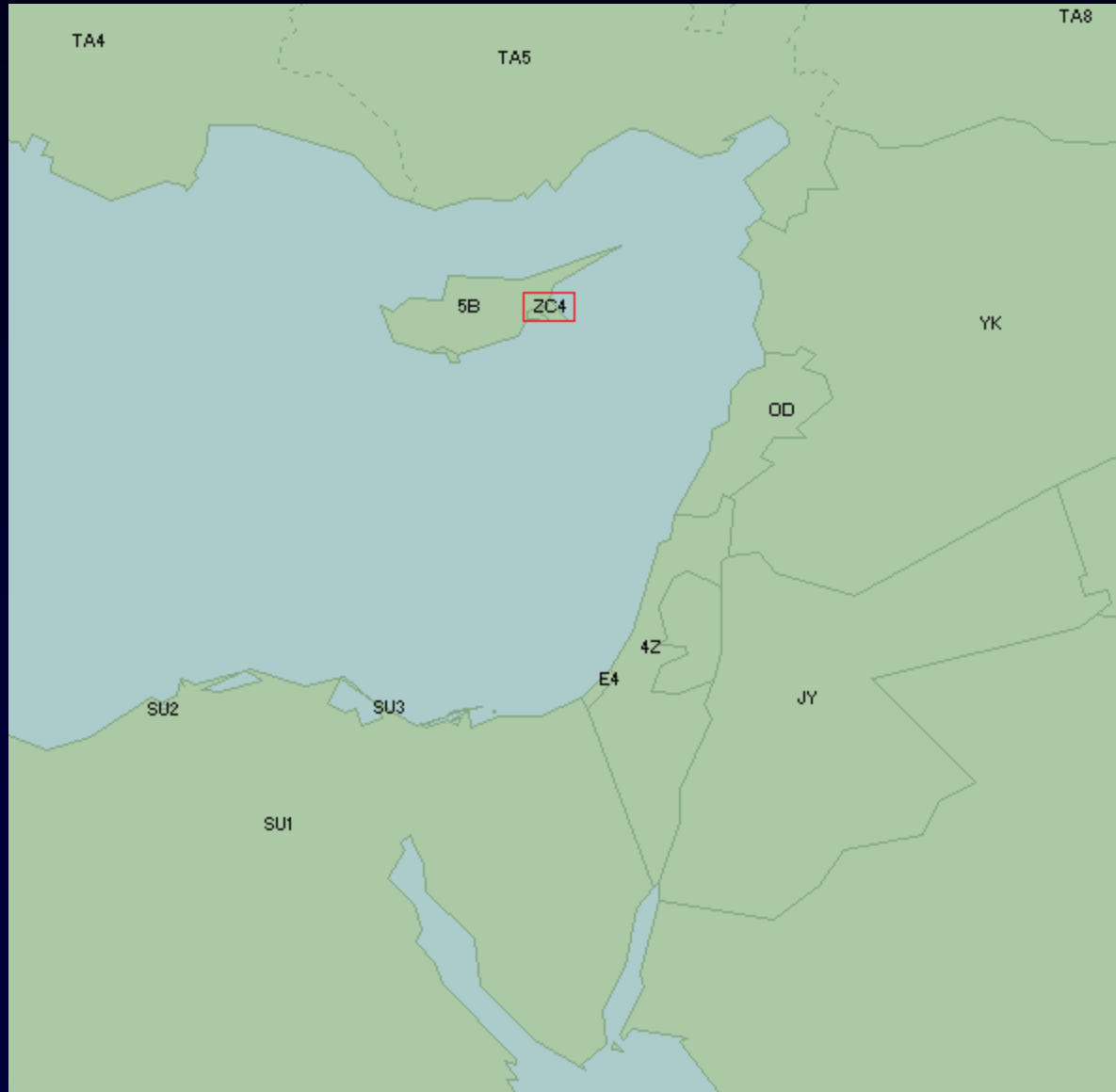
20m Propagation Forecast to ZC4

Solar Flux Index = 75, DX running 100 watts



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

Check “Actual” Propagation



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

Octant

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

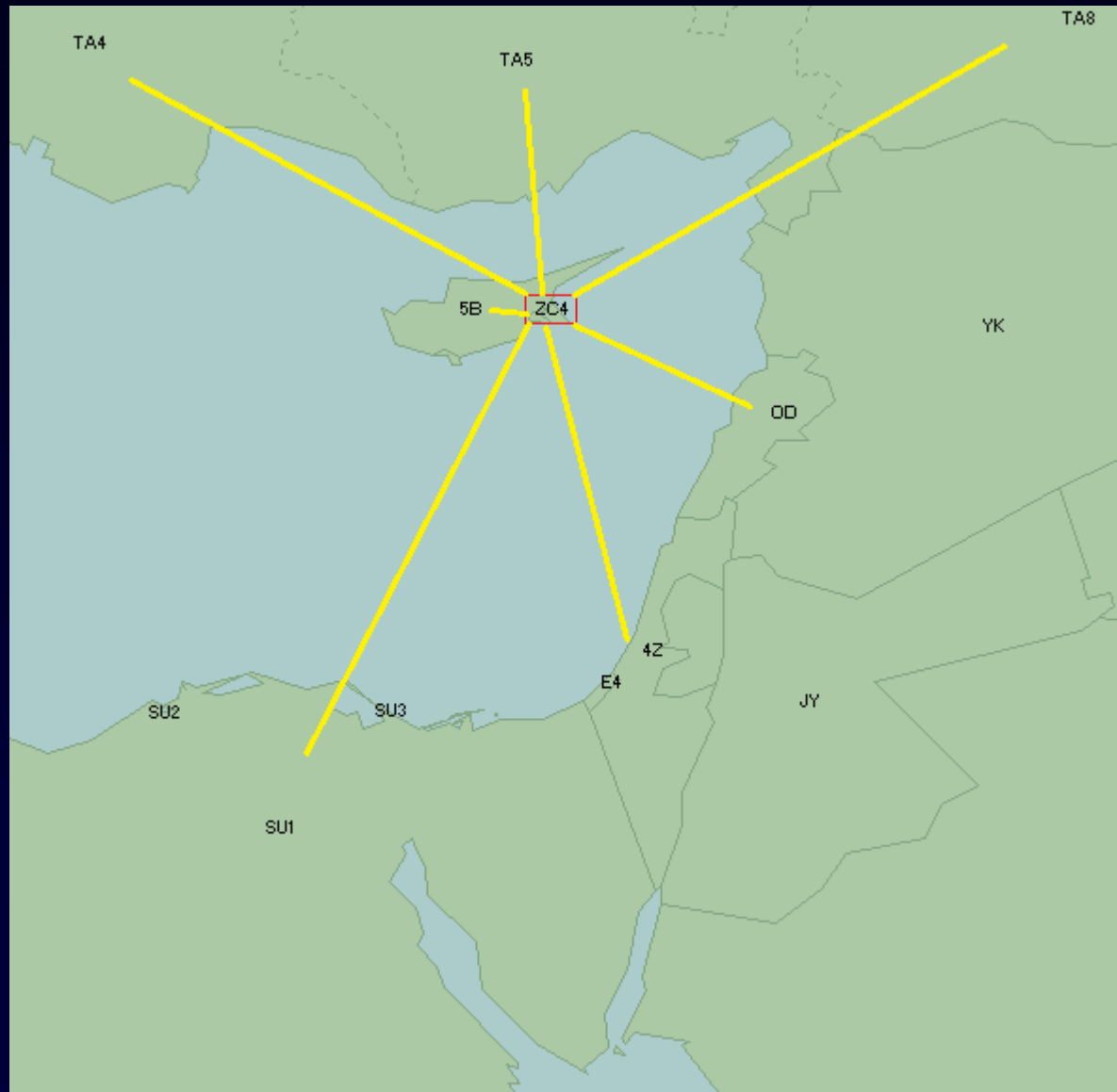
Transceiver

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

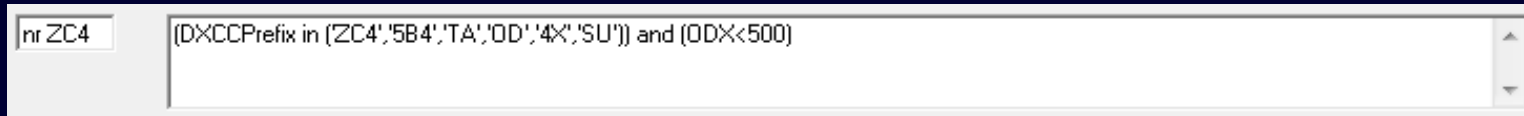


Check “Actual” Propagation

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 1 K Notes X Local Report State Prop Config Help

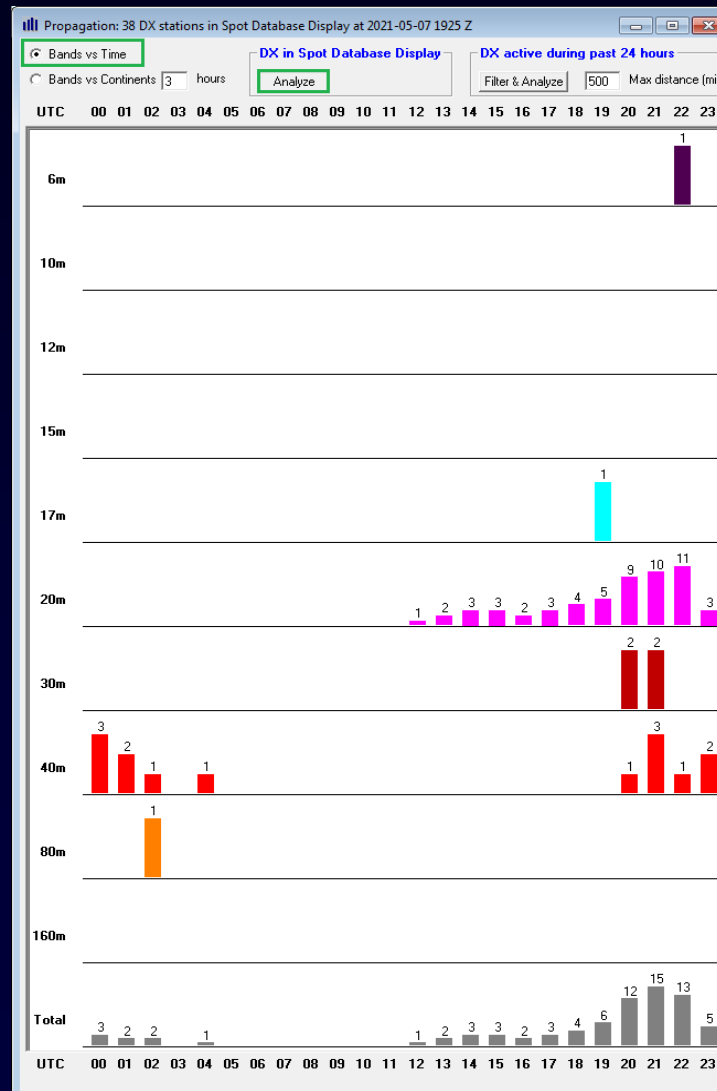
	Need	Call	Prefix	RegCode	First	Last	Mode	Band	Freq	QSQ	CQ	Pri	EU	AF	SA	NA-E	NA-M	NA-W	AS	OC	ODX	S Min	S Max	S Last	SP S	SP P	LP S	LP P
		D ZC4GR	ZC4		04 23 1229	2136	FT8	20M	14,074.0		20		Y			Y			Y		0	-24	-11	-13	26	96	-68	
		D ZC4GR	ZC4		04 30 2027	2342	FT8	20M	14,074.0		20		Y		Y	Y					86				29	97	-49	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] 4X5VU

Sort: First, Last, Rcv, Call, Freq, 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”

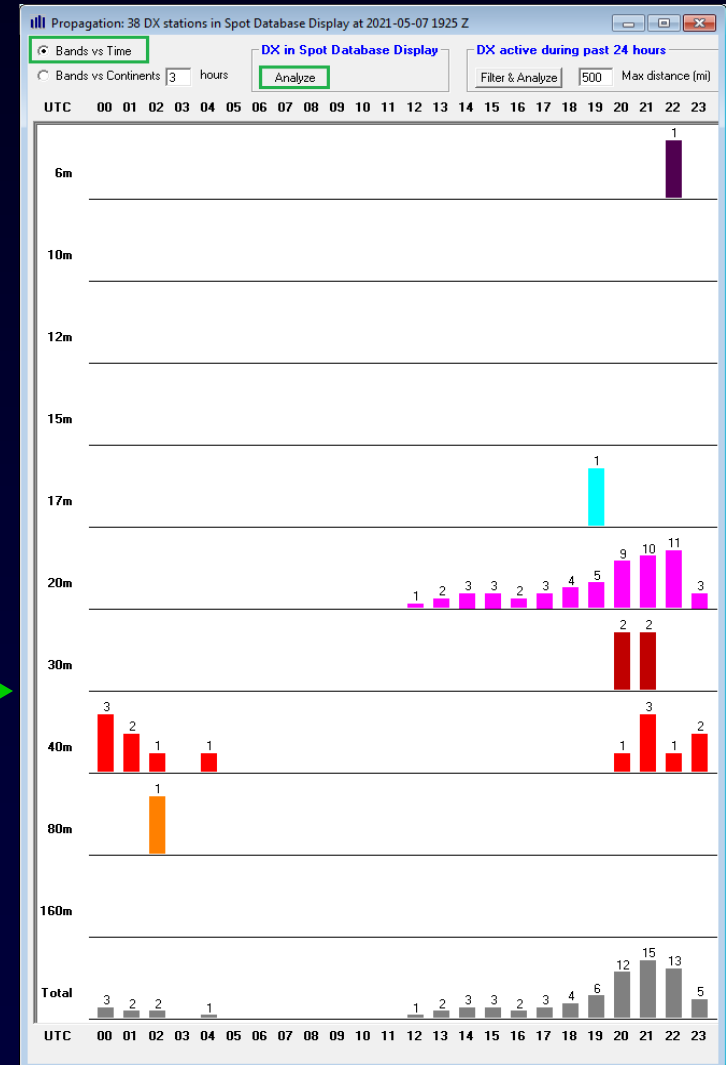
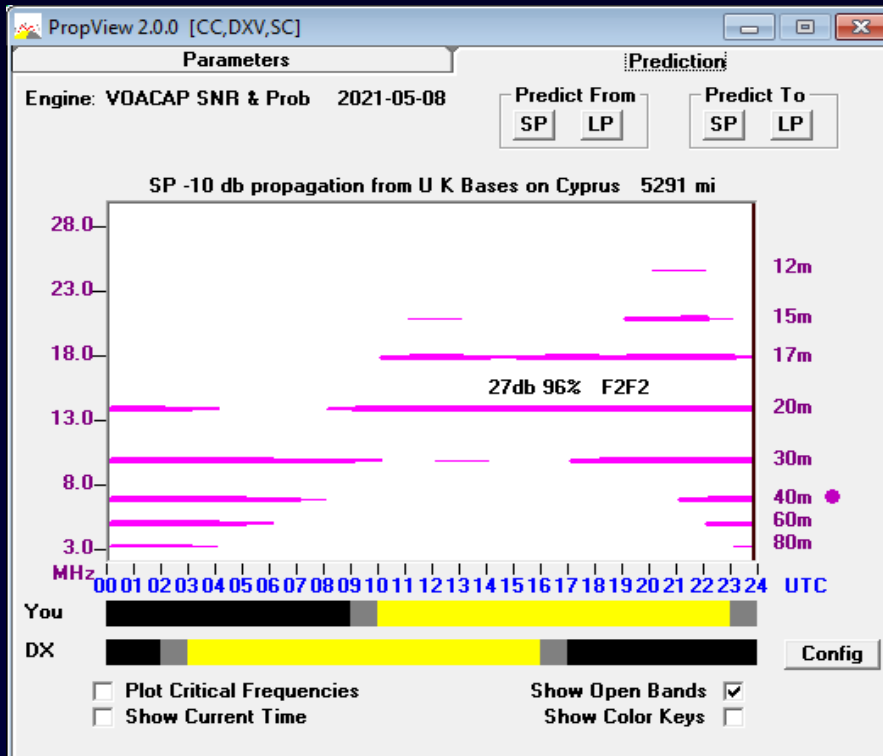


Propagation Openings?

- 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

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

1. Monitor the 20m FT8 sub-band from 12Z to 23Z, especially
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ZC4GR: The Plan

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Multiple Views of Active DX

DX Spot Sources

EU

Active DX Database

Propagation
Prediction
(VOACAP)

LotW
Database

eQSL AG
Database

View
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

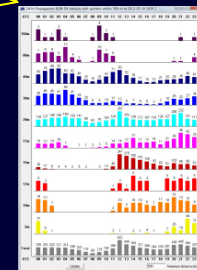
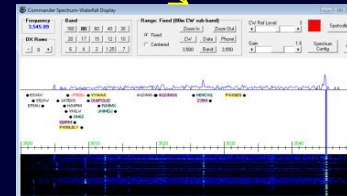
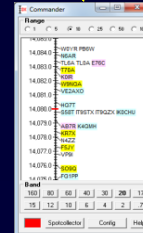
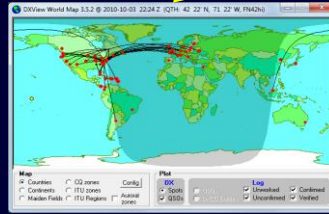
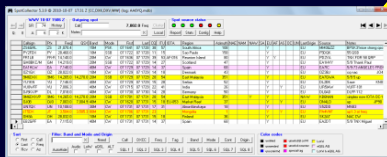
VUCC needs

WAS needs

WPX needs

WAZ needs

Logged
QSOs



Tabular

Audio/Email

World Map

Bandspread

Spectrum

Propagation

WSJT-X

ZC4GR: The Plan

When QRV?

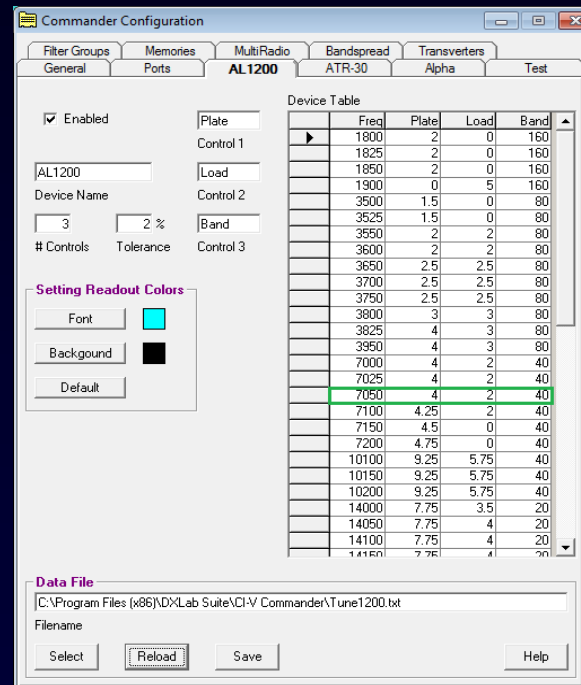
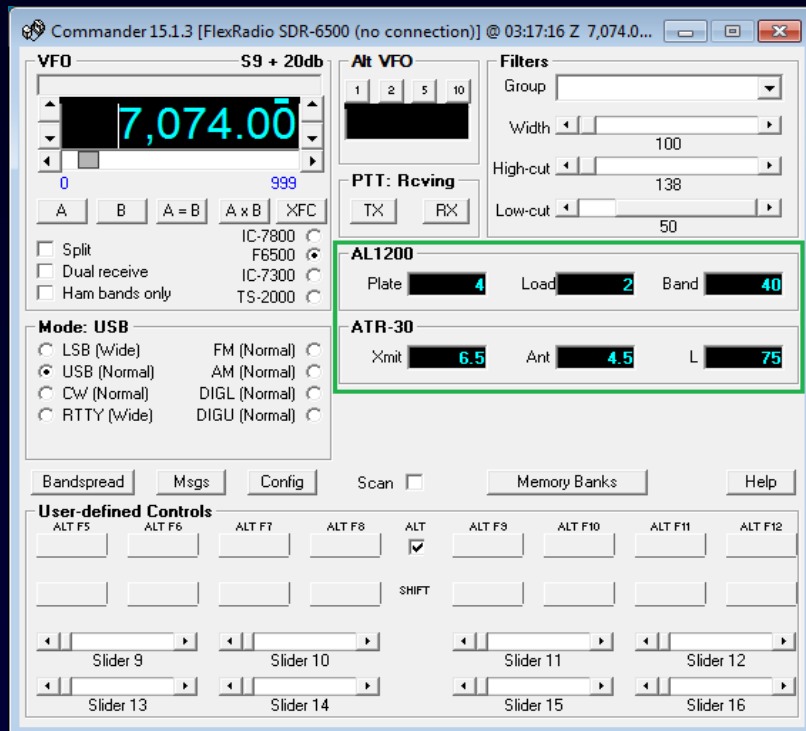
- 15m: 11Z to 18Z
- 20m: 12Z to 23Z
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Propagation Openings?

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Rapidly Setup Amplifier After QSY



ZC4GR: The Plan

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- 40m: 16Z to 21Z

Propagation Openings?

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ZC4GR: Success!

20m FT8 @20:12Z

Spots of ZC4GR near 14076.2 in FT8				
2021-08-14	20:12	de AA6YQ	(NA-E) on	14076.2 : CQ from KM65
2021-08-14	20:15	de IZ4UFQ	(EU) on	14074.0 : ZC4GR called by IZ4UFQ reported SNR = -10
2021-08-14	20:18	de AA6YQ	(NA-E) on	14076.2 : calling YL2SW with SNR = +04
2021-08-14	20:18	de AA6YQ	(NA-E) on	14076.2 : calling YL2SW with RR73
2021-08-14	20:19	de AA6YQ	(NA-E) on	14076.2 : calling JK1OZS with RR73
2021-08-14	20:20	de DL4DW	(EU) on	14074.0 : ZC4GR called by DL4DW reported SNR = -20
2021-08-14	20:26	de DL8AKI	(EU) on	14074.0 : ZC4GR called by DL8AKI reported SNR = -05
2021-08-14	20:27	de AA6YQ	(NA-E) on	14076.2 : calling DL8AKI with RR73
2021-08-14	20:29	de F4CQR	(EU) on	14074.0 : ZC4GR called by F4CQR reported SNR = -14
2021-08-14	20:29	de AA6YQ	(NA-E) on	14076.2 : calling KZ9DX with SNR = -12
2021-08-14	20:31	de AA6YQ	(NA-E) on	14076.2 : calling WA9WUD with SNR = -14
2021-08-14	20:34	de AA6YQ	(NA-E) on	14076.2 : calling AA6YQ with SNR = -02
2021-08-14	20:34	de AA6YQ	(NA-E) on	14076.2 : calling AA6YQ with RR73
2021-08-14	20:35	de AA6YQ	(NA-E) on	14076.2 : calling KZ9DX with SNR = -09
2021-08-14	20:39	de AA6YQ	(NA-E) on	14076.2 : calling UA9AAE with SNR = -06
2021-08-14	20:48	de AA6YQ	(NA-E) on	14076.2 : calling OK1EK with SNR = +24
2021-08-14	20:48	de OK1EK	(EU) on	14074.0 : ZC4GR called by OK1EK reported SNR = +00
2021-08-14	20:50	de AA6YQ	(NA-E) on	14076.2 : calling CT1BWU with SNR = +05
2021-08-14	20:51	de CT1BWU	(EU) on	14074.0 : ZC4GR called by CT1BWU reported SNR = -22
2021-08-14	20:51	de AA6YQ	(NA-E) on	14076.2 : calling CT1BWU with RR73
2021-08-14	20:52	de AA6YQ	(NA-E) on	14076.2 : calling PY3DXM with SNR = -08
2021-08-14	20:53	de AA6YQ	(NA-E) on	14076.2 : CQ from KM65
2021-08-14	20:54	de CT1BWU	(EU) on	14,074.0 : All ok in Log 73.
2021-08-14	20:54	de AA6YQ	(NA-E) on	14076.2 : calling DL9QB with SNR = +11
2021-08-14	20:55	de DL9QB	(EU) on	14074.0 : ZC4GR called by DL9QB reported SNR = -09
2021-08-14	20:56	de AA6YQ	(NA-E) on	14076.2 : calling DL9QB with RR73
2021-08-14	20:57	de EA3HKA	(EU) on	14074.0 : ZC4GR called by EA3HKA reported SNR = -19

ZC4GR: Success!

----- 20m									
203415	-17	0.3	2193	~	AA6YQ	ZC4GR	-02		
203415	-6	0.3	500	~	CQ	HB9LBC	JN47		
203415	-4	0.4	2922	~	PJ4EVA	5X3R	73		
203415	15	0.3	2565	~	CQ	HA7TM	JN97		
203415	-10	0.3	659	~	SM5FQQ	PF1B	R-01		
203415	-16	0.3	203	~	PY2BMX	2E0ELA	-20		
203415	12	0.3	2414	~	LU6XQB	OG2A	KP11		
203415	2	0.5	1275	~	5B4AHL	F5RRS	-06		
203415	3	0.6	1491	~	K4FW	PA3EPP	-14		
203415	-2	0.3	398	~	5B4AHL	EB3JT	JN01		
203415	4	0.6	976	~	KS3F	IT9SSI	73		
203415	-9	0.4	606	~	MW7FRN	LA3BUA	JP77		
203415	-7	0.3	1639	~	PC2K	EA3EDU	R-21		
203415	-15	0.7	810	~	6Y5DW	N0DOW	EN26		
203415	-2	0.4	745	~	GJ0KYZ	KA2NFG	R-03		
203415	4	0.7	1998	~	AA6YQ	UA3LSX	KO65		
203415	-7	0.7	1145	~	HA1RB	IK8BDA	JM78		
203415	-10	0.3	2279	~	G3VMW	KN4CNU	EM75		
203415	-5	0.4	1426	~	CQ	SV2STE	KN00		
203415	-3	-1.7	1834	~	KP4JFR	RC1C	73		
203415	-1	0.3	1761	~	K4MM	W4HKJ	R-11		
203415	-15	0.2	333	~	CQ	9A7PBV	JN85		
203415	-7	1.3	2084	~	CQ	UW5KW	KO30		
----- 20m									
203445	-13	0.3	2193	~	AA6YQ	ZC4GR	RR73		
203445	-8	0.4	500	~	CQ	HB9LBC	JN47		
203445	4	0.5	1491	~	K4FW	PA3EPP	RR73		
203445	-8	0.4	606	~	MW7FRN	LA3BUA	R-15		
203445	-5	0.5	2922	~	K6VVK	5X3R	-12		
203445	-7	0.3	659	~	SM5FQQ	PF1B	73		
203445	17	0.3	2565	~	CQ	HA7TM	JN97		
203445	-8	0.3	2084	~	PP5TI	UW5KW	KO30		
203445	-6	0.7	1144	~	HA1RB	IK8BDA	JM78		
203445	13	0.3	2415	~	LU6XQB	OG2A	KP11		
203445	-8	0.3	1639	~	PC2K	EA3EDU	73		
203445	-1	0.3	398	~	5B4AHL	EB3JT	JN01		
203445	5	0.6	976	~	CQ	IT9SSI	JM78		
203445	-16	0.3	202	~	PY2BMX	2E0ELA	-20		
203445	0	0.3	1703	~	SV9RGI	N5OB	-15		
203445	-18	0.5	871	~	<KP4JFR>	TK/F4HVVZ/P			
203445	-8	0.3	748	~	5B4AHL	PA1EL	JO22		
203445	1	0.5	1275	~	5B4AHL	F5RRS	RR73		

WSJT-X v2.4.0 by K1JT, G4WJS, K9AN, and IV3NWW - Log QSO

Click OK to confirm the following QSO:

Call	Start	End
ZC4GR	2021-08-14 20:34:00	2021-08-14 20:35:00

Mode	Band	Rpt Sent	Rpt Rcvd	Grid	Name
FT8	20m	-17	-02		

Tx power 800 ☒ Retain

Comments ☐ Retain

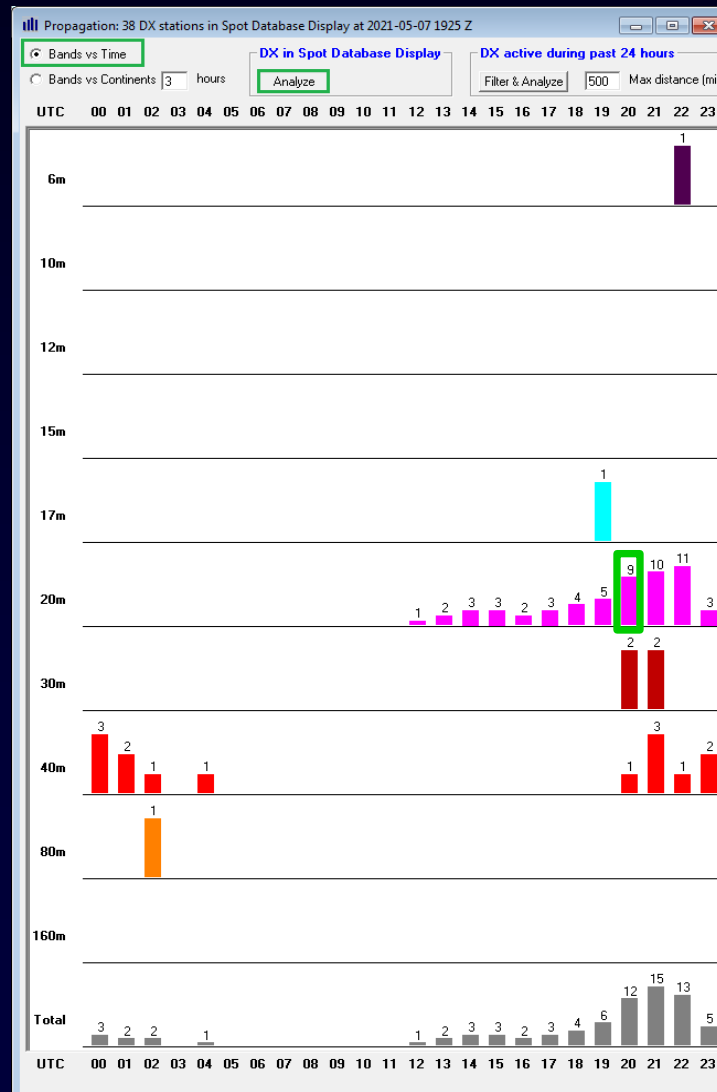
Operator AA6YQ

Exch sent Rcvd

Prop Mode ☐ Retain

OK Cancel

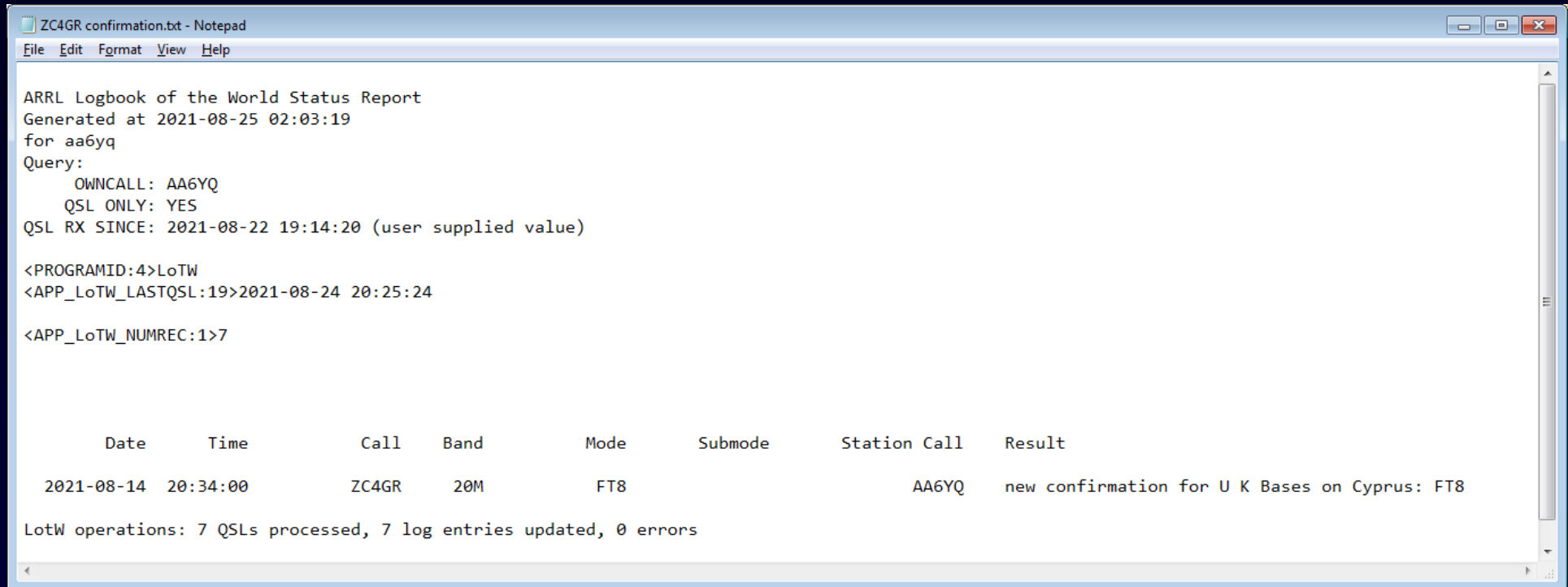
ZC4GR: Success!



Propagation Openings?

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

ZC4GR: Success!



```
ZC4GR confirmation.txt - Notepad
File Edit Format View Help

ARRL Logbook of the World Status Report
Generated at 2021-08-25 02:03:19
for aa6yq
Query:
  OWNCALL: AA6YQ
  QSL ONLY: YES
  QSL RX SINCE: 2021-08-22 19:14:20 (user supplied value)

<PROGRAMID:4>LoTW
<APP_LoTW_LASTQSL:19>2021-08-24 20:25:24

<APP_LoTW_NUMREC:1>7

  Date      Time      Call    Band      Mode      Submode      Station Call    Result
  2021-08-14 20:34:00    ZC4GR    20M      FT8                AA6YQ    new confirmation for U K Bases on Cyprus: FT8

LoTW operations: 7 QSLs processed, 7 log entries updated, 0 errors
```

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
3. Use dual receivers and a panadaptor to rapidly locate ZC4GR’s listening frequency

Multiple Views of Active DX

DX Spot Sources

EU

Active DX Database

Propagation
Prediction
(VOACAP)

Local Spot

LotW
Database

eQSL AG
Database

View
Generator

Log Database

DXCC needs

IOTA needs

Leaderboard needs

Marathon needs

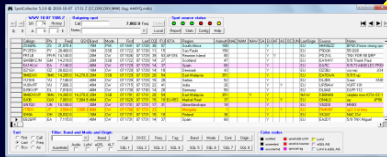
VUCC needs

WAS needs

WPX needs

WAZ needs

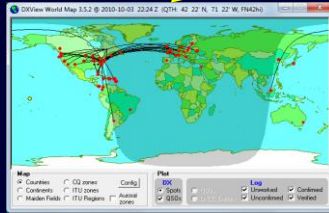
Logged
QSOs



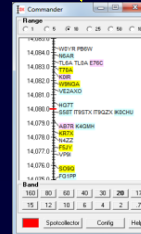
Tabular



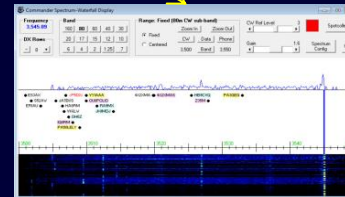
Audio/Email



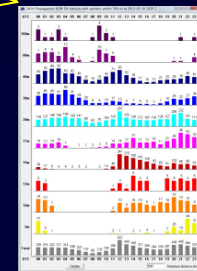
World Map



Bandspread



Spectrum



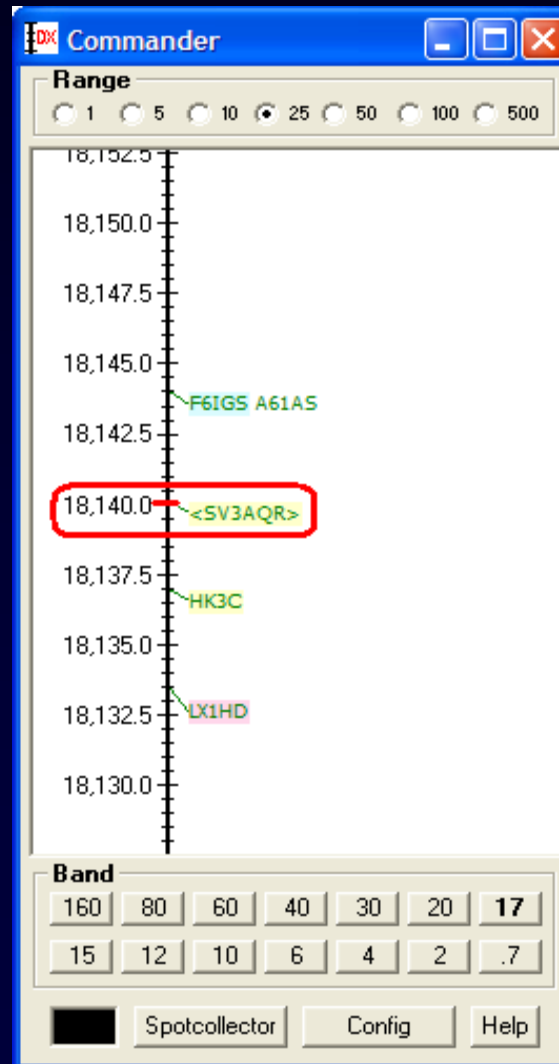
Propagation



WSJT-X

Blueprinting the Band

“Locally Spot” Every Station You Identify



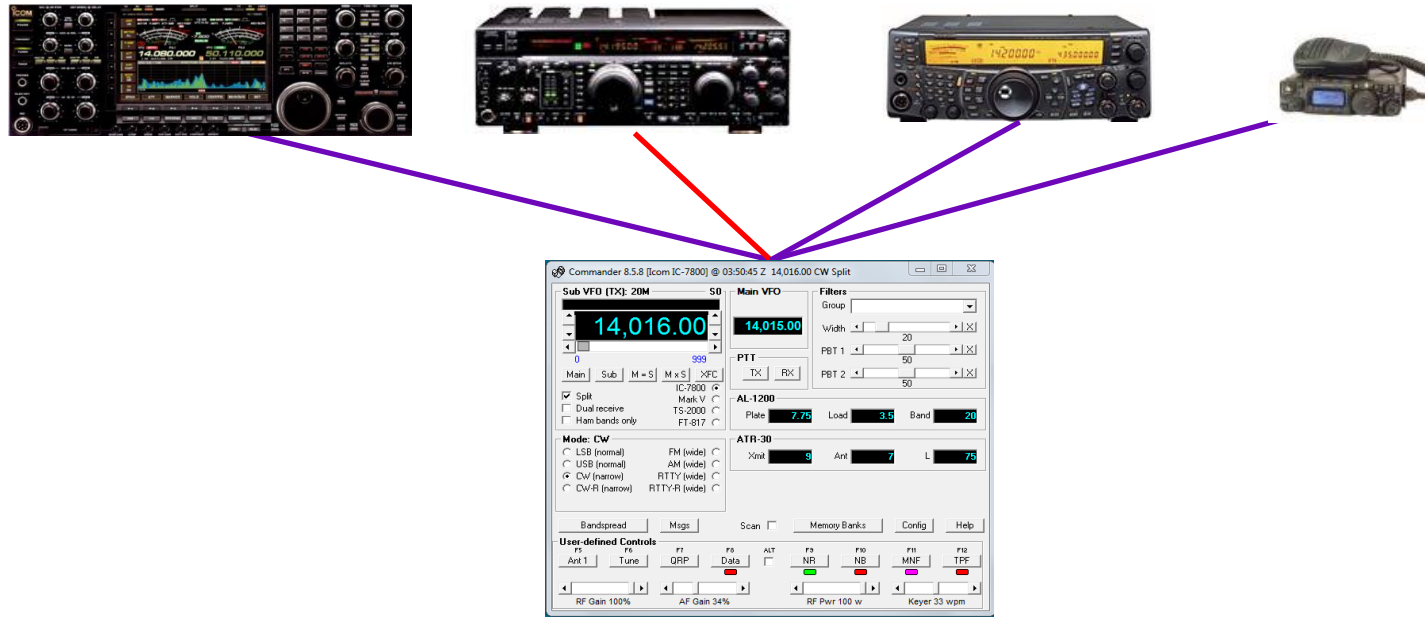
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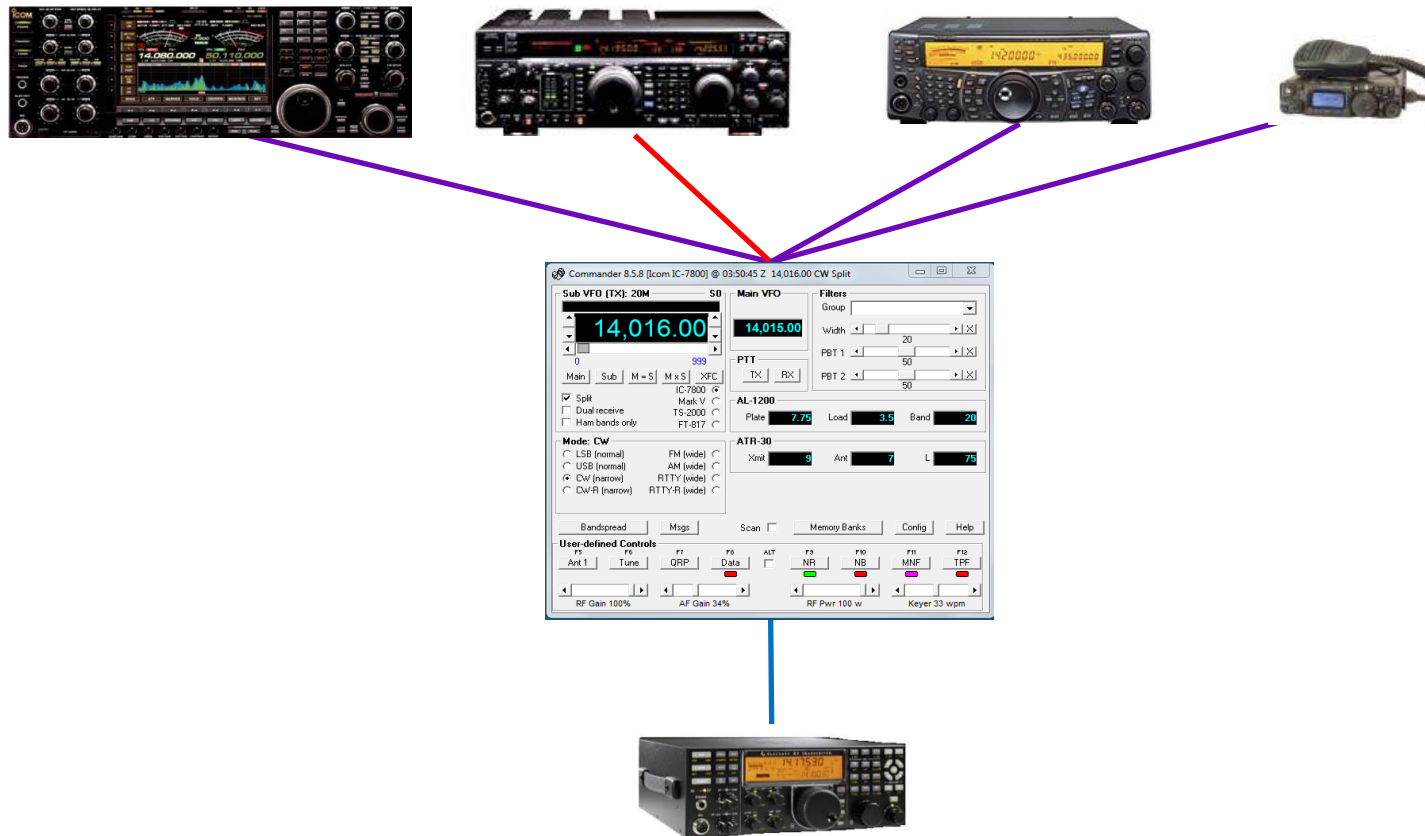
Commander: Multiple Radio Support



Select one of four *primary* radios

- By button click
- Automatically as a function of frequency

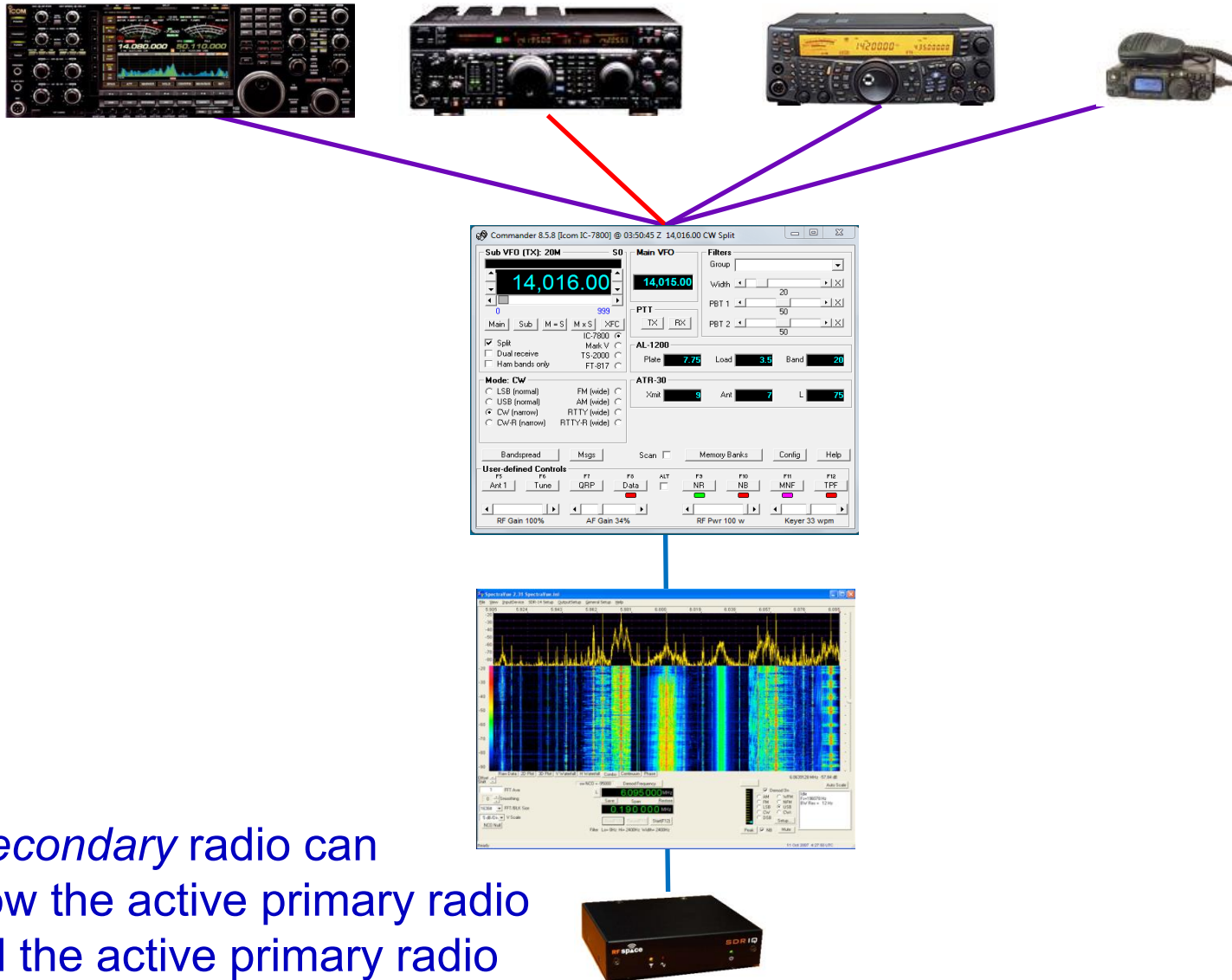
Commander: Multiple Radio Support



The *Secondary* radio can

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

Commander: Multiple Radio Support



The *Secondary* radio can

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- Lead the active primary radio

DXLab: Better DXing Through Software

1. Makes time spent DXing more productive by helping you find and work the DX you **need** to achieve your objectives
 - Alerts you to needed stations that are QRV now, and likely workable
 - **Analyzes** activity by **needed** stations that are infrequently active
 - Reveals activity patterns
 - Reveals actual propagation openings
2. Automates needed QSL wrangling and award submissions to liberate more time for DXing

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Your 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:

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

DXCC Bands & Modes:

- ☒ 160M
- ☒ 80M
- ☒ 40M
- ☒ 30M
- ☒ 20M
- ☒ 17M
- ☒ 15M
- ☒ 12M
- ☒ 10M
- ☒ 6M
- ☐ 2M
- ☒ Phone
- ☒ CW
- ☒ Digital
- ☐ FT8
- ☐ QRP
- ☒ Hide unworked in progress rpt

Marathon Bands & Modes:

- ☐ 160M
- ☒ 80M
- ☐ 60M
- ☒ 40M
- ☒ 30M
- ☒ 20M
- ☒ 17M
- ☒ 15M
- ☒ 12M
- ☒ 10M
- ☐ 6M
- ☐ 2M
- ☐ Phone
- ☐ CW
- ☒ Digital
- ☐ Mixed
- ☒ Challenge
- ☒ Include no prop
- ☐ Max TX power
- ☐ Year and Submission Info
- ☐ Realtime Award Progress

WPX Bands & Modes:

- ☐ 160M
- ☐ 80M
- ☐ 60M
- ☐ 40M
- ☐ 30M
- ☐ 20M
- ☐ 17M
- ☐ 15M
- ☐ 12M
- ☐ 10M
- ☐ 6M
- ☐ SSB
- ☐ CW
- ☐ Digital
- ☐ Mixed
- ☐ Realtime Award Progress

IOTA:

- ☒ Mixed
- ☒ HF
- ☒ VHF
- ☐ Realtime Award Progress

Other Awards:

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

DXCC Submission:

- ☒ Submit deleted entities
- Record Sheet lines/page

Marathon Submission:

- ☒ Confirmed QSOs are low risk

DXCC Credits:

- ☒ Credit-only QSO creation

Realtime Award Tracking:

- ☒ Display Progress in bold font

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
- ☐ 80M
- ☐ 40M
- ☐ 30M
- ☐ 20M
- ☐ 17M
- ☐ 15M
- ☐ 12M
- ☐ 10M
- ☒ 6M
- ☐ 2M
- ☐ 1.25M
- ☐ 70CM
- ☐ Phone
- ☐ CW
- ☐ RTTY
- ☐ Digital
- ☒ FT8
- ☐ FT4
- ☐ SSTV
- ☐ Sat
- ☐ QRP
- ☐ Mixed (Basic)
- ☒ Realtime Award Progress

WAZ Bands & Modes:

	Mixed	SSB	CW	RTTY	FT8	FT4	SSTV	Sat	QRP	Mixed (Basic)
Mixed	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
160M	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐
80M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
40M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
30M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
20M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
17M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
15M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
12M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
10M	☐	☐	☐	☐	☐	☐	☐	☐	☐	☐
6M	☒	☐	☐	☐	☐	☐	☐	☐	☐	☐

☒ 5-band WAZ

☐ Sat

☐ EME

☒ Realtime Award Progress

Buttons: Recompute, QSL Config, Help

Wrangling Online QSLs

- Submit QSOs to LoTW, eQSL, Club Log, and QRZ, and download QSLs from these services
 - Can automatically upload to each service in real time as QSO is logged
 - Download QSLs from all services with a single mouse click

Online QSL Automation

- eQSL.cc
 - Database of known Authenticity Guaranteed participants with date of last submission
 - 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
- Club Log
 - Optional automatic upload as QSOs are logged
 - One-click download of new confirmations and award progress update
 - One-click download of OQRS requests
- QRZ
 - Optional automatic upload as QSOs are logged
 - One-click download of new confirmations

Wrangling Hardcopy QSLs

- Request **needed** hardcopy QSLs by sending outgoing QSL cards
 - Find QSL routes
 - Track responses
- Update DXing **needs** as QSLs are received
- Submit QSLs for Award Credit

Hardcopy QSL Automation

You can

- Generate QSL cards or Labels requesting confirmations **needed** for DXCC, IOTA, 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

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	599	please!	

printed by DXLab freeware 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

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

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

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

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

Date	Time	Freq	Mode	RST
19-Sep-14	2323Z	18.075	CW	599

AA6YQ cfm 2X QSOs with VQ9LA

Date	Time	Freq	Mode	RST
17-Sep-04	1522Z	18.087	CW	
21-Feb-10	0112Z	10.117	CW	599
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

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
- 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

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[800MHz Search](#)
[Direction Finder](#)
[Site Photo Search](#)
[Data Download](#)
[Offline RRL](#)
[RRL Archive](#)
[Class Licences](#)
[Help](#)

Client Details

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

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Australian Communications and Media Authority
communicating | facilitating | regulating

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

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
- Keep track of requested QSLs not yet received

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
- Keep track of requested QSLs not yet received

QSLs Requested But Not Received

AA6YQ QSL aging analysis @ 20-Feb-2024

missing DXCC entities: 0
missing DXCC entity-bands: 1
missing DXCC entity-modes: 3

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	State	CQ	QSL Date	Weeks	Expired	QSL_SENT_VIA	Need
5B4/YL2RR	6M	SSB	02-May-2014	5B		14	13-Jan-2021	162		D	DXCC (entity-band)
SV2RSG/A	40M	FT8	30-Nov-2021	SV-A		20	15-Oct-2023	18		E	DXCC (entity-mode)
5A1AL	20M	FT8	12-Aug-2022	5A		34	01-Feb-2024	3		E	DXCC (entity-mode)
V85T	20M	FT8	29-Nov-2023	V8		28	03-Feb-2024	3			DXCC (entity-mode)

DXLab: Better DXing Through Software

1. Makes time spent DXing more productive by helping you find and work the DX you need to achieve your objectives
 - Alerts you to needed stations that are QRV now, and likely workable
 - Analyzes activity by needed stations that are infrequently active
 - Reveals activity patterns
 - Reveals actual propagation openings
2. Automates needed QSL wrangling and award submissions to liberate more time for DXing

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 Parks on the Air (POTA)
- 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

AA6YQ DXCC Progress Report 15-Sep-2025

Filter: None

Counts confirmations via QSL cards and LotW

ARRL-verified Honor Roll Countries (excludes deleted countries)

mixed	340
phone	340
cw	339
digi	337
160m	262
80m	312
40m	333
30m	328
20m	339
17m	337
15m	338
12m	333
10m	332
6m	117
2m	001
Sat	002

Confirmed DXCC Countries (includes deleted countries)

mixed	349
phone	349
cw	347
digi	341
FT8	302
160m	265
80m	316
40m	339
30m	333
20m	347
17m	342
15m	345
12m	337
10m	339
6m	120
2m	002
Sat	003

Confirmed HF band and mode totals (Phone, CW, Digital, includes deleted countries)

modes	1037
bands	2963
total	4000

Confirmed DXCC Challenge total (Phone, CW, Digital, excludes deleted countries)

bands	3034
-------	------

Confirmed DXCC Countries (excludes deleted countries)

mixed	340
phone	340
cw	339
digi	337
FT8	302
160m	262
80m	312
40m	333
30m	329
20m	339
17m	338
15m	338
12m	333
10m	332
6m	118
2m	002
Sat	003

Confirmed DXCC Trident Countries (excludes deleted countries and satellite QSOs)

phone	340
cw	339
digi	337

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)

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

You can

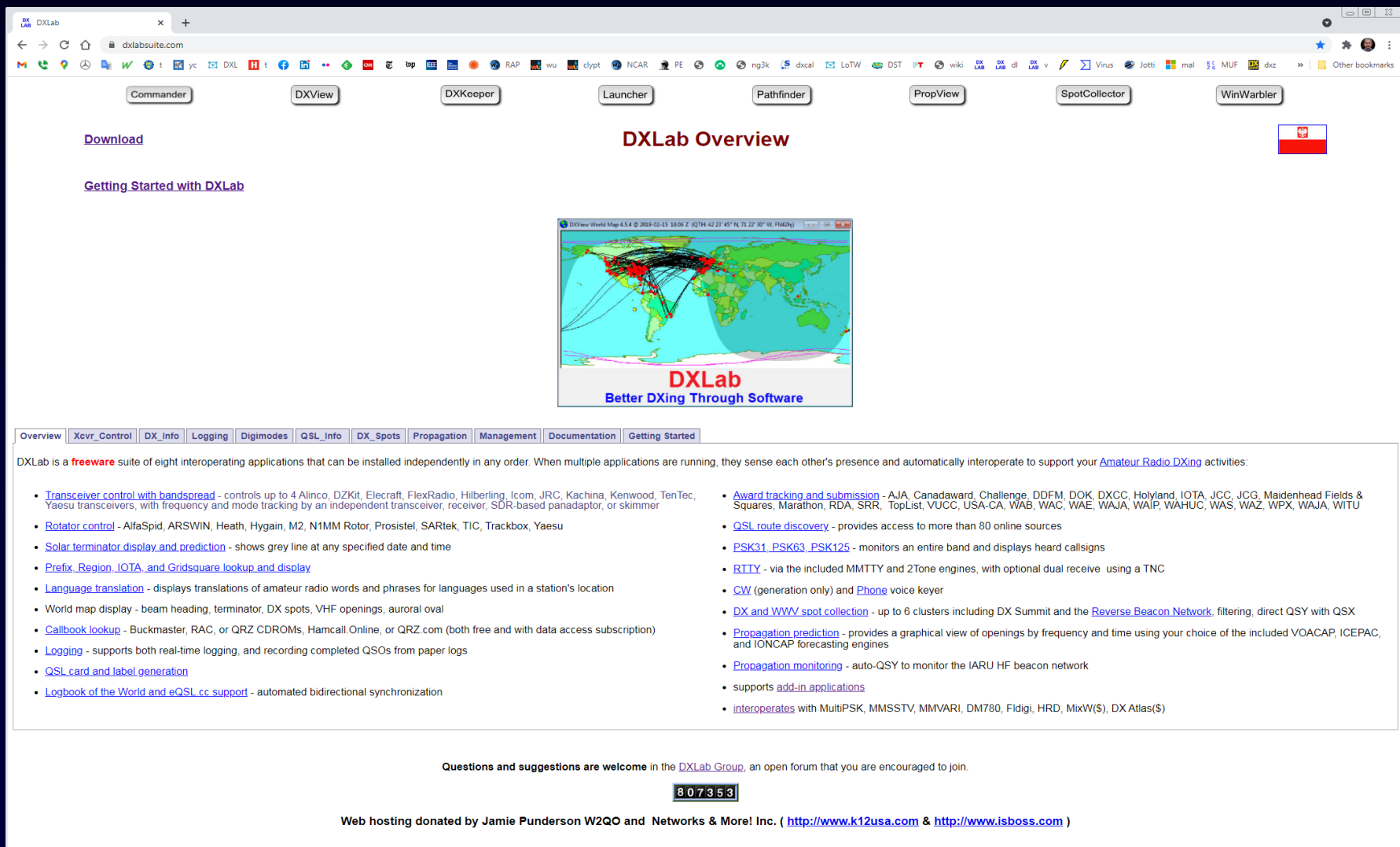
- Generate Award Progress Reports
- Identify confirmed QSOs for which award credit would advance progress towards your DXing objectives, and generate the required submission files (DXCC, IOTA, Marathon, VUCC, WAS, WAZ, WPX)
- Update confirmed QSOs to reflect award credit granted (DXCC, IOTA)

DXLab Helps Achieve Your Objectives

1. Makes time spent DXing more productive by helping you find and work the DX you **need** to achieve your objectives
 - **Alerts** you to **needed** stations that are QRV now, and likely workable
 - **Analyzes** activity by **needed** stations that are infrequently active
 - Reveals activity patterns
 - Reveals actual propagation openings
2. **Automates needed** QSL wrangling and award submissions to liberate more time for DXing

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

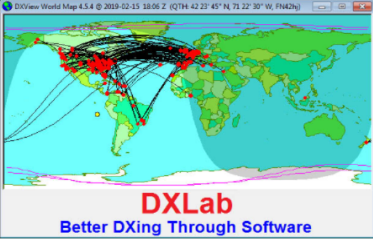
dxlabsuite.com

Commander DXView DXKeeper Launcher Pathfinder PropView SpotCollector WinWarbler

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 panadaptor, or skimmer
- [Rotator control](#) - AlfaSpid, ARSWIN, Heath, Hygain, M2, N1MM Rotor, Prosign, SARTek, TIC, Trackbox, 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 stations sections
- 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](#) - A-JA, 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 800 route sources
- [PSK31, PSK63, and PSK125](#) - monitors an entire band and displays heard callsigns
- [RTTY](#) - via the included MMTTY and 2Tone engines, with optional dual receive using a TNC
- [CW](#) (generation 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 CAP
- [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)

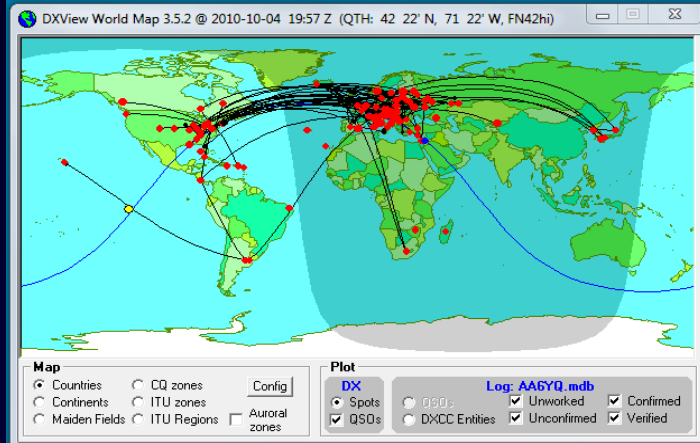
wvV 10-04 1806 Z | **Outgoing spot** | **Spot source status**

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 14.086.19

QSL Via DIRECT CQ 17 ITU 30 QTH 735700 Cont AS End Spot TX 14.086.19

Buro Grid MN30 Pri sub Sec sub

LotW IOTA Az Path S Comment

QUOTH CQ 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 L5B

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

3x Commander

Range | 1 5 10 25 50 100

14,088.5 E17BFB
14,088.0 EA4AHE
14,087.5
14,087.0
14,086.5 UR7ITU
14,086.0 PF7DKW
14,085.5 LX8RTTY
14,085.0 SP9GKJ
14,084.5
14,084.0

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

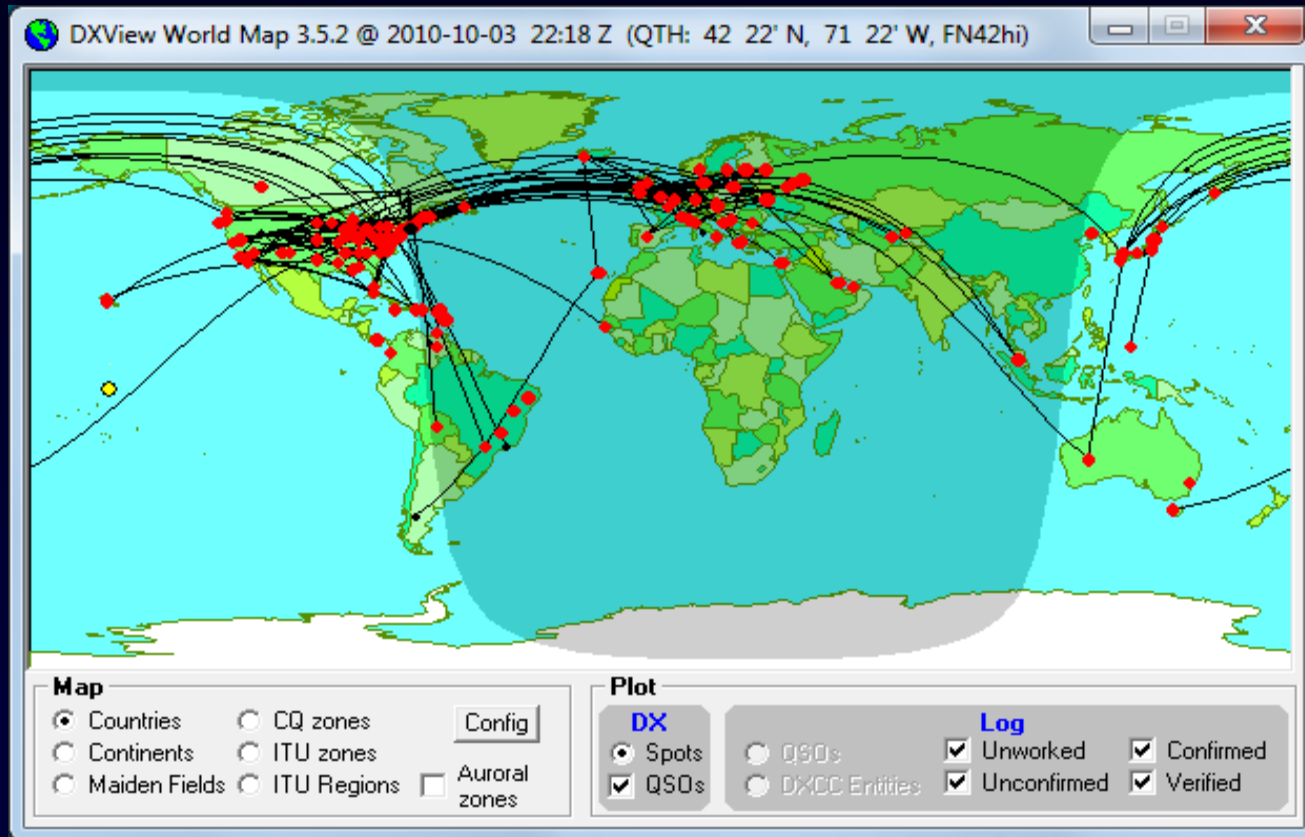
AFB Notch BPF DPF Profile Reverse Def Opt

net tune F2 F4 Esc Start Stop Abort

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